

- EXCELLENCE **IQ** → EXCELLENCE **800**
- EXCELLENCE **700** → EVOLUTION **IQ**
- EVOLUTION **600** → EVOLUTION **575**
- EVOLUTION **500** → ADVANTAGE **400**
- ADVANTAGE **350** → LOUNGE
- OPEN SUN A.R.T. **600**
- OPEN SUN A.R.T. **450** → CLASSIC **300**
- CLASSIC **200** → CLASSIC **8000**



## PLANNING MANUAL

- Exhaust air systems and accessories
- Connecting to controls and audio units
- Multivision
- Information on air conditioning
- Technical information

*Ergoline*

# Planning Manual

18502302 / Index „k“ / en / 06.2005

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## for the Ergoline Professional Sunbed Programm

Profi-Tanning by Ergoline is a synonym for innovative technologies and future-oriented product design. The success of Ergoline GmbH is no coincidence but the result of a targeted orientation to the requirements and wishes of the customers. Over 25 years of experience have given Ergoline a know-how advantage for constantly perfected technical manufacture and quality assurance.

Convincing tanning performance, exemplary comfort and, not least, the excellent workmanship of the products make Ergoline No. 1 regarding Professional Sunbed products.



*Ergoline*

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## Dear Customer,

In choosing an Ergoline professional sunbed you have acquired high-performance equipment featuring advanced technology. Your professional sunbed has been manufactured at Ergoline with the greatest care and precision, having undergone numerous quality controls and safety checks. We have done everything to ensure the safe and trouble-free operation of your sunbed. However, you also can do a lot to ensure prolonged satisfaction with your Ergoline product.

The present planning manual provides important planning information and some examples, so that an Ergoline sunbed can be used to full advantage and, with correct adjustment of the ventilation system, a comfortable room climate can be achieved as a condition of a high degree of customer satisfaction.

For correct on-site implementation, your authorised dealer (agent) is available as your first point of contact. He has the necessary experience in handling all types of site-related ventilation problems.

In the event of technical defects or should you have any spare part queries, please contact your agent.

Of course, we are also available should you have any questions.

## Contact adresse:

### JK-Global Service GmbH

After-sales service  
Rottbitzer Straße 69  
53604 Bad Honnef (Rottbitze)  
Germany

☎ Telephone: +49 (0) 22 24 / 818-861  
☎ Telefax: +49 (0) 22 24 / 818-205  
e-Mail: [service@jk-globalservice.de](mailto:service@jk-globalservice.de)  
[www.ergoline.com](http://www.ergoline.com)

Yours sincerely,

**Ergoline International GmbH**

We reserve the right to make technical alterations to any representations and statements made in this planning manual.

Reprinting or duplication - in whole or in part - is only permitted with our prior written approval and reference to the source.

**General**

**Tanning devices**

Excellence IQ	Intelligent Power System
Excellence 800	Automatic Power System
Excellence 800	Turbo Power
Excellence 800	Automatic Power System
Excellence 700	Turbo Power
Evolution IQ	Intelligent Power System
Evolution 600	Automatic Power System
Evolution 600	Super Power
Evolution 600	Turbo Power
Evolution 575	Turbo Power
Evolution 500	Automatic Power System
Evolution 500	Turbo Power
Evolution 500	Super Power
Advantage 400	Automatic Power System
Advantage 400	Turbo Power
Advantage 400	Super Power
Advantage 350	Turbo Power
Advantage 350	Super Power
Ambition 250	Super Power
Lounge	Turbo Power
Open Sun A.R.T. 600	Super Power
Open Sun A.R.T. 450	Super Power
Classic 300	Super Power
Classic 200	Super Power
Classic 8000	Ultra

**Appendix**

Performance and air requirements – Overview  
 Inlet and exhaust air cross-sections  
 Maximum exhaust pipe length without additional ventilator  
 Weights

**Planning inlet air and exhaust air**

**Controls**

Hand-held remote control MCS III plus  
 ICS Individual Cash System  
 Coin device MCS IV plus  
 Coin device MCS VI  
 Studiopilot  
 Accessories: Tower and Tower-Desk

**AQUA FRESH-AROMA system**

**MULTIVISION**

**Sound systems**

3D sound  
 Sound system, Excellence, Evolution  
 Sound system Open Sun 600  
 Sound system Classic

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Meaning of Symbols

Danger information



**Danger!**

This safety triangle with the word "Danger" indicates that there is a particular danger for personnel (danger to life, danger of injury).

e.g.:



**Danger!**

Risk of personal injury from electrical voltage!



**Caution!**

This safety triangle with the word "Caution" indicates that there is a particular danger for devices, equipment and the environment.

Important information



**Note!**

This symbol is not a safety warning, but provides you with information to help you understand operating processes more easily.

Guidelines

Ergoline devices have been made in conformity with the following guidelines:

- EC directive "Electromagnetic compatibility" 89/336/EEC (as last amended).
- Low voltage directives 72/23/ECC (as last amended).

Ergoline devices carry the following quality marks:



Intended use

The device is meant for commercial use only, not for home use. This device is used for tanning one adult person at a time, with a skin type suitable for tanning.

Nursing infants and small children through age 7 years may not use this device.

The following applies for children and teenagers between the ages of 8 and 17 years: Only use tanning devices in agreement with a parent or guardian, or after consulting a physician

The acrylic glass panels are designed for a maximum allowable weight of 135 kg.

The purpose of the coin devices is to pay for the tanning time of the Ergoline sunbed. In order that proper operation is ensured, the coin device must be adapted to the properties of the sunbed. The recommended tanning times depend on the tanning device. The tanning times can be taken from the respective operating instructions of the tanning device.

Any other use shall be considered improper. The manufacturer cannot be held liable for damage or injuries resulting from this. The operator bears the sole risk for this.

The proper use also includes compliance with the manufacturer's instructions, operating and maintenance conditions. The device may only be operated, maintained and repaired by persons familiar with these tasks and that have been informed of the dangers involved.

**Acrylic glass panel lower part**

The acrylic glass panels for the tanning devices are produced of acrylic glass developed especially for this application. The acrylics used are characterised by a particularly high UV permeability and resistance, as well as an easy-care, hygienic surface that is gentle to the skin.

The acrylic glass panels are formed to their shapes for the specific devices in a technically complex production process. Despite state-of-the-art production know-how, the presence of minor spots, air bubbles or streaks in the acrylic panels is unavoidable. In addition, microfine hairline cracks can occur on the bed surface during operation.

These occurrences are material-dependent and are unavoidable in processing, however have no significant effect on the utility value and can therefore not be recognised as defects. Cosmetics or sun screen products must be removed prior to tanning as they can cause damage (e.g. fine cracks on the surface) when used continuously.

**Export**

Export of the aforementioned Ergoline sunbeds to the USA and Canada, and the operation of these sunbeds in those countries, is forbidden. In the event of contravention, Ergoline refuses all liability. We point out expressly that in the event of infringement of this regulation, high risks of liability can arise for the exporter and/or the operator.

**Safety**

Please note that only authorised service and erection personnel may be used for the erection and installation, as well as the start-up and extension of the Ergoline devices.

The electric connections must be undertaken in accordance with local regulations by a company licensed for this purpose

Danger and safety notices fixed to the device may not be removed or covered. The safety instruction must be easily seen and must be adhered to. Safety installations (e.g. panel switches or filter panels) may not be removed or taken out of action. Further information can be taken from the operating instructions of the respective Ergoline device.

**UV Rays**

Depending on the model, Ergoline sunbeds emit a certain amount of UV rays at the place where they are installed. This can cause possible discoloration or fading of the materials used, such as: ceilings, wood, carpets, textiles, etc.

For this reason make certain of the UV resistance of the materials during planning.

**Ozone**

Certain wavelengths are reliably filtered out by the lamp glass and the built-in filter panels in the UV low-pressure and UV high-pressure lamps used by Ergoline. Thus, the formation of ozone in damaging concentrations or of other odours is not possible.

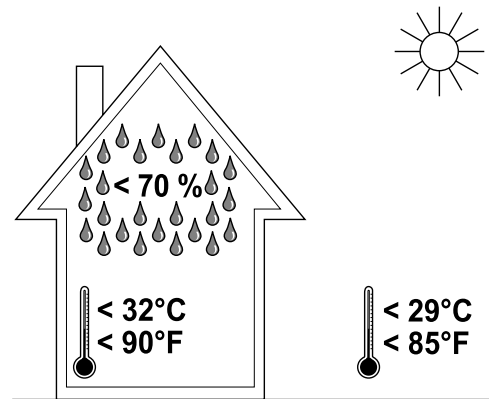
### Climatic Requirements

All Ergoline devices are intended for installation in dry rooms without the danger of splash and drip-water. The maximum humidity of this room may not exceed 70 %.

To prevent an excessively high temperature on the bed surface of sunbeds, the room temperature should be a maximum of 3 to 4 °C higher than the outside temperature. However, the temperature in the room may not exceed 32 °C. The optimum temperature range is 25 to 30 °C.

Sufficient ventilation must always be ensured.

The devices may only be transported and stored at temperatures from 2 to 50 °C



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### Permissible Floor / Ceiling Loads

When installing sunbeds for professional use, you should always make sure that the floors and ceilings in commercially used rooms are designed to support a maximum load of 3500 N/m<sup>2</sup>.



**Caution!**

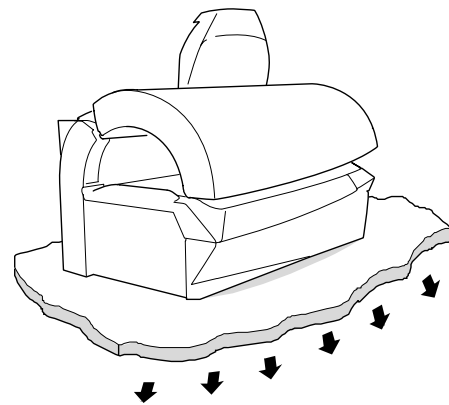
The load-bearing capacity of wooden beam ceilings must be proven in individual cases.

If the actual maximum load exceeds this value, the operator must provide separate documentary evidence in conformity with DIN 1055 – 3, October 2002, for the use of these rooms.

Examples of ceiling loads (based on normal cabin dimensions, 1 tanning device, two persons and small items of furniture):

Tanning devices up to 450 kg: Ceiling load approx. 1500 N/m<sup>2</sup>

Tanning devices up to 700 kg: Ceiling load approx. 1840 N/m<sup>2</sup>



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### Cabin Sizes

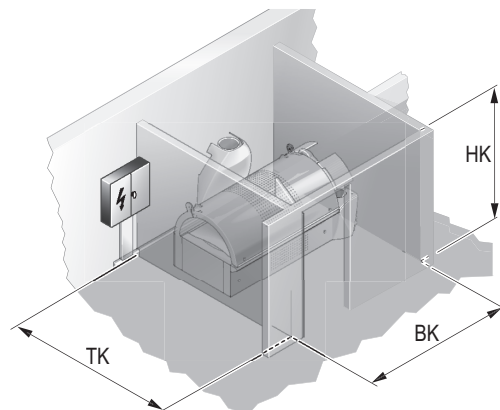
The respective minimum installation surfaces are given in the descriptions of the tanning devices.

The minimum installation surfaces refer to the dimensions:

BK Width of cabin

TK Depth of cabin

The height HK of the cabin is dependent on the local conditions and is not given.



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## Mains Supply Lines

The following supply services must be taken into account in the planning of the position for an Ergoline Professional sunbed and must be laid on before installation of the device:

- Power connection cable
- Electrical control line (e.g. token/coin box)
- Headphone line

In addition, and depending on the equipment desired, planning must be made for the following supply lines:

- Loudspeaker line
- Line for external music
- Line for channel selection switching
- Bus line for data Bus
- Condensation hose

Further information, as well as the position of connections to the device, can be found in the description of the respective device.

## Electrical Connections

Please note that the electric connection may only be carried out by an electrical contractor. The electrical installation must comply with national safety regulations.

### Recommendations

At the site, we recommend a selective current-operated e.l.c.b. system (nominal ground current 30 mA) as well as lightning protection and a UPS installation for control and PC installations.

### Connection requirements

The electrical installation is to be fitted with an easily accessible all pole isolating device (master switch) on the building side, complying with overvoltage category III. This means that each pin shall have a contact opening width complying with the conditions of overvoltage category III for full isolation.

If it is connected via a plug and socket, the plug system used shall comply with EN 60309-1/A11; 5-pin; 400 V AC ~ (10 A to 35 A) shall be used. The required rated fusing for a tanning device can be found in the chapter "Technical data" of the tanning device.

The required connection voltages must lie within a tolerance range of +/- 5% in order to ensure a malfunction-free and guaranteed operation of the devices. In the design of the electric power lines, a simultaneity factor of 1 must be expected. Time delay fuses must be supplied for protection.

The prescribed connection line per device is H05VV-F 5G x,x (x,x = 1.5 / 2.5 / 4.0 / 6.0) or local equivalent.

The cross-section of the power lines must be selected in conformity with local regulations and depends on:

- The length of the cable
- The power cable connected to it
- as well as a supply cable per device.

The mains connector cable must be laid prior to assembly of the device. In doing so, care must be taken to allow for cabling reserve, for instance in the tanning cabins, for connection of further devices. We recommend direct mains connection, i.e. without making any additional external contact points on the equipment. Further information can be obtained from the respective device descriptions.

The arrangement of the power cables must be recorded by means of corresponding labeling for the later installation of the devices.

Data, bus and/or control cables must be laid with a minimum distance of 10 cm from the mains supply. Therefore, the power supply and the control cables must not be placed in the same cabling trough

### Ripple control system (TRA)

In some cases, depending on the local power supply company, the sunbeds may adversely affect the mains supply network in the building where the sunbeds are installed, causing interference with the ripple control system (TRA) operated by the power supply company. This may cause malfunctions, for example, of night storage heaters.

If the sunbeds cause this type of interference, the sunbed operator is responsible for installing an audio frequency blocking filter in the building wiring system. Please contact your firm of electricians. Your firm of electricians will be familiar with the technical connection conditions as applied by your local power supply company and will thus be able to match the audio frequency blocking filter to the mains supply of your power supply company.

## Air Conditioning Technology

Ergoline sunbeds with air conditioning make it possible to influence the temperature for the ergonomic panel, surround air and the cabins. With the installed air-cooled air conditioning units, all essential factors involved in air conditioning can be adjusted throughout the entire year to meet the user's wishes and requirements.

Air conditioning can

- regulate the temperature of the warm air → Cool;
- regulate interior humidity → Dehumidify in the summer;
- clean the interior air.

### Air humidity

#### Relative humidity

Air is able to absorb water vapour. This ability to absorb increases with increasing air temperature. For instance, 1 kg air at 15 °C can take up 10.78 g of water vapour but 20.34 g at 25 °C.

If 1 kg of air at 25 °C only contains 10 g water vapour, then the air can absorb a further 10.34 g. In this case, relative humidity is 50%.

#### Absolute humidity

Absolute humidity is the mass of water vapour that can be contained in a kilogram of air. Maximum humidity  $x_s$  is reached when the air is saturated with water vapour. Relative humidity is then 100%.

Relative humidity  $\varphi$  is derived from the relationship between absolute and maximum humidity:  $\varphi = \frac{x}{x_s} \times 100\%$ .

$\varphi$  = relative humidity

$x$  = absolute humidity

$x_s$  = maximum humidity

#### Condensation water

Air-cooled air conditioning units have a surface temperature of 4 °C to 12 °C. As the air cools, relative humidity increases, as the ability to absorb water vapour decreases. If the air temperature continues to fall, the temperature drops below dewpoint temperature. The air is then no longer able to hold a part of the water vapour mass it contains, and condensation occurs on the cooler surfaces. The water thus formed is referred to as condensation water. Absolute humidity is reduced by this water mass.

#### Condensation drainage

On all air-cooled air conditioning units, condensation (→ condensation water) is expelled via the fan ring in the condenser fan. Part of the condensation is evaporated or pumped off by the condensation pump and fed to a condensation container via a plastic hose. The amount of water given off varies and depends on the air as well as the output of the cooling system. Dehumidification output can be as much as 2.8 litres per hour. When laying the plastic hose, please ensure that the hose is not longer than 20 meters and is not higher than 3 meters. The amount of condensation per device can vary even when there are the same devices in the same studio.

## Acoustic Terminology

The sound pressure level measurement  $L_{pA}$  is used at a measuring distance  $d = 1$  meter for characterising the acoustic sources in an enclosed space. The measurement is carried out with exhaust air and a switched-on main and body ventilator as

well as air conditioning (when available, limiting temperature 20 °C).

Terms	Explanations
Sound	Sound is generated by mechanical vibrations. It propagates itself in gaseous, fluid and solid bodies.
Frequency	No. of vibrations per second. Unit: 1 Hertz = 1 Hz = 1/s. The pitch rises with the frequency. Frequency range of human hearing: 16 Hz ... 20,000 Hz.
Acoustic level	A measure of the strength of the sound (acoustic energy).
Decibel (db)	Standard unit for the acoustic level depicted on a logarithmic scale.
dB (A)	As the human ear finds that different high tones (frequencies) of the same acoustic level have different strengths, the noise must be correspondingly damped with filters at certain frequencies. The frequency evaluation curve with filter A takes this into account and provides a subjective hearing impression. A difference of 10 db (A) corresponds somewhat to a doubling (or halving) of the perceived noise level.

**Environmental Declaration**

The JK corporate group is subject to the strict regulations of EC Directive 761/2001 and the standard EN ISO 14001:1996, and undergoes regular internal and external environment audits performed by trained auditors.



**Environmental Regulations**

**Disposal of lamps**

UV low-pressure lamps and UV high-pressure lamps contain fluorescent materials and other waste containing mercury.

According to the national waste disposal laws and in accordance with the municipal waste regulations, proof must be provided of the proper disposal of UV lamps.

Your local sales agency will be happy to assist you with the disposal<sup>1)</sup> of UV lamps and batteries.

- Report the number of UV lamps to your local Ergoline agency by telephone or in writing.
- Together with a disposal company, the agency then sees to the collection of the lamps and their proper disposal.

**Disposal of electronic components and batteries**

Batteries and printed circuits contain heavy metal compounds. These and electronic devices must be disposed of as special waste in accordance with national waste laws and community waste bylaws. Approach your regional waste recycling association for disposal of batteries, printed circuits and electronic devices.

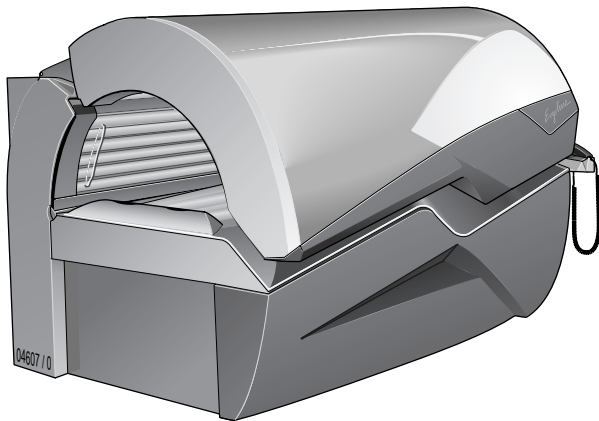
**Packaging**

All packaging consists of 100 % recyclable materials. Packaging brought into circulation by the JK Corporate Group that is no longer required can be returned to the JK Corporate Group. Your agency partner or dealer will be happy to advise you.

**Disposal of recyclable materials**

The device has been produced of recyclable materials. When being scrapped later, the device must be disposed of properly. The JK Corporate Group will provide you with information on the content or potential hazards of the materials used.

1) Studio user liable for costs



The IQ sensor is a highly sensitive, photoelectronic precision instrument that is capable of analysing the state of the skin accurately and reliably. For this reason, the IQ sensor is automatically tested for proper working order and measurement accuracy after every measurement cycle. It is also recommended to recalibrate the IQ sensor after approximately 30 hours of operation. For further information refer to the operating instructions.



Excellence IQ

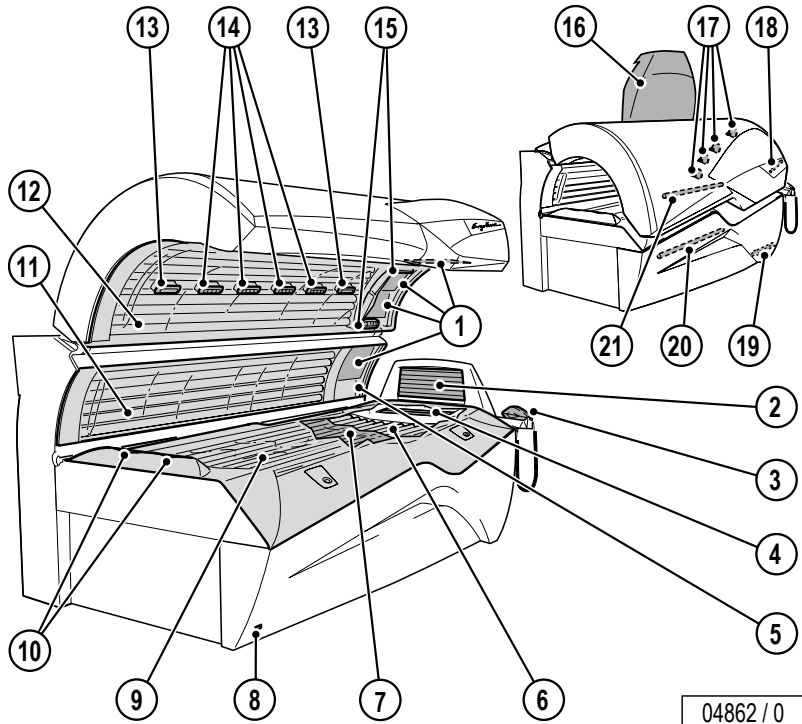
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Device description

Excellence IQ

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. IQ sensor and base station
4. Neck tanner
5. Headphone connection
6. UV low-pressure lamps, lower part
7. Intermediate panel
8. Infrared interface
9. Acrylic glass panel lower part
10. Air nozzles body cooling, feet end
11. UV low-pressure lamps, side part
12. UV low-pressure lamps, canopy
13. Nozzles AQUA FRESH
14. Air nozzles body cooling
15. Air nozzles body cooling head end and AROMA
16. Central exhaust air bracket (optional)
17. Accent lighting canopy (two coloured)
18. Accent lighting canopy
19. Accent lighting base
20. Accent lighting front panel (blue)
21. Accent lighting internal (blue)



**Technical Data**

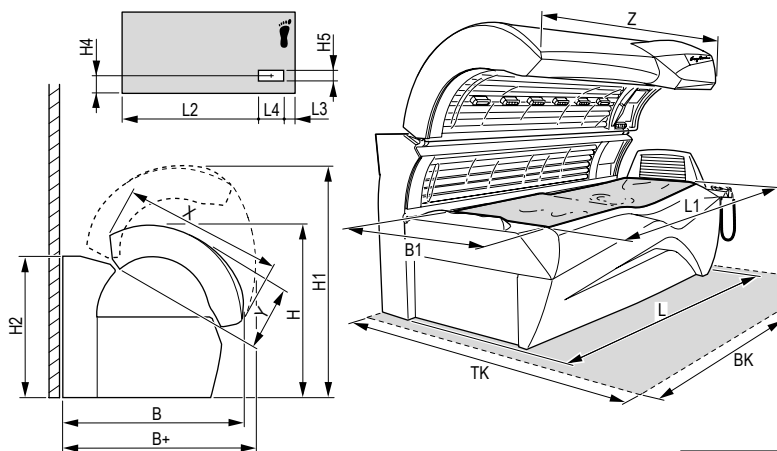
<b>Electrical data</b>	
Nominal power consumption:	16 500 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
<b>Performance:</b>	
Canopy:	
UV low pressure lamps	24 x 120-180 W <sup>1)</sup>
UV high pressure lamps	3 x 520 W
Lower part:	
UV low pressure lamps	19 x 120-180 W <sup>1)</sup>
Side part:	
UV low pressure lamps	8 x 120-180 W <sup>1)</sup>
UV high pressure lamps	1 x 520 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

1) Electronically controlled

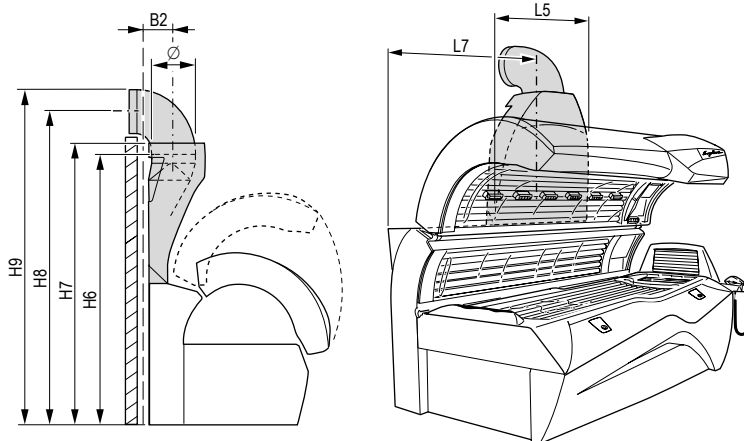
<b>Noise emission</b>	
Acoustic pressure level:	68.9 db (A)
<b>Inlet and exhaust air</b>	
Temperature difference, supply/exhaust air:	15 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	5200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible

Dimensions

B	1428 mm
B1	850 mm
B2	188 mm
B+	1510 mm
L	2323 mm
L1	2110 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1373 mm
H1	1830 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1224 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



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**Planning example for double rear wall**

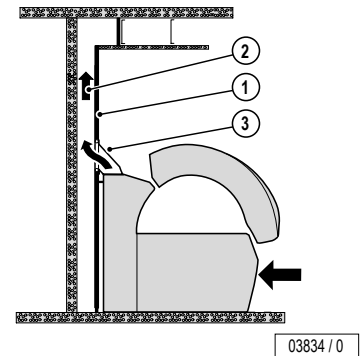
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

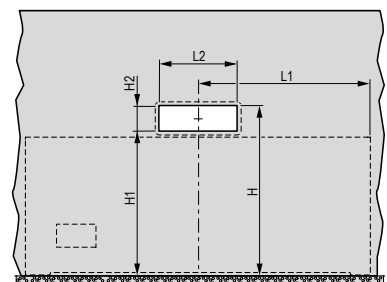
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



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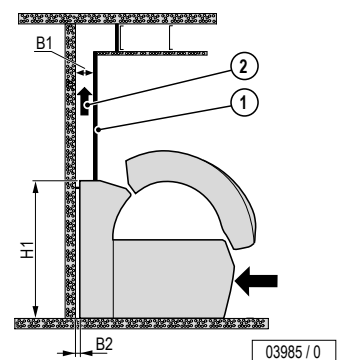
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**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



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**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

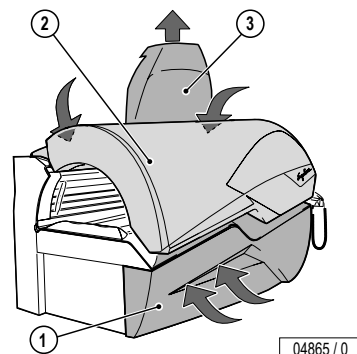
Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
			of pipe	of bend		
mm	mm	m <sup>3</sup> /h			pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

## Equipment cooling

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



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## Surround cooling

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately.

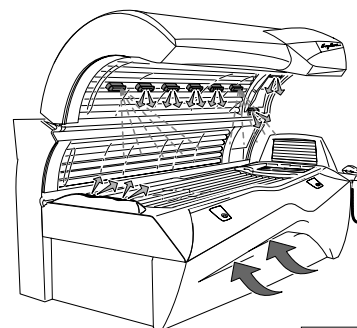
Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air.

The user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

In automatic mode the initial temperature of the air conditioner (Climatronic, standard equipment) is automatically preselected dependent on the lamp power.

In maximum mode the user can preselect the temperature of the air conditioner (Climatronic, standard equipment).

The temperature of the air conditioner can be adjusted at any time during the tanning.

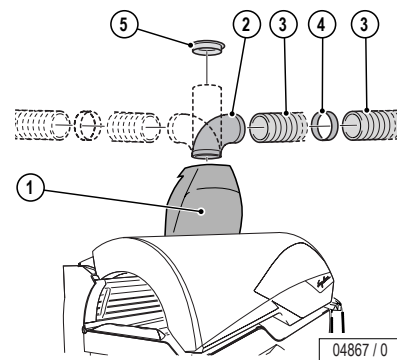


04866 / 0

**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.



**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Standard equipment.  
3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Standard equipment: Climatronic for bed surface and Surround Cooling with fully integrated climate control of body cooling; Cabin climate control via body cooling run-on (temperature-controlled).

**AQUA FRESH AROMA system**

Standard equipment: Aroma and body cooling for the user.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).

**IQ sensor**

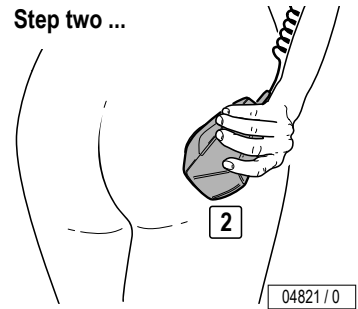
Standard equipment: The user determines his tanning ability by using the integrated IQ sensor to measure face and body. When operating the sensor, the user is assisted by VoiceGuide.

**Step one:** The first measurement is performed on the forehead. A beep confirms a successful measurement. The VoiceGuide then prompts you to perform the second measurement, this time on your body.

**Step one ...**

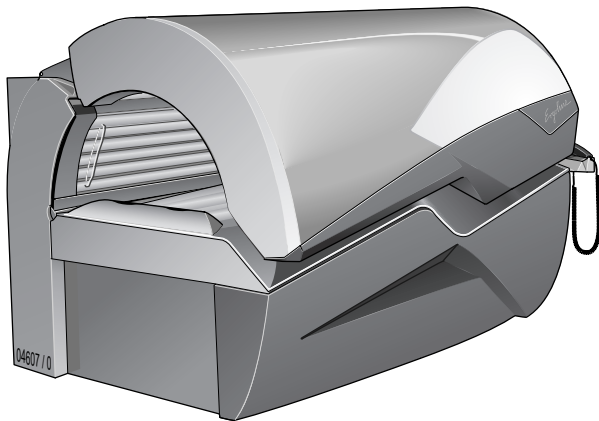


**Step two ...**



**Step two:** Perform the second measurement on the palest part of your body: e.g. your buttocks or insides of your arms. It's important that this part of the body is included in your tanning assessment. This way, allowance is made for pigmentation progress at the next tanning session and tanning power is increased.

The Intelligent Power System now takes just a few seconds to compute your personal tanning programme from your measurement readings.



The Automatic Power System sensor is a highly sensitive, photoelectronic precision instrument that is capable of analysing the state of the skin accurately and reliably. For this reason, the IQ sensor is automatically tested for proper working order and measurement accuracy after every measurement cycle. It is also recommended to recalibrate the APS sensor after approximately 30 hours of operation. For further information refer to the operating instructions.



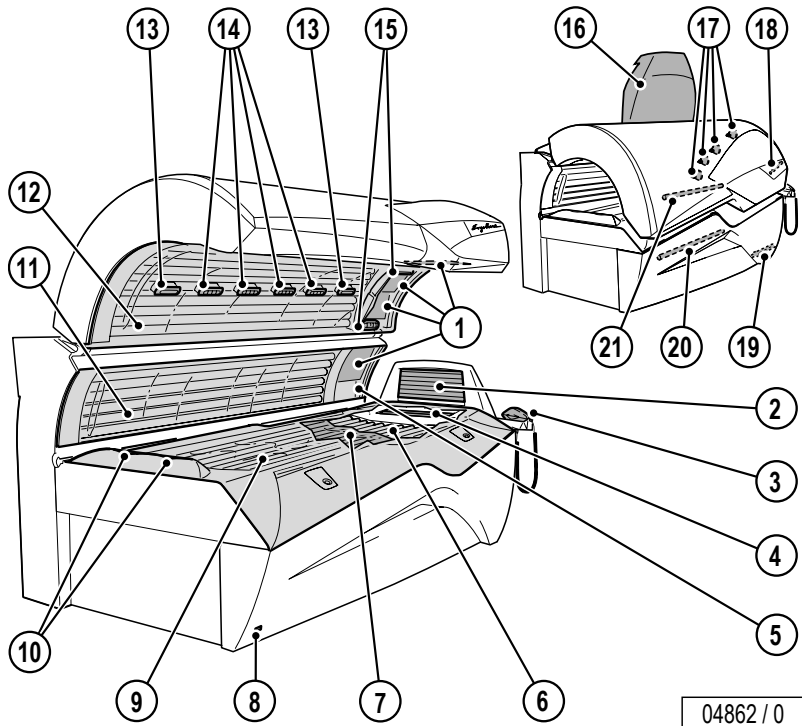
Excellence 800 APS

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Device description

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. APS sensor and base station
4. Neck tanner
5. Headphone connection
6. UV low-pressure lamps, lower part
7. Intermediate panel
8. Infrared interface
9. Acrylic glass panel lower part
10. Air nozzles body cooling, feet end
11. UV low-pressure lamps, side part
12. UV low-pressure lamps, canopy
13. Nozzles AQUA FRESH
14. Air nozzles body cooling
15. Air nozzles body cooling head end and AROMA
16. Central exhaust air bracket (optional)
17. Accent lighting canopy (two coloured)
18. Accent lighting canopy
19. Accent lighting base
20. Accent lighting front panel (blue)
21. Accent lighting internal (blue)



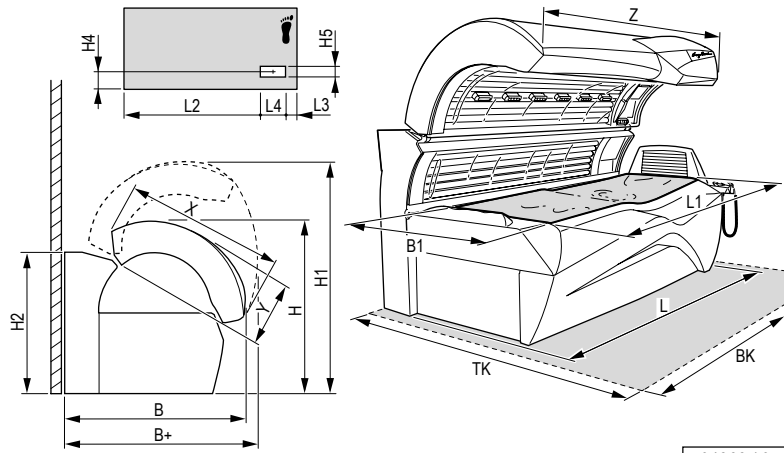
Technical Data

Electrical data	
Nominal power consumption:	18300 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	24 x 160 W
UV high pressure lamps	3 x 520 W
Lower part:	
UV low pressure lamps	19 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 520 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

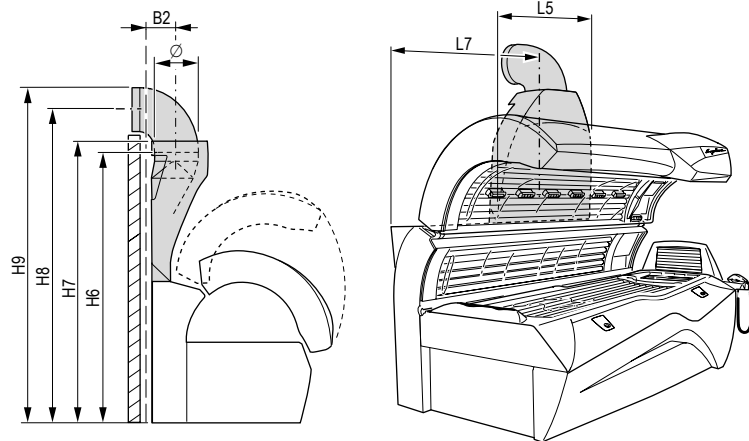
Noise emission	
Acoustic pressure level:	68.9 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	15 °C
Max. air requirement:	2800 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm²
Cabin inlet air cross section at 1.5 m/s:	5200 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

Dimensions

B	1428 mm
B1	850 mm
B2	188 mm
B+	1510 mm
L	2323 mm
L1	2110 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1373 mm
H1	1830 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1224 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



04863 / 0



04864 / 0



**Planning example for double rear wall**

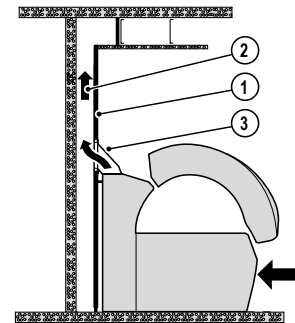
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

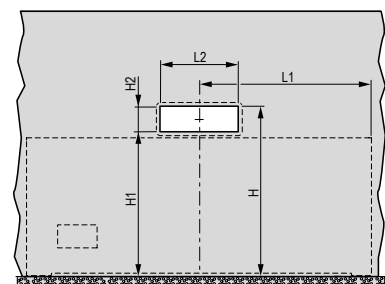
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03834 / 0



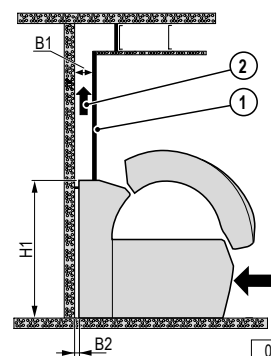
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



03985 / 0

**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

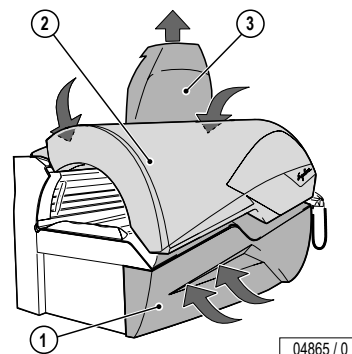
Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately.

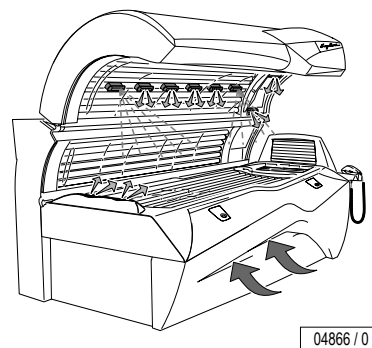
Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air.

The user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

In automatic mode the initial temperature of the air conditioner (Climatronic, standard equipment) is automatically preselected dependent on the lamp power.

In maximum mode the user can preselect the temperature of the air conditioner (Climatronic, standard equipment).

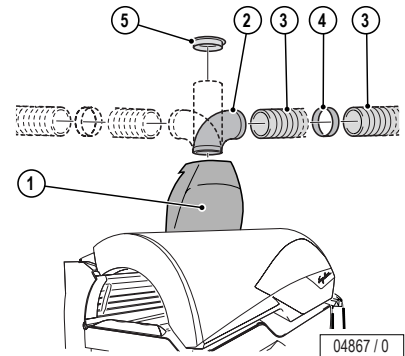
The temperature of the air conditioner can be adjusted at any time during the tanning.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.



**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Standard equipment.  
3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
ICS-Unit	3453200	Chip card terminal for APS devices
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

## Air conditioner

Standard equipment: Climatronic for bed surface and Surround Cooling with fully integrated climate control of body cooling; Cabin climate control via body cooling run-on (temperature-controlled).

## AQUA FRESH AROMA system

Standard equipment: Aroma and body cooling for the user.

## IR Interface

Standard equipment: Access to the device data with a hand-held unit (Palm).

## APS sensor

Standard equipment: The user determines his tanning ability by using the integrated APS sensor to measure face and body. When operating the sensor, the user is assisted by VoiceGuide.

**Step one:** The first measurement is performed on the forehead. A beep confirms a successful measurement. The VoiceGuide then prompts you to perform the second measurement, this time on your body.

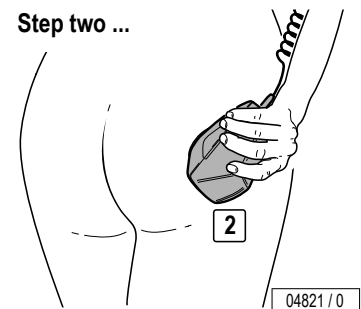
Step one ...

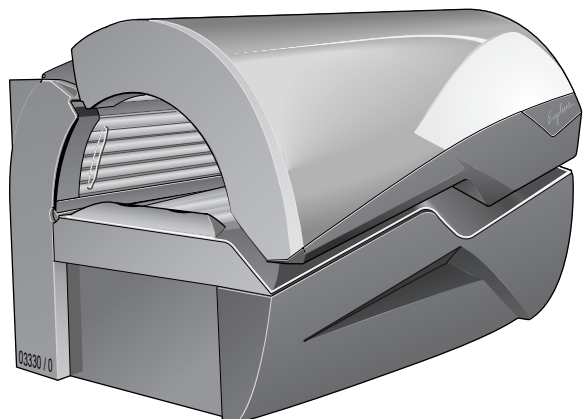


**Step two:** Perform the second measurement on the palest part of your body: e.g. your buttocks or insides of your arms. It's important that this part of the body is included in your tanning assessment. This way, allowance is made for pigmentation progress at the next tanning session and tanning power is increased.

The Automatic Power System now takes just a few seconds to compute your personal tanning programme from your measurement readings.

Step two ...





Turbo Power

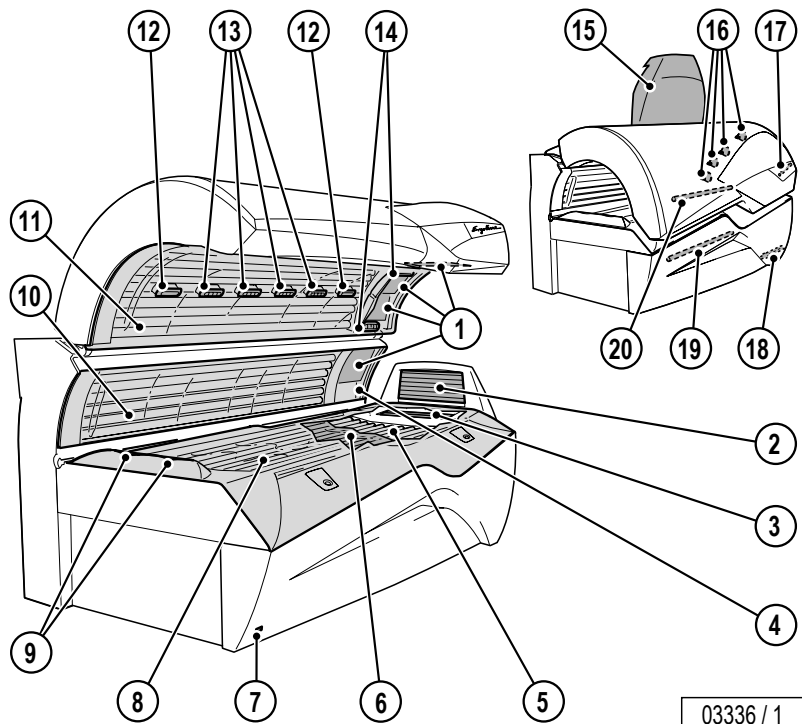
Excellence 800

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**Device description**

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. Neck tanner
4. Headphone connection
5. UV low-pressure lamps, lower part
6. Intermediate panel
7. Infrared interface
8. Acrylic glass panel lower part
9. Air nozzles body cooling, feet end
10. UV low-pressure lamps, side part
11. UV low-pressure lamps, canopy
12. Air nozzle/nozzle AQUA FRESH
13. Air nozzles body cooling
14. Air nozzles body cooling head end and AROMA
15. Central exhaust air bracket (optional)
16. Accent lighting canopy (two coloured)
17. Accent lighting canopy
18. Accent lighting base
19. Accent lighting front panel (blue)
20. Accent lighting internal (blue)



**Technical Data**

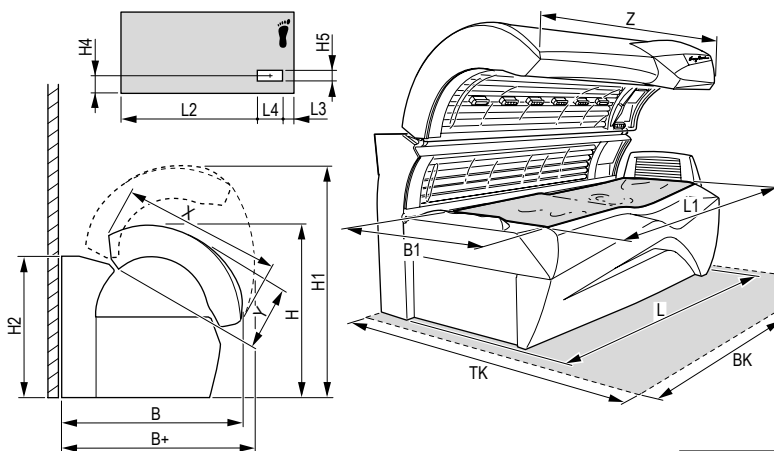
Electrical data	
Nominal power consumption:	18300 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	24 x 160 W
UV high pressure lamps	3 x 520 W
Lower part:	
UV low pressure lamps	19 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 520 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

Noise emission	
Acoustic pressure level:	68.9 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	15 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	5200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible

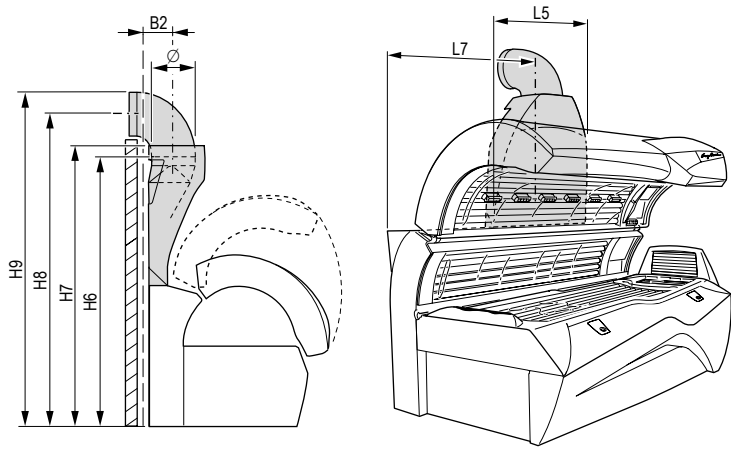


**Dimensions**

B	1428 mm
B1	850 mm
B2	188 mm
B+	1510 mm
L	2323 mm
L1	2110 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1373 mm
H1	1830 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1224 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



03314 / 0



03315 / 0

**Planning example for double rear wall**

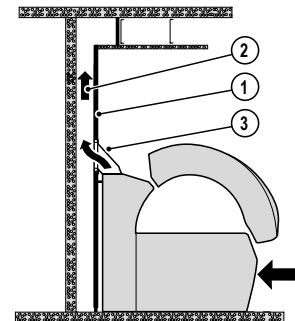
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

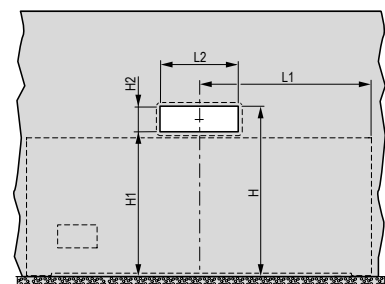
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03834 / 0



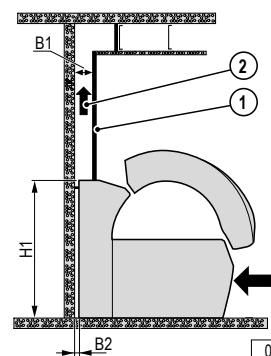
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



03985 / 0

**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

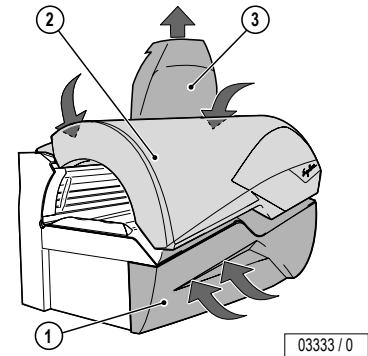
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

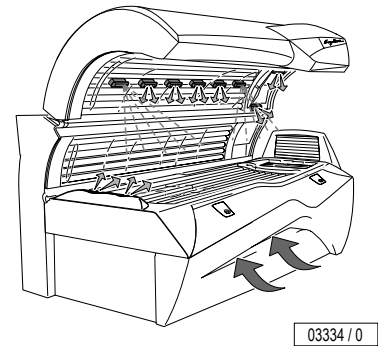
**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment. The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

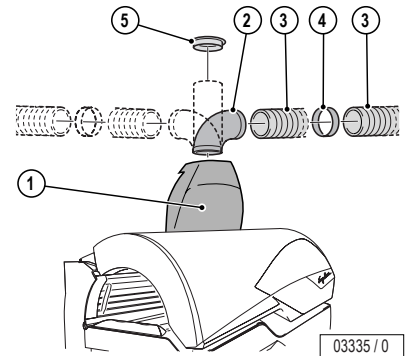
Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling. The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately. Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air. The user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area. The user can preselect the temperature of the air conditioner (Climatronic) provided as standard equipment, and therefore adjust the temperature of the bed surface and body air in accordance with his/her wishes.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.



**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Equipment variant, retrofitting not possible.  
 3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

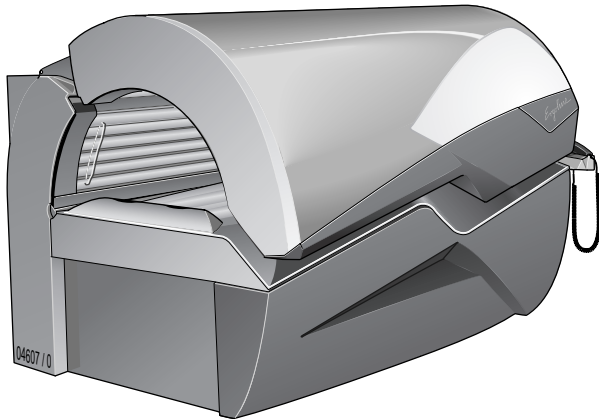
Standard equipment: Climatronic for bed surface and Surround Cooling with fully integrated climate control of body cooling; Cabin climate control via body cooling run-on (temperature-controlled).

**AQUA FRESH AROMA system**

Standard equipment: Aroma and body cooling for the user.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



The Automatic Power System sensor is a highly sensitive, photoelectronic precision instrument that is capable of analysing the state of the skin accurately and reliably. For this reason, the IQ sensor is automatically tested for proper working order and measurement accuracy after every measurement cycle. It is also recommended to recalibrate the APS sensor after approximately 30 hours of operation. For further information refer to the operating instructions.



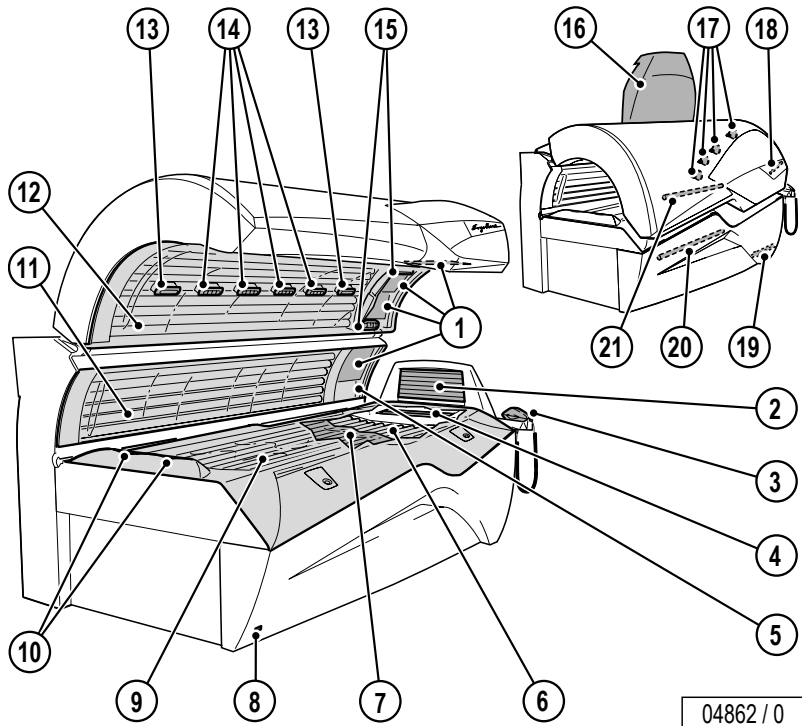
Excellence 700 APS

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**Device description**

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. APS sensor and base station
4. Neck tanner
5. Headphone connection
6. UV low-pressure lamps, lower part
7. Intermediate panel
8. Infrared interface
9. Acrylic glass panel lower part
10. Air nozzles body cooling, feet end
11. UV low-pressure lamps, side part
12. UV low-pressure lamps, canopy
13. Nozzles AQUA FRESH
14. Air nozzles body cooling
15. Air nozzles body cooling head end and AROMA
16. Central exhaust air bracket (optional)
17. Accent lighting canopy (two coloured)
18. Accent lighting canopy
19. Accent lighting base
20. Accent lighting front panel (blue)
21. Accent lighting internal (blue)



**Technical Data**

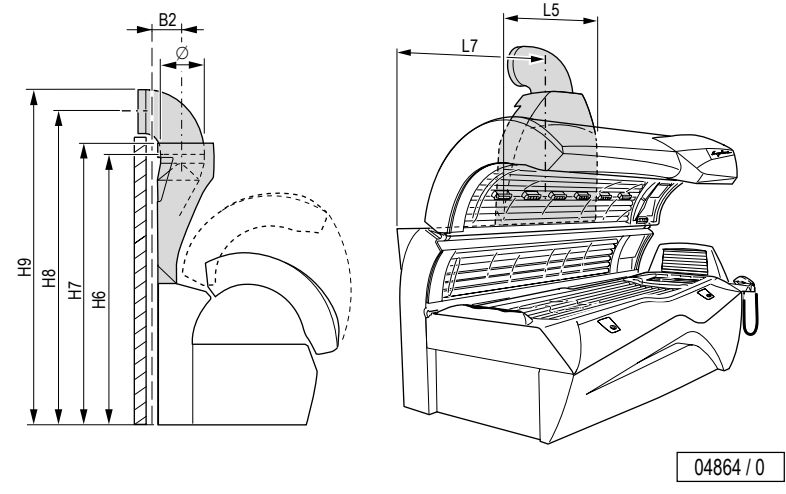
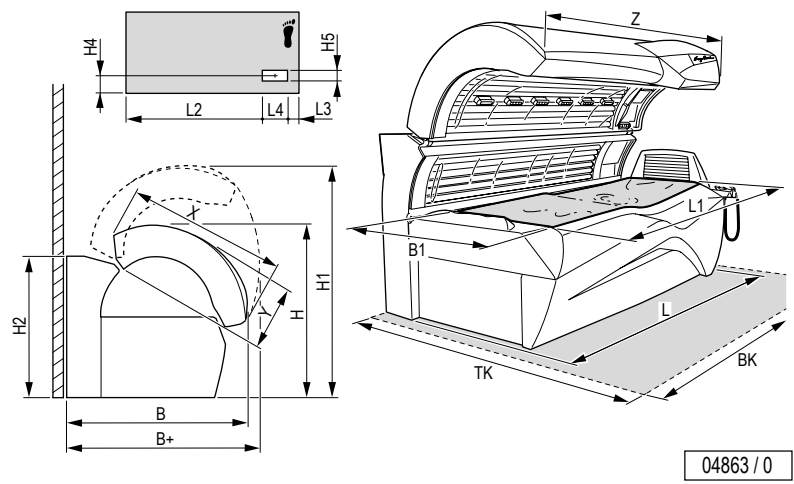
Electrical data	
Nominal power consumption:	18300 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	24 x 160 W
UV high pressure lamps	3 x 520 W
Lower part:	
UV low pressure lamps	19 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 520 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

Noise emission	
Acoustic pressure level:	68.9 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	15 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	5200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible



**Dimensions**

B	1428 mm
B1	850 mm
B2	188 mm
B+	1510 mm
L	2323 mm
L1	2110 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1373 mm
H1	1830 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1224 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



**Planning example for double rear wall**

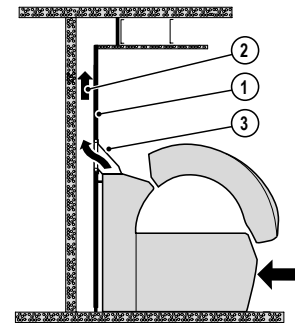
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

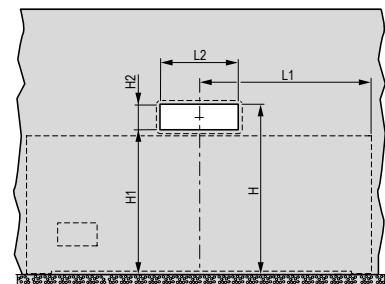
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03834 / 0



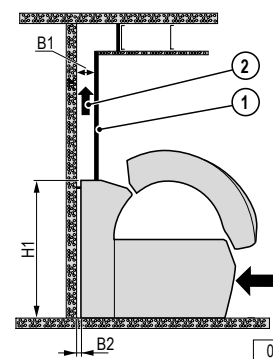
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



03985 / 0

**Maximum exhaust pipe lengths**

Calculation base (without additional ventilator):	
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

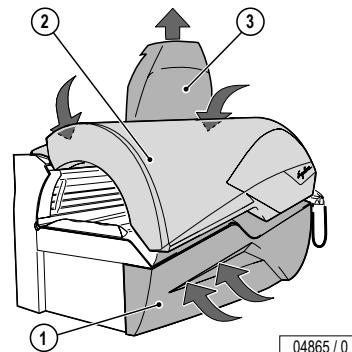
Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately.

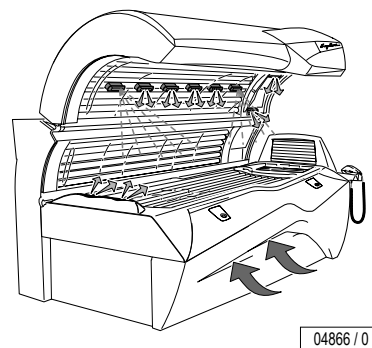
Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air.

The user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

In automatic mode the initial temperature of the air conditioner (Climatronic, standard equipment) is automatically preselected dependent on the lamp power.

In maximum mode the user can preselect the temperature of the air conditioner (Climatronic, standard equipment).

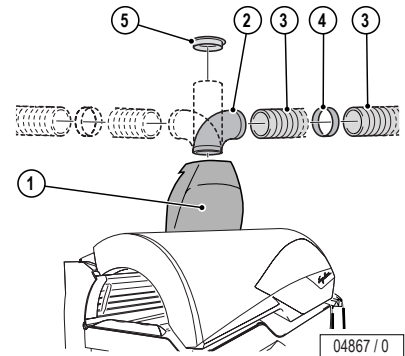
The temperature of the air conditioner can be adjusted at any time during the tanning.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.



**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Standard equipment.  
3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
ICS-Unit	3453200	Chip card terminal for APS devices
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Standard equipment: Climatronic for bed surface and Surround Cooling with fully integrated climate control of body cooling; Cabin climate control via body cooling run-on (temperature-controlled).

**AQUA FRESH AROMA system**

Standard equipment: Aroma and body cooling for the user.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).

## APS sensor

Standard equipment: The user determines his tanning ability by using the integrated APS sensor to measure face and body. When operating the sensor, the user is assisted by VoiceGuide.

**Step one:** The first measurement is performed on the forehead. A beep confirms a successful measurement. The VoiceGuide then prompts you to perform the second measurement, this time on your body.

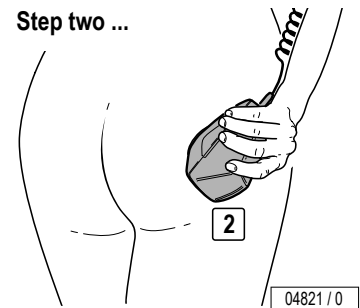
**Step two:** Perform the second measurement on the palest part of your body: e.g. your buttocks or insides of your arms. It's important that this part of the body is included in your tanning assessment. This way, allowance is made for pigmentation progress at the next tanning session and tanning power is increased.

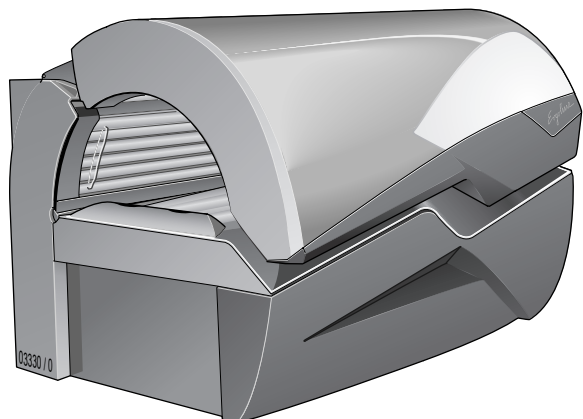
The Automatic Power System now takes just a few seconds to compute your personal tanning programme from your measurement readings.

Step one ...



Step two ...





Turbo Power

Excellence 700

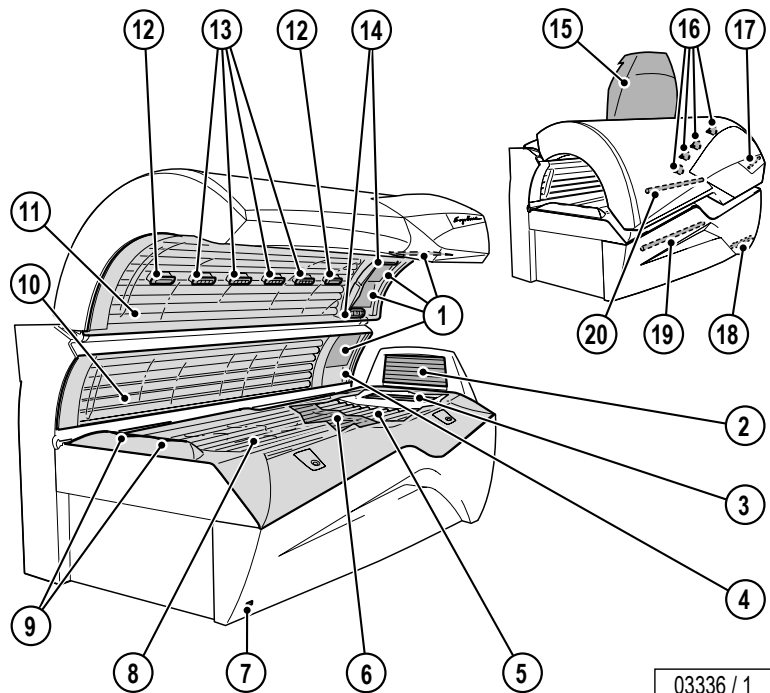
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**Device description**

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. Neck tanner
4. Headphone connection
5. UV low-pressure lamps, lower part
6. Intermediate panel
7. Infrared interface
8. Acrylic glass panel lower part
9. Air nozzles body cooling, feet end
10. UV low-pressure lamps, side part
11. UV low-pressure lamps, canopy
12. Air nozzle/nozzle AQUA FRESH (dependent on equipment)
13. Air nozzles body cooling
14. Air nozzles body cooling head end and AROMA (dependent on equipment)
15. Central exhaust air bracket (optional)
16. Accent lighting canopy (two coloured)
17. Accent lighting canopy
18. Accent lighting base
19. Accent lighting front panel (blue)
20. Accent lighting internal (blue)



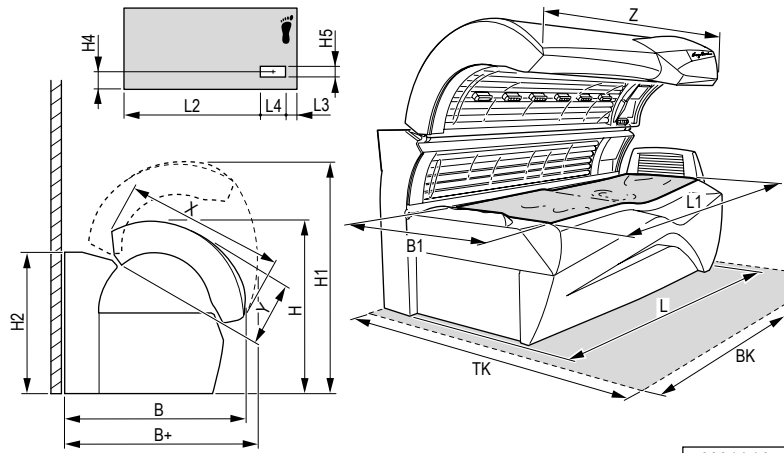
**Technical Data**

Electrical data	
Nominal power consumption:	
without Climatronic	15000 W
with Climatronic	18300 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	24 x 160 W
UV high pressure lamps	3 x 520 W
Lower part:	
UV low pressure lamps	19 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 520 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

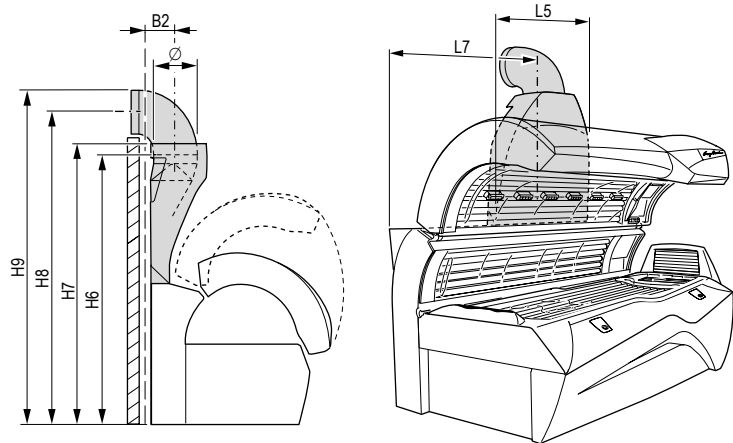
Noise emission	
Acoustic pressure level:	68.9 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air	
without Climatronic:	10 °C
with Climatronic:	15 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	5200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible

Dimensions

B	1428 mm
B1	850 mm
B2	188 mm
B+	1510 mm
L	2323 mm
L1	2110 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1373 mm
H1	1830 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1224 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



03314 / 0



03315 / 0

**Planning example for double rear wall**

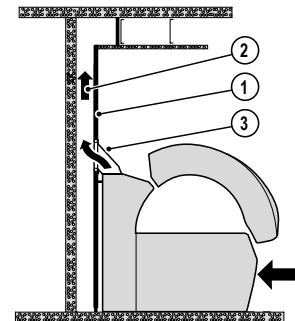
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

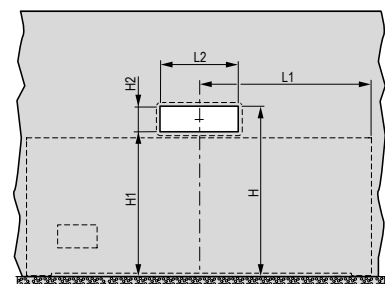
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03834 / 0



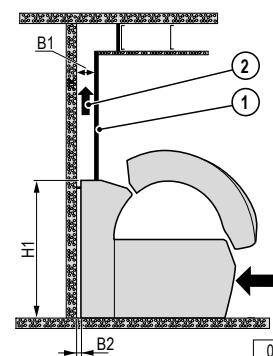
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



03985 / 0

**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

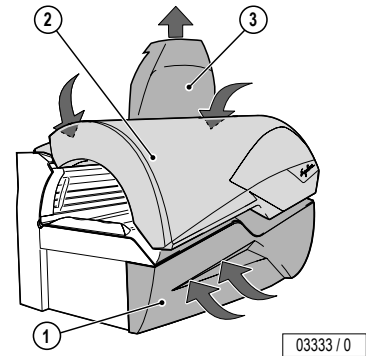
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment. The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

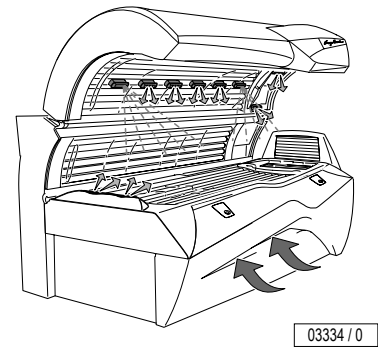
Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately.

Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air.

Depending on equipment the user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

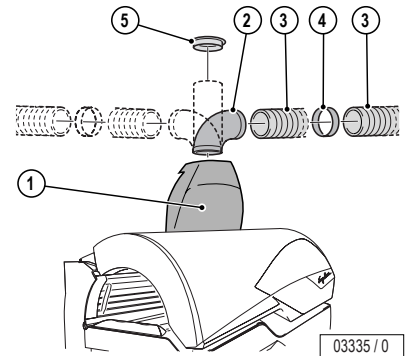
With a Climatronic (at additional charge) the user can preselect the temperature to adjust the temperature of the bed surface and the body air in accordance with his/her wishes.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.



**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4.	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Equipment variant, retrofitting not possible.  
 3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Climatronic for bed surface and Surround Cooling with fully integrated climate control of body cooling;  
 Cabin climate control via body cooling run-on (temperature-controlled).  
 Equipment variant, retrofitting not possible.

**AQUA FRESH AROMA system**

Equipment variant: Aroma and body cooling for the user; retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



The IQ sensor is a highly sensitive, photoelectronic precision instrument that is capable of analysing the state of the skin accurately and reliably. For this reason, the IQ sensor is automatically tested for proper working order and measurement accuracy after every measurement cycle. It is also recommended to recalibrate the IQ sensor after approximately 30 hours of operation. For further information refer to the operating instructions.



Evolution IQ

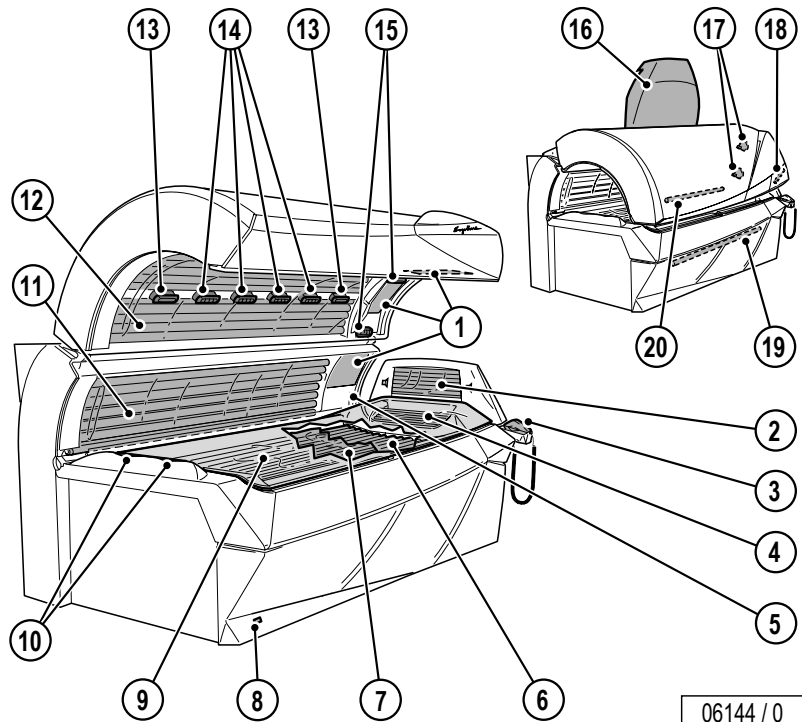
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**Device description**

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. IQ sensor and base station
4. Neck tanner
5. Headphone connection
6. UV low-pressure lamps, lower part
7. Intermediate panel
8. Infrared interface
9. Acrylic glass panel lower part
10. Air nozzles body cooling, feet end
11. UV low-pressure lamps, side part
12. UV low-pressure lamps, canopy
13. Air nozzle/nozzle AQUA FRESH (dependent on equipment)
14. Air nozzles body cooling
15. Air nozzles body cooling head end and AROMA (dependent on equipment)
16. Central exhaust air bracket (optional)
17. Accent lighting canopy (two coloured)
18. Accent lighting canopy
19. Accent lighting front panel (blue)
20. Accent lighting internal (blue)



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**Technical Data**

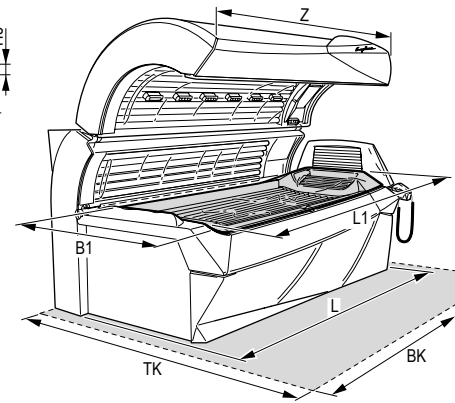
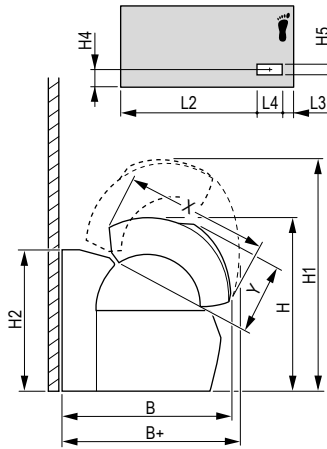
Electrical data	
Nominal power consumption:	12600 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	21 x 120-180 W <sup>1)</sup>
UV high pressure lamps	2 x 520 W
Lower part:	
UV low pressure lamps	17 x 120-180 W <sup>1)</sup>
Side part:	
UV low pressure lamps	8 x 120-180 W <sup>1)</sup>
UV high pressure lamps	1 x 520 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

Noise emission	
Acoustic pressure level:	67.2 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	11 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	4200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible

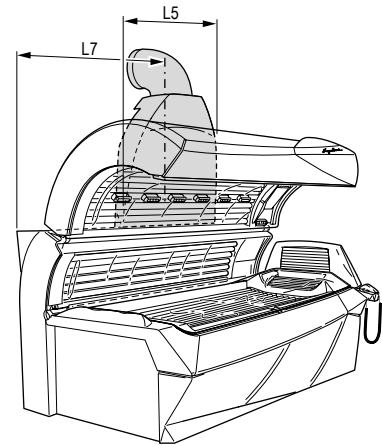
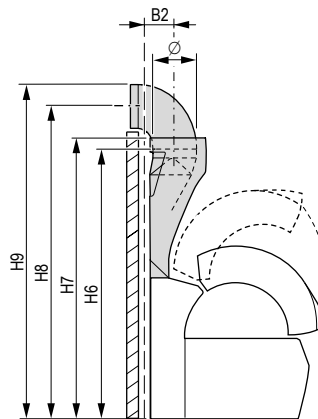
1) Electronically controlled

Dimensions

B	1285 mm
B1	770 mm
B2	188 mm
B+	1345 mm
L	2323 mm
L1	2045 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1333 mm
H1	1745 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1055 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



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**Planning example for double rear wall**

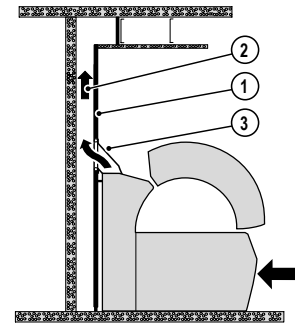
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

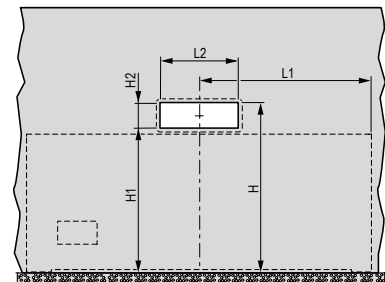
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



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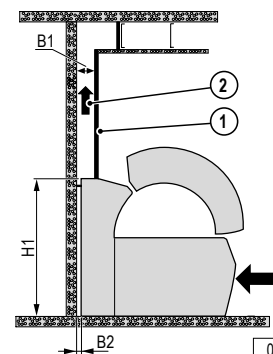
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**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



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**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

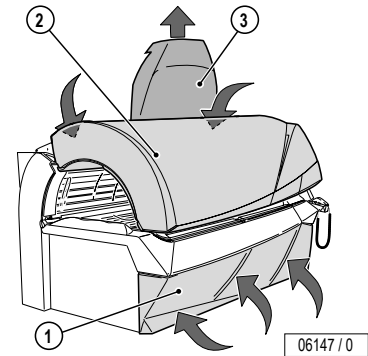
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

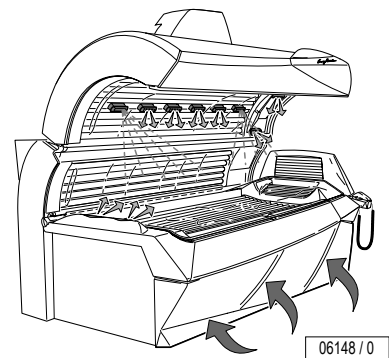
**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment. The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

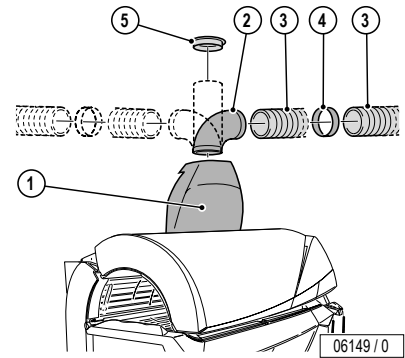
Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling. The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately. Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air. Depending on equipment the user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area. In automatic mode the initial temperature of the air conditioner (Climatronic, standard equipment) is automatically preselected dependent on the lamp power. In maximum mode the user can preselect the temperature of the air conditioner (Climatronic, standard equipment). The temperature of the air conditioner can be adjusted at any time during the tanning.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.



**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Standard equipment.  
3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Standard equipment: Climatronic for bed surface and Surround Cooling with fully integrated climate control of body cooling; Cabin climate control via body cooling run-on (temperature-controlled).

**AQUA FRESH AROMA system**

Equipment variant: Aroma and body cooling for the user; retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).

## IQ sensor

Standard equipment: The user determines his tanning ability by using the integrated IQ sensor to measure face and body. When operating the sensor, the user is assisted by VoiceGuide.

**Step one:** The first measurement is performed on the forehead. A beep confirms a successful measurement. The VoiceGuide then prompts you to perform the second measurement, this time on your body.

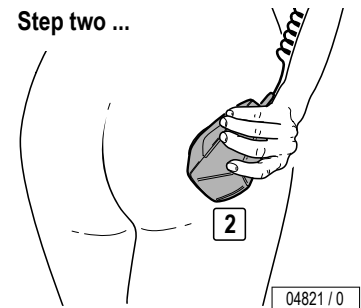
**Step two:** Perform the second measurement on the palest part of your body: e.g. your buttocks or insides of your arms. It's important that this part of the body is included in your tanning assessment. This way, allowance is made for pigmentation progress at the next tanning session and tanning power is increased.

The Intelligent Power System now takes just a few seconds to compute your personal tanning programme from your measurement readings.

Step one ...



Step two ...







The Automatic Power System sensor is a highly sensitive, photoelectronic precision instrument that is capable of analysing the state of the skin accurately and reliably. For this reason, the IQ sensor is automatically tested for proper working order and measurement accuracy after every measurement cycle. It is also recommended to recalibrate the APS sensor after approximately 30 hours of operation. For further information refer to the operating instructions.

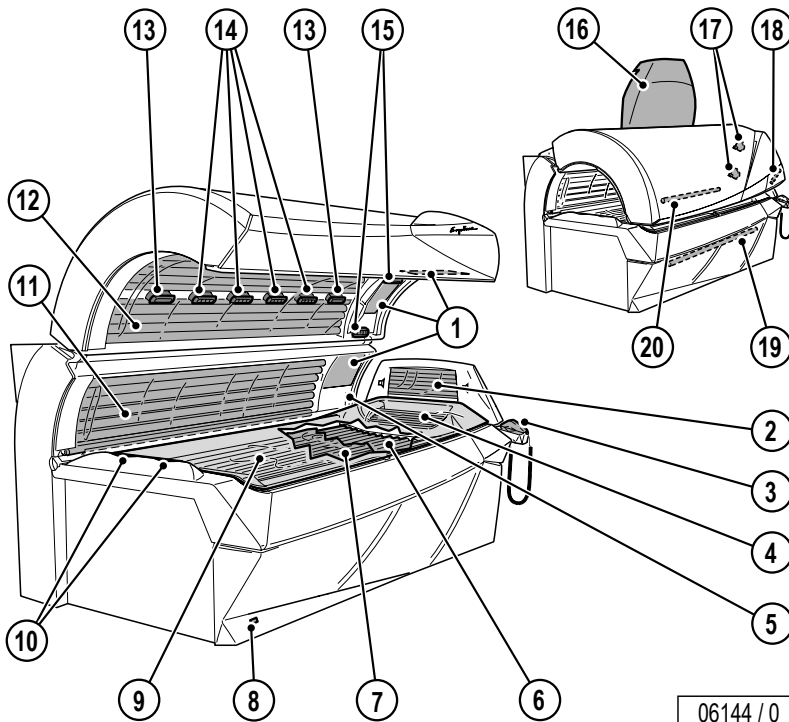


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**Device description**

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. APS sensor and base station
4. Neck tanner
5. Headphone connection
6. UV low-pressure lamps, lower part
7. Intermediate panel
8. Infrared interface
9. Acrylic glass panel lower part
10. Air nozzles body cooling, feet end
11. UV low-pressure lamps, side part
12. UV low-pressure lamps, canopy
13. Air nozzle/nozzle AQUA FRESH (dependent on equipment)
14. Air nozzles body cooling
15. Air nozzles body cooling head end and AROMA (dependent on equipment)
16. Central exhaust air bracket (optional)
17. Accent lighting canopy (two coloured)
18. Accent lighting canopy
19. Accent lighting front panel (blue)
20. Accent lighting internal (blue)



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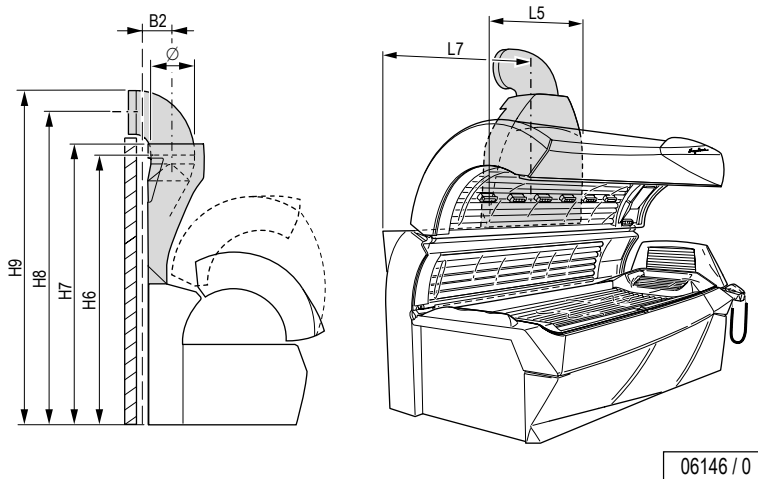
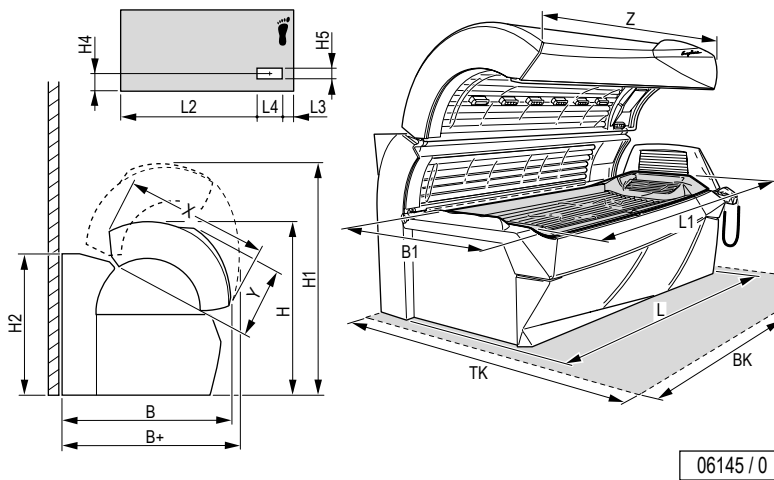
**Technical Data**

Electrical data	
Nominal power consumption:	14500 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	21 x 160 W
UV high pressure lamps	2 x 520 W
Lower part:	
UV low pressure lamps	17 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 520 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

Noise emission	
Acoustic pressure level:	67.2 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	11 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	4200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible

Dimensions

B	1285 mm
B1	770 mm
B2	188 mm
B+	1345 mm
L	2323 mm
L1	2045 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1333 mm
H1	1745 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1055 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



**Planning example for double rear wall**

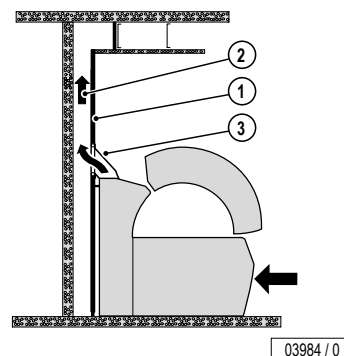
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

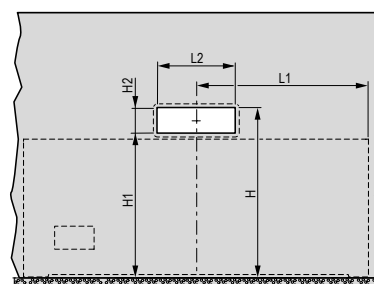
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



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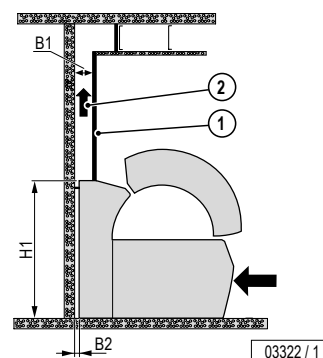
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**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



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**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

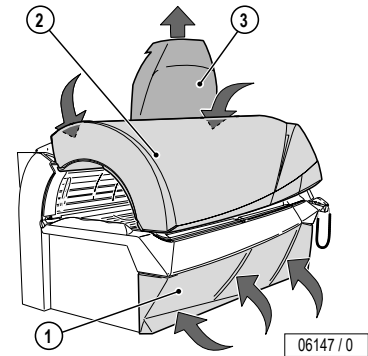
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

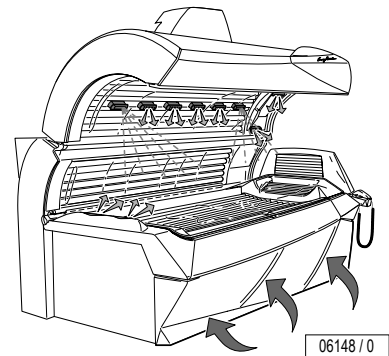
**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment. The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling. The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately. Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air. Depending on equipment the user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area. In automatic mode the initial temperature of the air conditioner (Climatronic, standard equipment) is automatically preselected dependent on the lamp power. In maximum mode the user can preselect the temperature of the air conditioner (Climatronic, standard equipment). The temperature of the air conditioner can be adjusted at any time during the tanning.



## Exhaust air accessories

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.

### Corrugated pipe

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

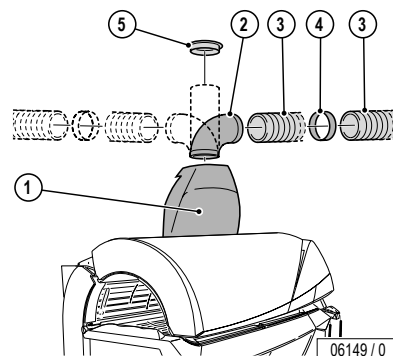
### Smooth pipe

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

### Warm air recycling

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.



Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Standard equipment.  
3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
ICS-Unit	3453200	Chip card terminal for APS devices
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Standard equipment: Climatronic for bed surface and Surround Cooling with fully integrated climate control of body cooling; Cabin climate control via body cooling run-on (temperature-controlled).

**AQUA FRESH AROMA system**

Equipment variant: Aroma and body cooling for the user; retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



## APS sensor

Standard equipment: The user determines his tanning ability by using the integrated APS sensor to measure face and body. When operating the sensor, the user is assisted by VoiceGuide.

**Step one:** The first measurement is performed on the forehead. A beep confirms a successful measurement. The VoiceGuide then prompts you to perform the second measurement, this time on your body.

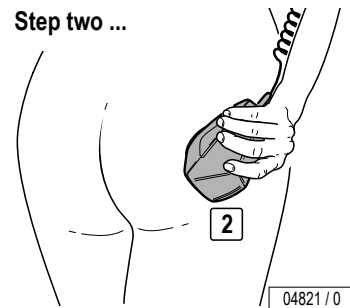
**Step two:** Perform the second measurement on the palest part of your body: e.g. your buttocks or insides of your arms. It's important that this part of the body is included in your tanning assessment. This way, allowance is made for pigmentation progress at the next tanning session and tanning power is increased.

The Automatic Power System now takes just a few seconds to compute your personal tanning programme from your measurement readings.

Step one ...



Step two ...





**Turbo Power**  
**Super Power**

**Evolution 600**

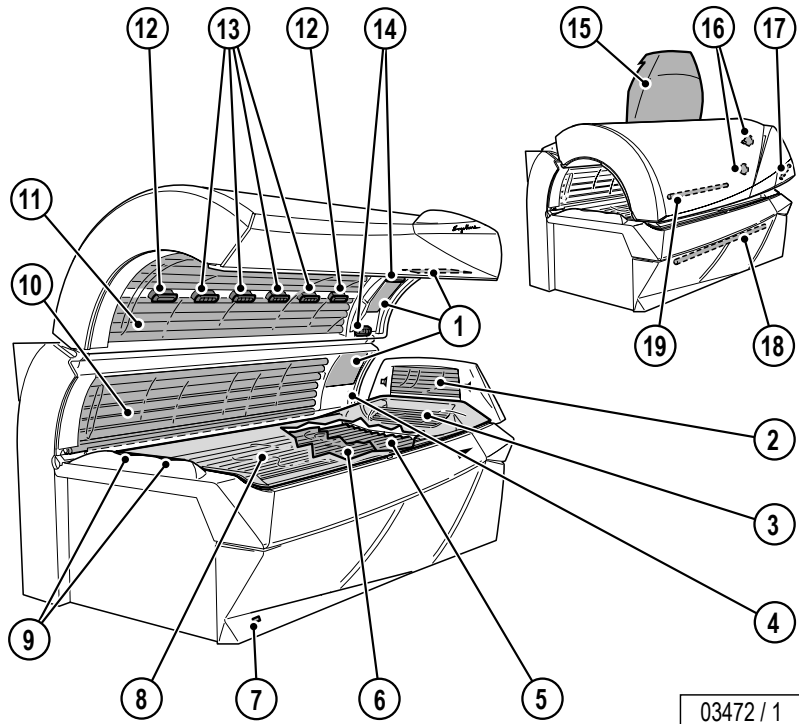
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Device description

Evolution 600

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. Neck tanner
4. Headphone connection
5. UV low-pressure lamps, lower part
6. Intermediate panel
7. Infrared interface
8. Acrylic glass panel lower part
9. Air nozzles body cooling, feet end
10. UV low-pressure lamps, side part
11. UV low-pressure lamps, canopy
12. Air nozzle/nozzle AQUA FRESH (dependent on equipment)
13. Air nozzles body cooling
14. Air nozzles body cooling head end and AROMA (dependent on equipment)
15. Central exhaust air bracket (optional)
16. Accent lighting canopy (two coloured)
17. Accent lighting canopy
18. Accent lighting front panel (blue)
19. Accent lighting internal (blue)



**Technical Data**

**Technical Data – Evolution 600 Turbo Power**

Electrical data	
Nominal power consumption:	
without Air conditioning:	13300 W
with Air conditioning:	14500 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	21 x 160 W
UV high pressure lamps	2 x 500 W
Lower part:	
UV low pressure lamps	17 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 500 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

**Technical Data – Evolution 600 Super Power**

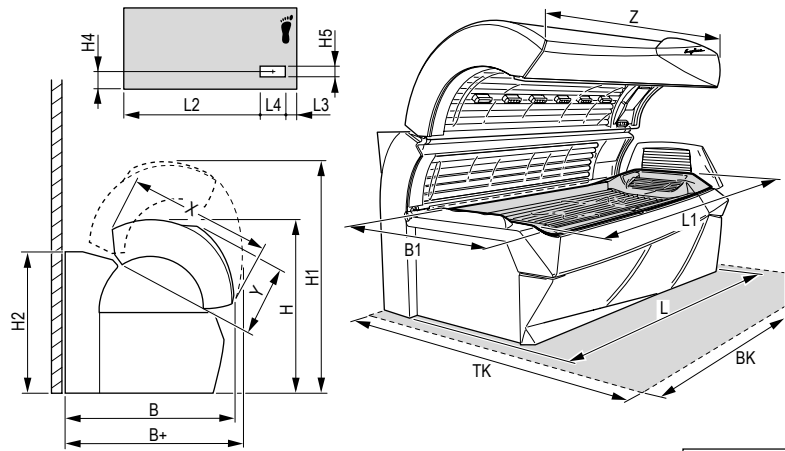
Electrical data	
Nominal power consumption:	
without Air conditioning:	9800 W
with Air conditioning:	11000 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 25 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	21 x 100 W
UV high pressure lamps	2 x 400 W
Lower part:	
UV low pressure lamps	17 x 100 W
Side part:	
UV low pressure lamps	8 x 100 W
UV high pressure lamps	1 x 400 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

Noise emission	
Acoustic pressure level:	67.2 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	
without Air conditioning:	6 °C
with Air conditioning:	11 °C
Max. air requirement:	2800 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm²
Cabin inlet air cross section at 1.5 m/s:	4200 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

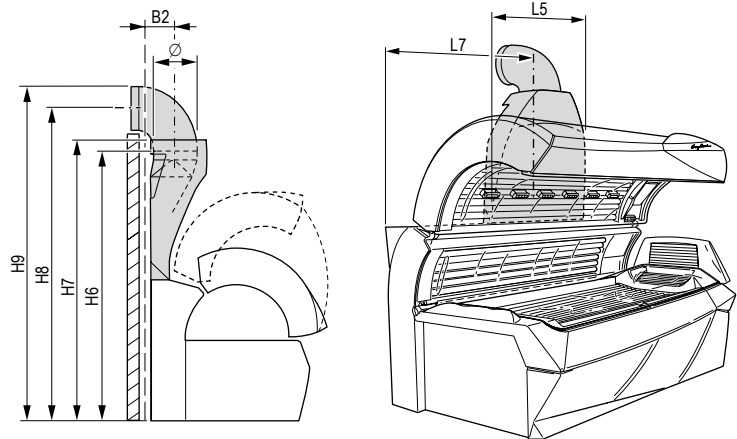
Noise emission	
Acoustic pressure level:	67.2 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	
without Air conditioning:	6 °C
with Air conditioning:	11 °C
Max. air requirement:	2800 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm²
Cabin inlet air cross section at 1.5 m/s:	4200 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

Dimensions

B	1285 mm
B1	770 mm
B2	188 mm
B+	1345 mm
L	2323 mm
L1	2045 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1333 mm
H1	1745 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1055 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



03316 / 0



03317 / 0

**Planning example for double rear wall**

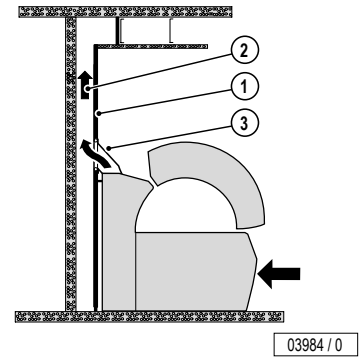
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

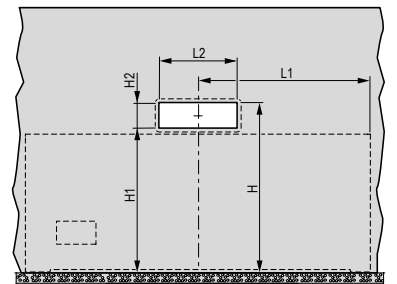
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03984 / 0



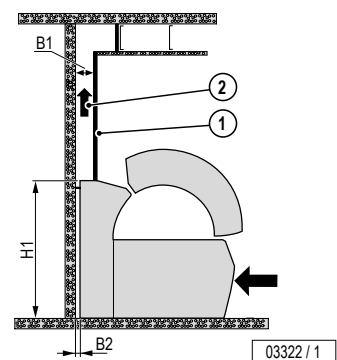
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



03322 / 1

**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7

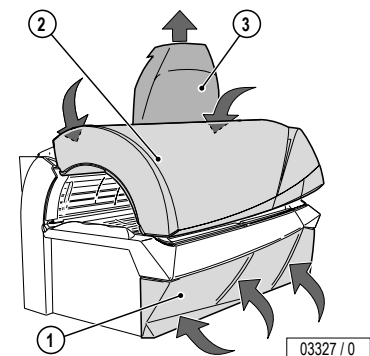
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

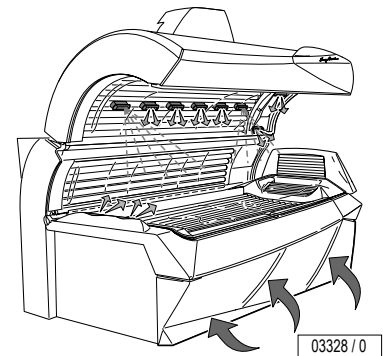
Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately.

Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air.

Depending on equipment the user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

Depending on the equipment, an air conditioner enables the additional climate control of the bed surface and the body air.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

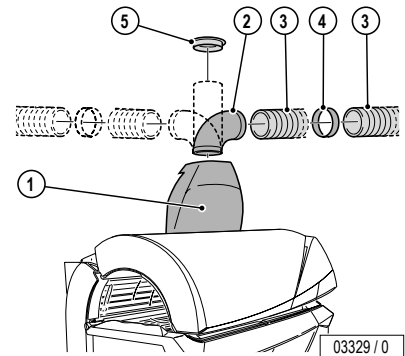
The apertures intended for this purpose are located above the central exhaust air bracket.

**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.



**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (Ø 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (Ø 300 mm)]
3	Corrugated pipe (Ø 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (Ø 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (Ø 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall



**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Standard equipment.  
3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Equipment variant: Air condition for the bed surface and the body air; retrofitting not possible.

**AQUA FRESH AROMA system**

Equipment variant: Aroma and body cooling for the user; retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



Turbo Power

Evolution 575

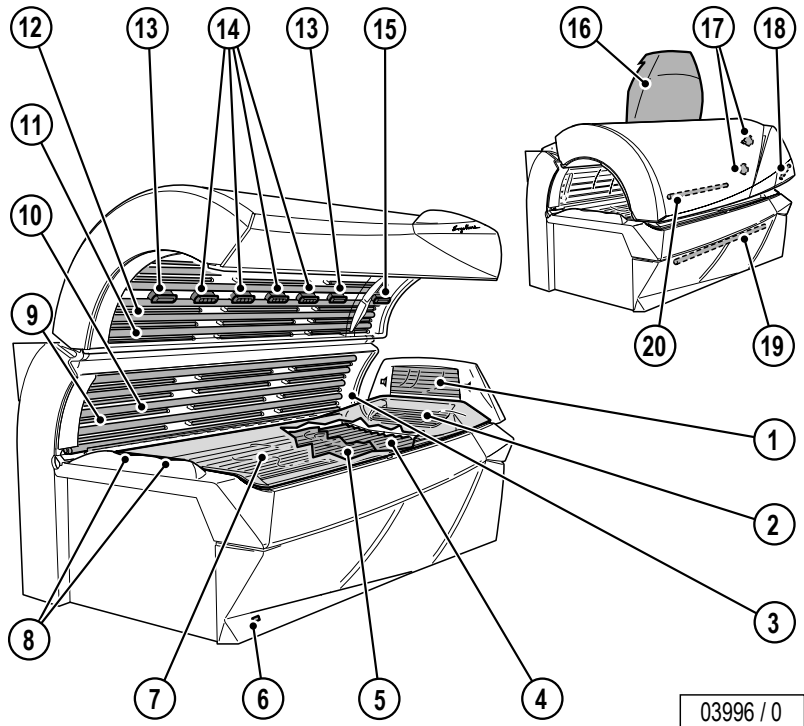
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Device description

Evolution 575

1. Shoulder tanner
2. Neck tanner
3. Headphone connection
4. UV low-pressure lamps, lower part
5. Intermediate panel
6. Infrared interface
7. Acrylic glass panel lower part
8. Air nozzles body cooling, feet end
9. UV low-pressure lamps (spaghetti); side part
10. UV low-pressure lamps, side part
11. UV low-pressure lamps (spaghetti); canopy
12. UV low-pressure lamps; canopy
13. Air nozzle/nozzle AQUA FRESH (dependent on equipment)
14. Air nozzles body cooling
15. Air nozzles head end and AROMA (dependent on equipment)
16. Central exhaust air bracket (optional)
17. Accent lighting canopy (two coloured)
18. Accent lighting canopy
19. Accent lighting front panel (blue)
20. Accent lighting internal (blue)



**Technical Data**

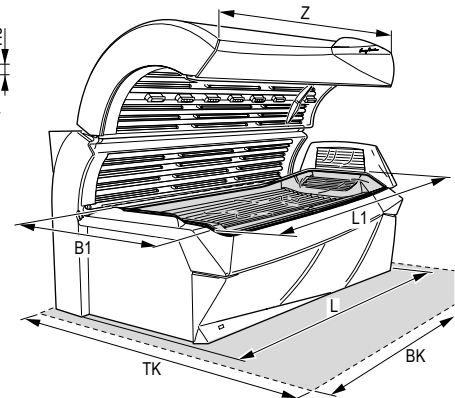
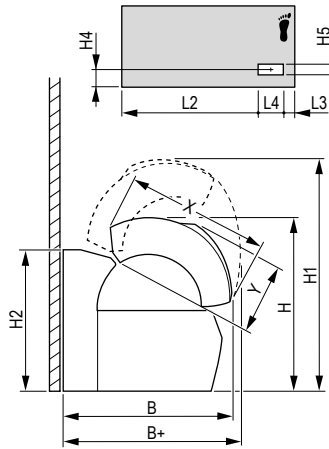
<b>Electrical data</b>	
Nominal power consumption:	
without Air conditioning:	10 100 W
with Air conditioning:	11 500 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 25 A (time-delay)
<b>Performance:</b>	
Canopy:	
UV low pressure lamps	12 x 180 W
UV low pressure lamps (Spaghetti)	33 x 25 W
Lower part:	
UV low pressure lamps	17 x 160 W
Side part:	
UV low pressure lamps	5 x 180 W
UV low pressure lamps (Spaghetti)	12 x 25 W
Neck tanner:	
UV low pressure lamps	6 x 25 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

<b>Noise emission</b>	
Acoustic pressure level:	67.2 db (A)
<b>Inlet and exhaust air</b>	
Temperature difference, supply/exhaust air:	
without Air conditioning:	6 °C
with Air conditioning:	11 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	4200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible

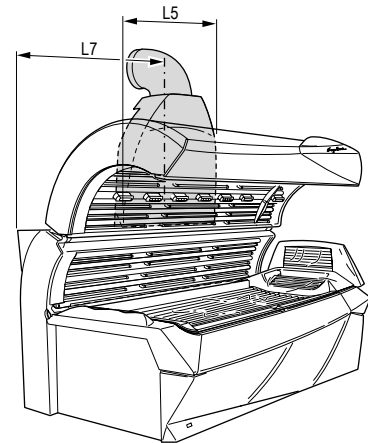
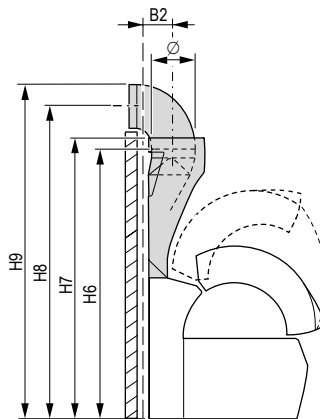
Evolution 575

Dimensions

B	1285 mm
B1	770 mm
B2	188 mm
B+	1345 mm
L	2323 mm
L1	2045 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1333 mm
H1	1745 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1055 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



03683 / 0



03684 / 0

**Planning example for double rear wall**

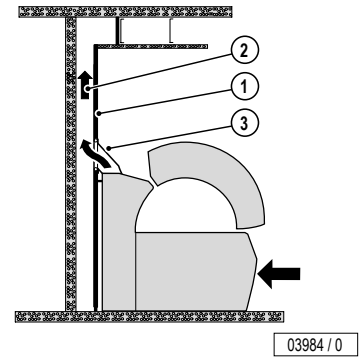
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

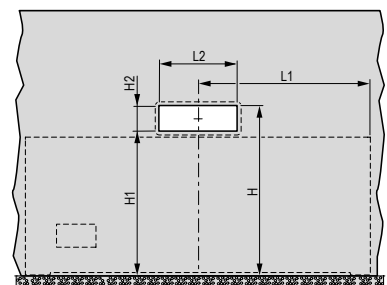
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03984 / 0



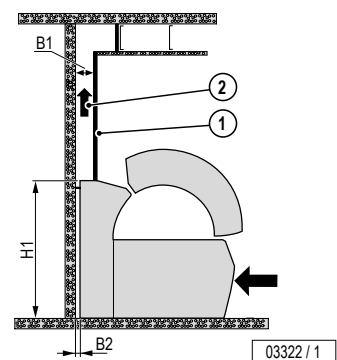
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



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**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7

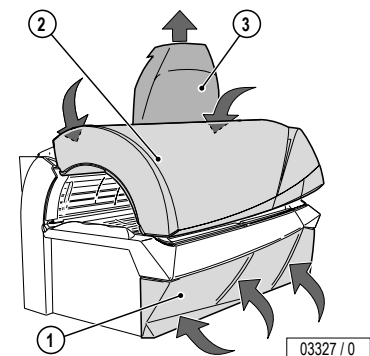
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



**Surround cooling**

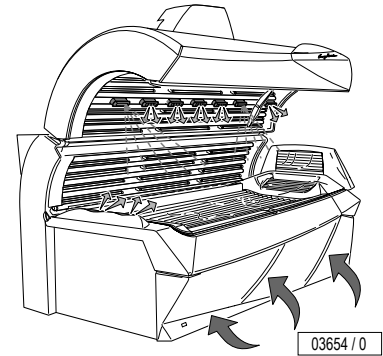
Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In the head area there are two air nozzles that can be switched on separately.

Studio air is also supplied via the air inlet slots beneath the front panel of the sunbed base and fed to two nozzles at feet level at the lying surface height, thus surrounding the body with cooling air.

Depending on equipment the user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

Depending on the equipment, an air conditioner enables the additional climate control of the bed surface and the body air.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

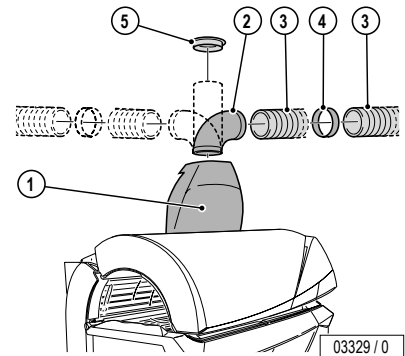
The apertures intended for this purpose are located above the central exhaust air bracket.

**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.



**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (Ø 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (Ø 300 mm)]
3	Corrugated pipe (Ø 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (Ø 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (Ø 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall



**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Equipment variant, retrofitting not possible.  
 3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Equipment variant: (Air condition for the bed surface and the body air) retrofitting not possible.

**AQUA FRESH AROMA system**

Equipment variant: Aroma and body cooling for the user; retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



The Automatic Power System sensor is a highly sensitive, photoelectronic precision instrument that is capable of analysing the state of the skin accurately and reliably. For this reason, the IQ sensor is automatically tested for proper working order and measurement accuracy after every measurement cycle. It is also recommended to recalibrate the APS sensor after approximately 30 hours of operation. For further information refer to the operating instructions.

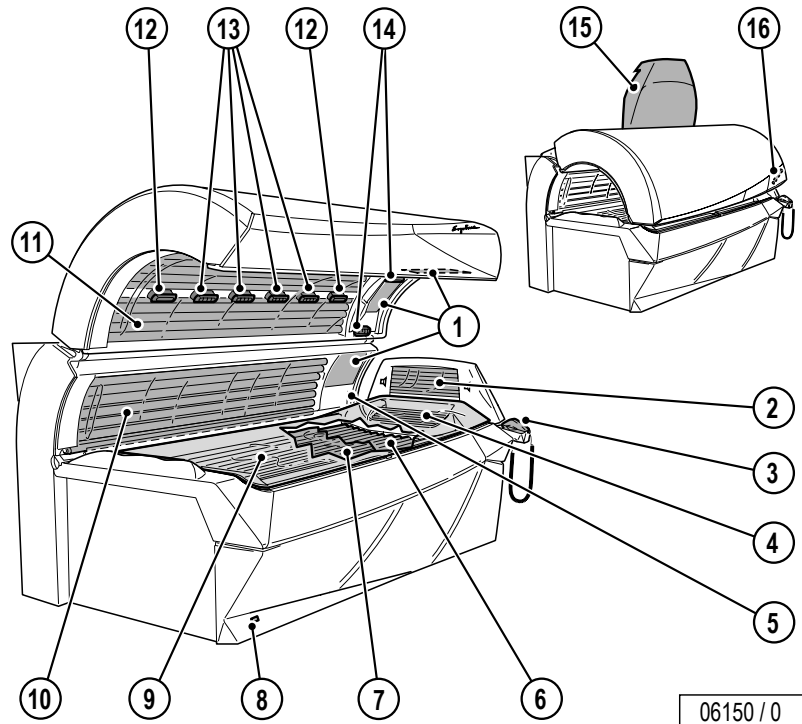


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**Device description**

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner
3. APS sensor and base station
4. Reflector
5. Headphone connection
6. UV low-pressure lamps, lower part
7. Intermediate panel
8. Infrared interface
9. Acrylic glass panel lower part
10. UV low-pressure lamps, side part
11. UV low-pressure lamps, canopy
12. Air nozzle/nozzle AQUA FRESH (dependent on equipment)
13. Air nozzles body cooling
14. Air nozzles body cooling head end and AROMA (dependent on equipment)
15. Central exhaust air bracket (optional)
16. Accent lighting canopy



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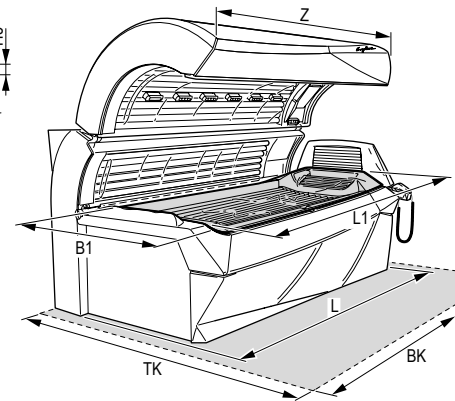
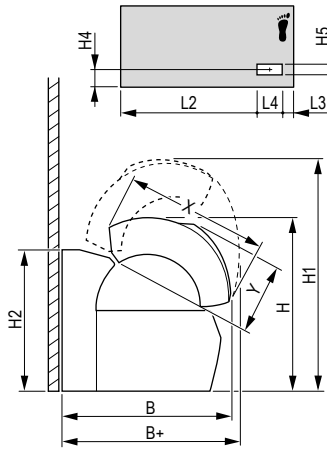
**Technical Data**

Electrical data	
Nominal power consumption:	13900 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 35 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	18 x 160 W
UV high pressure lamps	2 x 520 W
Lower part:	
UV low pressure lamps	17 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 520 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

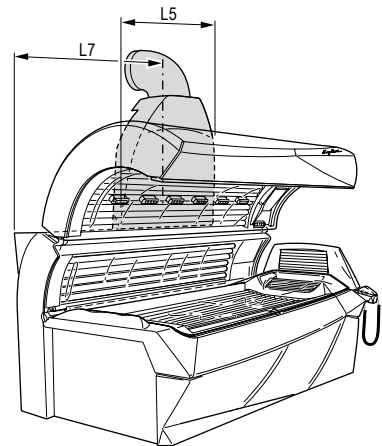
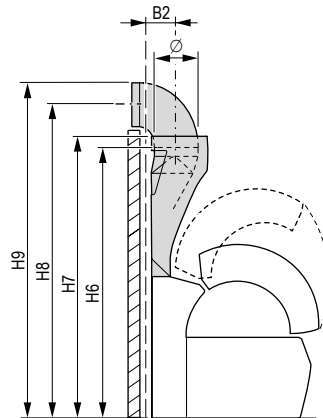
Noise emission	
Acoustic pressure level:	68.8 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	11 °C
Max. air requirement:	2800 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	4200 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup>
Warm air return:	possible

Dimensions

B	1285 mm
B1	770 mm
B2	188 mm
B+	1345 mm
L	2323 mm
L1	2045 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1333 mm
H1	1660 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1055 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



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**Planning example for double rear wall**

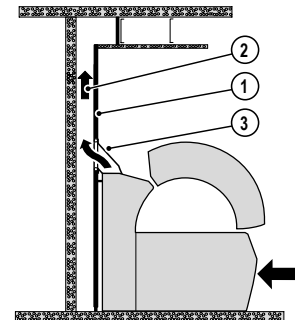
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

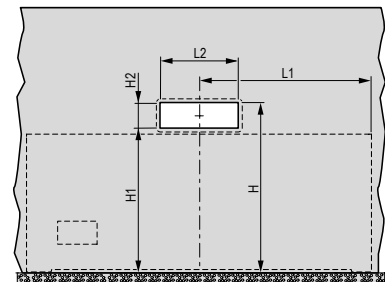
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03984 / 0



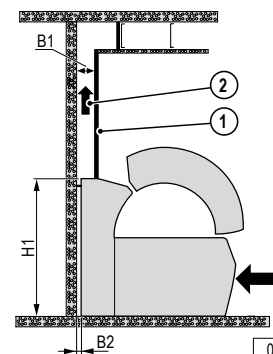
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



03322 / 1

**Maximum exhaust pipe lengths**

Calculation base (without additional ventilator):	
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7

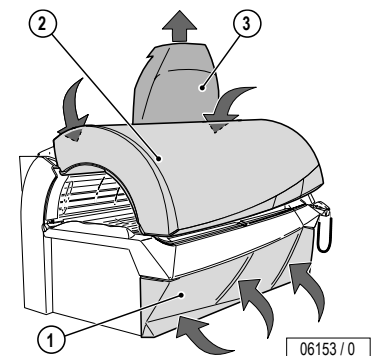
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



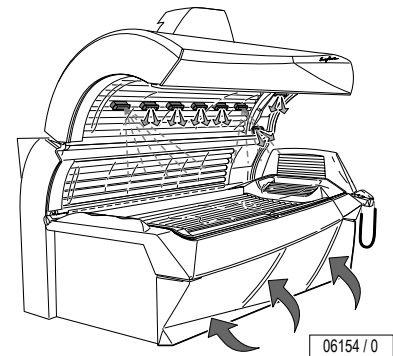
**Surround cooling**

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In The head area there are two air nozzles that can be switched on separately.

Depending on the equipment, the user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

An air conditioner enables the additional climate control of the bed surface and the body air.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located above the central exhaust air bracket.

**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

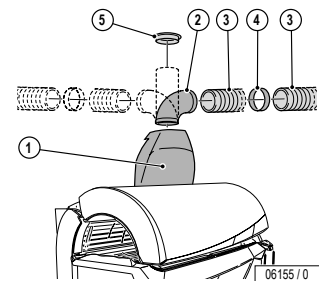
**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.



Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (Ø 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (Ø 300 mm)]
3	Corrugated pipe (Ø 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	-
4	Corrugated pipe connector piece (Ø 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (Ø 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Standard equipment.  
3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
ICS-Unit	3453200	Chip card terminal for APS devices
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Standard equipment: Air condition for the bed surface and the body air.

**AQUA FRESH AROMA system**

Equipment variant: Aroma and body cooling for the user; retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



APS sensor

Standard equipment: The user determines his tanning ability by using the integrated APS sensor to measure face and body. When operating the sensor, the user is assisted by VoiceGuide.

**Step one:** The first measurement is performed on the forehead. A beep confirms a successful measurement. The VoiceGuide then prompts you to perform the second measurement, this time on your body.

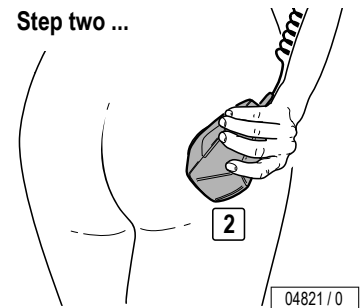
Step one ...



**Step two:** Perform the second measurement on the palest part of your body: e.g. your buttocks or insides of your arms. It's important that this part of the body is included in your tanning assessment. This way, allowance is made for pigmentation progress at the next tanning session and tanning power is increased.

The Automatic Power System now takes just a few seconds to compute your personal tanning programme from your measurement readings.

Step two ...





**Turbo Power**  
**Super Power**

**Evolution 500**

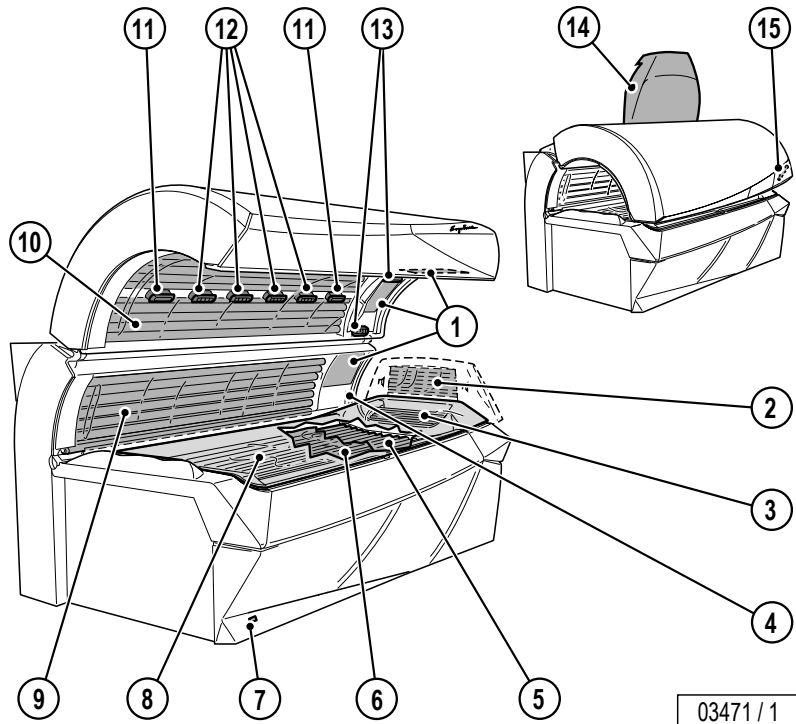
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Device description

Evolution 500

1. Face tanner (UV high-pressure lamps)
2. Shoulder tanner (Evolution 500 Turbo Power)
3. Reflector
4. Headphone connection
5. UV low-pressure lamps, lower part
6. Intermediate panel (Evolution 500 Turbo Power)
7. Infrared interface
8. Acrylic glass panel lower part
9. UV low-pressure lamps, side part
10. UV low-pressure lamps, canopy
11. Air nozzle/nozzle AQUA FRESH (dependent on equipment)
12. Air nozzles body cooling
13. Air nozzles body cooling head end and AROMA (dependent on equipment)
14. Central exhaust air bracket (optional)
15. Accent lighting canopy



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**Technical Data**

**Technical Data – Evolution 500 Turbo Power**

<b>Electrical data</b>	
Nominal power consumption:	
without Air conditioning:	12700 W
with Air conditioning:	13900 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 25 A (time-delay)
<b>Performance:</b>	
Canopy:	
UV low pressure lamps	18 x 160 W
UV high pressure lamps	2 x 500 W
Lower part:	
UV low pressure lamps	17 x 160 W
Side part:	
UV low pressure lamps	8 x 160 W
UV high pressure lamps	1 x 500 W
Shoulder tanner:	
UV low pressure lamps	7 x 25 W

**Technical Data – Evolution 500 Super Power**

<b>Electrical data</b>	
Nominal power consumption:	
without Air conditioning:	8400 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
<b>Performance:</b>	
Canopy:	
UV low pressure lamps	18 x 100 W
UV high pressure lamps	2 x 400 W
Lower part:	
UV low pressure lamps	17 x 100 W
Side part:	
UV low pressure lamps	8 x 100 W
UV high pressure lamps	1 x 400 W

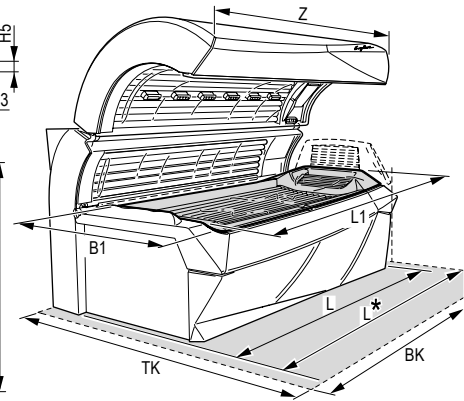
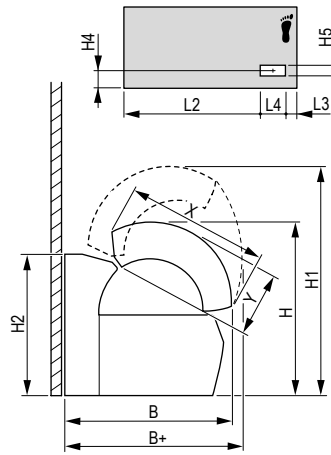
<b>Noise emission</b>	
Acoustic pressure level:	68.8 db (A)
<b>Inlet and exhaust air</b>	
Temperature difference, supply/exhaust air:	
without Air conditioning:	6 °C
with Air conditioning:	11 °C
Max. air requirement:	2800 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm²
Cabin inlet air cross section at 1.5 m/s:	4200 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

<b>Noise emission</b>	
Acoustic pressure level:	67.2 db (A)
<b>Inlet and exhaust air</b>	
Temperature difference, supply/exhaust air:	6 °C
Max. air requirement:	2800 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	588 cm²
Cabin inlet air cross section at 1.5 m/s:	4200 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

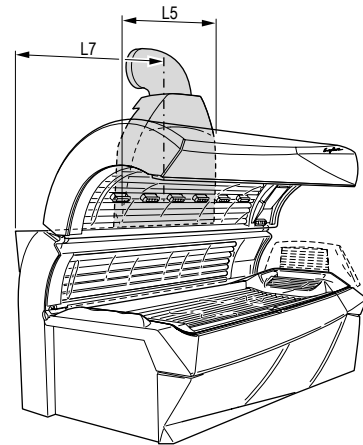
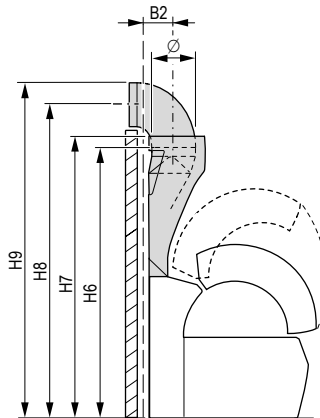
Dimensions

B	1285 mm
B1	770 mm
B2	188 mm
B+	1345 mm
L	2231 mm
L*	2323 mm
L1	2045 mm
L2	1730 mm
L3	238 mm
L4	265 mm
L5	867 mm
L7	1116 mm
H	1333 mm
H1	1660 mm
H2	1078 mm
H3	- mm
H4	400 mm
H5	114 mm
H6	1887 mm
H7	1974 mm
H8	2197 mm
H9	2342 mm
X	1055 mm
Y	472 mm
Z	2235 mm
∅	300 mm
BK	2370 mm
TK	2300 mm

\* with shoulder tanner



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**Planning example for double rear wall**

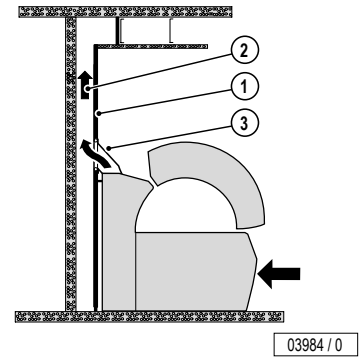
Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the suspended ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

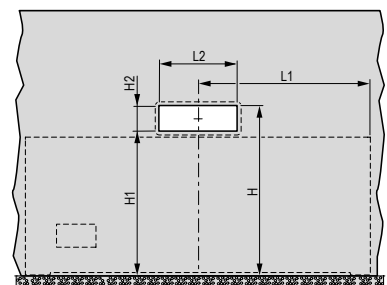
**With exhaust-air adapter**

A cut-out must be made in the intermediate wall (see table for dimensions). A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.

Dimensions		
L1	1116 mm	Tanning bed foot end up to centre of adapter
L2	590 mm	Long adapter, inner edges
H	1355 mm	Height from floor to inner upper edge of rubber profile
H1	1125 mm	Height from floor to inner lower edge
H2	230 mm	Height of adapter (inside)



03984 / 0



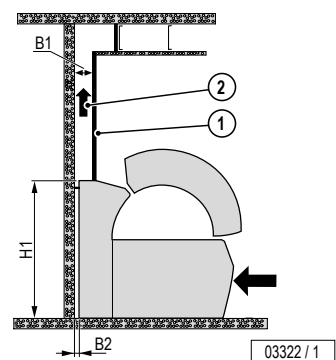
03840 / 0

**Without exhaust-air adapter**

The intermediate wall (1) must securely enclose the rear of the tanning bed.

Dimensions	
B1	max. 170 mm
B2	57 mm
H1	1078 mm

If a tanner is replaced with a new tanner, the intermediate wall (1) must be adapted or replaced so that there are no gaps through which leakage air is drawn. Provision must be made for the inspection doors at the head and foot of the tanner so that the canopy lifting device can be adjusted.



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**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	9
					2	8
					3	7

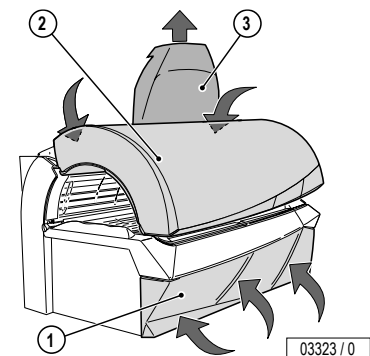
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2500	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	30
					1	26
					2	22
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



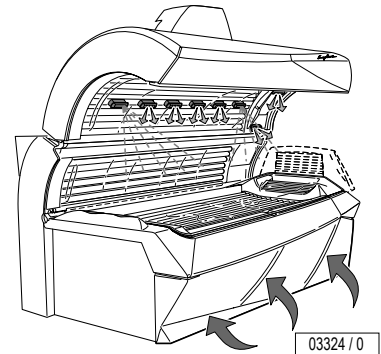
**Surround cooling**

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles over the whole length in the middle of the canopy. In The head area there are two air nozzles that can be switched on separately.

Depending on the equipment, the user can have a pleasant cooling mist (AQUA FRESH) sprayed from the outer nozzles in the body area.

Depending on the equipment, an air conditioner enables the additional climate control of the bed surface and the body air (Evolution 500 Turbo Power only).



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

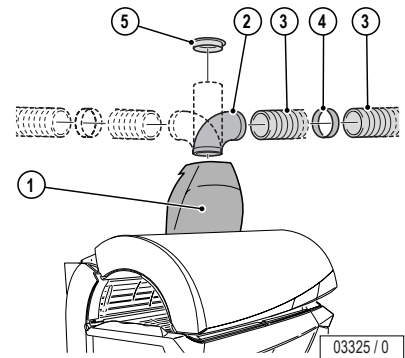
The apertures intended for this purpose are located above the central exhaust air bracket.

**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 30 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 30 metres.



**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452620	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452630	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a canal
6	Exhaust air adapter in black (not shown)	3452660	For double rear wall



**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**MULTIVISION**

Equipment variant, retrofitting not possible.

**Sound system**

Equipment variant, retrofitting not possible.  
 3D sound: Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

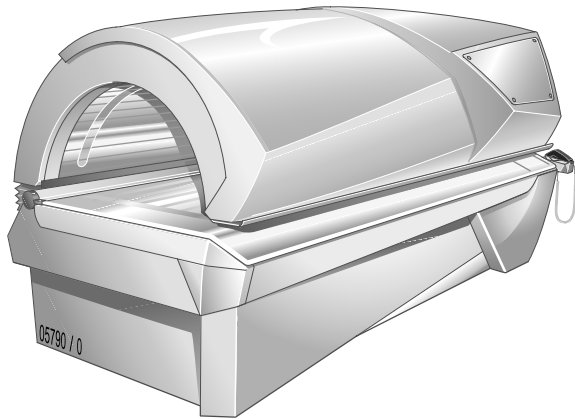
With Evolution 500 Turbo Power:  
 Equipment variant: Air condition for the bed surface and the body air; retrofitting not possible.

**AQUA FRESH AROMA system**

Equipment variant: Aroma and body cooling for the user; retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



The Automatic Power System sensor is a highly sensitive, photoelectronic precision instrument that is capable of analysing the state of the skin accurately and reliably. For this reason, the IQ sensor is automatically tested for proper working order and measurement accuracy after every measurement cycle. It is also recommended to recalibrate the APS sensor after approximately 30 hours of operation. For further information refer to the operating instructions.



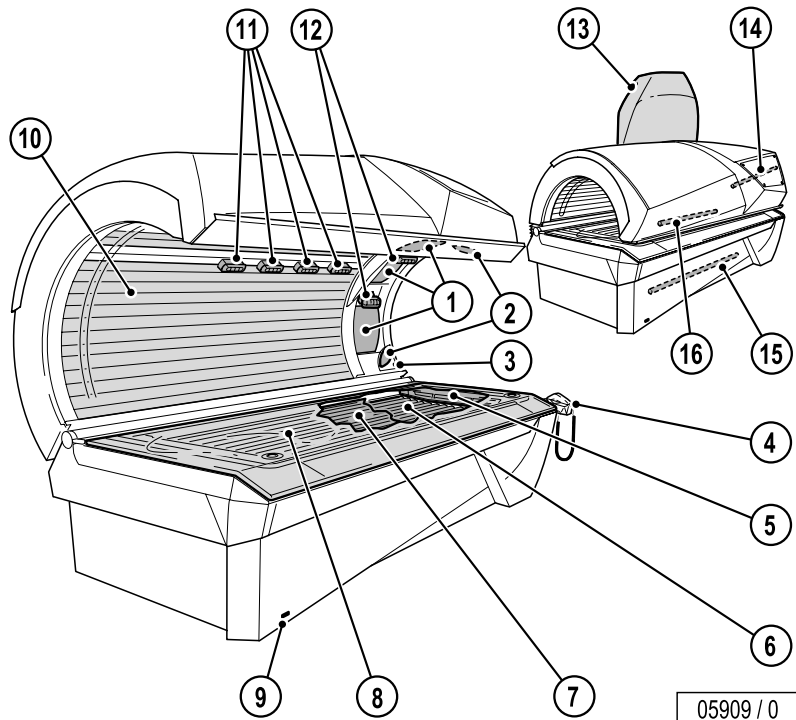
Advantage 400 APS

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Device description

1. Face tanner (UV high-pressure lamps)
2. Loudspeaker
3. Headphone connection
4. APS sensor and base station
5. Reflector
6. UV low-pressure lamps, lower part
7. Intermediate panel (only with air conditioner)
8. Infrared interface
9. Acrylic glass panel lower part
10. UV low-pressure lamps, canopy
11. Air nozzles body cooling
12. Air nozzles body cooling head end
13. Central exhaust air bracket (optional)
14. Accent lighting canopy
15. Accent lighting front panel
16. Accent lighting interal



05909 / 0

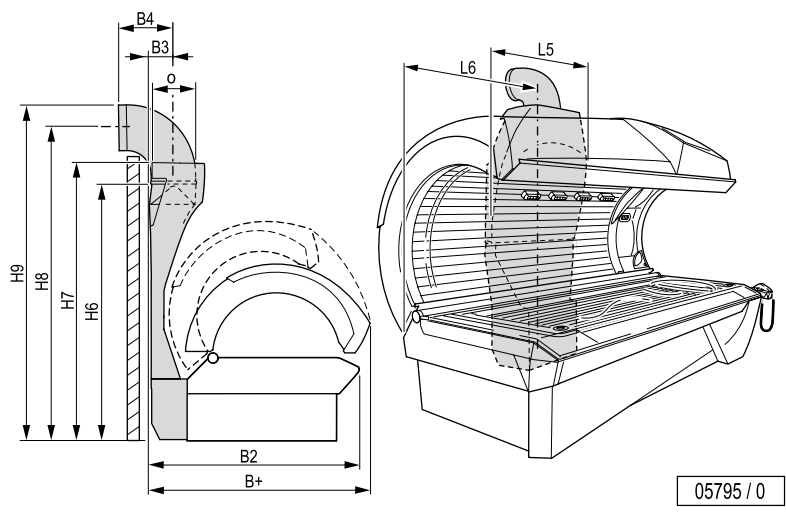
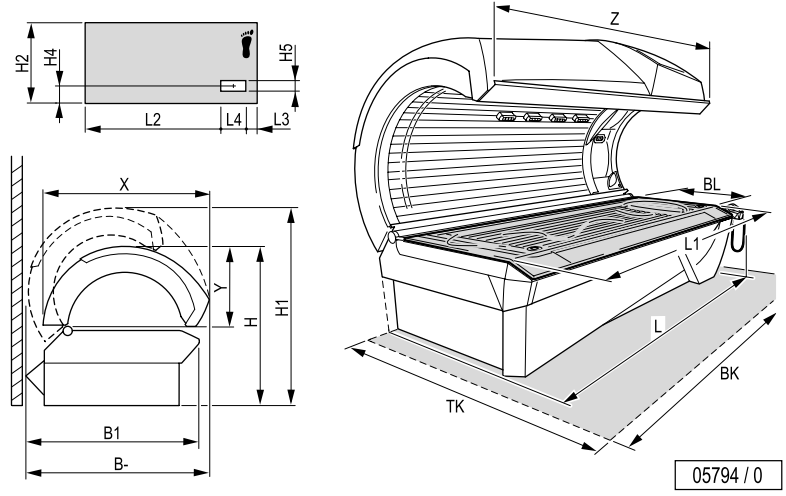
Technical Data

Electrical data	
Nominal power consumption:	
without Air conditioning:	9700 W
with Air conditioning:	10700 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	
without Air conditioning:	3 x 20 A (time-delay)
with Air conditioning:	3 x 25 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	26 x 140 (160) W
UV high pressure lamps	3 x 400 W
Lower part:	
UV low pressure lamps	14 x 140 (160) W

Noise emission	
Acoustic pressure level:	66.4 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	
without Air conditioning:	7 °C
with Air conditioning:	10 °C
Max. air requirement:	2700 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	430 cm²
Cabin inlet air cross section at 1.5 m/s:	5000 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

**Dimensions**

B-	1310 mm
B1	1180 mm
B2	1300 mm
B+	1430 mm
L	2300 mm
L1	2015 mm
L2	1615 mm
L3	35 mm
L4	273 mm
L5	867 mm
L6	1100 mm
H	1256 mm
H1	1575 mm
H2	390 mm
H3	- mm
H4	264 mm
H5	167 mm
H6	1679 mm
H7	1760 mm
H8	1979 mm
H9	2124 mm
X	1220 mm
Y	673 mm
Z	2226 mm
∅	300 mm
BK	2400 mm
TK	2100 mm



**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2300	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	12
					1	11
					2	10
					3	9

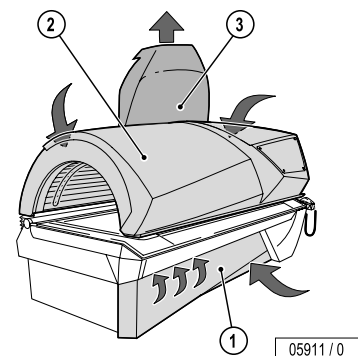
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2300	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	36
					1	33
					2	29
					3	26

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment.

The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



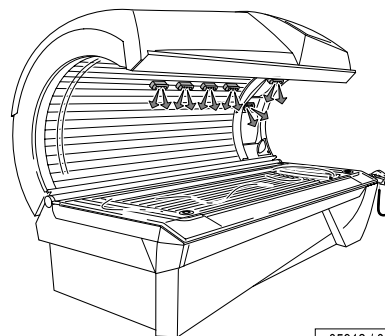
05911 / 0

### Surround cooling

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles in the middle of the canopy and in the head area.

Depending on the equipment, an air conditioner enables the additional climate control of the bed surface and the body air.



05912 / 0

### Exhaust air accessories

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

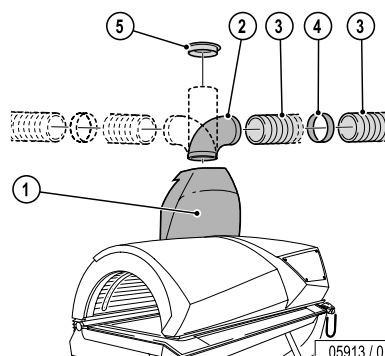
The apertures intended for this purpose are located above the central exhaust air bracket.

#### Corrugated pipe

Suitable device exhaust is possible with an exhaust pipe up to 12 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 12 metres.

#### Smooth pipe

Suitable device exhaust is possible with an exhaust pipe up to 36 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 36 metres.



05913 / 0

#### Warm air recycling

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452840	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452830	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipes, e.g. to a canal

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**Sound system**

Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
ICS-Unit	3453200	Chip card terminal for APS devices
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Equipment variant: Air condition for the bed surface and the body air, retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).

## APS sensor

Standard equipment: The user determines his tanning ability by using the integrated APS sensor to measure face and body. When operating the sensor, the user is assisted by VoiceGuide.

**Step one:** The first measurement is performed on the forehead. A beep confirms a successful measurement. The VoiceGuide then prompts you to perform the second measurement, this time on your body.

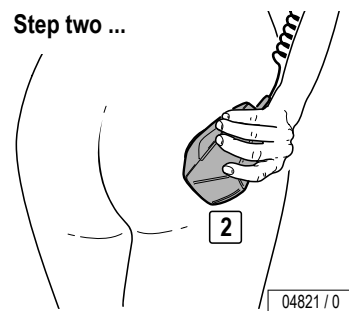
**Step two:** Perform the second measurement on the palest part of your body: e.g. your buttocks or insides of your arms. It's important that this part of the body is included in your tanning assessment. This way, allowance is made for pigmentation progress at the next tanning session and tanning power is increased.

The Automatic Power System now takes just a few seconds to compute your personal tanning programme from your measurement readings.

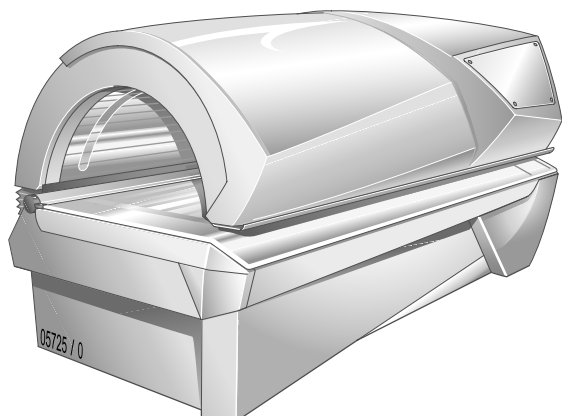
Step one ...



Step two ...







**Turbo Power**  
**Super Power**

**Advantage 400**

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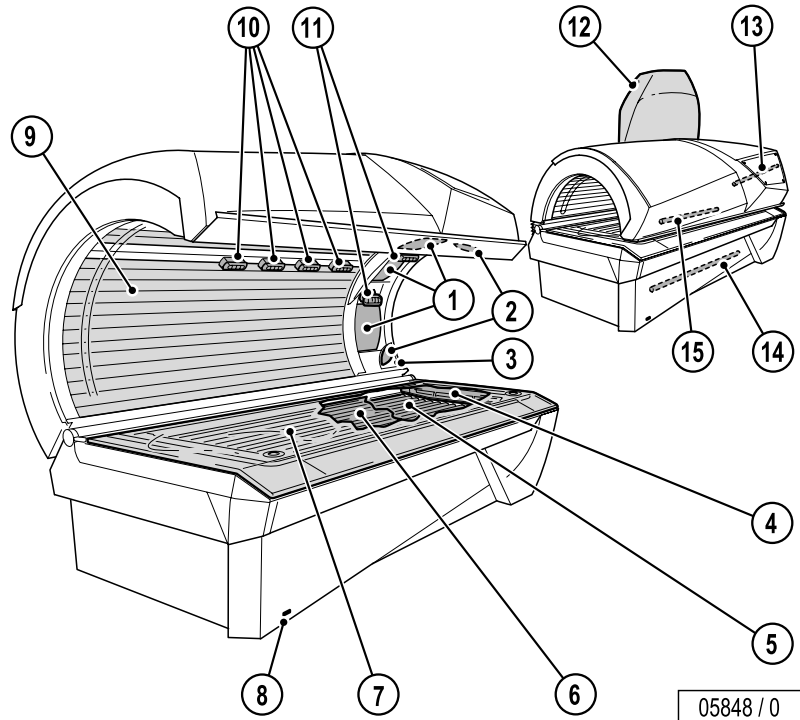
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Device description

Advantage 400

1. Face tanner (UV high-pressure lamps)
2. Loudspeaker
3. Headphone connection
4. Reflector
5. UV low-pressure lamps, lower part
6. Intermediate panel (only with air conditioner)
7. Infrared interface
8. Acrylic glass panel lower part
9. UV low-pressure lamps, canopy
10. Air nozzles body cooling
11. Air nozzles body cooling head end
12. Central exhaust air bracket (optional)
13. Accent lighting canopy
14. Accent lighting Frontblende
15. Accent lighting Innenraum



**Technical Data**

**Technical Data – Advantage 400 Turbo Power**

Electrical data	
Nominal power consumption:	
without Air conditioning:	9700 W
with Air conditioning:	10700 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	
without Air conditioning:	3 x 20 A (time-delay)
with Air conditioning:	3 x 25 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	26 x 140 (160) W
UV high pressure lamps	3 x 400 W
Lower part:	
UV low pressure lamps	14 x 140 (160) W

Noise emission	
Acoustic pressure level:	66.4 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	
without Air conditioning:	7 °C
with Air conditioning:	10 °C
Max. air requirement:	2700 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	430 cm²
Cabin inlet air cross section at 1.5 m/s:	5000 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

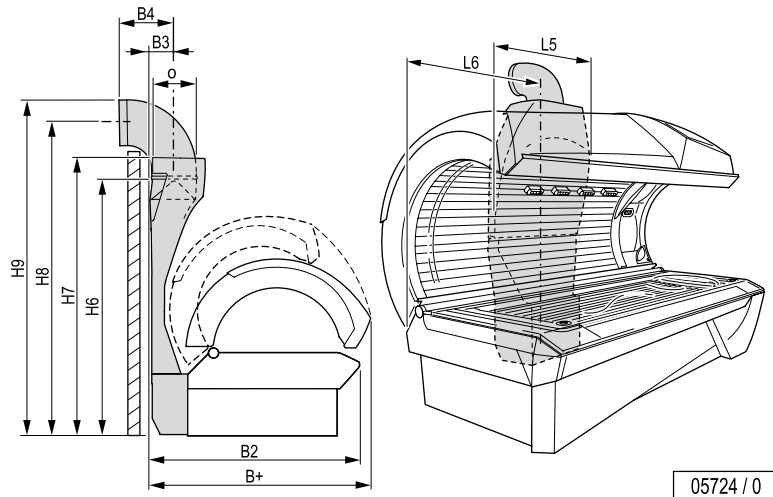
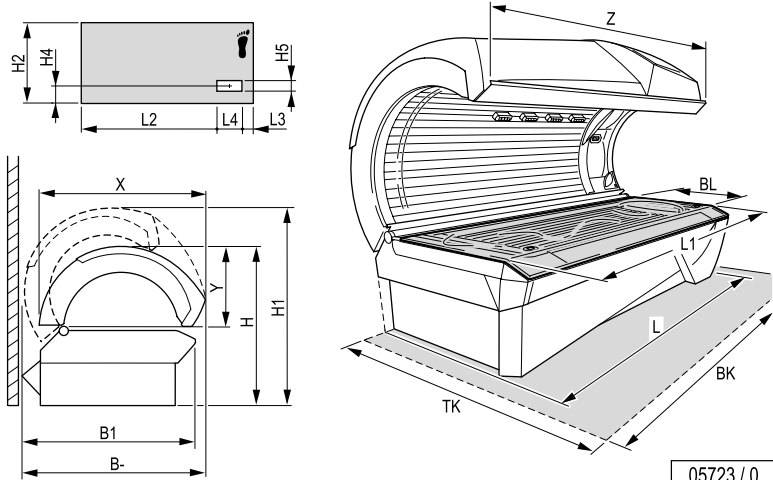
**Technical Data – Advantage 400 Super Power**

Electrical data	
Nominal power consumption:	
without Air conditioning:	7700 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	26 x 100 W
UV high pressure lamps	3 x 360 W
Lower part:	
UV low pressure lamps	14 x 100 W

Noise emission	
Acoustic pressure level:	66.4 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	7 °C
Max. air requirement:	2700 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	430 cm²
Cabin inlet air cross section at 1.5 m/s:	5000 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

Dimensions

B-	1310 mm
B1	1180 mm
B2	1300 mm
B+	1430 mm
L	2226 mm
L1	2015 mm
L2	1615 mm
L3	35 mm
L4	273 mm
L5	867 mm
L6	1100 mm
H	1256 mm
H1	1575 mm
H2	390 mm
H3	- mm
H4	264 mm
H5	167 mm
H6	1679 mm
H7	1760 mm
H8	1979 mm
H9	2124 mm
X	1220 mm
Y	673 mm
Z	2226 mm
∅	300 mm
BK	2300 mm
TK	2100 mm



**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2300	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	12
					1	11
					2	10
					3	9

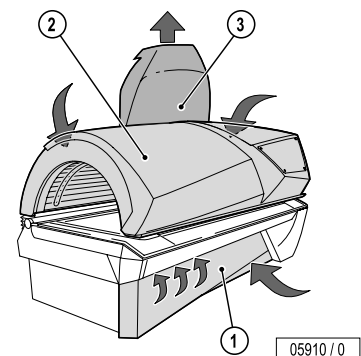
  

Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2300	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	36
					1	33
					2	29
					3	26

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment. The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



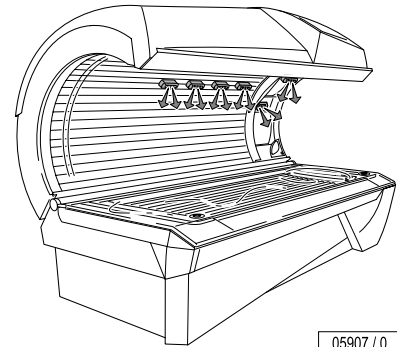
05910 / 0

**Surround cooling**

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 9 steps. Cabin or studio air is drawn in and used for cooling.

The air is fed through several nozzles in the middle of the canopy and in the head area.

Depending on the equipment, an air conditioner enables the additional climate control of the bed surface and the body air (Advantage 400 Turbo Power only).



05907 / 0

**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

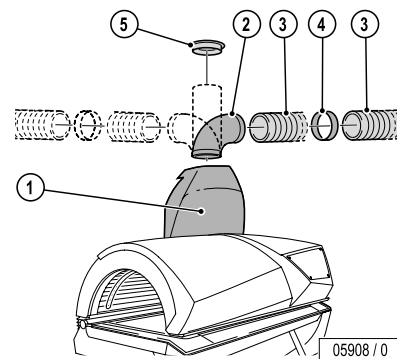
The apertures intended for this purpose are located above the central exhaust air bracket.

**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 12 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 12 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 36 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 36 metres.



05908 / 0

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452840	With connection possible for exhaust air pipes (∅ 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452830	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
3	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipes, e.g. to a canal

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**Sound system**

Equipment variant, retrofitting not possible.

**Controls**

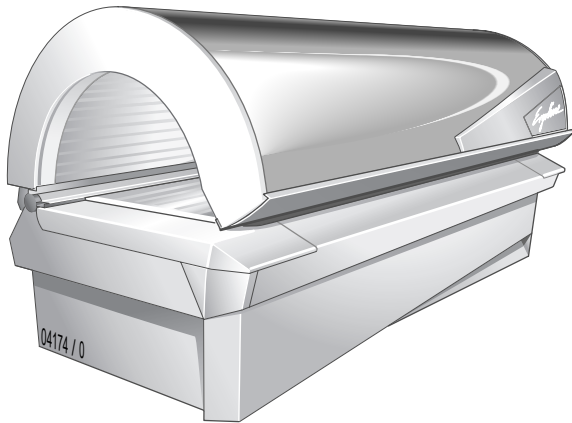
Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner**

Equipment variant: Air condition for the bed surface and the body air, retrofitting not possible.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



**Turbo Power  
Super Power**

**Advantage 350**

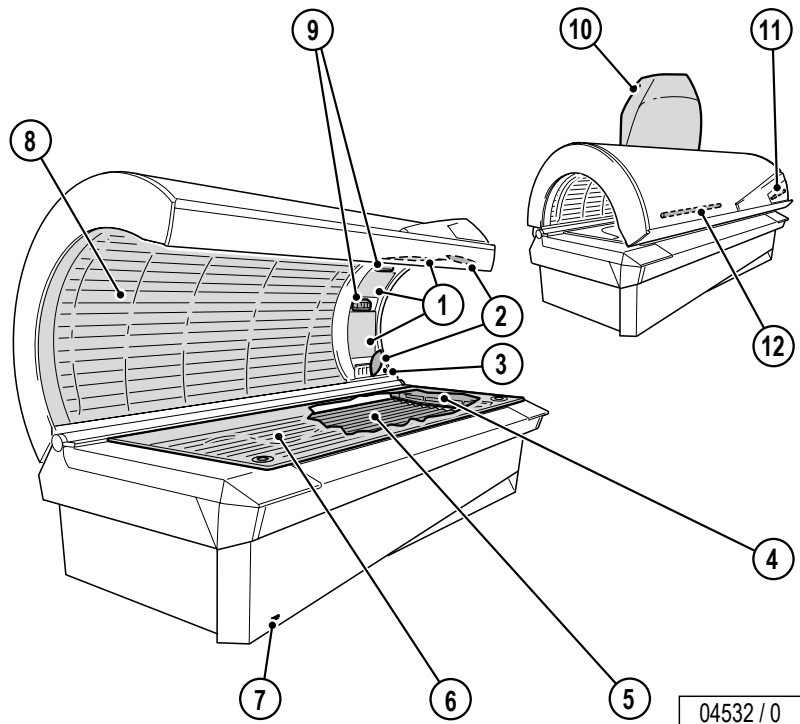
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Device description

1. Face tanner (UV high-pressure lamps)
2. Loudspeaker
3. Headphone connection
4. Reflector
5. UV low-pressure lamps, lower part
6. Acrylic glass panel lower part
7. Infrared interface
8. UV low-pressure lamps, canopy
9. Air nozzles body cooling head end
10. Central exhaust air bracket (optional)
11. Accent lighting canopy
12. Accent lighting internal



Advantage 350

**Technical Data**

**Technical Data – Advantage 350 Turbo Power**

<b>Electrical data</b>	
Nominal power consumption:	
without Air conditioning:	9600 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 20 A (time-delay)
<b>Performance:</b>	
Canopy:	
UV low pressure lamps	24 x 140 (160) W
UV high pressure lamps	3 x 400 W
Lower part:	
UV low pressure lamps	14 x 140 (160) W

<b>Noise emission</b>	
Acoustic pressure level:	68.1 db (A)
<b>Inlet and exhaust air</b>	
Temperature difference, supply/exhaust air:	10 °C
Max. air requirement:	2700 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	430 cm²
Cabin inlet air cross section at 1.5 m/s:	5000 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

**Technical Data – Advantage 350 Super Power**

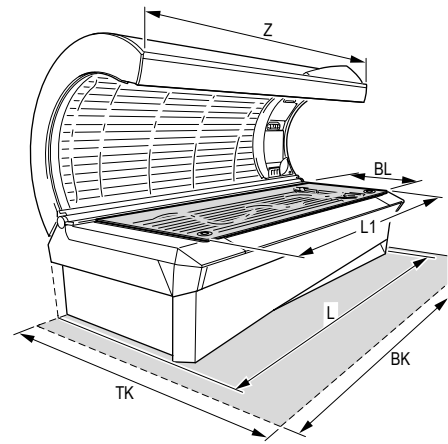
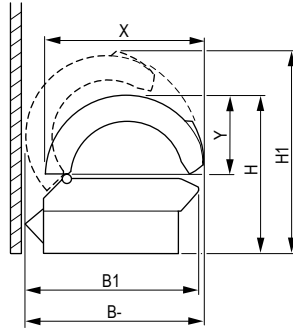
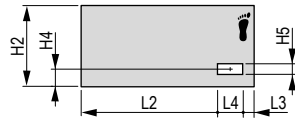
<b>Electrical data</b>	
Nominal power consumption:	
without Air conditioning:	7600 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
<b>Performance:</b>	
Canopy:	
UV low pressure lamps	24 x 100 W
UV high pressure lamps	3 x 360 W
Lower part:	
UV low pressure lamps	14 x 100 W

<b>Noise emission</b>	
Acoustic pressure level:	68.1 db (A)
<b>Inlet and exhaust air</b>	
Temperature difference, supply/exhaust air:	7 °C
Max. air requirement:	2700 m³/h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	430 cm²
Cabin inlet air cross section at 1.5 m/s:	5000 cm²
Exhaust cross section with exhaust system:	710 cm²
Warm air return:	possible

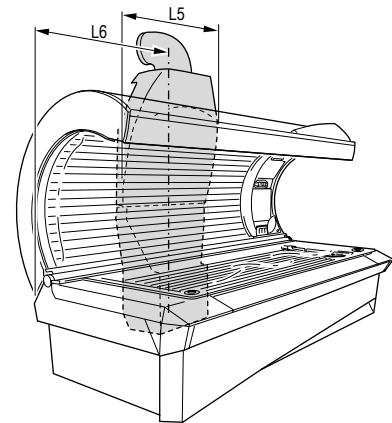
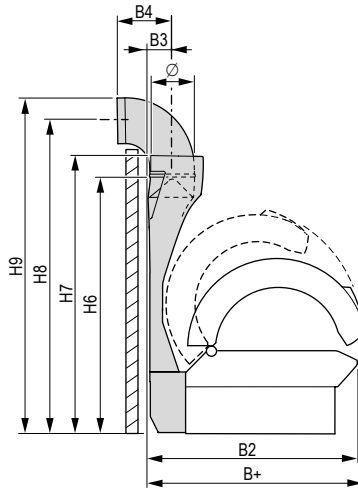
Dimensions

B-	1230 mm
B1	1170 mm
B2	1290 mm
B+	1350 mm
L	2200 mm
L1	2015 mm
L2	1615 mm
L3	35 mm
L4	273 mm

L5	867 mm
L6	1100 mm
H	1125 mm
H1	1415 mm
H2	390 mm
H3	- mm
H4	264 mm
H5	167 mm
H6	1679 mm
H7	1760 mm
H8	1979 mm
H9	2124 mm
X	1114 mm
Y	536 mm
Z	2200 mm
∅	300 mm
BK	2300 mm
TK	2100 mm



04365 / 0



04368 / 0

**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2300	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	12
					1	11
					2	10
					3	9

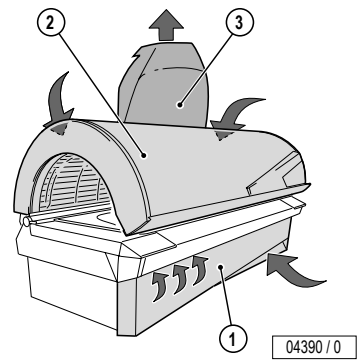
  

Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2300	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	36
					1	33
					2	29
					3	26

1) zeta value (ζ)

**Equipment cooling**

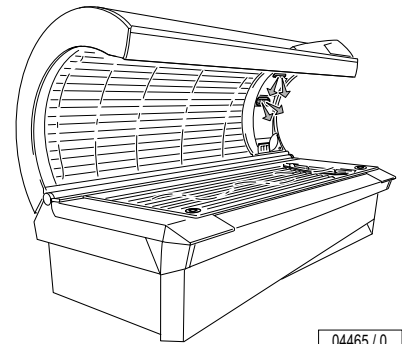
Cabin or studio air is drawn in beneath the front panel (1) of the lower part of the sunbed and over the filter mats in the canopy (2) (inlet air) in order to cool the equipment. The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (3) at the rear of the sunbed.



04390 / 0

**Surround cooling**

Surround air ventilation for the user is provided automatically. The intensity is adjustable in 4 steps. Cabin or studio air is drawn in and used for cooling. The air is fed through several nozzles in the middle of the canopy and in the head area.



04465 / 0

**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

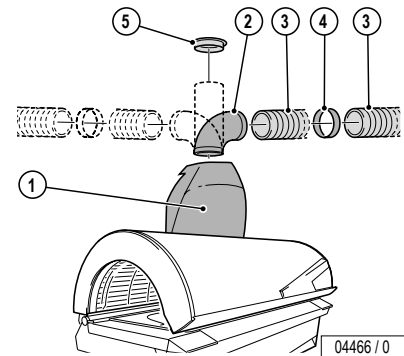
The apertures intended for this purpose are located above the central exhaust air bracket.

**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 12 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 12 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 36 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 36 metres.



04466 / 0

**Warm air recycling**

Warm air recycling is a technically advanced, secure device which feeds part of the hot cooling air back to the studio via a motor-controlled air choke. A thermostat provides fully automatic control of the studio temperature, between 15 °C and 25 °C as required.

The exhaust air bracket and warm air recycling can also be retrofitted.

Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket Techno Grey <b>with</b> warm air recycling, thermostatically controlled including connector piece, see Item 4	3452840	With connection possible for exhaust air pipes (Ø 300 mm) on the top, top right, top left and to the rear
	Central exhaust air bracket Techno Grey, but <b>without</b> warm air recycling	3452830	
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (Ø 300 mm)]
3	Corrugated pipe (Ø 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
4	Corrugated pipe connector piece (Ø 300 mm)	3450270	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe (Ø 300 mm)	3450360	Connection of the corrugated pipes, e.g. to a canal

**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**Sound system**

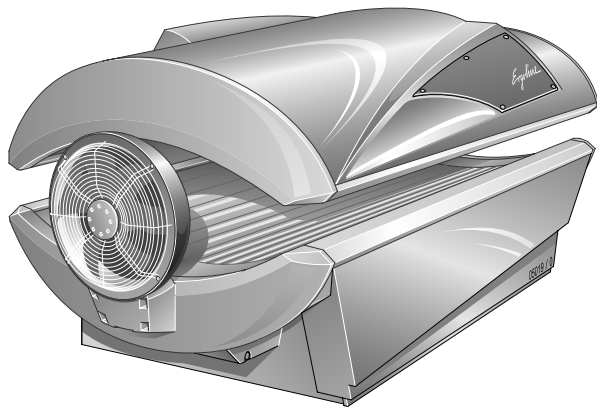
Equipment variant, retrofitting not possible.

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner (not available)**

No air conditioner can be supplied with this device model.



Super Power

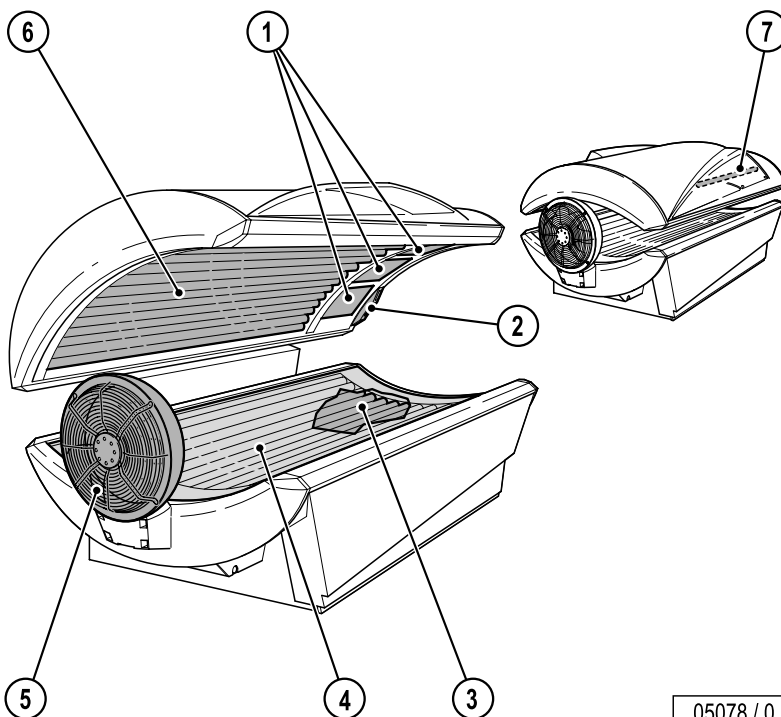
Ambition 250

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**Device description**

1. Face tanner (UV high-pressure lamps)
2. Operating panel
3. UV low-pressure lamps, lower part
4. Acrylic glass panel lower part
5. Fan body cooling
6. UV low-pressure lamps, canopy
7. Accent lighting canopy



05078 / 0

**Technical Data**

**Electrical data**

Nominal power consumption:	
without Air conditioning:	6 300 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)

**Performance:**

<b>Canopy:</b>	
UV low pressure lamps	18 x 100 W
UV high pressure lamps	3 x 400 W
<b>Lower part:</b>	
UV low pressure lamps	18 x 100 W

**Noise emission**

Acoustic pressure level:	63.6 db (A)
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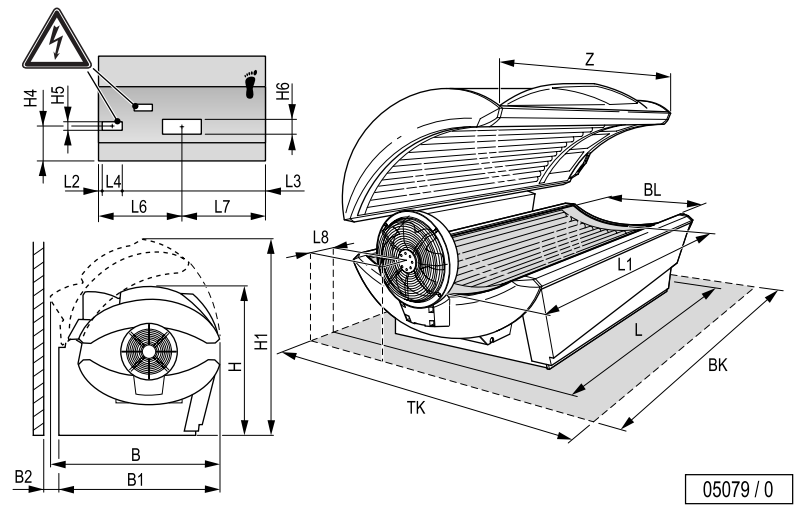
**Inlet and exhaust air**

<b>Temperature difference, supply/exhaust air:</b>	
without air conditioning:	15 °C
Max. air requirement:	1600 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	802 cm <sup>2</sup>
Warm air return:	not possible



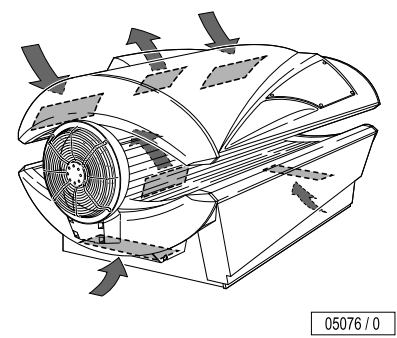
**Dimensions**

B	1193 mm
B1	1130 mm
B2	140 mm
BL	808 mm
L	2306 mm
L1	2071 mm
L2	24 mm
L3	851 mm
L4	104 mm
L5	226 mm
L6	488 mm
L8	70 mm
H	1049 mm
H1	1383 mm
H2	613 mm
H4	206 mm
H5	50 mm
H6	87 mm
X	995 mm
Y	400 mm
Z	2172 mm
BK	2400 mm
TK	2100 mm



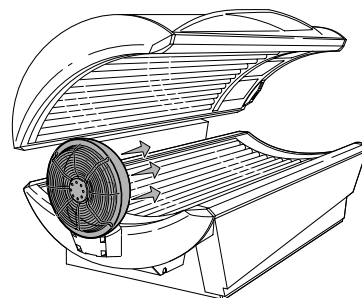
**Equipment cooling**

To cool the equipment, cabin or studio air is drawn in through two filters in the lower part of the sunbed and two filters at the rear of the canopy (inlet air).  
 The inlet air is fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via two exhaust air openings at the rear of the sunbed.



**Surround cooling**

Surround air ventilation for the user is provided automatically, but can be switched off and on again as the user wishes. Cabin or studio air is drawn in and used for cooling.



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**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**Sound system**

Audio unit	not available
Loudspeaker	not available

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software



Turbo Power



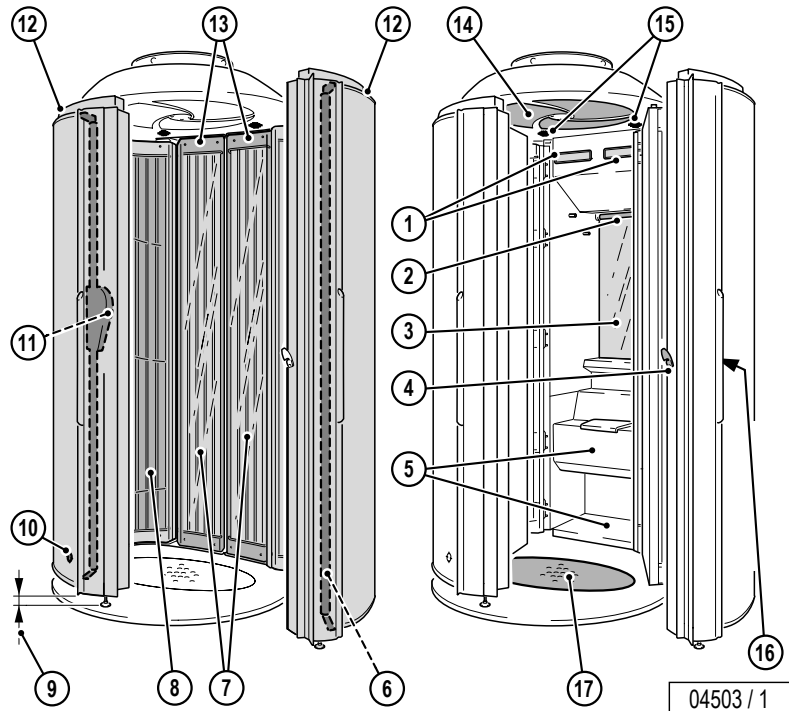
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Air conditioner (not available).....	7
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## Device description

1. Exhaust air slots, equipment cooling
2. Lighting of comfort cabin
3. Mirror
4. Inside door lock
5. Clothes and shoe storage
6. Inside door handle
7. UV low pressure lamps inner doors
8. UV low pressure lamps outer doors
9. Clearance for the air supply (50 mm)
10. Infrared interface
11. Operating panel with display
12. Outer doors
13. Inner doors
14. Ventilator
15. Loudspeaker (accessories)
16. Cable for emergency unlocking behind the filter mat
17. Base cover



## Technical Data

Electrical data	
Nominal power consumption:	12500 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 25 A (time-delay)
Performance:	
Device door, right side:	
UV low pressure lamps	20 x 180 W
Device door, left side:	
UV low pressure lamps	20 x 180 W
Door of comfort cabin, right side:	
UV low pressure lamps	5 x 180 W
Door of comfort cabin, left side:	
UV low pressure lamps	5 x 180 W

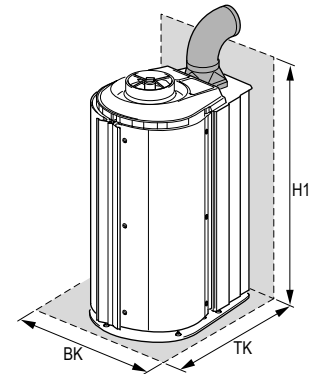
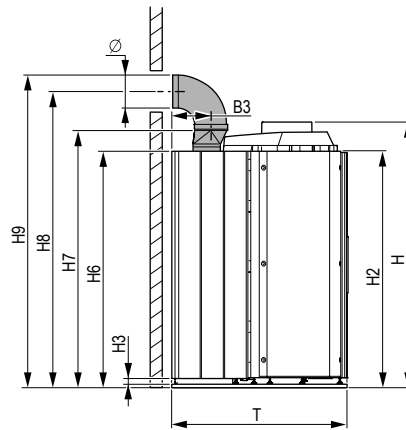
Noise emission	
Acoustic pressure level:	72.2 db (A)
Inlet and exhaust air	
Temperature difference, supply/ exhaust air:	10 °C
Max. air requirement:	2900 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C – 30 °C
Max. ambient temperature:	15 °C – 40 °C
Max. inlet air temperature:	40 °C
Exhaust cross section w/o exhaust system:	430 cm <sup>2</sup>
Cabin inlet air cross section at 1.5 m/s:	5370 cm <sup>2</sup>
Exhaust cross section with exhaust system:	710 cm <sup>2</sup> <sup>1)</sup>
Warm air return:	not possible

1) when using a 300 mm exhaust air adapter (see Exhaust air accessories)

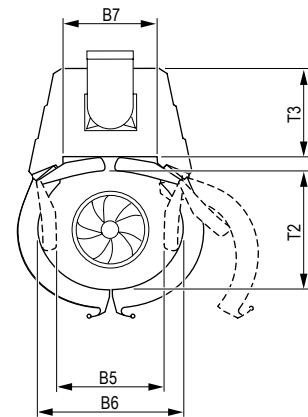
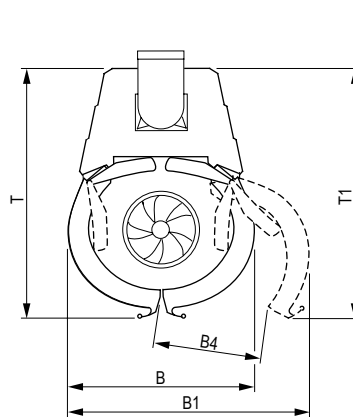
Dimensions

B	1200 mm
B1	1500 mm
B2	325 mm
B3	326 mm
B4	600 mm
B5	680 mm
B6	930 mm
B7	620 mm
H*	2420 mm
H1*	2645 mm
H2*	2145 mm
H3	50 mm
H6*	2145 mm
H7*	2355 mm
H8*	2696 mm
H9*	2846 mm
T	1600 mm
T1	1650 mm
T2	730 mm
T3	480 mm
∅	300 mm
BK	1600 mm
TK	2300 mm

\* incl. baseplate



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04432 / 0

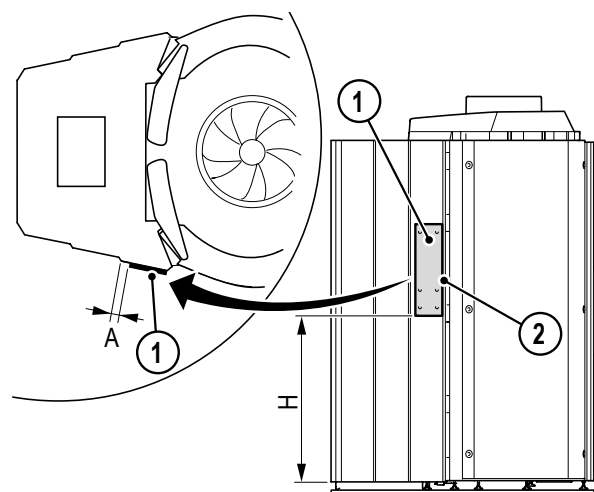
Installation of a coin device

At the rear part of the tanning device, the coin devices MCS IV plus, MCS VI or Studiopilot can be mounted to the wall of the tanning device (alternatively left or right).

See also "MCS IV plus", "MCS VI" or "Studiopilot" – "Installation variation tanning device".

A	45.5 mm	
H	1023 mm	level of lower edge of drilling template (ex lower edge of side wall)
1		drilling template 86820

The drilling template must be flush with the front edge (2) of the wall segment.



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Planning example for double rear wall

Installing “exhaust air ducting via a hanging ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

An intermediate wall (1) (e.g. chipboard) tightly enclosing the device at the rear serves as an upward channel for the exhaust air (2), right up to the hanging ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary.

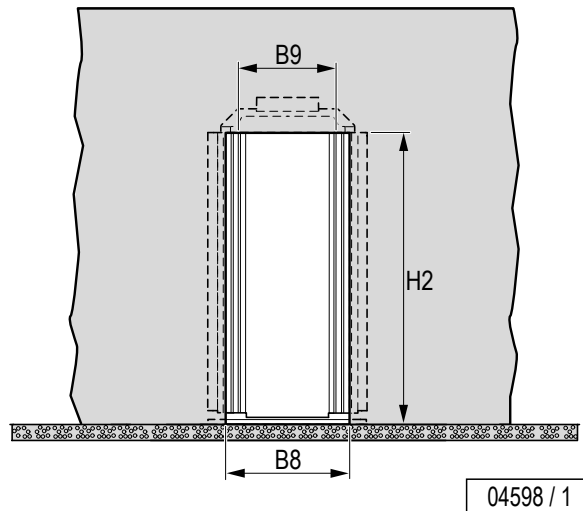
A cut-out is mounted on the intermediate wall (see table for dimensions).

Lounge

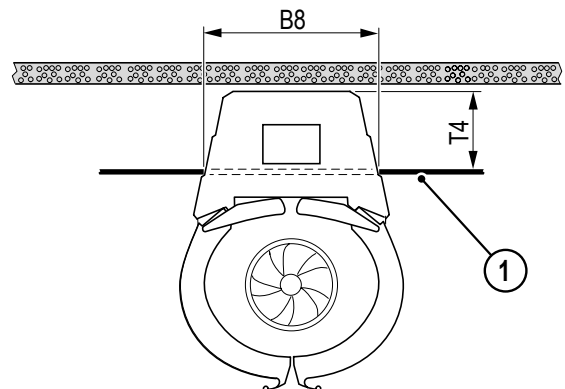
Dimensions		
B8	920 mm	width of cut-out
B9	722 mm	width of tanning device at the rear wall
T4	443 mm	minimum distance between intermediate wall and wall
T5	1157 mm	
H2*	approx. 2145 mm	height of cut-out

\* incl. baseplate

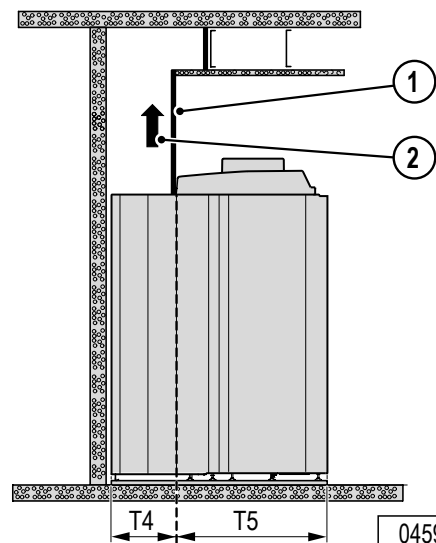
The intermediate wall (1) must securely enclose the rear of the tanning bed.



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04601 / 0



04597 / 1

**Maximum exhaust pipe lengths**

**Calculation base (without additional ventilator):**

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

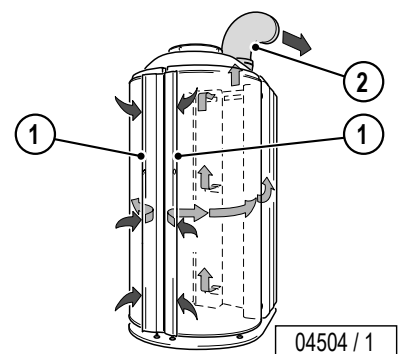
Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2600	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
					1	8.5
					2	7.5
					3	6
Smooth pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	0.1	2600	0.061 <sup>1)</sup>	0.21 <sup>1)</sup>	0	29
					1	25
					2	21
					3	18

1) zeta value (ζ)

**Equipment cooling**

Cabin or studio air can be drawn in (supply air) along the edges of the door (1) in order to cool the outer doors. Air is drawn in through the openings in the rear of the doors to cool the inner doors.

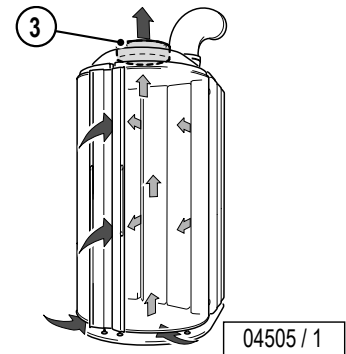
The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure lamps and finally expelled as warm exhaust air (2).



**Surround cooling**

A fan (3) is used to provide body cooling. Cabin or studio air will be drawn-in through the fan and routed past the person beneath it.

The fan has 9 speeds.



**Exhaust air accessories**

Connection to a central exhaust system is possible upwards, upwards right, upwards left and to the rear.

The apertures intended for this purpose are located on top of the comfort cabin.

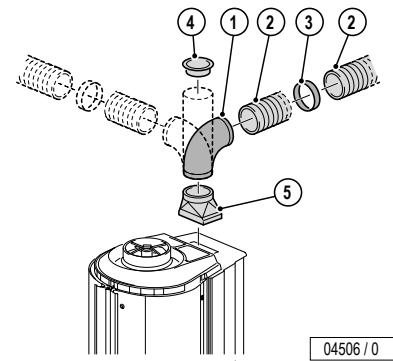
**Corrugated pipe**

Suitable device exhaust is possible with an exhaust pipe up to 10 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 10 metres.

**Smooth pipe**

Suitable device exhaust is possible with an exhaust pipe up to 29 metres in length (without 90° bend). An auxiliary fan is required for exhaust pipes longer than 29 metres.

The exhaust air bracket and warm air recycling can also be retrofitted.



Item	Accessory parts	Article No.	Notes
1	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (∅ 300 mm)]
2	Corrugated pipe (∅ 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
3	Corrugated pipe connector piece (∅ 300 mm)	3450270	For connecting two corrugated pipes
4	Connector bracket for corrugated pipe (∅ 300 mm)	3450360	Connection of the corrugated pipes, e.g. to a canal
5	Exhaust air adapter	3452850	–



**Electrical connections**

Mains supply line	none
Electr. control line	none
Line for external music and channel selection	none

**Sound system**

	Artikel-Nr.	Bemerkungen
Audio package	A 3452720	
Loudspeaker set	M 3452860	

M = plus surcharge  
 A = Equipment variant, plus surcharge, retrofitting not possible

**Controls**

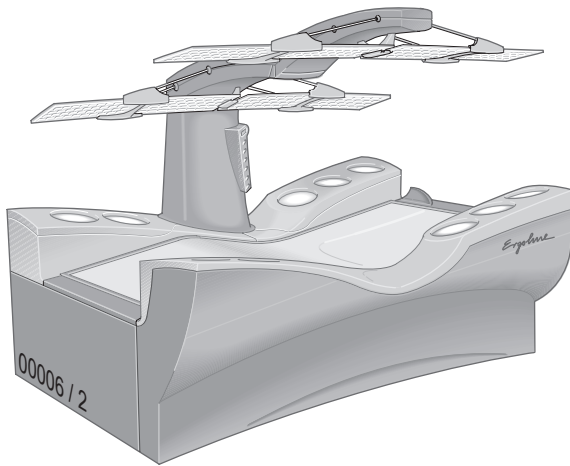
Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner (not available)**

No air conditioner can be supplied with this device model.

**IR Interface**

Standard equipment: Access to the device data with a hand-held unit (Palm).



Super Power

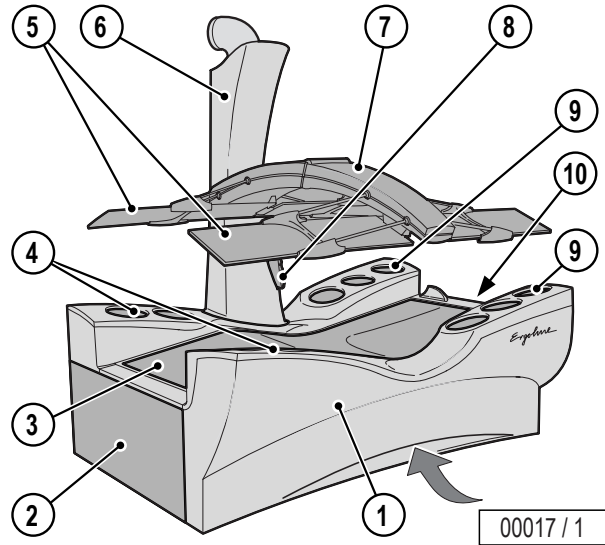
Open Sun A.R.T. 600

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**Device description**

1. Front panel with inlet air aperture (air inlet for equipment cooling)
2. Feet end
3. Acrylic glass panel lower part
4. UV high pressure lamps (feet end)
5. 2 Reflector banks (glass)
6. Central exhaust air bracket (column)
7. Reflector arm with surround air
8. Control panel with display
9. UV high-pressure lamps (head end)
10. Head end



**Technical Data**

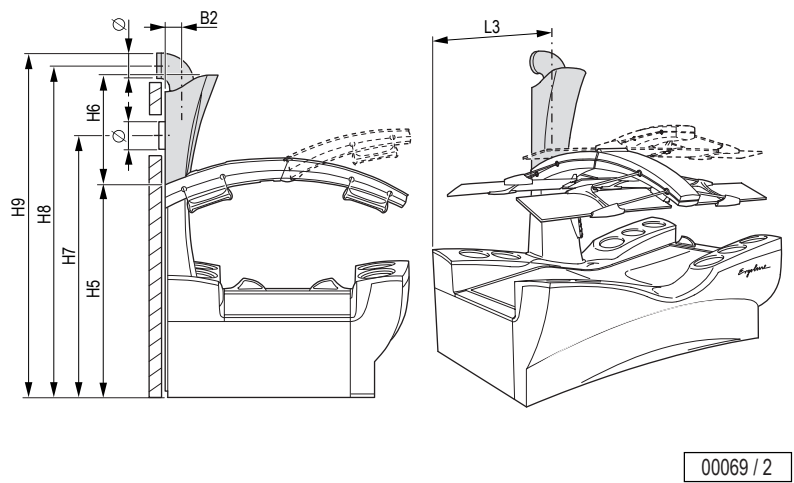
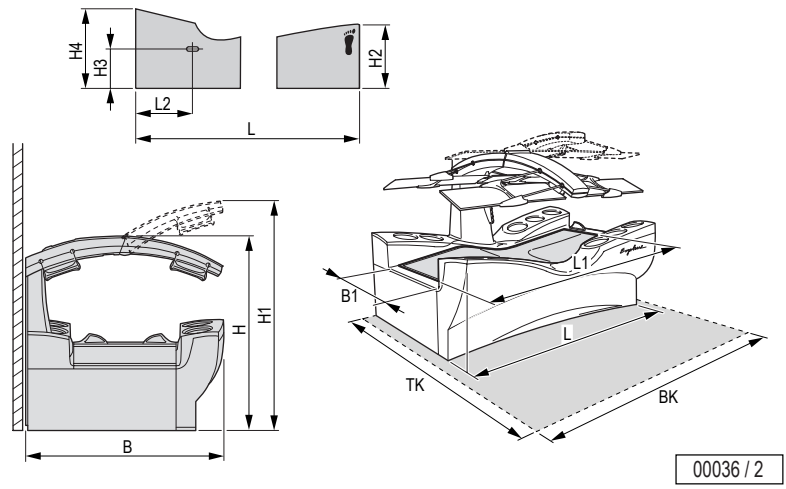
Electrical data	
Nominal power consumption:	13 300 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 25 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	17 x 100 W
Lower part:	
UV high pressure lamps in the upper body region	6 x 800 W
UV high pressure lamps in the feet region	4 x 700 W

Noise emission	
Acoustic pressure level:	62.3 db (A)
Inlet and exhaust air	
Temperature difference, supply/ exhaust air:	11 °C
Max. air requirement:	2500 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C
Max. ambient temperature:	40 °C
Max. inlet air temperature:	550 cm <sup>2</sup>
Exhaust cross section w/o exhaust system:	4100 cm <sup>2</sup>
Cabin inlet air cross section	490 cm <sup>2</sup> (710 cm <sup>2</sup> ) <sup>1)</sup>
Warm air return:	not possible

1) when using a 300 mm pipe adapter (see Exhaust air accessories)

**Dimensions**

B	1660 mm
B1	850 mm
B2	127 mm
L	2332 mm
L1	2100 mm
L2	780 mm
L3	1100 mm
H	1600 mm
H1	1780 mm
H2	800 mm
H3	470 mm
H4	900 mm
H5	1430 mm
H6	700 mm
H7	1910 mm
H8	2370 mm
H9	2496 mm
∅	250 mm
BK	2400 mm
TK	2500 mm



**Maximum exhaust pipe length**

**Calculation base (without additional ventilator):**

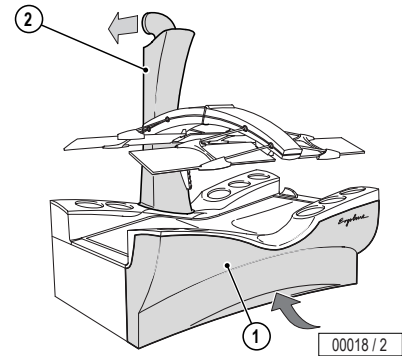
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
250 (300) <sup>1)</sup>	8	2500	0.182 <sup>2)</sup>	0.21 <sup>2)</sup>	0	12
					1	10
					2	8
					3	6

- 1) can be extended
- 2) zeta value (ζ)

**Equipment cooling**

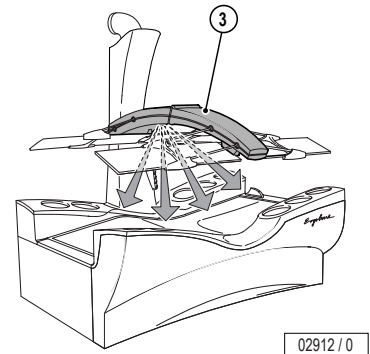
Cabin or studio air (inlet air) is drawn in under the front panel (1) for cooling the device. The air is first cleaned in a filter, fed past the hot UV low-pressure and high-pressure lamps and finally expelled as warm exhaust air via the central exhaust air bracket (2).



**Surround cooling**

Surround air is supplied to the user via an oscillating fan in the reflector arm (3). Cabin or studio air is drawn in via air inlet slots above the reflector arm and supplied to the user via outlet nozzles underneath the reflector arm.

Infinite adjustment of the fan can be made manually at any time, to suit the user's comfort requirements.



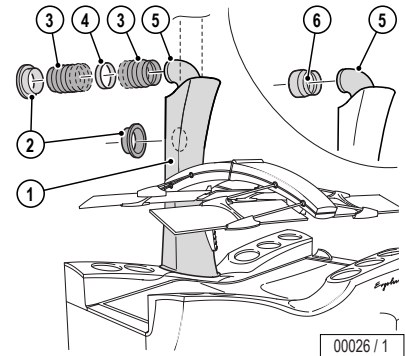
02912 / 0

**Exhaust air accessories**

Connection to a central exhaust air system at the rear or upwards is possible.

The apertures intended for this purpose are located above the central exhaust air bracket.

Adequate ventilation of the equipment is possible up to an exhaust air pipe length of 12 meters (without 90° bend). For exhaust air pipe lengths greater than 12 meters, you will require an additional fan.



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Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket in blue, without warm air recycling (Ø 250 mm)	3452140	with tube adapter (see Item 6) connection to a corrugated pipe of Ø 300 mm is possible
2	Connector bracket for corrugated pipe (Ø 250 mm)	3450350	Connection of the corrugated pipe, e.g. to a canal
3	Corrugated pipe (Ø 250 mm, 6 m length, flexible, grey) including 2 hose clips	3400580	–
4	Corrugated pipe connector piece (Ø 250 mm)	3400670	For connecting two pipes
5	90° tube bend in blue for exhaust air connection, upwards	3452190	Installation angle can be offset by 45°
6	Tube adapter (Ø 250 mm to Ø 300 mm)	3452200	–

## Electrical connections

Mains supply line	provided
Electr. control line	none
Line for external music and channel selection	approx. 3000 mm

## Sound system

	Article No.	Notes
Audio package	● –	Audio unit with VoiceGuide
Loudspeaker set	● –	

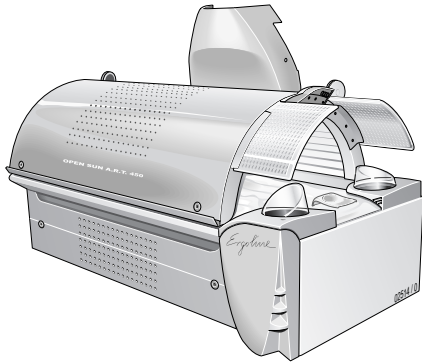
● = as standard

## Controls

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

## Air conditioner (not available)

No air conditioner can be supplied with this device model.



Super Power

Open Sun A.R.T. 450

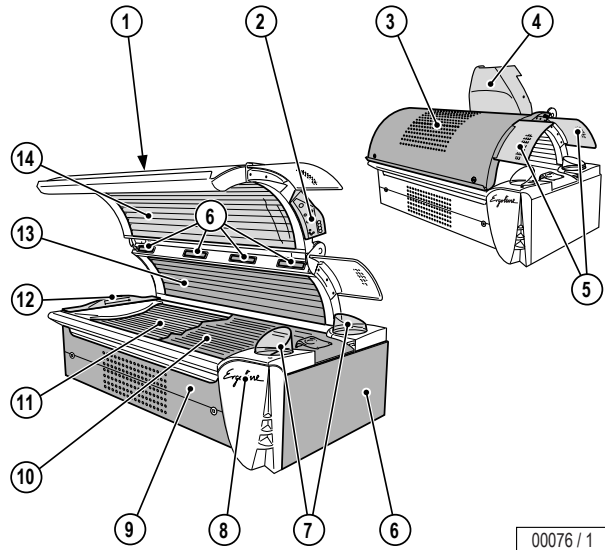
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Controls . . . . .	6
Air conditioner (not available) . . . . .	6



**Device description**

1. Canopy with air inlet
2. Operating elements
3. Decorative canopy
4. Central exhaust nozzle (optional)
5. Glass reflectors for the face tanner
6. Sunbed base (component board, fan, etc.)
7. Face tanner with protective goggles
8. Accent lighting
9. Front panel with air inlet
10. Acrylic glass panel lower part
11. Base
12. Air nozzle (surround cooling, feet end)
13. Side part
14. Canopy



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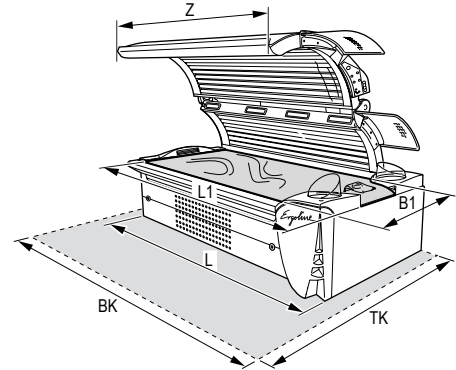
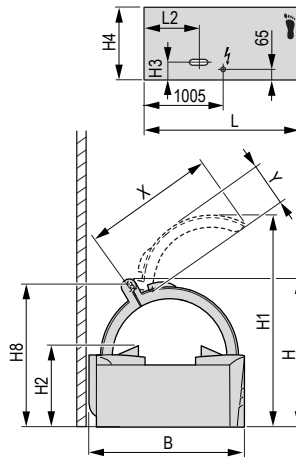
**Technical Data**

Electrical data	
Nominal power consumption:	8300 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	18 x 100 W
Lower part:	
UV low pressure lamps	18 x 100 W
UV high pressure lamps	2 x 600 W
Side part:	
UV low pressure lamps	9 x 100 W

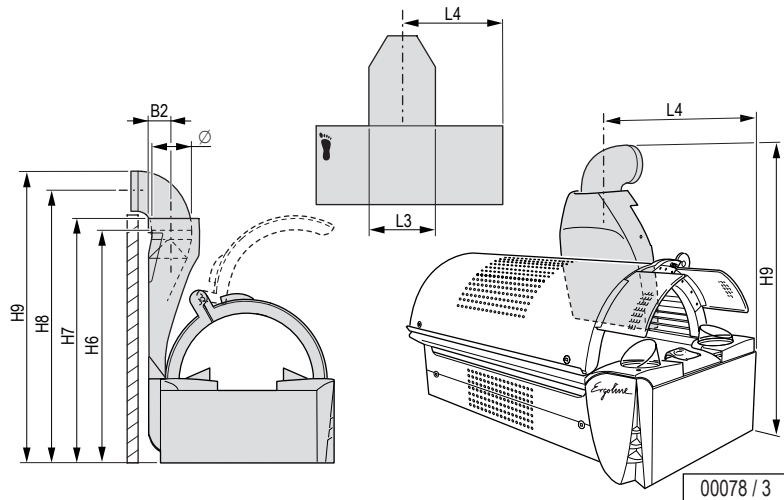
Noise emission	
Acoustic pressure level:	63.2 db (A)
Inlet and exhaust air	
Temperature difference, supply/ exhaust air:	10 °C
Max. air requirement:	2100 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C
Max. ambient temperature:	40 °C
Max. inlet air temperature:	435 cm <sup>2</sup>
Exhaust cross section w/o exhaust system:	4000 cm <sup>2</sup>
Cabin inlet air cross section	710 cm <sup>2</sup>
Warm air return:	not possible

**Dimensions**

B	1310 mm
B1	1075 mm
B2	181 mm
L	2270 mm
L1	2160 mm
L2	860 mm
L3	867 mm
L4	1330 mm
H	1160 mm
H1	1555 mm
H2	720 mm
H3	175 mm
H4	620 mm
H7	1475 mm
H8	1555 mm
H9	1780 mm
H10	1930 mm
X	1020 mm
Y	320 mm
Z	1914 mm
∅	300 mm
BK	2370 mm
TK	2300 mm



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**Maximum exhaust pipe length**

**Calculation base (without additional ventilator):**

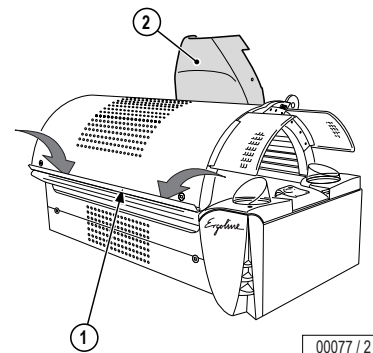
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
300	8	2150	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	12
					1	10
					2	8
					3	6

1) zeta value (ζ)

**Equipment cooling**

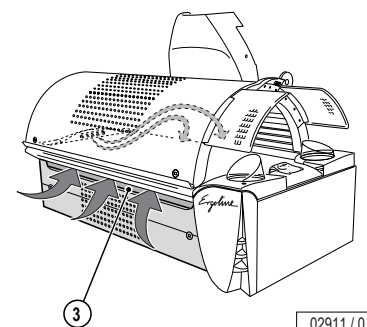
Air is drawn in at the air inlet of the canopy (1) through a filter for cooling the device. The air is led past the warmed UV lamps and is exhausted to the outside through the central exhaust bracket (2) at the rear of the sunbed.



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**Surround cooling**

Because of the open construction in the region of the head, a foot ventilator is sufficient for cooling the whole body of the user. The foot ventilator is supplied with filtered ambient air through the air inlet above the front plate (3). The intensity of body cooling can be individually adjusted in 5 steps.



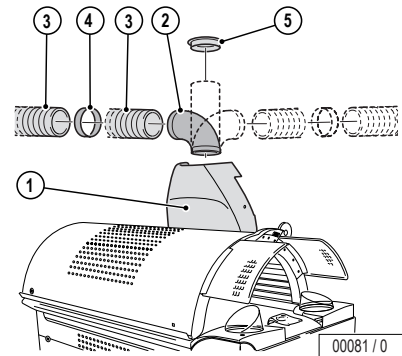
02911 / 0

**Exhaust air accessories**

Connection to a central exhaust air system upwards is possible.

The apertures intended for this purpose are located above the central exhaust air bracket.

Adequate ventilation of the equipment is possible up to an exhaust air hose length of 12 meters (without 90° bend). For exhaust air hose lengths greater than 12 meters, you will require an additional fan.



Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket in Techno Grey	3452280	to the connection for exhaust pipes (Ø 300 mm) upwards
2	90° Pipe bend in Techno Grey	3452110	For inlet and exhaust air ducting to right, left or to rear, plus tube adapter for direct connection to central exhaust air bracket [possible with tube (Ø 300 mm)]
3	Connector bracket for corrugated pipe (Ø 300 mm)	3450360	Connection of the corrugated pipe, e.g. to a channel
4	Corrugated pipe (Ø 300 mm, 6 m length, flexible, grey) including 2 pipe clamps	3450280	–
5	Corrugated pipe connector piece (Ø 300 mm)	3450270	For connecting two corrugated pipes

Open Sun A.R.T. 450

**Electrical connections**

Mains supply line	provided
Electr. control line	approx. 2000 mm
Line for external music and channel selection	approx. 3000 mm

**Sound system**

		Article No.	Notes
Audio package	M	3452270	Audio unit; volume control and channel selection switch are integrated in the control cockpit (Consisting of control box without CD-ROM drive, installation instructions)
Loudspeaker set	M	3452230	

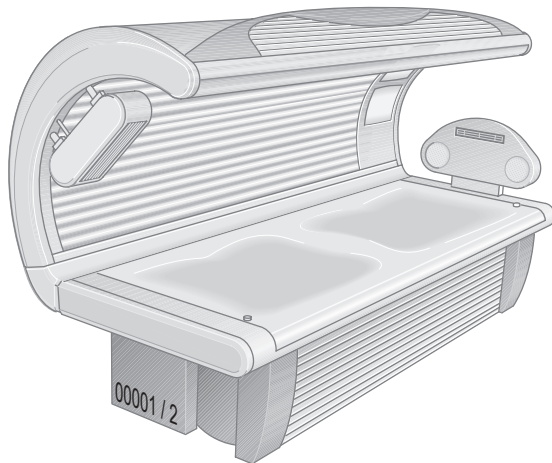
M = plus surcharge

**Controls**

Control		Article No.	Notes
MCS III plus hand-held remote control		3401060	With chip card terminal
MCS IV plus		3401040	With electronic coin tester
MCS VI		3400970	With electronic coin tester + chip card terminal
Studiopilot		3400990	With electronic coin tester + chip card terminal
Studio-Manager		3452900	Software

**Air conditioner (not available)**

No air conditioner can be supplied with this device model.



Super Power

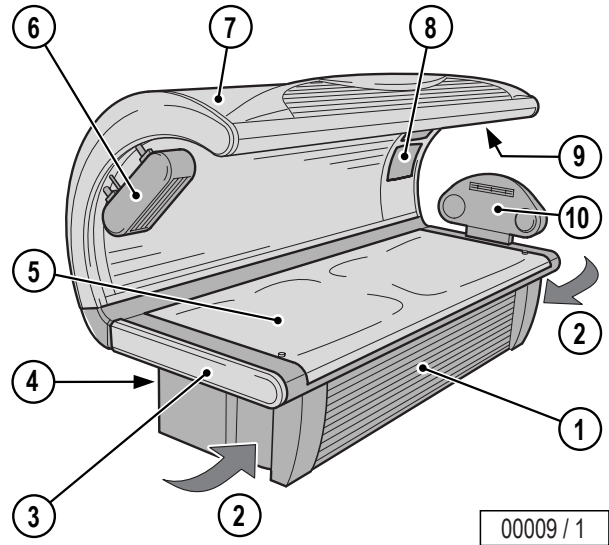
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Air conditioner (not available).....	6

**Device description**

1. Sunbed base
2. Inlet air (Air inlet for cooling the equipment)
3. Feet end
4. Central air outlet vent
5. Acrylic glass panel lower part
6. Surround fan (feet end)
7. Sunbed canopy
8. Face tanner (UV high-pressure lamps)
9. Operating elements
10. Surround fan (head end)



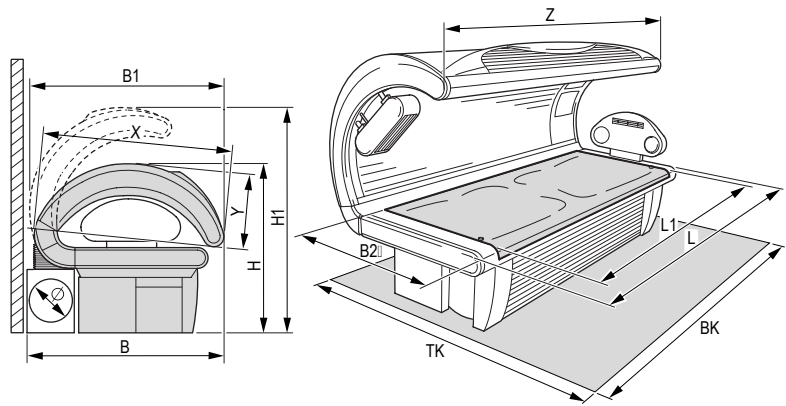
**Technical Data**

Electrical data	
Nominal power consumption:	7000 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	23 x 100 W
UV high pressure lamps	3 x 400 W
Lower part:	
UV low pressure lamps	15 x 100 W

Noise emission	
Acoustic pressure level:	74.0 db (A)
Inlet and exhaust air	
Temperature difference, supply/ exhaust air:	15 °C
Max. air requirement:	950 m <sup>3</sup> /h
Opt. ambient temperature:	25 °C
Max. ambient temperature:	40 °C
Max. inlet air temperature:	450 cm <sup>2</sup>
Exhaust cross section w/o exhaust system:	1300 cm <sup>2</sup>
Cabin inlet air cross section	490 cm <sup>2</sup>
Warm air return:	not possible

**Dimensions**

B	1023 mm
B1	970 mm
B2	730 mm
L	2250 mm
L1	1885 mm
H	1010 mm
H1	1250 mm
X	970 mm
Y	420 mm
Z	1885 mm
∅	250 mm
BK	2300 mm
TK	2000 mm



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**Maximum exhaust pipe length**

<b>Calculation base (without additional ventilator):</b>	
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
250	8	950	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	8
					1	6
					2	4
					3	2

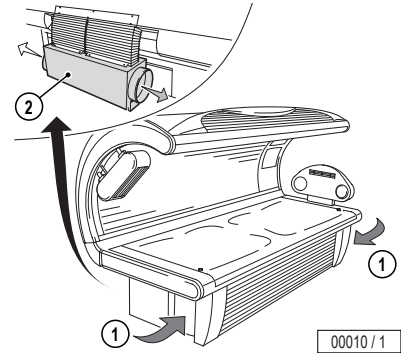
1) zeta value (ζ)



### Equipment cooling

To cool the sunbed, cabin or studio air (inlet air) is drawn in at the head and feet ends of the sunbed base (1).

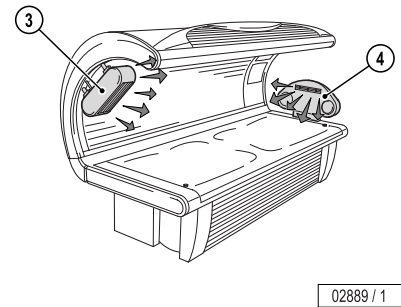
The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled on the left or right as warm exhaust air via the central exhaust air bracket (2).



### Surround cooling

The surround air for the person using the sunbed is supplied via fans at the head end (4) and feet end (3) by means of an incremental control device.

The cabin or studio air is drawn in via air inlet slots and supplied to the user via outlet nozzles.

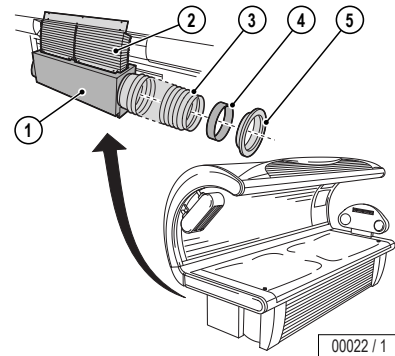


**Exhaust air accessories**

The appropriate corrugated pipe is 250 mm in diameter. With pipe lengths in excess of 4 meters, you will require an additional fan.

The size of the additional fan depends on the overall length of the exhaust channel passage and the number of sunbeds connected. For further advice, please consult your ventilation technician!

We offer various accessories that permit easier connection to a central exhaust system or to the individual device exhaust lines.



Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket, galvanised steel plate; length 952 mm, height 315 mm, depth 280 mm	3400570	Direct connection possibilities of a $\varnothing$ 250 mm circular corrugated pipe or a rectangular pipe with a cross section 320 x 270 mm. Connection is to the bottom right or bottom left - not to the top!
2	Central extraction adapter	3451640	Connection to the central exhaust air channel
3	Corrugated pipe ( $\varnothing$ 250 mm, 6 m length, flexible, grey) including 2 hose clips	3400580	-
4	Corrugated pipe connector piece ( $\varnothing$ 250 mm)	3400670	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe ( $\varnothing$ 250 mm)	3450350	Connection of the corrugated pipes, e.g. to a canal

**Electrical connections**

Mains supply line	available
Electr. control line	Connection made on external contact point of the sunbed
Line for external music and channel selection	-

**Sound system**

	Article No.	Notes
Audio package	o -	
Loudspeaker set	M 3460010	

M = plus surcharge

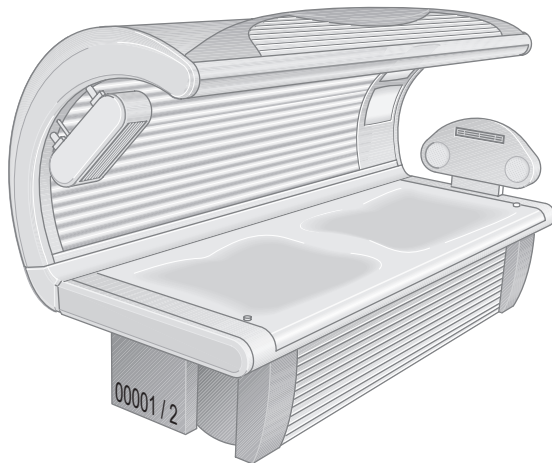
o = not available

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401070	With chip card terminal
MCS IV plus	3401050	With electronic coin tester
MCS VI	3401020	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner (not available)**

No air conditioner can be supplied with this device model.



Super Power

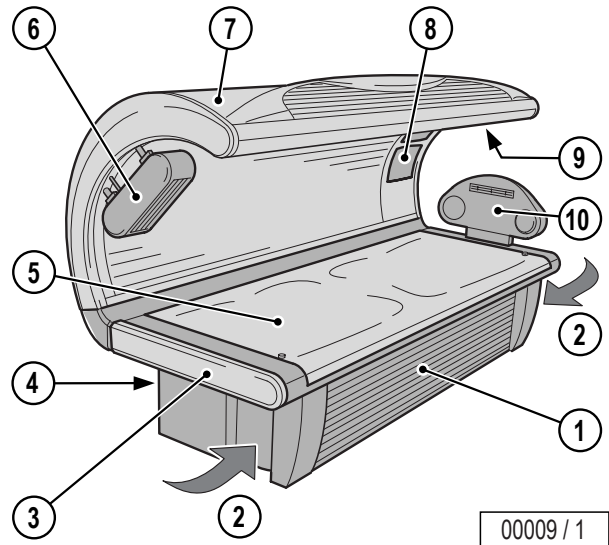
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**Device description**

1. Sunbed base
2. Inlet air (Air inlet for cooling the equipment)
3. Feet end
4. Central air outlet vent
5. Acrylic glass panel lower part
6. Surround fan (feet end)
7. Sunbed canopy
8. Face tanner
9. (UV high-pressure lamps)
10. Operating elements
11. Surround fan (head end)



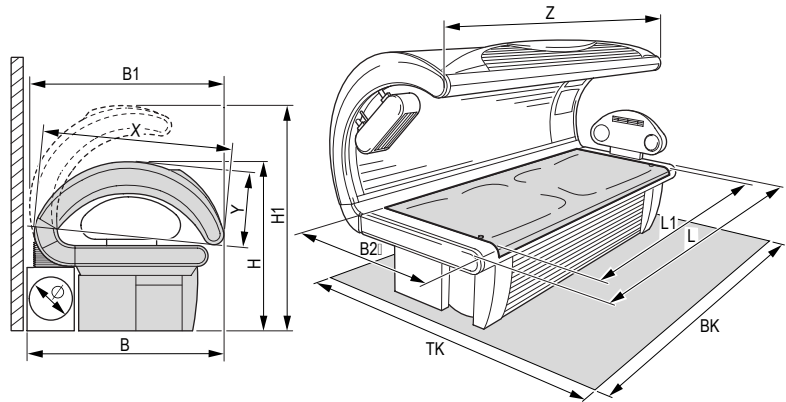
**Technical Data**

Electrical data	
Nominal power consumption:	6200 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	17 x 100 W
UV high pressure lamps	3 x 400 W
Lower part:	
UV low pressure lamps	15 x 100 W

Noise emission	
Acoustic pressure level:	74.0 db (A)
Inlet and exhaust air	
Temperature difference, supply/ exhaust air:	15 °C
Max. air requirement:	950 m³/h
Opt. ambient temperature:	25 °C
Max. ambient temperature:	40 °C
Max. inlet air temperature:	450 cm²
Exhaust cross section w/o exhaust system:	1300 cm²
Cabin inlet air cross section	490 cm²
Warm air return:	not possible

**Dimensions**

B	1023 mm
B1	970 mm
B2	730 mm
L	2250 mm
L1	1885 mm
H	1010 mm
H1	1250 mm
X	970 mm
Y	420 mm
Z	1885 mm
∅	250 mm
BK	2300 mm
TK	2000 mm



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**Maximum exhaust pipe length**

<b>Calculation base (without additional ventilator):</b>	
Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

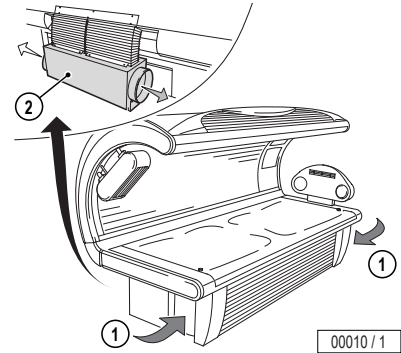
Corrugated pipe ∅	Roughness (at centre) k <sub>absolute</sub>	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m <sup>3</sup> /h	of pipe	of bend	pieces	m
250	8	950	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	8
					1	6
					2	4
					3	2

1) zeta value (ζ)

**Equipment cooling**

To cool the sunbed, cabin or studio air (inlet air) is drawn in at the head and feet ends of the sunbed base (1).

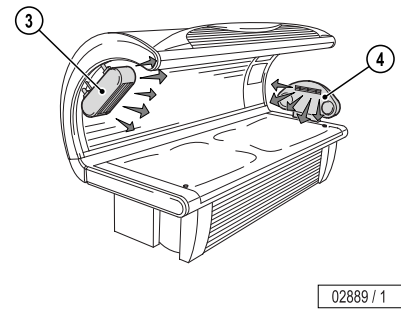
The inlet air is first cleaned in a filter, then fed past the hot UV low-pressure and high-pressure lamps and finally expelled on the left or right as warm exhaust air via the central exhaust air bracket (2).



**Surround cooling**

The body air for the person using the sunbed is supplied via fans at the head end (4) and feet end (3) by means of an incremental control device.

For this purpose the cabin or studio air is drawn in via air inlet slots and supplied to the user via outlet nozzles.

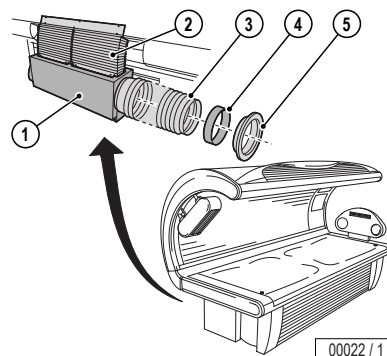


**Exhaust air accessories**

The appropriate corrugated pipe is 250 mm in diameter. With pipe lengths in excess of 4 meters, you will require an additional fan.

The size of the additional fan depends on the overall length of the exhaust channel passage and the number of sunbeds connected. For further advice, please consult your ventilation technician!

We offer various accessories that permit easier connection to a central exhaust system or to the individual device exhaust lines.



Item	Accessory parts	Article No.	Notes
1	Central exhaust air bracket, galvanized steel plate; length 952 mm, height 315 mm, depth 280 mm	3400570	Direct connection possibilities of a $\varnothing$ 250 mm circular corrugated pipe or a rectangular pipe with a cross section 320 x 270 mm. Connection is to the bottom right or bottom left - not to the top!
2	Central extraction adapter	3451640	Connection to the central exhaust air canal
3	Corrugated pipe ( $\varnothing$ 250 mm, 6 m length, flexible, grey) including 2 hose clips	3400580	-
4	Corrugated pipe connector piece ( $\varnothing$ 250 mm)	3400670	For connecting two corrugated pipes
5	Connector bracket for corrugated pipe ( $\varnothing$ 250 mm)	3450350	Connection of the corrugated pipes, e.g. to a canal

**Electrical connections**

Mains supply line	available
Electr. control line	Connection made on external contact point of the sunbed
Line for external music and channel selection	-

**Sound system**

	Article No.	Notes
Audio package	o -	
Loudspeaker set	M 3460010	

M = plus surcharge

o = not available

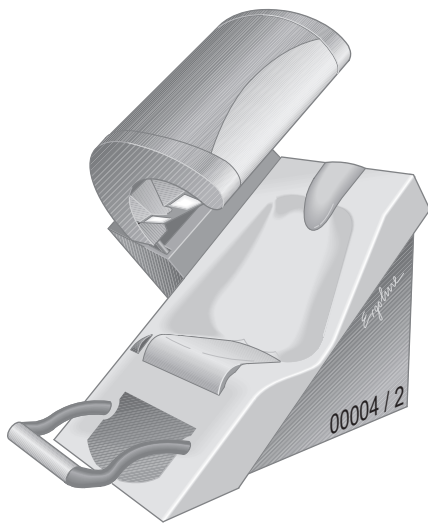


**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401070	With chip card terminal
MCS IV plus	3401050	With electronic coin tester
MCS VI	3401020	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner (not available)**

No air conditioner can be supplied with this device model.



Ultra

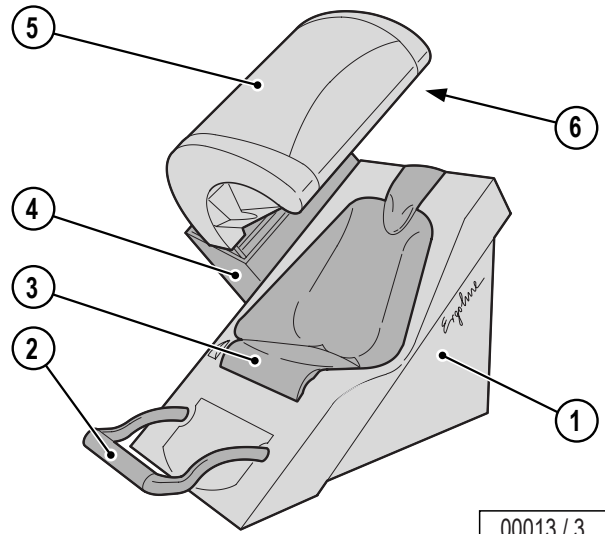
Classic 8000 Ultra

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Air conditioner (not available) . . . . .	5

**Device description**

1. Sunbed base
2. Adjustable footrest
3. Ergonomic bucket seat
4. Central air outlet vent
5. Sunbed canopy (with UV high-pressure lamps and surround air)
6. Control panel



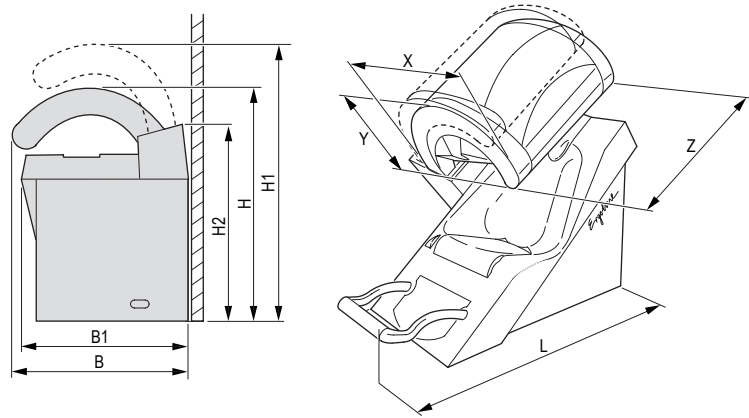
**Technical Data**

Electrical data	
Nominal power consumption:	5500 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
Performance:	
Canopy:	
Face tanner	
UV high pressure lamps	6 x 500 W
Hand tanner	
UV high pressure lamps	2 x 280 W

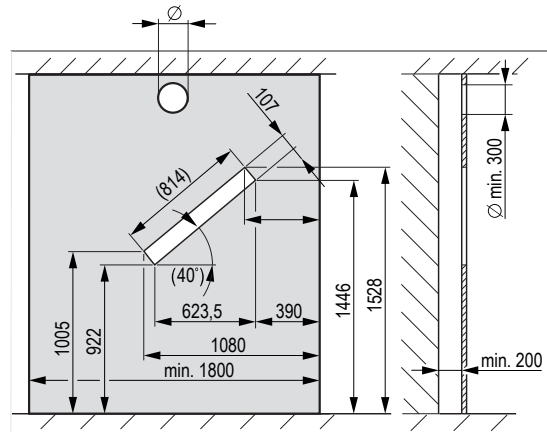
Noise emission	
Acoustic pressure level:	57.5 db (A)
Inlet and exhaust air	
Temperature difference, supply/ exhaust air:	8 °C
Max. air requirement:	1200 m³/h
Opt. ambient temperature:	25 °C
Max. ambient temperature:	40 °C
Max. inlet air temperature:	430 cm²
Exhaust cross section w/o exhaust system:	2200 cm²
Cabin inlet air cross section	not possible

Dimensions

B	1350 mm
B1	1120 mm
L	1710 mm
H	1730 mm
H1	2010 mm
H2	1460 mm
X	1200 mm
Y	500 mm
Z	890 mm
∅	300 mm
BK	2000 mm
TK	2000 mm



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Planning example

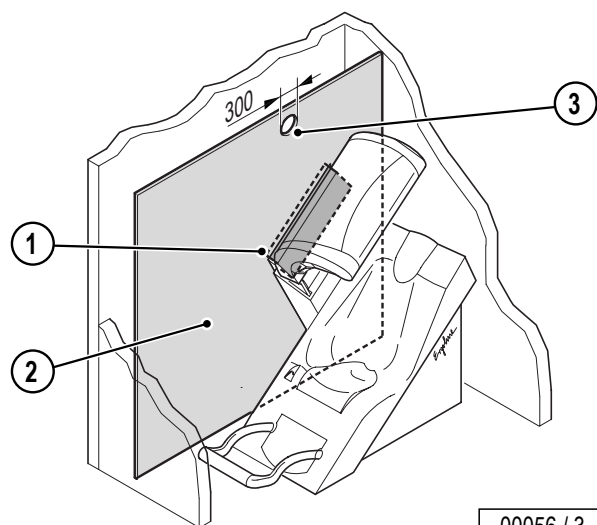
A central air exhaust is only possible via a connection to a so-called double rear wall.

This intermediate wall (2) with exhaust air connection (1) (e.g. chipboard) is designed to fit directly against the rear side of the sunbed and serves as a channel for the exhaust air upwards, if required up to a hanging ceiling.

The corresponding dimensions of such a rear wall for cutting, as well as its positioning, can be taken from the Chapter "Dimensions". Warm air recycling to the studio air conditioning is not provided with this type of tanning equipment.

1. Exhaust air connection
2. Intermediate wall (e.g. pressed chip board)
3. Connection for exhaust air hose

The additional exhaust air connection is required as a necessary accessory in a double rear wall (see Chapter "Exhaust air accessories").

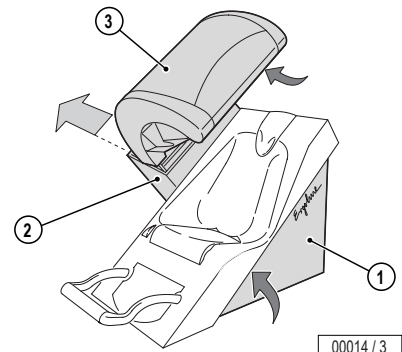


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**Equipment cooling**

To cool the equipment, cabin or studio air is drawn in beneath the front panel (1) and at the front edge of the sunbed canopy (3) (inlet air).

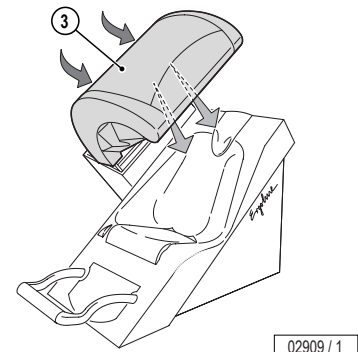
The air is first cleaned in a filter package, then fed past the hot UV high-pressure lamps and finally expelled as warm air via the exhaust air nozzles (2) at the rear of the sunbed.



**Surround cooling**

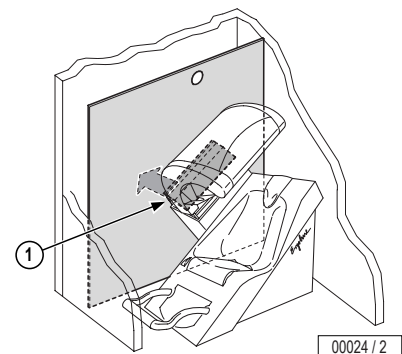
Surround air is supplied to the user via an infinitely adjustable fan in the canopy (3) of the partial tanner.

Cabin or studio air is drawn in via air inlet slots on the outside of the sunbed canopy (3) and then fed towards the face and upper body of the user via an asymmetrically arranged, adjustable outlet nozzle.



**Exhaust air accessories**

Exhaust air can only be connected to a central exhaust air system via a double rear wall.



Item	Accessory parts	Article No.	Notes
1	Exhaust air connection to connection on double rear wall	3451860	Without warm air recycling

**Electrical connections**

Mains supply line	Provided
Electr. control line	approx. 1000 mm
Line for external music and channel selection	approx. 500 mm

**Sound system**

	Article No.	Notes
Audio package	M 3452050	Audio unit; volume control and channel selection switch are integrated in the control cockpit
Loudspeaker set	-	

M = plus surcharge

**Controls**

Control	Article No.	Notes
MCS III plus hand-held remote control	3401060	With chip card terminal
MCS IV plus	3401040	With electronic coin tester
MCS VI	3400970	With electronic coin tester + chip card terminal
Studiopilot	3400990	With electronic coin tester + chip card terminal
Studio-Manager	3452900	Software

**Air conditioner (not available)**

No air conditioner can be supplied with this device model.

## Contents

**Planning requirements** . . . . . 2

- Inlet and exhaust connection with and without double rear wall . . . . . 3
- Inlet and exhaust air connection via a hanging studio ceiling with a separate exhaust air ducting . . . . . 5
- Inlet and exhaust air connection via a hanging studio ceiling without an exhaust air ducting system . . . . . 6

Planning inlet air and ...

## Planning requirements

### Points that you must observe when planning inlet air and exhaust air ducting in the studio.

When planning ventilation in the studio, you must ensure that the required air throughput for each piece of equipment is constant over the entire tube or hose system and is not reduced by obstructions.

To support the flow of exhaust air throughput, it may be necessary to take an additional fan in the system into account, if applicable (see calculation example for design of additional fan).

The inlet air temperature must not exceed 40 °C. Temperatures in excess of 40 °C could impede the operation of the sunbed.

Additional filtering of the inlet air is especially recommended.

There are 3 possible inlet and exhaust air assembly variants for Ergoline sunbeds. The following planning examples can be applied to all Ergoline sunbeds contained in the sunbed range presented in this Planning Manual. Additional information is given in the respective device descriptions for devices that make special requirements on installation.

When fitted with the correct central bracket for inlet and exhaust air, Ergoline sunbeds can also be operated with a free air outlet, i.e. without being connected to a ventilation system in the studio.

Installing “exhaust air ducting via a suspended ceiling and with a double rear wall” is an optically elegant solution without using the central exhaust air bracket.

If you want to use hot air recirculation in conjunction with an exhaust duct, the exhaust duct cannot be routed above a suspended ceiling.



### Caution!

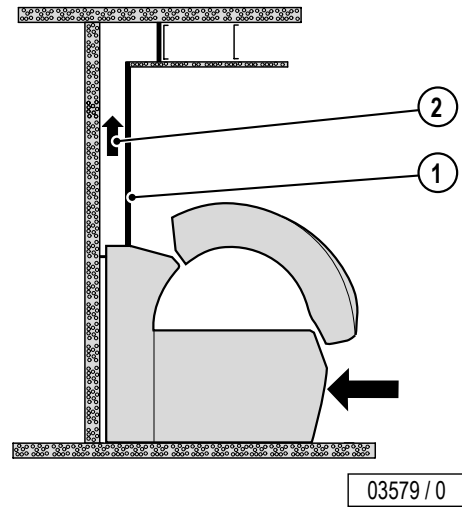
Before putting a tanning device into operation, the transport pallet must be removed from under the tanning unit. Installation on the transport pallet may result in damage to the device due to obstruction of the air routing.



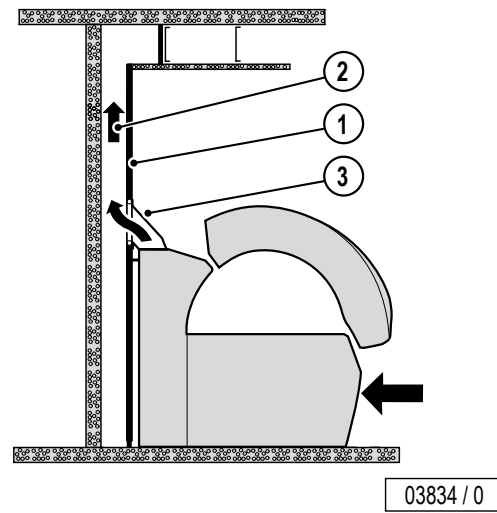
Inlet and exhaust connection with and without double rear wall

With double rear wall

**Without exhaust-air adapter:** An intermediate wall (1) (e.g. chipboard) tightly enclosing the sunbed at the rear serves as an upward channel for the exhaust air (2), if required right up to the hanging ceiling. So that the exhaust air is properly extracted, a slight vacuum is required behind the intermediate wall (1); an auxiliary fan must be installed if necessary. This installation variant is used mostly for single devices.



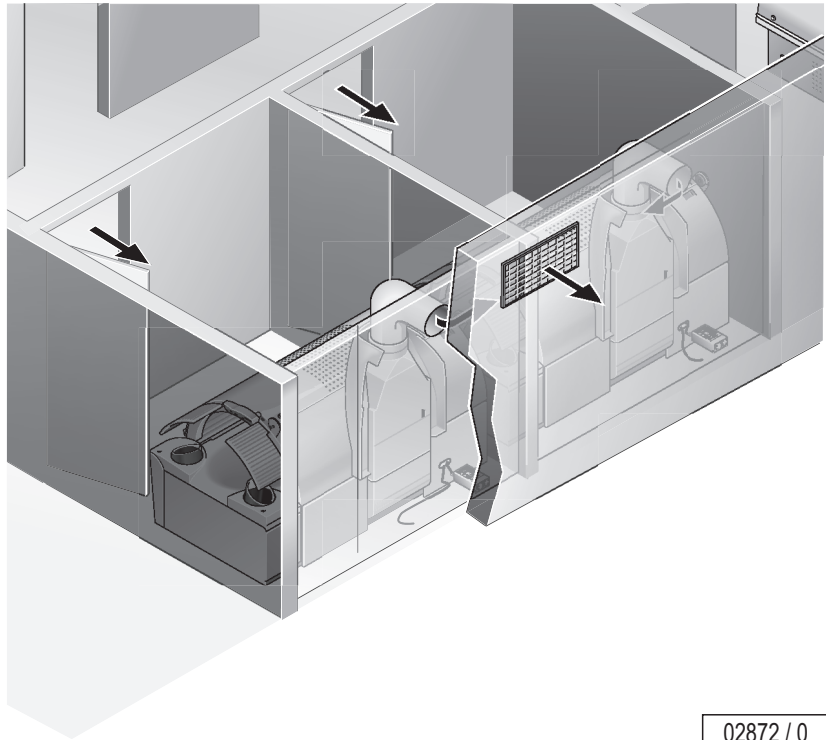
**With exhaust air adapter:** A cut-out is mounted on the intermediate wall. A rubber profile on the exhaust-air adapter (3) ensures an air-tight seal on the intermediate wall.



Planning inlet air and ...

**Variant A, transverse ventilation:**

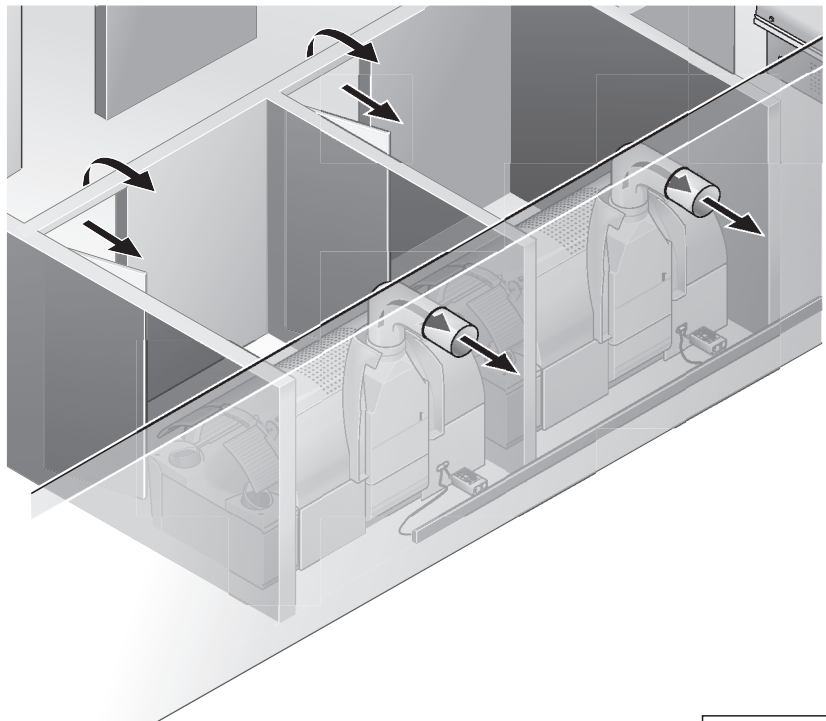
The equipment exhaust air (2) is fed upwards through the exhaust air channel (space behind the double rear wall, approx. 15 cm) underneath the studio ceiling and is expelled there through opposing exhaust air openings.



02872 / 0

**Variant B, direct exhaust air:**

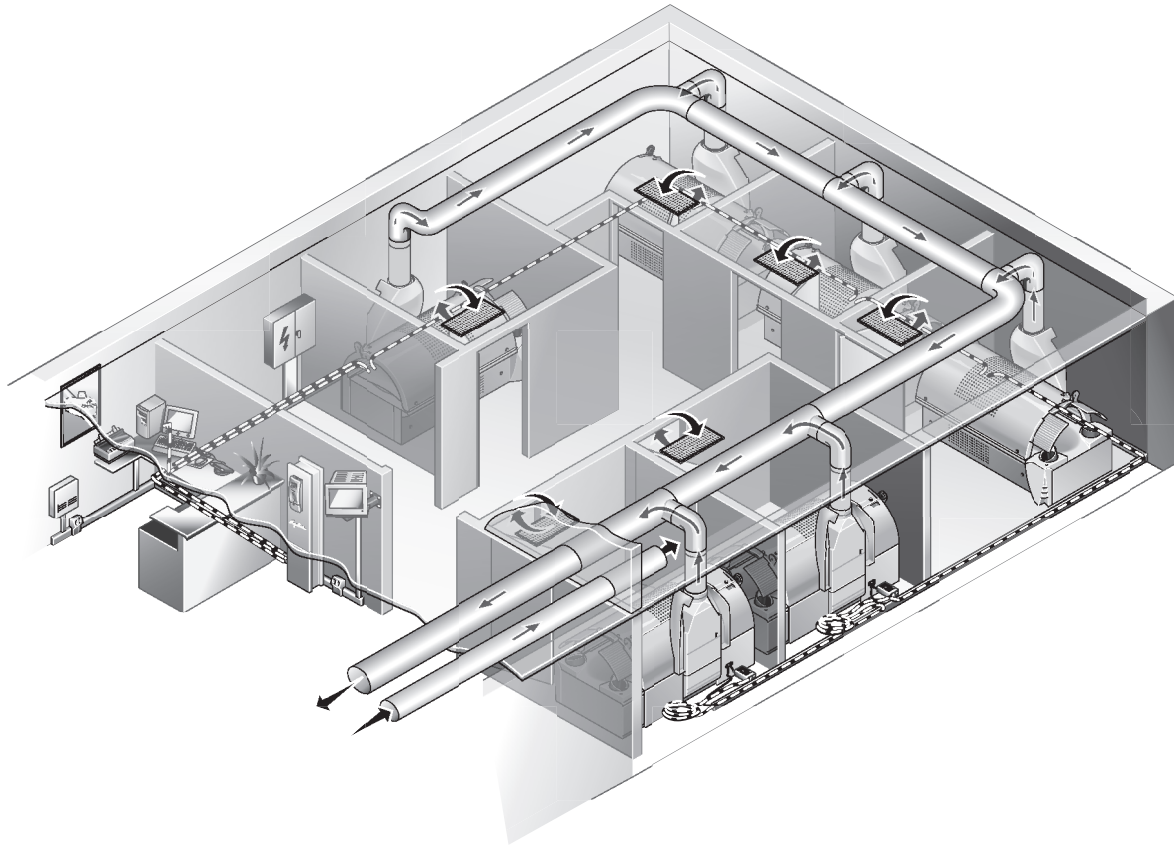
The equipment exhaust air (2) is channelled directly outside through the exterior wall.



02873 / 0

Planning inlet air and ...

Inlet and exhaust air connection via a hanging studio ceiling with a separate exhaust air ducting



Planning inlet air and ...

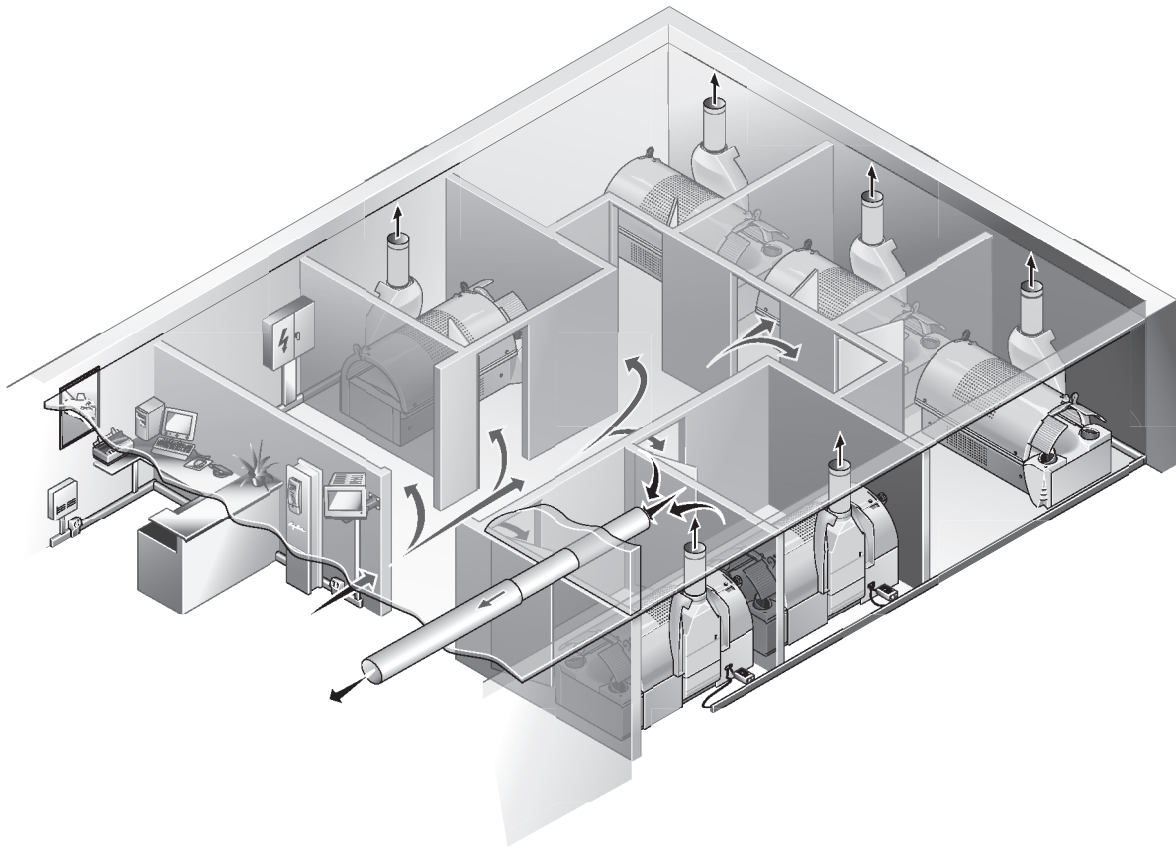
02875 / 0

To utilise all the benefits of the innovative ventilation concept of Ergoline sunbeds and to prevent the unnecessary heating of the studio, we recommend that the inlet air for cooling the air conditioning units be supplied from outside via a filtered (as airtight as possible) hanging ceiling and that the exhaust air be expelled to the outside via a separate hose or duct system.

Exhaust air connection is made using a separate, heat-insulated ducting system (1) inside a hanging studio ceiling. The space in between the room ceiling and the hanging ceiling serves as a channelling space for the equipment inlet air.

Inlet and exhaust air connection via a hanging studio ceiling without an exhaust air ducting system

Planning inlet air and ...



02876 / 0

If Ergoline sunbeds are connected with the exhaust air ducting to a hanging studio ceiling without a separate exhaust air ducting system (i.e. the space in between is all that is used for exhaust air transport!), the required inlet air must be supplied from the studio ambient air.

In such cases, it is imperative that you ensure that the inlet air is not drawn in from the warm air in the studio ceiling area as this could result in the maximum permissible temperature of 40 °C being exceeded.

## Contents

Connection options ..... 2

Connection to Compatible Time Control Devices  
(Open Sun, Classic) ..... 3

Connection to Compatible Time Control Devices  
(Excellence, Evolution, Advantage, Ambition,  
Lounge) ..... 3

Connection to Ergoline Coin Boxes (Open Sun,  
Classic) ..... 4

Connection to Ergoline Coin Boxes (Excellence,  
Evolution, Advantage, Ambition, Lounge) ..... 5



## Connection options

The Ergoline sunbeds can be connected either to a remote control or a coin box. It is also possible to connect them to time controls from other suppliers.



### Caution!

- The device operating time must be dual controlled with a timing device to the standards EN 60335-2-27 and A1 2000 Section 22.108 and 22.109.
- In the case of failure of the controls, it must be ensured that the sunbed is automatically switched off at the most after <110% of the selected tanning time.
- If a timer with a longer running time is used, this can result in injuries to the skin, and in the long run in skin disease.

Depending on the sunbed, some change-overs will be necessary for connection to the various control devices. For further information on this subject, please refer to the descriptions of the respective sunbeds.

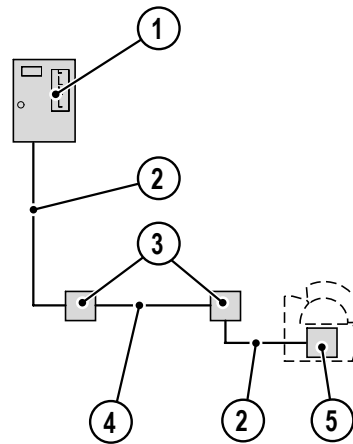
**Connection to Compatible Time Control Devices (Open Sun, Classic)**

When connecting a compatible time control, the voltage must be supplied from the sunbed.

The sunbed must only be operated with timer control, 30 minutes max. running time. The control scale on the timer must match the time recommended in the tanning program.

**Legend:**

- 1. Coin device without microprocessor
- 2. Flexible control line H 05 VV - F 7 G 1.5
- 3. Socket
- 4. Installed control line NYM 7 x 1.5 mm<sup>2</sup>
- 5. Plug (Art. No. 70010440 / Part No. 10440)



01588 / 1

**Connection to Compatible Time Control Devices (Excellence, Evolution, Advantage, Ambition, Lounge)**

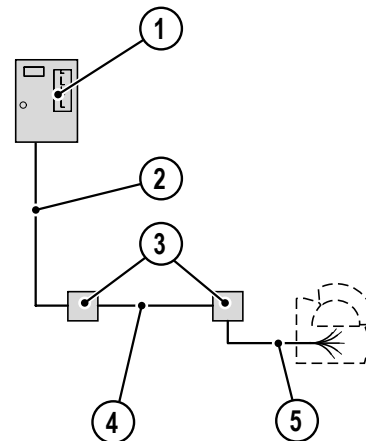
The wiring is connected directly to the connection terminals of the sunbed.

When connecting a compatible time control, the voltage must be supplied from the sunbed.

The sunbed must only be operated with timer control, 30 minutes max. running time. The control scale on the timer must match the time recommended in the tanning program.

**Legend:**

- 1. Coin device without microprocessor
- 2. Flexible control line H 05 VV - F 7 G 1.5
- 3. Socket
- 4. Installed control line NYM 7 x 1.5 mm<sup>2</sup>
- 5. Plug (Art. No. 70010440 / Part No. 10440)



03584 / 0

Controls

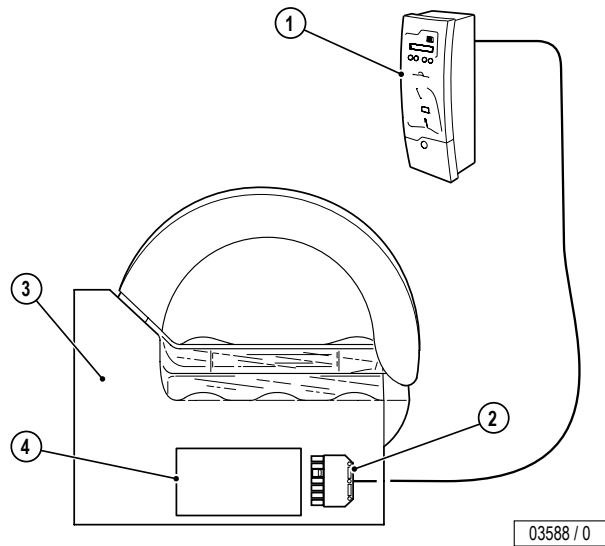
**Connection to Ergoline Coin Boxes (Open Sun, Classic)**

Should the service cable for the coin device with microprocessor be extended, a flexible and shielded control line (8 x 0.5 mm<sup>2</sup> Art. No. 70060740 / Part No. 60740) should be laid.

For further information for installation of coin devices and accessories that can be supplied, please refer to the individual device descriptions.

**Legend:**

- 1. Coin device with microprocessor
- 2. Plug (Art. No. 70010683 / Part No. 10683)
- 3. Tanning device
- 4. Parts support (controller)





**Connection to Ergoline Coin Boxes** (Excellence, Evolution, Advantage, Ambition, Lounge)

The plug (3) on the coin device (1) must be removed if necessary. The control cable (2) is connected directly to the connection strip (5) of the sunbed. The red and the black wires (4) are to be insulated individually.

Should the service cable for the coin device with microprocessor be extended, a flexible and shielded control line (8 x 0.5 mm<sup>2</sup> Art. No. 70060740 / Part No. 60740) should be laid.

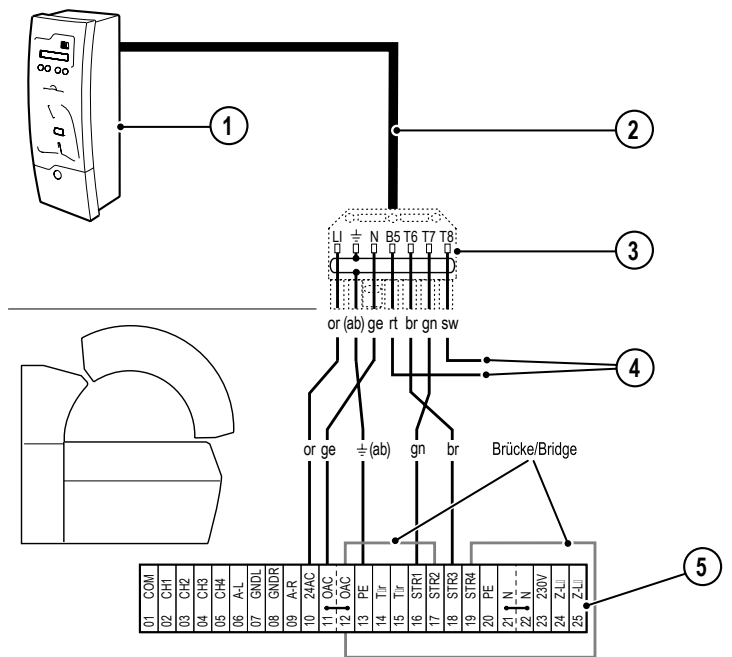
For further information for installation of coin devices and accessories that can be supplied, please refer to the individual device descriptions.

**Legend:**

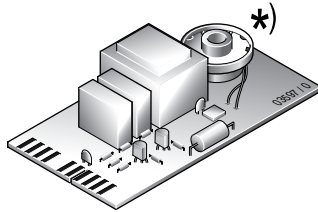
1. Coin device with microprocessor
2. Flexible, shielded control cable (10 m) included as standard equipment
3. Plug
4. Wires to be insulated (red and black)
5. Connection strip in sunbed

**Wires:**

- sw – black
- gn – green
- br – brown
- rt – red
- ge – yellow
- or – orange
- ab – shielding



03470 / 1



\*) The circuit board performance MCS is the interface between the hand-held remote control and the professional sunbed devices from Ergoline without inherent electronics (Ergoline 200/300, Classic 200/300).

**Article No.: 3401060**

without performance circuit board

**Article No.: 3401070**

with performance circuit board\*)

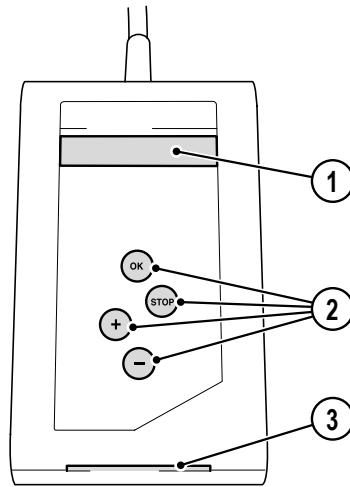
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Connection diagram for Open Sun, Classic.....	3
Connection diagram for Excellence, Evolution, Advantage, Ambition, Lounge.....	3

## Device description

1. Display
2. Operating keys
3. Chip card slot

Dual safety cutout switch to standards  
EN 60335-2-27 and A1 2000 sections  
22.108 and 22.109



04178 / 0

## Technical Data

Equipment:	Relay control for connection to a sunbed, with chip card reader
Operating voltage:	Supply from the respective sunbed with a 7-pole plug / direct connection
Colour:	Techno Grey
Max. ambient temperature:	0 to 40 °C
Max. relative air moisture content:	70 %
Max. storage temperature:	0 to 50 °C
Dimensions [mm]:	
width x height x depth	100 x 180 x 36

## Accessories

### Accessories supplied

Accessories	Article / Part No.	Notes
Master Card (1 piece)	-	
Control line (5 m)		Connector plug (extra-low voltage)

Connection diagram for Open Sun, Classic

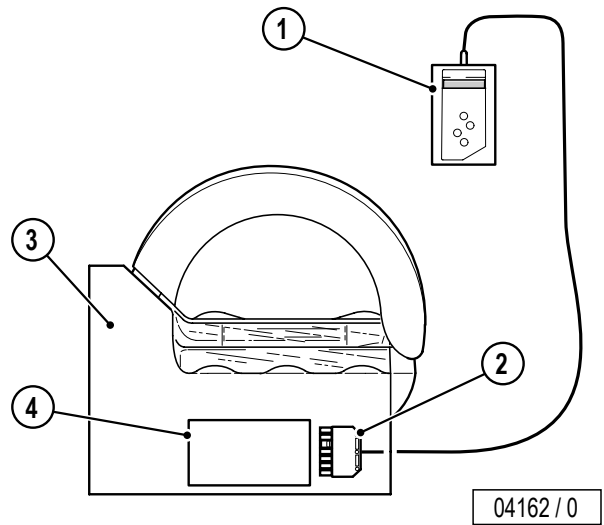
Legend:

- 1. Remote control with microprocessor
- 2. Plug
- 3. Sunbed
- 4. Parts support (controller)



**Caution!**

The green/black plug may only be used on the Ergoline hand-held remote control.



## Connection diagram for Excellence, Evolution, Advantage, Ambition, Lounge

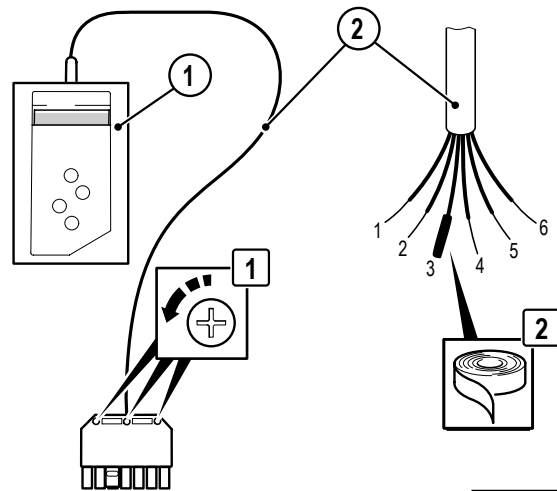
The plug on the hand-held remote control (1) must be removed. The control cable (2) is connected directly to the connection strip (3) of the sunbed. The white wire is to be insulated.

### Legend:

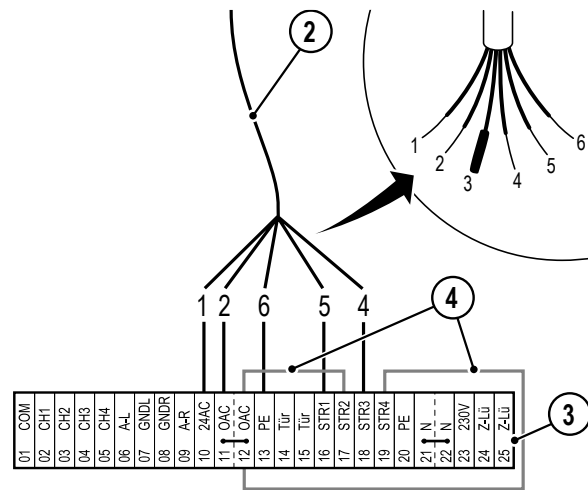
1. Hand-held remote control with micro-processor
2. Connection cable (control line)
3. Bridge
4. Connection strip in sunbed

### Wires:

- 1 – pink
- 2 – yellow
- 3 – white
- 4 – brown
- 5 – green
- 6 – green-yellow



04161 / 0



04160 / 0



For automatic power systems, the ICS unit is the chip card terminal for a fair and comprehensible calculation: It calculates individually the credits to be deducted for the tanning performance determined personally.

The ICS should preferably be installed in a cabin for controlling an APS tanning system, but it can also be added to universal control systems in a databus.

ICS unit

## Contents

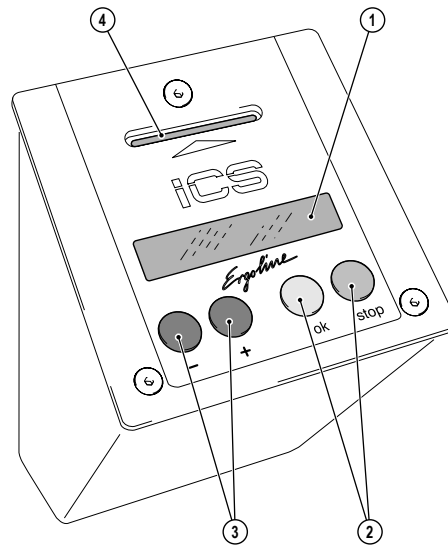
<b>Device description</b> .....	<b>2</b>
<b>Technical Data</b> .....	<b>2</b>
<b>ICS unit functions</b> .....	<b>2</b>
<b>Accessories</b> .....	<b>3</b>
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<b>Dimensions and mounting</b> .....	<b>4</b>
Dimensions of ICS .....	4
Assembly variations .....	4
<b>Connection diagram</b> .....	<b>6</b>

## Device description

1. Display
2. Buttons input confirmation (OK) and abort (Stop)
3. Adjust buttons (+/-)
4. Chip card entry<sup>1)</sup>

Not shown: Connection lines

Dual safety cutout switch to standards EN 60335-2-27 and A1 2000 sections 22.108 and 22.109



- 1) Chip card (customer)  
Studio card (Studio personnel)  
Master card (Studio operator)

## Technical Data

Equipment:	Supply over external power supply
Operating voltage:	24 V AC
Colour:	Light silver matt
Max. ambient temperature:	0 to 40 °C
Max. relative air moisture content:	70 %
Max. storage temperature:	0 to 50 °C
Connections for external devices:	none
Dimensions [mm]:	
width x height x depth	132 x 200 x 122
Weight:	2.5 kg

## ICS unit functions

Please consult the sale documents for additional information on the functions provided by the ICS unit.

### Control unit for APS tanning systems

- Operation by the client using chip card payment
- Controls APS tanning systems in "Time" or "Dose" mode
- Databus capable
- Direct control of a tanning system possible
- Installation preferably in the cabin

### Counter terminal (loading station for chip cards at the counter)

- For direct loading and reading of chip cards by studio staff
- No tanning system control
- Installation without a databus connection at the counter possible
- Databus capable

**Accessories**

**Accessories Supplied**

Accessories	Part no.	Notes
Master card (1 unit)	–	
Studio card (1 unit)	TN 11673	
Operating instructions	TN 834678	
Assembly instructions/drilling template	TN 842723	
5 m lead	TN 61439	Direct connection without plug
Power supply unit	TN 12180	

**Accessories (plus surcharge)**

Accessories	Article no.	Notes
Master card (Information and service card)	–	Only one card required per studio. If the Master card is lost, please contact Customer Service.
Studio card	3401010	10 Pieces (Personnel card)
Chip cards with printed matter	3400950	100 Pieces per unit
Chip cards with printed matter	3452470	400 Pieces per unit
Chip cards without printed matter	3800050	100 Pieces per unit
Tanner interface 2	3452910	
TV interface	3452380	
Control line	3451040	per 100 metres
Extension for connecting line	3400610	8 x 0.56 mm <sup>2</sup> per running meter

**Accessories from the dealership**

Accessories	Article no.	Notes
Cable duct, e.g. LF, halogen-free	–	Manufacturer: Tehalit <a href="http://www.tehalit.com">www.tehalit.com</a>

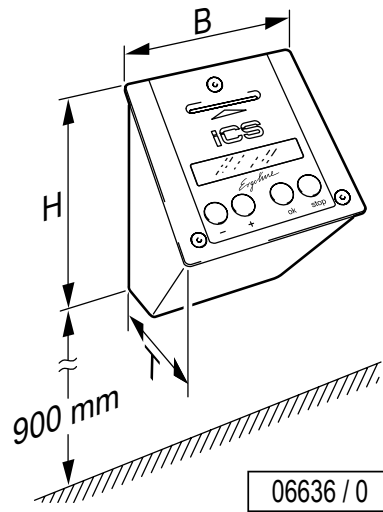
ICS unit



Dimensions and mounting

Dimensions of ICS

H: 200 mm  
 B: 132 mm  
 T: 122 mm



Assembly variations

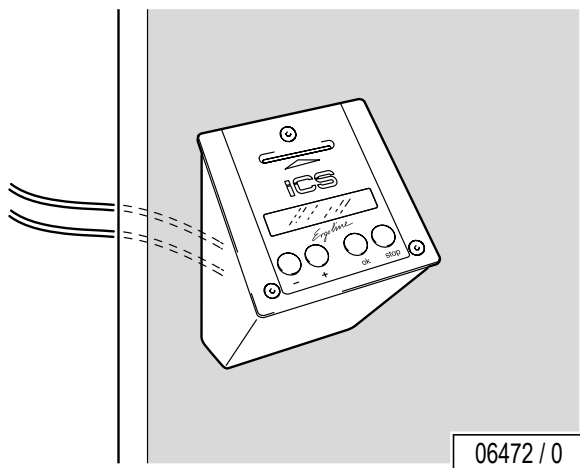
The system must be assembled only on a solid wall. Consult the assembly instructions for detailed information (Order no. 842723).



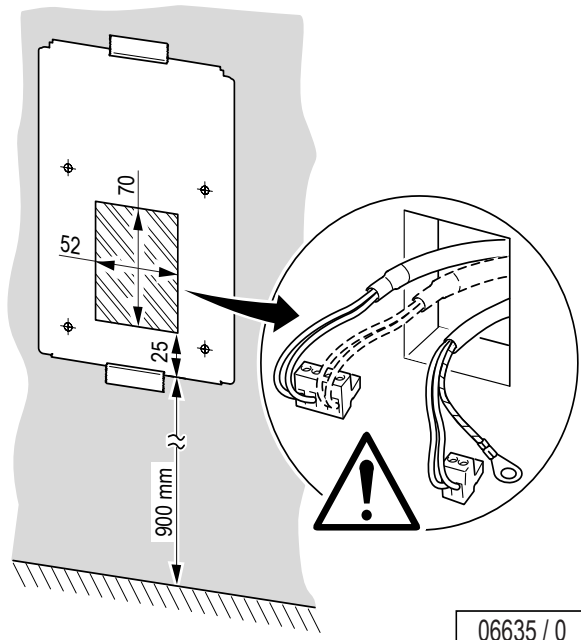
Note!

As a power supply unit is used, a socket in the immediate vicinity is necessary. Power supplied via the tanning system is not allowed!

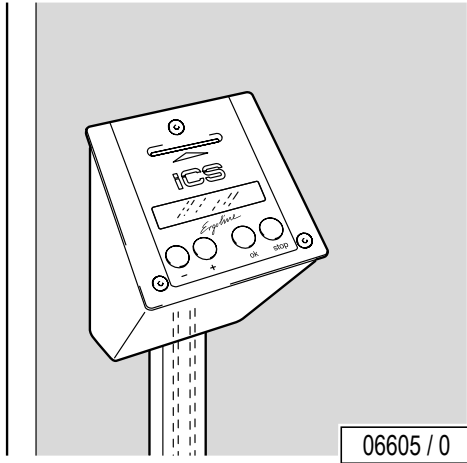
Assembly variations: On the wall, cable bushing through the wall



When assembling on the wall, please allow for the corresponding cable bushing:



Assembly variations: On the wall, cable bushing on the plaster



No cable bushing is necessary in this case.  
We recommend covering the cable with a cable duct.

**Connection diagram**

The ICS unit is usually connected directly to a tanning system, but it can also be operated in a network alongside other coin systems or studio pilots.

**Connection requirements:**

The ICS unit can **only** be connected in conjunction with tanner interface 2. Tanner interface 1 is not compatible. Please consult the assembly instructions which accompany the ICS unit for details.

**Connection as control unit – terminal unit** (in a databus or connected directly to the tanning system):

The connection is made through the X3 terminal on the connection strip in the tanning system.

**Connection as control unit in a databus – not as terminal unit:**

For other modes of connection, refer to the wiring diagram on the control box or ask the Customer Service department for information.

**Connection as counter terminal**

The ICS unit is either incorporated into a databus: Connection is the same as connection as a control unit.

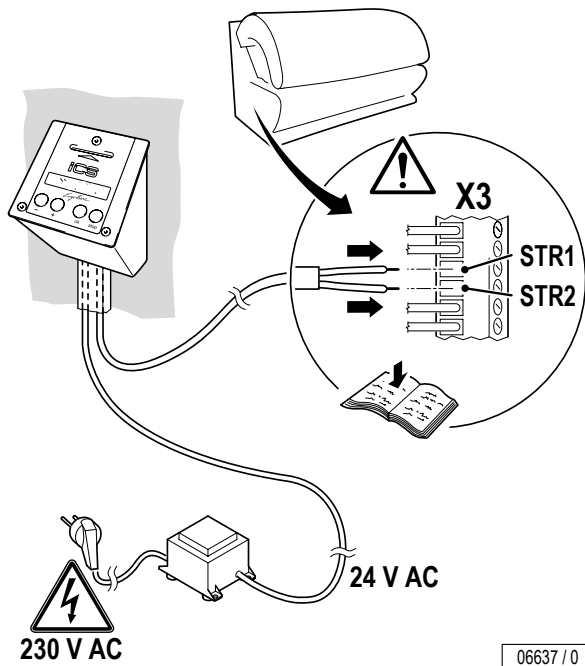
Or the ICS unit is operated in isolation without a tanning system: In this case, no connection is made.

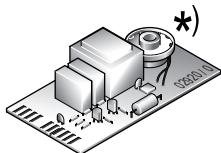


**Note!**

If it is used as a counter terminal in a databus, you must set a cabin number in the ICS which is unoccupied (see operating instructions for the ICS unit).

ICS unit





\*) The circuit board performance MCS is the interface between the hand-held remote control and the professional sunbed devices from Ergoline without inherent electronics (Ergoline 200/300, Classic 200/300).

**Article No.: 3401040**  
without performance circuit board

**Article No.: 3401050**  
with performance circuit board\*)

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**Dimensions**..... 3

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**Installation Dimensions**..... 4

**Connection diagram for Open Sun, Classic**..... 5

**Connection diagram for Excellence, Evolution, Advantage, Ambition, Lounge**..... 5

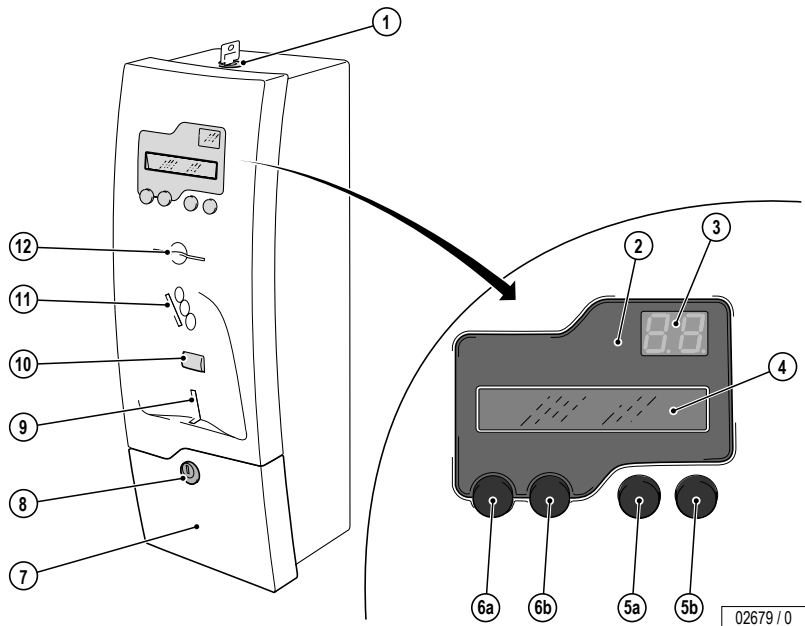
**MCS IV plus**

## Device description

1. Housing lock; simultaneous switching from operation to the menus (info, service, config.)
2. Control panel
3. Time display (remaining time)
4. Text display
- 5a Button input confirmation (T3)
- 5b Button abort (T4)
- 6a Adjust button - (T1)
- 6b Adjust button + (T2)
7. Coin box
8. Coin box lock
9. Coin return slot
10. Coin return button
11. Coin insert<sup>1)</sup>
12. Chip card slot w/o function

1) 0.5, 1 and 2 Euro coins; tokens (27 mm brass tokens)

Not shown: Mains supply line



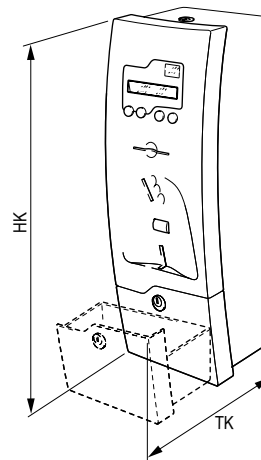
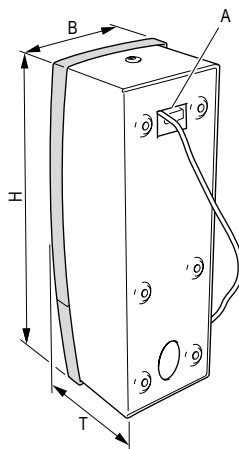
Dual safety cutout switch to standards EN 60335-2-27 and A1 2000 sections 22.108 and 22.109

## Technical Data

Equipment:	with electronic coin tester
Model:	Relay control for connection to a sunbed
Assembly/Positioning:	Wall-mounting/flush-mounting
Coin box removal:	Lockable coin box at device or central connection by means of coin tube
	<p><b>i Note!</b> When a coin tube is connected, the tube for catching the coins must be led through the rear wall of the coin drawer. Rated break points are predetermined (see installation instructions Part No. 86866).</p>
Operating voltage:	Supply from the respective sunbed with a 9-pole plug
Colour:	Light silver matt
Max. ambient temperature:	0 to 40 °C
Max. relative air moisture content:	70 %
Max. storage temperature:	0 to 50 °C

## Dimensions

Height	H	[mm]	475
Width	B	[mm]	165
Depth	T	[mm]	162
	HK	[mm]	480
Space requirement	TK	[mm]	170
Connection control line	A		
Weight (without coins)		[kg]	7.4



02921 / 0

## Accessories

### Accessories supplied

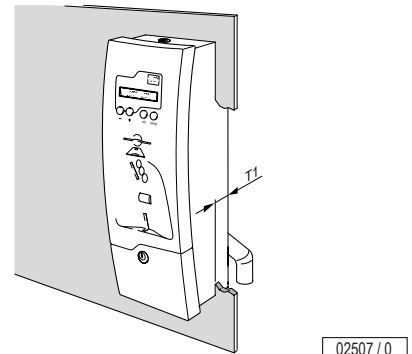
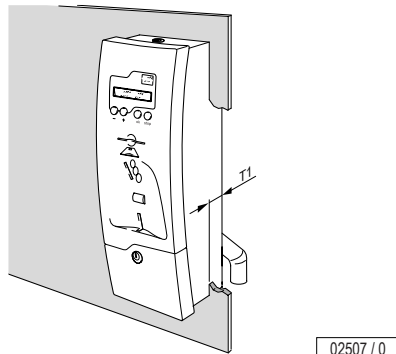
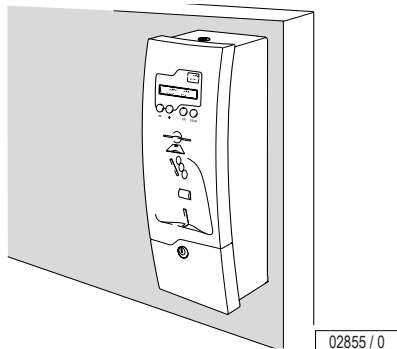
Accessories	Article / Part No.	Notes
2 Keys for the housing	–	
2 Keys for the coin box	–	
Drilling template	86820	
Operating instructions	800068	
Installation instructions	86866	
Mains supply line	61439	

### Accessories (plus surcharge)

Accessories	Article / Part No.	Notes
Brass tokens for coin devices	3400530	50 Pieces per unit
Extension for connecting line	3400610	8 x 0.5 mm <sup>2</sup> per running meter
Plug and socket part	3400540	For connecting the extension lead to the connecting line.
Coin tube	3401030	For connecting to a central coin collecting box.
Special accessories	3452340	For connecting the coin device to tanning devices of other manufacturers.

**Installation Dimensions**

You can choose between the following installation variants:



**Installation variation Against the wall**

The installation of the box must only be undertaken against a solid (e.g. brick) wall.  
Detailed information can be found in the installation instructions (Part No. 86866).  
When installing against the wall, please make sure that a corresponding cable feed is available.

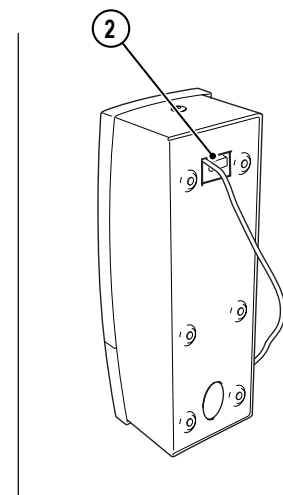
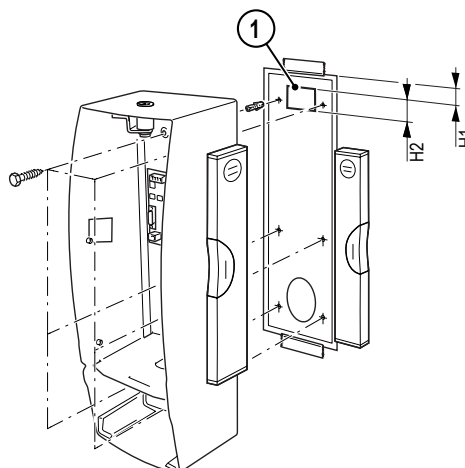
- 1. Cable feed in the wall
  - 2. Cable feed in the rear wall of the coin housing
- H1 35 mm  
H2 38 mm

**Installation variation In the wall**

The maximum built-in depth T1 is 55 mm.  
When installing, ensure that there is a stable backing. Detailed information can be found in the installation instructions (Part No. 86866).

**Installation variation In the tower**

Further information can be found in the description of the tower.



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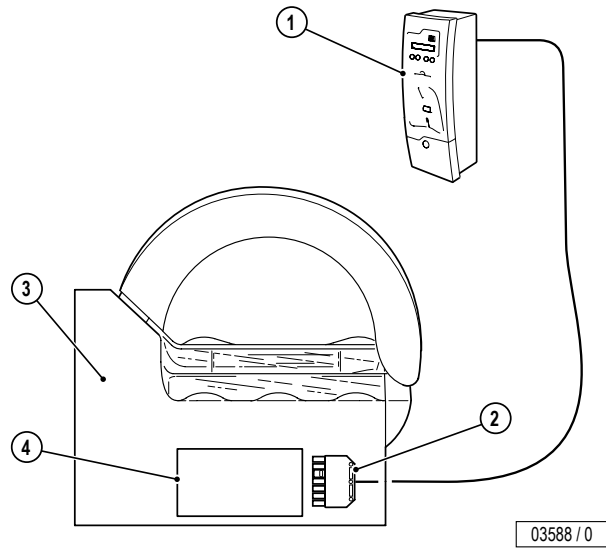
**Installation variation Tanning device**

See Ergoline „Lounge“.

**Connection diagram for Open Sun, Classic**

**Legend:**

- 1. Coin device with microprocessor
- 2. Plug (Art. No. 70010683 / Part No. 10683)
- 3. Sunbed
- 4. Parts support (controller)



**Connection diagram for Excellence, Evolution, Advantage, Ambition, Lounge**

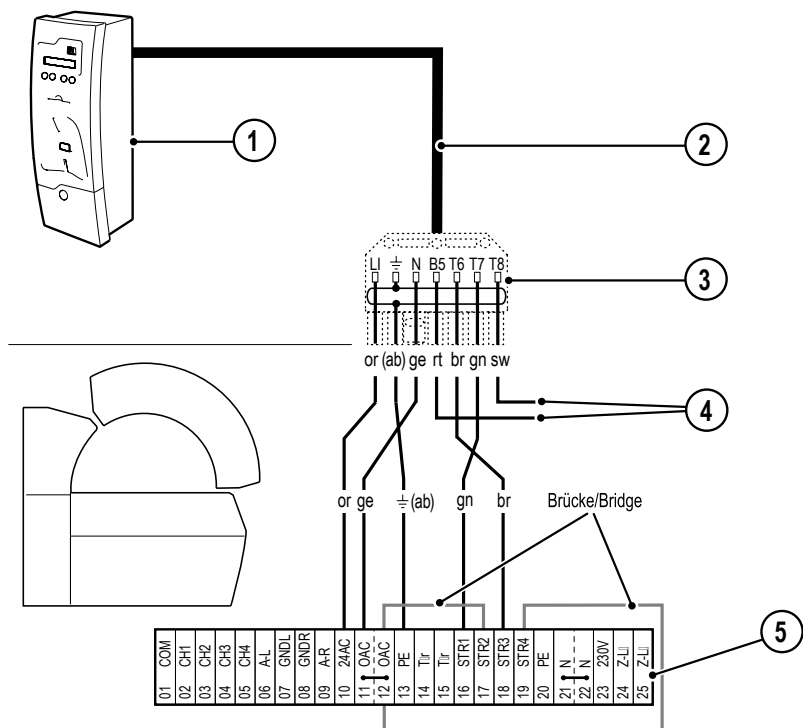
The plug (3) on the coin device (1) must be removed if necessary. The control cable (2) is connected directly to the connection strip (5) of the sunbed. The red and the black wires (4) are to be insulated individually.

**Legend:**

- 1. Coin device with microprocessor
- 2. Flexible, shielded control cable (10 m) included as standard equipment
- 3. Plug
- 4. Wires to be insulated (red and black)
- 5. Connection strip in sunbed

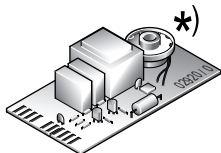
**Wires:**

- sw – black
- gn – green
- br – brown
- rt – red
- ge – yellow
- or – orange
- ab – shielding



MCS IV plus





\*) The circuit board performance MCS is the interface between the hand-held remote control and the professional sunbed devices from Ergoline without inherent electronics (Ergoline 200/300, Classic 200/300).

**Article No.: 3400970**  
without performance circuit board

**Article No.: 3401020**  
with performance circuit board\*

**Contents**

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**Dimensions**..... 3

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**Installation Dimensions**..... 4

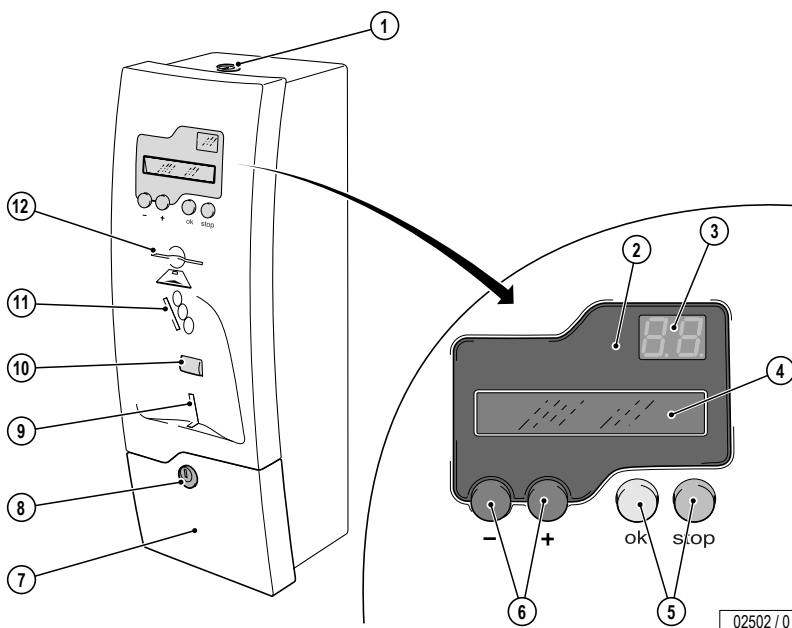
**Connection diagram for Open Sun, Classic**..... 5

**Connection diagram for Excellence, Evolution, Advantage, Ambition, Lounge**..... 5

MCS VI

Device description

1. Housing lock
2. Control panel
3. Time display (remaining time)
4. Text display
5. Buttons input confirmation (OK) and abort (Stop)
6. Adjust buttons (+/-)
7. Coin box
8. Coin box lock
9. Coin return slot
10. Coin return button
11. Coin insert<sup>1)</sup>
12. Chip card entry<sup>2)</sup>



Not shown: Mains supply line

- 1) 0.5, 1 and 2 Euro coins; tokens (27 mm brass tokens)
- 2) For Chip Card (customer)  
Studio Card (Studio personnel)  
Master Card (Studio operator)

Dual safety cutout switch to standards  
EN 60335-2-27 and A1 2000 sections  
22.108 and 22.109

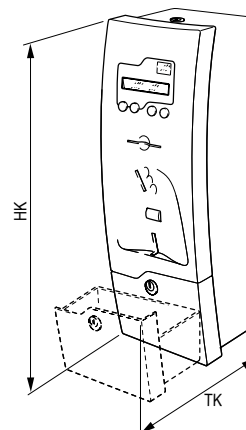
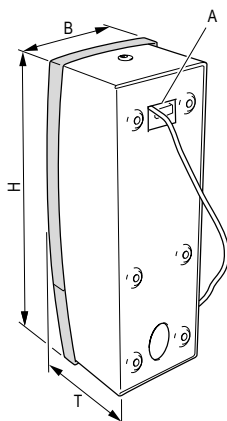
MCS VI

Technical Data

Equipment:	with electronic coin tester and chip card terminal
Model:	Relay control for connection to a sunbed
external connections:	Serial printer interface
Assembly/Positioning:	Wall-mounting/flush-mounting
Coin box removal:	Lockable coin box at device or central connection by means of coin tube
	<p><b>i Note!</b> When a coin tube is connected, the tube for catching the coins must be led through the rear wall of the coin drawer. Rated break points are predetermined (see installation instructions Part No. 86866).</p>
Operating voltage:	Supply from the respective sunbed with a 9-pole plug
Colour:	Light silver matt
Max. ambient temperature:	0 to 40 °C
Max. relative air moisture content:	70 %
Max. storage temperature:	0 to 50 °C

## Dimensions

Height	H	[mm]	475
Width	B	[mm]	165
Depth	T	[mm]	162
	HK	[mm]	480
Space requirement	TK	[mm]	170
Connection control line	A		
Weight (without coins)		[kg]	7.4



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## Accessories

### Accessories supplied

Accessories	Article / Part No.	Notes
2 Keys for the housing	–	
2 Keys for the coin box	–	
Master Card (1 piece)	–	
Studio Card (1 piece)	11673	
Drilling template	86820	
Operating instructions	86821	
Installation instructions	86866	
Mains supply line	61439	

### Accessories (plus surcharge)

Accessories	Article / Part No.	Notes
Master Card (Info- and Service Card)	–	Only one card required per studio. If the Master Card is lost, please contact Customer Service.
Studio Card	3401010	10 Pieces per unit
Brass tokens for coin devices	3400530	50 Pieces per unit
Chip Cards with printed matter	3400950	100 Pieces per unit
Chip Cards with printed matter	3452470	400 Pieces per unit
Chip Cards without printed matter	3800050	100 Pieces per unit
Extension for connecting line	3400610	8 x 0.5 mm <sup>2</sup> , per running meter
Plug and socket part	3400540	For connecting the extension lead to the connecting line
Coin tube	3401030	For connecting to a central coin collecting box
Special accessories	3452340	For connecting the coin device to tanning devices of other manufacturers.

**Accessories commercially available**

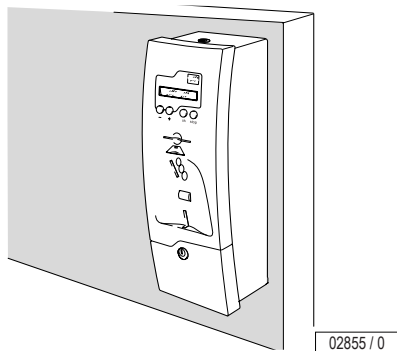
If you wish to print out working, daily and total data, a receipt printer can be connected to the coin device.  
 A suitable printer, for instance is the Epson type LX-300+ (with serial interface or a fully compatible device.  
 The printed must be adjusted to the settings given in the table for the coin device. Information of the printer settings can be found in the operating instructions for the printer.

**Settings of the coin device interface**

Function	Setting
Input buffer size	≥ 1000 Byte
Word size	8 bit
Parity	none
Baudrate	19200 Baud
Software	ESC/P

**Installation Dimensions**

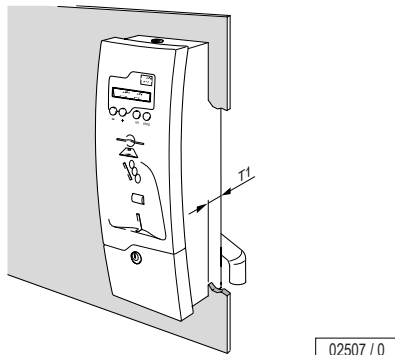
You can choose between the following installation variants:



**Installation variation Against the wall**

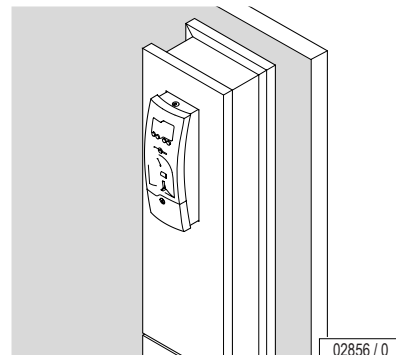
The installation of the box must only be undertaken against a solid (e.g. brick) wall.  
 Detailed information can be found in the installation instructions (Part No. 86866).  
 When installing against the wall, please make sure that a corresponding cable feed is available.

- 1. Cable feed in the wall
  - 2. Cable feed in the rear wall of the coin housing
- H1 35 mm  
 H2 38 mm



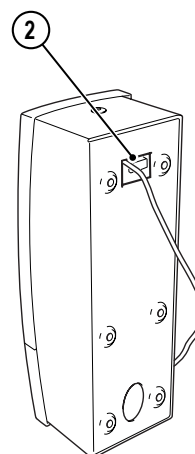
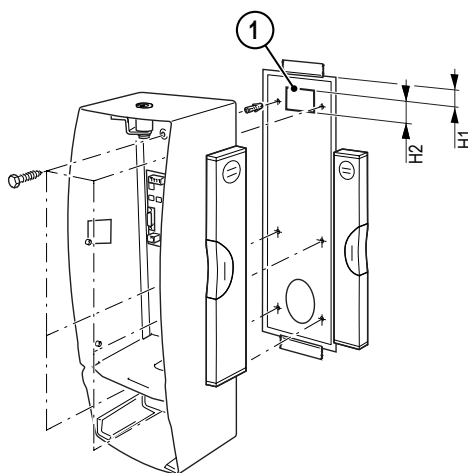
**Installation variation In the wall**

The maximum built-in depth T1 is 55 mm.  
 When installing, ensure that there is a stable backing. Detailed information can be found in the installation instructions (Part No. 86866).



**Installation variation In the tower**

Further information can be found in the description of the tower.



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**Installation variation Tanning device**

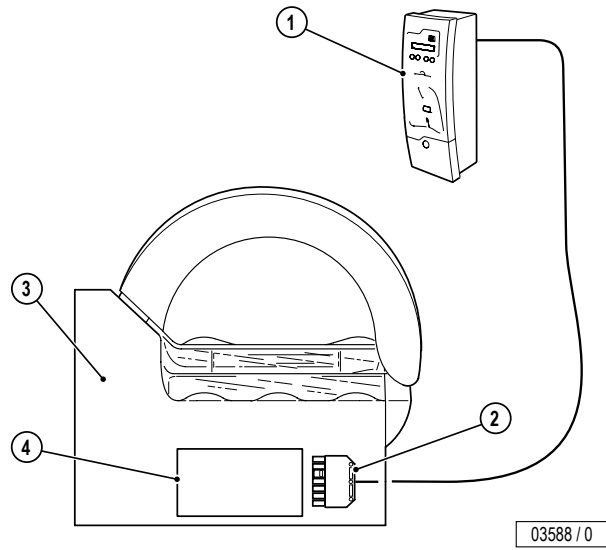
See Ergoline „Lounge“.

MCS VI

Connection diagram for Open Sun, Classic

Legend:

- 1. Coin device with microprocessor
- 2. Plug (Art. No. 70010683 /
- 3. Part No. 10683)
- 4. Sunbed
- 5. Parts support (controller)



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Connection diagram for Excellence, Evolution, Advantage, Ambition, Lounge

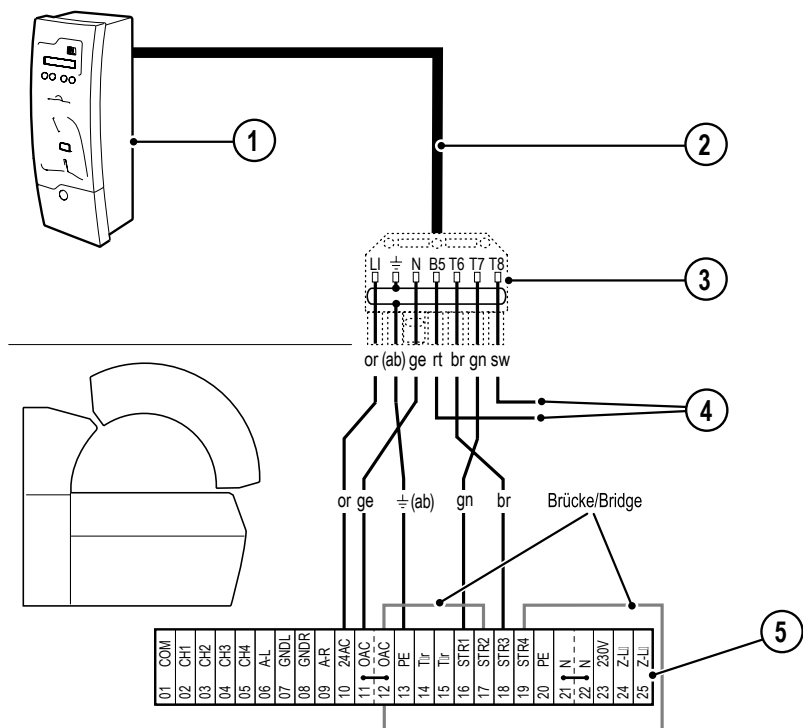
The plug (3) on the coin device (1) must be removed if necessary. The control cable (2) is connected directly to the connection strip (5) of the sunbed. The red and the black wires (4) are to be insulated individually.

Legend:

- 1. Coin device with microprocessor
- 2. Flexible, shielded control cable (10 m) included as standard equipment
- 3. Plug
- 4. Wires to be insulated (red and black)
- 5. Connection strip in sunbed

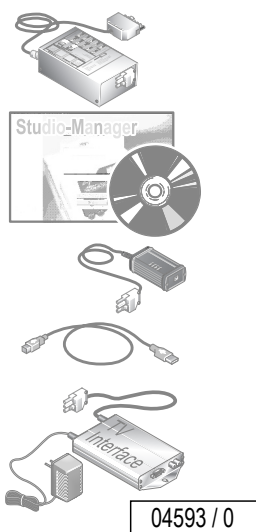
Wires:

- sw – black
- gn – green
- br – brown
- rt – red
- ge – yellow
- or – orange
- ab – shielded



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MCS VI



The Studiopilot controls up to 20 sunbeds via a data Bus. With this Bus, the cabin occupation can be shown on a monitor and the sales data of the Studiopilot can be transmitted to a PC database.

The Studiopilot is offered in various packages that contain different accessory components for networking your studio.

**Package 1: Article No.: 3452920**

**Package 2: Article No.: 3452930**

## Contents

<b>Device description</b> .....	<b>2</b>
<b>Technical Data</b> .....	<b>3</b>
<b>Dimensions</b> .....	<b>3</b>
<b>Accessoires</b> .....	<b>4</b>
Accessories supplied .....	4
Accessories (plus surcharge) .....	4
Accessories commercially available .....	5
<b>Installation Dimensions</b> .....	<b>5</b>
<b>Connection diagram</b> .....	<b>6</b>

## Package description

Quantity		Article No. / Part No.	
Package 1		3452920	
	Package 2	3452930	
		Component	
1	1	Studiopilot	3400990
1	1	TV interface with power supply	3452380
–	1	Studio-Manager software	3452900
400	400	Chip Cards with printed matter, coloured	3452470

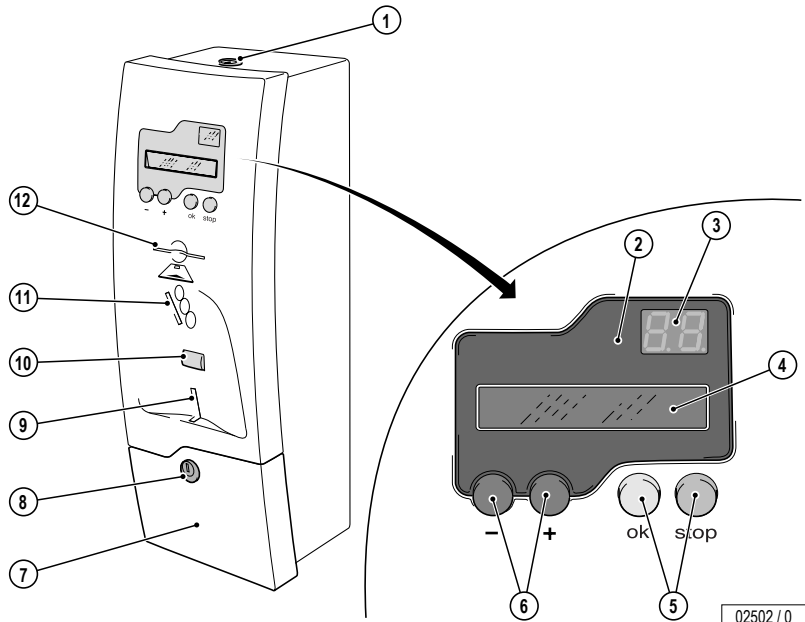


### Note!

The studio-manager may only be operated in conjunction with the accessories listed by Ergoline (computer and other hardware).

## Device description

1. Housing lock
2. Control panel
3. Cabin number or sunbed number
4. Text display
5. Buttons input confirmation (OK) and abort (Stop)
6. Adjust buttons (+/-)
7. Coin box
8. Coin box lock
9. Coin return slot
10. Coin return button
11. Coin insert<sup>1)</sup>
12. Chip card entry<sup>2)</sup>



Not shown: Connection line for Studiopilot

- 1) 0.5, 1 and 2 Euro coins; tokens (27 mm brass tokens)
- 2) For Chip Card (customer)  
Studio Card (Studio personnel)  
Master Card (Studio operator)

Dual safety cutout switch to standards  
EN 60335-2-27 and A1 2000 sections  
22.108 and 22.109

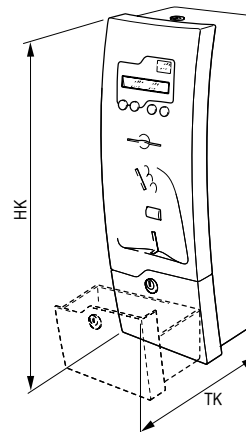
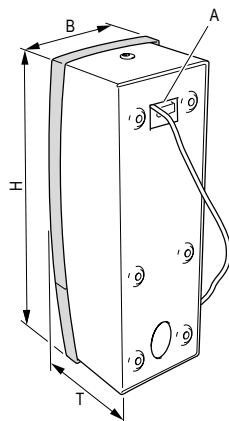
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## Technical Data

Equipment:	with electronic coin tester and chip card terminal
Model:	Control of max. 20 sunbeds via data Bus. Cabin selection at monitor possible. Transfer of sales data to PC database (Studio Manager1)).
external connections:	Serial printer interface
Assembly/Positioning:	Wall-mounting/flush-mounting
Coin box removal:	Lockable coin box at device or central connection by means of coin tube
	<p><b>i</b> <b>Note!</b> When a coin tube is connected, the tube for catching the coins must be led through the rear wall of the coin drawer. Rated break points are predetermined (see installation instructions Part No. 86866).</p>
Operating voltage:	Supply over external power supply
Colour:	Light silver matt
Max. ambient temperature:	0 to 40 °C
Max. relative air moisture content:	70 %
Max. storage temperature:	0 to 50 °C

## Dimensions

Height	H	[mm]	475
Width	B	[mm]	165
Depth	T	[mm]	162
	HK	[mm]	480
Space requirement	TK	[mm]	170
Connection control line	A		
Weight (without coins)		[kg]	7.4



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**Accessoires**

**Accessories supplied**

Accessories	Article / Part No.	Notes
2 Keys for the housing	–	
2 Keys for the coin box	–	
Master Card (1 piece)	–	
Studio Card (1 piece)	11673	
Drilling template	86820	
Operating instructions	86170	
Installation instructions	86866	
Mains supply line	61439	
Power supply	12180	

**Accessories (plus surcharge)**

Accessories	Article / Part No.	Notes
Master Card (Info- and Service Card)	–	Only one card required per studio. If the Master Card is lost, please contact Customer Service.
Studio Card	3401010	10 Pieces per unit
Brass tokens for coin devices	3400530	50 Pieces per unit
Chip Cards with printed matter	3400950	100 Pieces per unit
Chip Cards with printed matter	3452470	400 Pieces per unit
Chip Cards without printed matter	3800050	100 Pieces per unit
Extension for connecting line	3400610	8 x 0.5 mm <sup>2</sup> , per running meter
Plug and socket part	3400540	For connecting the extension lead to the connecting line
Coin tube	3401030	For connecting to a central coin collecting box
Special accessories	3452340	For connecting the coin device to tanning devices of other manufacturers.
Sunbed interface 1	3452370	Control for tanning devices (only Classic, Ambition, Advantage 350, Open Sun, other manufacturers)
Sunbed interface 2	3452910	Control for tanning devices (only Advantage 400, Lounge, Evolution, Excellence)
TV interface	3452380	Control modul for monitor or TV
Studio-Manager software	3452900	
Control line	3451040	per 100 metres
Tower Studiopilot	3452410	
Tower Desk	3452420	

**Accessories commercially available**

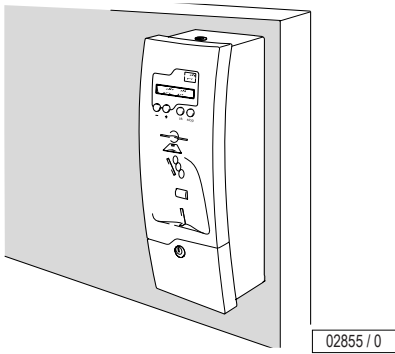
If you wish to print out working, daily and total data, a receipt printer can be connected to the coin device.  
 A suitable printer, for instance is the Epson type LX-300+ (with serial interface or a fully compatible device.  
 The printed must be adjusted to the settings given in the table for the coin device. Information of the printer settings can be found in the operating instructions for the printer.

**Settings of the coin device interface**

Function	Setting
Input buffer size	≥ 1000 Byte
Word size	8 bit
Parity	none
Baudrate	19200 Baud
Software	ESC/P

**Installation Dimensions**

You can choose between the following installation variants:

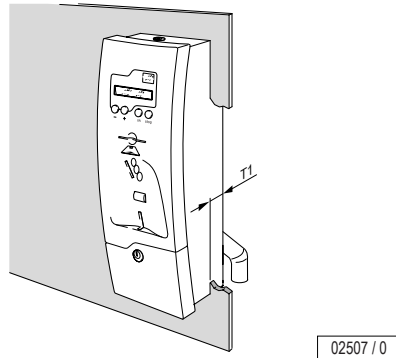


**Installation variation Against the wall**

The installation of the box must only be undertaken against a solid (e.g. brick) wall.  
 Detailed information can be found in the installation instructions (Part No. 86866).  
 When installing against the wall, please make sure that a corresponding cable feed is available.

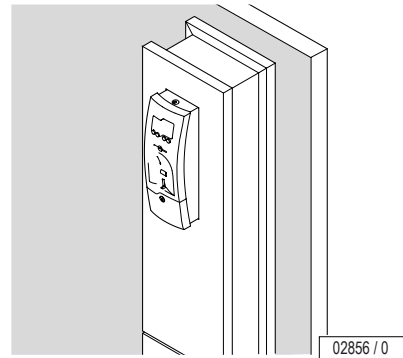
1. Cable feed in the wall
2. Cable feed in the rear wall of the coin housing

H1 35 mm  
 H2 38 mm



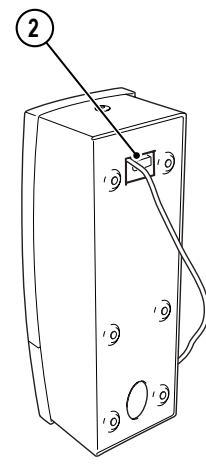
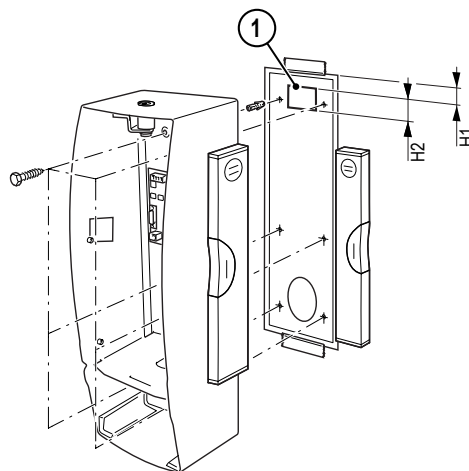
**Installation variation In the wall**

The maximum built-in depth T1 is 55 mm.  
 When installing, ensure that there is a stable backing. Detailed information can be found in the installation instructions (Part No. 86866).



**Installation variation In the tower**

Further information can be found in the description of the tower.



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**Installation variation Tanning device**

See Ergoline „Lounge“.

Studiopilot

## Connection diagram

The studiopilot can be networked, i.e. it can be connected to a data Bus and can control up to 20 sunbeds.

In addition a monitor can be connected to the data Bus for showing cabin occupation. The monitor is connected to the Bus by means of a TV interface.

The sunbeds are connected via the so-called sunbed-interface with the studiopilots over the data Bus.

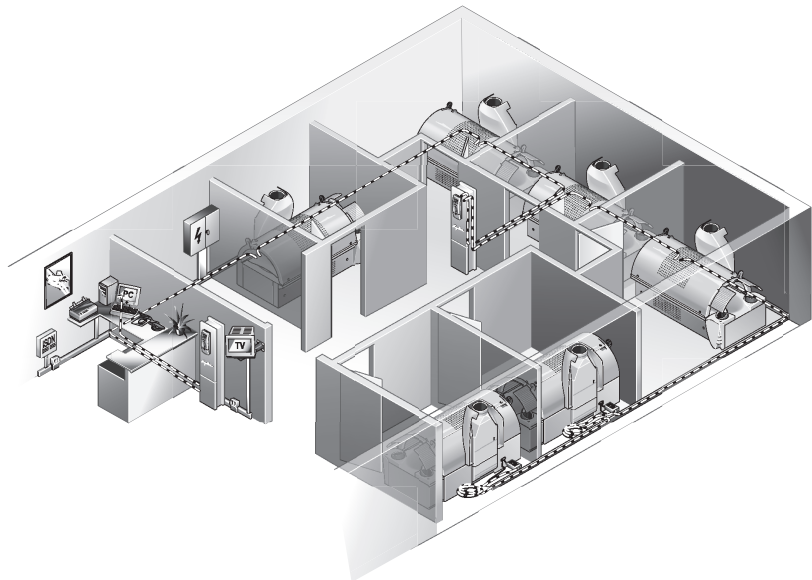
Also, several Studiopilots can be operated over a data Bus, for instance, to control two storeys of a studio.

As an option, there is the possibility of exchanging sales data with a PC database, e.g. the Ergoline Studio Manager, and to evaluate them on a customer-specific basis. For this purpose a PC interface for connection to your computer is available.

On the next page there is shown a planning example for a studio with

- 6 sunbeds
- 2 Studiopilots
- A monitor for showing the cabin occupation and selection, as well as
- A PC database (Ergoline Studio Manager) for managing the customer data and for evaluation of the sales data.

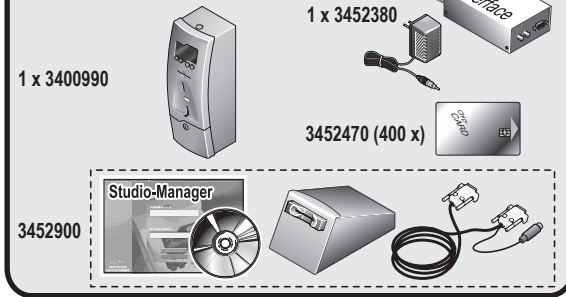
The required installation as well as the components required can be taken from this planning example.



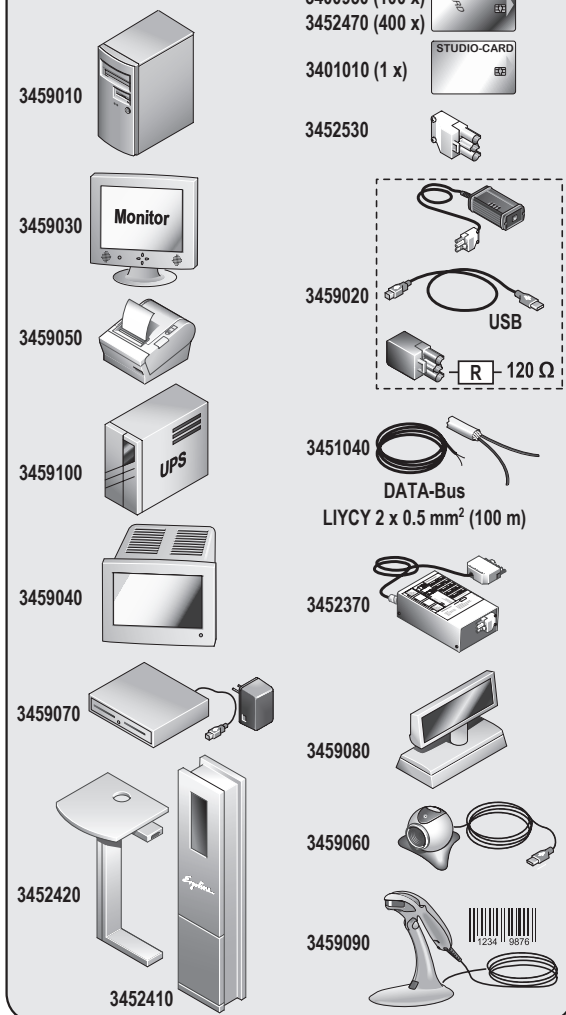
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# Planning Manual

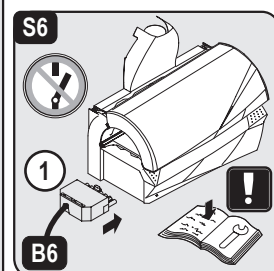
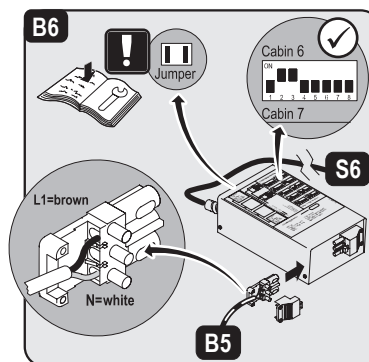
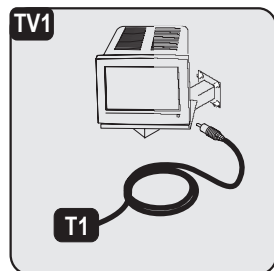
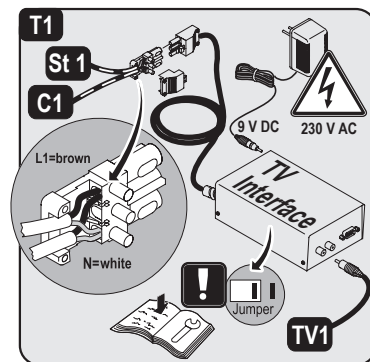
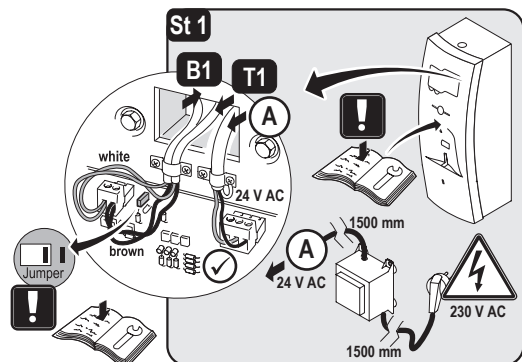
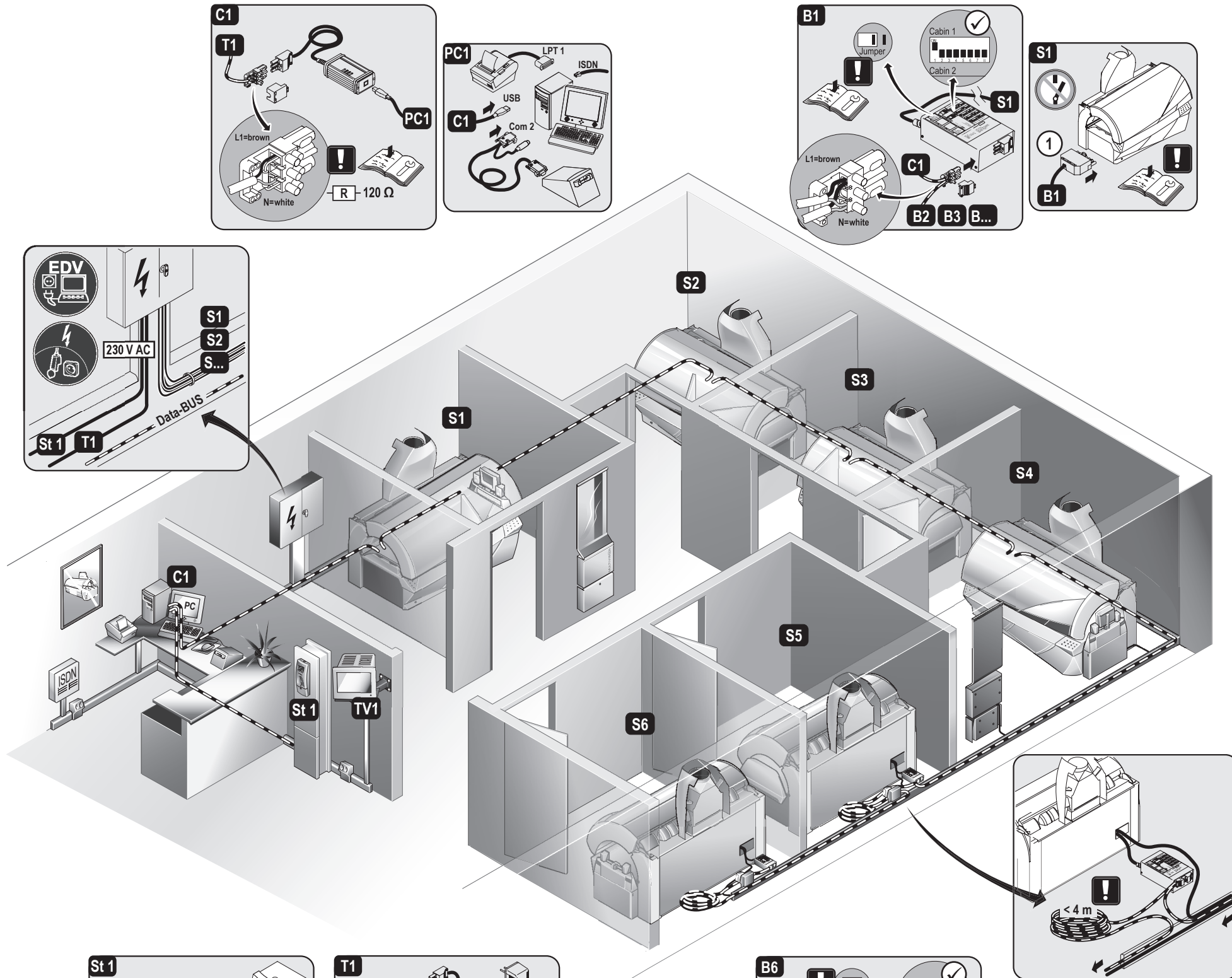
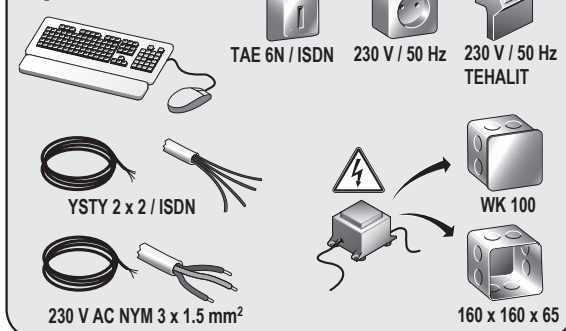
## Art.-No. 3452930



## Option Ergoline

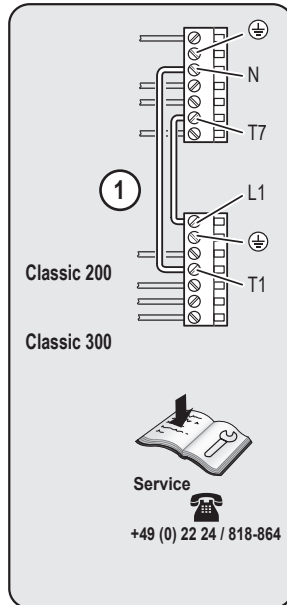


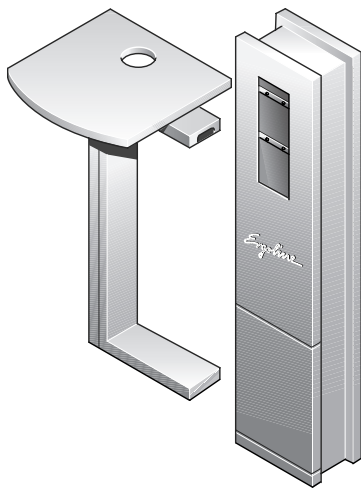
## Option



- Lounge
- Advantage 350
- Advantage 400
- Advantage 400 APS
- Ambition 250
- Evolution 500
- Evolution 500 APS
- Evolution 600
- Evolution 600 APS
- Evolution 575
- Evolution IQ
- Excellence 700
- Excellence 700 APS
- Excellence 800
- Excellence 800 APS
- Excellence IQ

- Classic 8000
- Open Sun A.R.T. 450
- Open Sun A.R.T. 600





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**Tower**  
**Article No.: 3452410**  
**Tower Desk**  
**Article No.: 3452420**

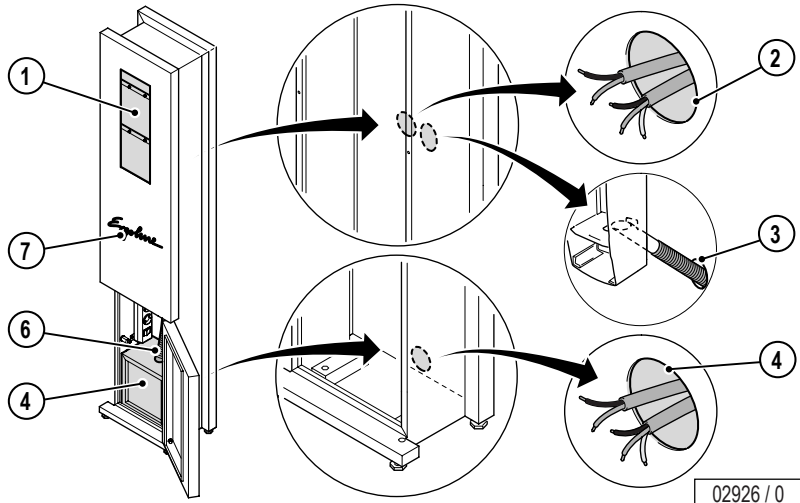
## Contents

Description – Tower .....	2
Description – Tower Desk .....	2
Technical Data – Tower .....	3
Dimensions .....	3
Assembly .....	4

Tower / Tower Desk

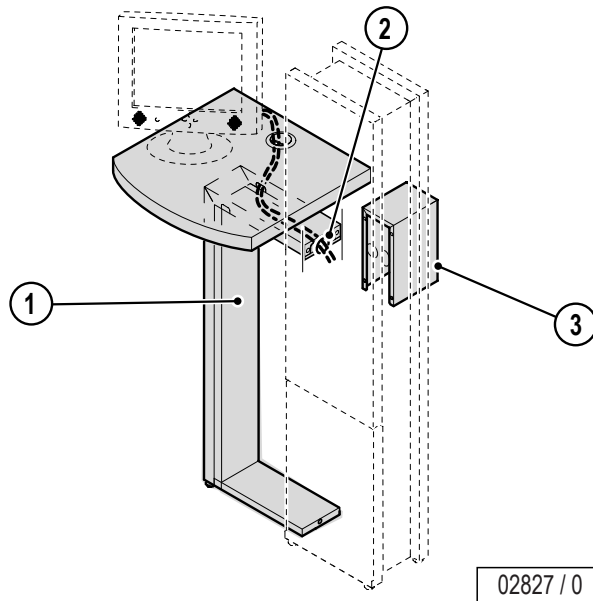
Description – Tower

1. Installation space
2. Cable feed
3. Hole for coin tube for central connection
4. Cable feed
5. Safe
6. Coin tube from coin device in the safe
7. Decorative lighting



Description – Tower Desk

1. Tower Desk
2. Cable feed
3. Cover for wall anchorin

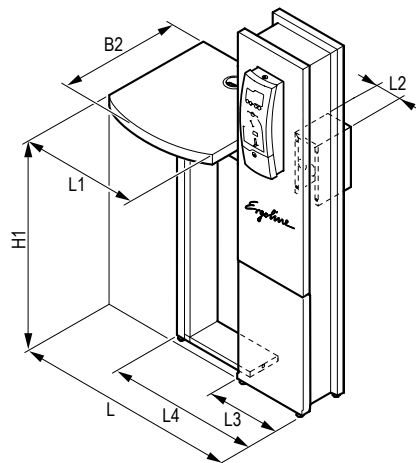
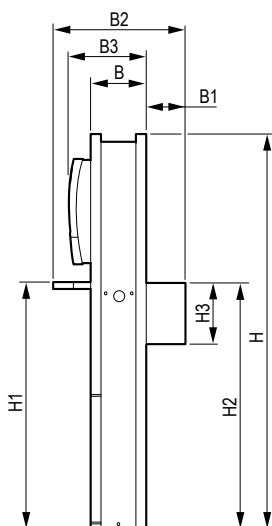


**Technical Data – Tower**

Connections:	Plug strip for decorative lighting and coin device
Assembly/Positioning:	ree-standing, anchored against the wall and to the floor
Coin box removal:	Safe or central connection via coin tube
	<p><b>i</b> <b>Note!</b>                  When a coin tube is connected, the tube for catching the coins must be led through the rear wall of the tower. Rated break points are predetermined (see installation instructions Part No. 800192)..</p>
Max. ambient temperature:	0 to 40 °C
Max. relative air moisture content:	70 %
Max. storage temperature:	0 to 50 °C

**Dimensions**

B	250 mm
B1	176 mm
B2	600 mm
B3	356 mm
L	1035 mm
L1	600 mm
L2	124 mm
L3	385 mm
L4	782 mm
H	1780 mm
H1	1120 mm
H2	1116 mm
H3	280 mm

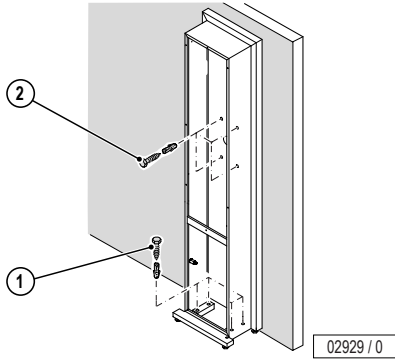


02928 / 0

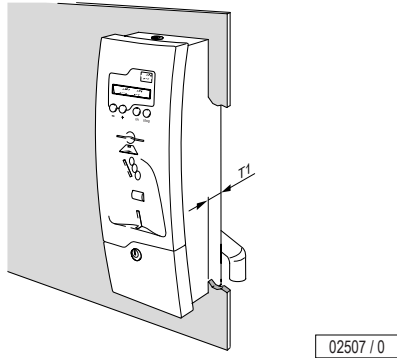
Tower / Tower Desk

Assembly

The Tower must be fastened to the floor (1) and against the wall (2) in order to ensure stability.

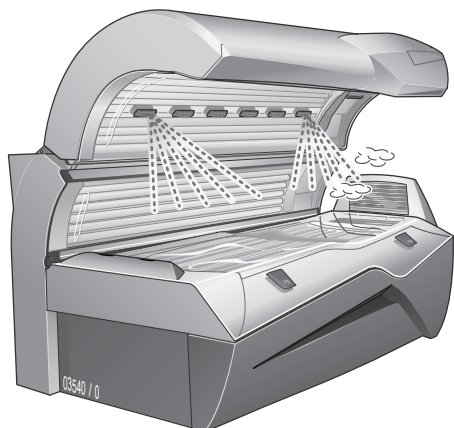


If a Tower Desk is to be installed additionally, then the cover (1) between the Tower and wall must be installed and the Tower must be fixed to the floor (2) and against the wall (3).



Detailed information can be found in the installation instructions (Part No. 800192).





The AQUA FRESH AROMA system consists of the functions AQUA FRESH and AROMA.

- The AQUA FRESH function sprays a fine liquid mist into the interior of the sunbed for body cooling.
- With the AROMA function aromas stream into the sunbed interior and the cabin.

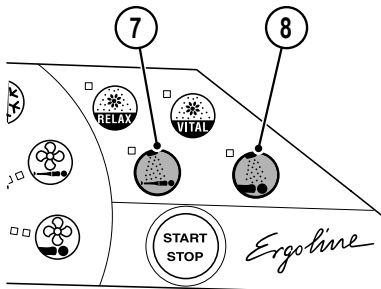
The AQUA FRESH AROMA system is an optional extra that is not available as a retrofit kit. Please observe the capabilities of the respective tanning device during planning.

## Contents

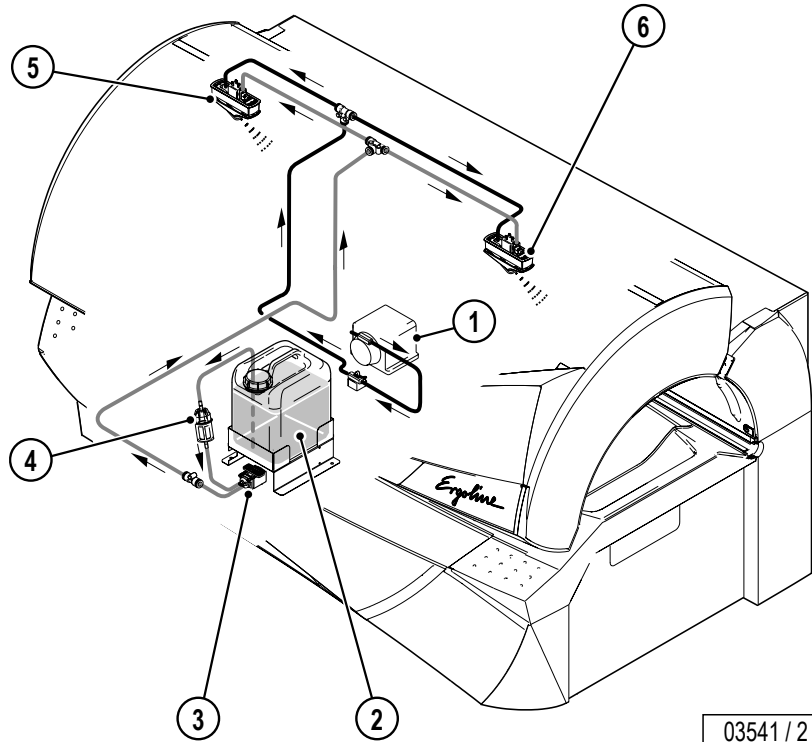
System description – AQUA FRESH (Evolution and Excellence only) .....	2
System description – AROMA system (Evolution and Excellence only) .....	2
Accessories .....	3

**System description – AQUA FRESH (Evolution and Excellence only)**

1. Intermediate tank
2. Air compressor
3. Reservoir tank
4. Pump
5. Aqua Fresh (body nozzle)
6. Aqua Fresh (head nozzle)
7. Operating element - Aqua Fresh body nozzle
8. Operating element - Aqua Fresh head nozzle



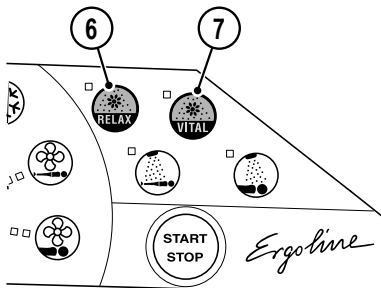
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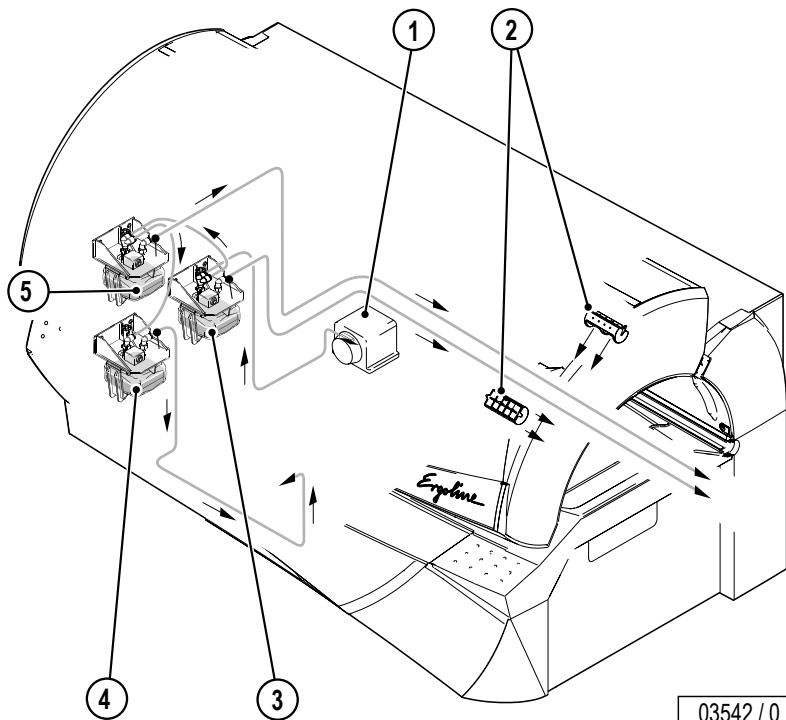
03541 / 2

**System description – AROMA system (Evolution and Excellence only)**

1. Air compressor
2. Aroma nozzles (between the facial tanners)
3. Aroma container (RELAX)
4. Aroma container (CABIN)
5. Aroma container (VITAL)
6. Operating element - RELAX
7. Operating element - VITAL



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AQUA FRESH ...

**Accessories**

Accessories	Article / Part No.	Remark
AQUA SOLAR WITH SKIN+ ADDITIVE	365 1303	Canister with liquid for AQUA FRESH
Aroma "Relax"	365 2003	Aroma pot, 100 ml
Aroma "Vital"	365 2103	Aroma pot, 100 ml
Aroma "Cabin"	365 2203	Aroma pot, 100 ml

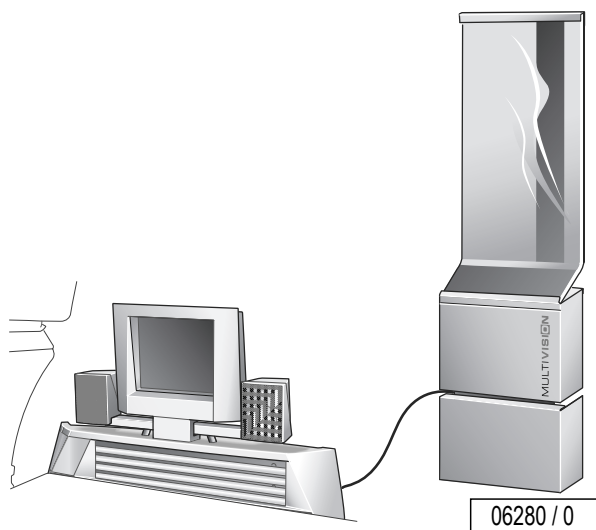
Can be ordered from:

JK-Licht GmbH  
 Eduard-Rhein-Str. 3  
 53639 Königswinter  
 Germany

☎ +49 (0) 22 24 / 92 39-0

📄 +49 (0) 22 24 / 92 39-24

AQUA FRESH ...



MULTIVISION provides the complete range of TV programmes and sundry options for designing an individual programme with DVD or video content for the Excellence and Evolution production models.

This manual depicts the options and the required system criteria for configuring MULTIVISION to best suit your individual requirements and the technical possibilities.

MULTIVISION is offered in a range of packages which are designed for different TV reception modes.

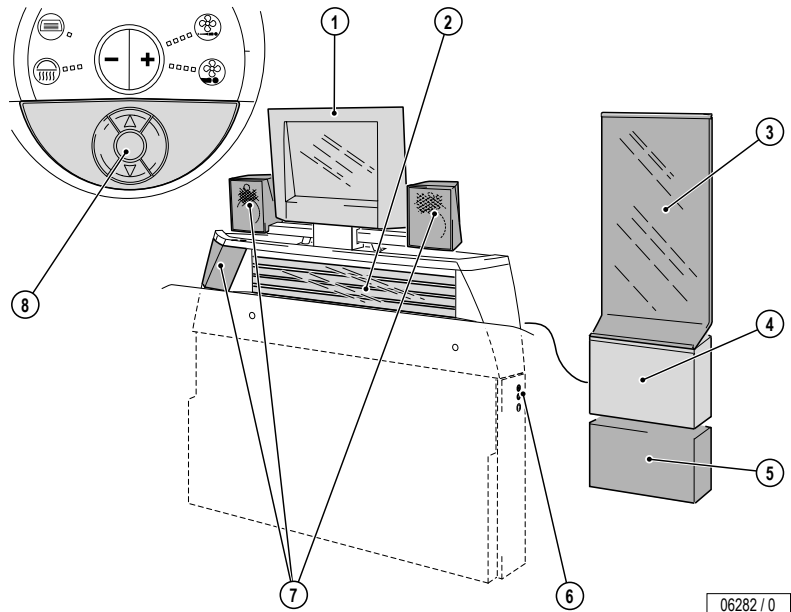
## Contents

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MULTIVISION

Device description

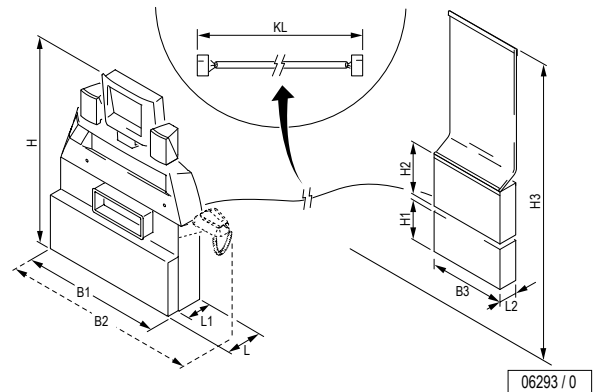
1. TFT monitor
2. Shoulder tanner
3. Acrylic mount for protection of the MULTIVISION box
4. MULTIVISION box (Control Unit)
5. DVD box for optional DVD drive
6. Headset socket
7. 3D sound unit with sub-woofer
8. Controls



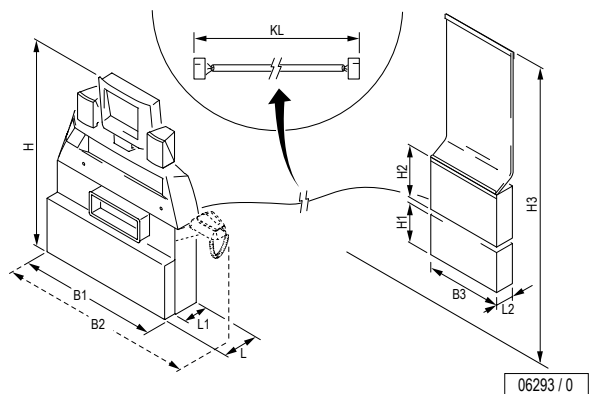
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Dimensions

B1	760 mm
B2	996 mm
B3	430 mm
KL	3900* mm
H	1005 mm
H1	270 mm
H2	340 mm
H3	1850 mm
L	200 mm
L1	133 mm
L2	97 mm
L3	L4 + 100 mm
BK1	BK + 100 mm
* with extension: max. 8900 mm	



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MULTIVISION

## Technical data

Performance:	
Shoulder tanner	4 x 25 W (controlled via the tanning device) replaces production standard/optional shoulder tanner
MULTIVISION Box	
Nominal power consumption:	200 W (MULTIVISION box)
Nominal voltage:	~ 220 - 240 V
Nominal frequency:	50 Hz
Rated fusing:	10 A
Power supply:	MULTIVISION unit via the tanning device MULTIVISION box via jack plug optional: DVD box via USB or jack plug
Colour:	Light silver-matt
Max. ambient temperature:	0 to 40 °C
Max. relative humidity:	70 %
Max. storage temperature:	0 to 50 °C
Weight:	46.70 kg (with IQ sensor: 48.20 kg)

## Fittings and external connections

A MULTIVISION package comprises a MULTIVISION TV unit (with or without an IQ/APS system) and MULTIVISION box (matched to the TV receiver).

Multivision TV unit	Shoulder tanner, TFT monitor, 3D SOUND system (with swivelling loudspeakers and sub-woofer), separate controller (fitted to the tanning device controller), with sensor/base station for IQ or APS devices as required.
MULTIVISION box:	Control unit plus DVD box for housing an external DVD drive (optional), acrylic mount.
external connections to the MULTIVISION box:	PS/2 connections for service point, external DVD drive S-video connection for external video recorder or home DVD player TV connection (varies according to the MULTIVISION box fittings)

**TV reception options**

The following TV connection options are available:

**Digital Satellite Reception**

Digital satellite television (DVB-S) can be received all over Europe, regardless of location. The channel choice is immense at over 1000 channels; it also offers foreign language channels and niche programmes, which can offer benefits, according to the customer's layout.

As a rule, installation is more expensive than with other types of connection: The line-up of the satellite dish and its fitting (usually to the building) must be feasible. The MULTIVISION box acts as the satellite receiver.

**Digital terrestrial television**

DVB-T (omni-directional television) is available in some conurbations and will in the foreseeable future replace analogue television via an antenna.

There are currently up to 24 channels available, but M-TV, VIVA and DSF are (still) not available in some areas!

**Analogue TV (cable/antenna)**

Analogue reception is currently still available throughout Germany, but will in the future be replaced progressively by terrestrial television. ARD, ZDF, the third local channel and, occasionally, a few other programmes, are available.

With cable reception, the cable service provider offers you at least 30 German language channels, but cable reception is only an option where the area has been wired previously for cable TV. You will incur costs for using a cable connection.

MULTIVISION with **analogue satellite TV** or **digital cable connection** is **not possible!**

**Which TV connection shall I choose for a new connection?**

If there is no TV connection in the studio, then the following table provides a decision-making aid:

	Analogue antenna	*Digital antenna	Digital satellite	Analogue cable
External installation necessary?	Yes	Yes	Yes	No
For leases: Does the lessee require a licence?	Yes	Yes*	Yes	Yes
Restricted availability?	No	Yes, obviously	No	Yes
Connectable MULTIVISION units	Unrestricted with the relevant technology			
Can an external DVD player be connected via USB?			Yes	
Can S-video be connected via the S-video connection?			Yes	
Can an external DVD player be connected via the S-video connection?			Yes	
Channels	approx. 5	approx. 24	approx. 200	approx. 30

\* With a very strong signal, a room antenna may suffice, and the lessee may then not always require a licence. Nonetheless, you should plan for a roof or external antenna, as a stronger signal can then be received.

You must clarify in advance for all TV receivers, whether

- reception is theoretically possible (signal strength, local network availability).
- the lessor's permission is required for leases.
- all structural criteria have been met and that an antenna or satellite dish can be fitted.
- the maximum cable lengths listed can be complied with.

We recommend that you ask an expert before taking a decision and planning a system, as only an expert can plan for local conditions and thus plan thoroughly.

**MULTIVISION options – and what can't be done!**

**MULTIVISION option: DVD channel**

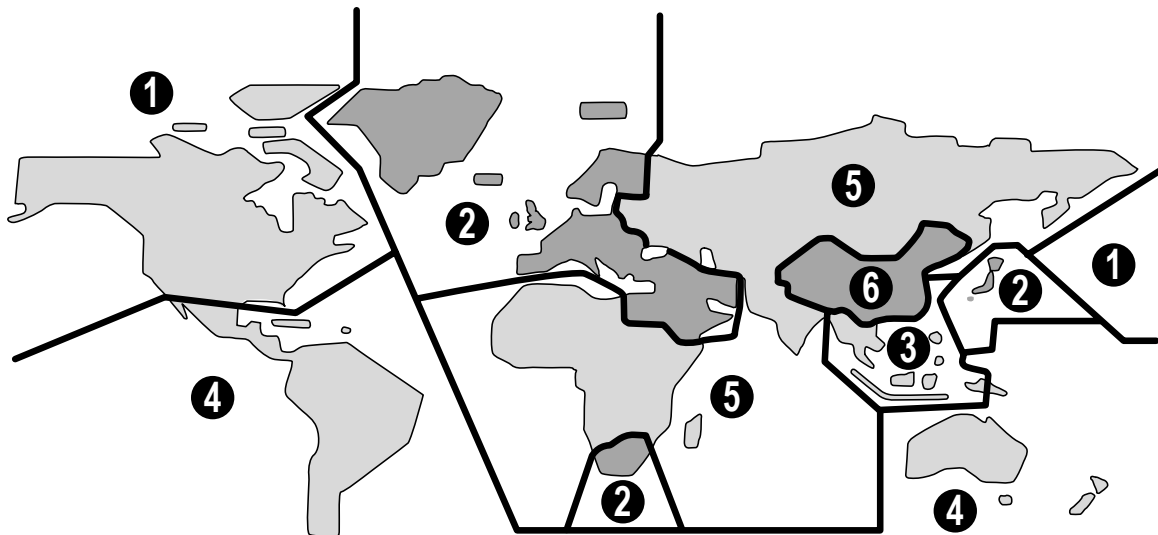
The DVD channel is produced via an external DVD drive. This makes a DVD available to the tanner, which is usually controlled via the MULTIVISION keyboard – provided the DVD is suitable for this.

**Requirement:**

- DVD drive (external) with USB connection, suitable for vertical operation.
- 1 jack plug for connecting the DVD drive to the power supply.

**Restriction:**

- Home burned DVDs can sometimes skip or not be played back.
- Only DVDs with the regional code 2 or the marking ALL can be played back..



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**MULTIVISION option: Studio channel**

The studio channel cannot be controlled via the MULTIVISION keyboard, and thus can be selected only as an independent channel such as a TV channel.

**Requirement:**

- Connection of a home DVD player or S-VHS video recorder via S-video.  
Digital cable TV is also sometimes connected via S-video, but again the channel can only be selected on the receiver box. The MULTIVISION keyboard cannot be used as the control.
- Connect the leads as shown in the wiring diagram.



**MULTIVISION option: Service point**

The service point is called up from the tanning device default mode and allows the customer to set various parameters (e.g. volume, tone, DVD connection, S-video connection, TV channel selection) and access to some functions (TV channel search).

**Requirement:**

- Connection of a PS/2 keyboard to the MULTIVISION box for the setting up period.

**Not possible**

- Playback of music CDs

**MULTIVISION packages**

Package	Part no.	Notes
<b>MULTIVISION TV Unit</b>		
MULTIVISION unit without IQ/APS sensor	34592000	
MULTIVISION unit with IQ/APS sensor	34592007	
<b>and MULTIVISION box</b>		
MULTIVISION box analogue	34592009	For analogue cable and antenna reception
MULTIVISION box DVB-S	34592010	For satellite reception
MULTIVISION box DVB-T	34592011	For digital antenna
<b>The package also includes:</b>		
DVD box for external DVD drive	–	
Leads between MULTIVISION box and unit	–	
Acrylic mount	–	
MULTIVISION Reflex sun visor	703606	
MULTIVISION Reflex sun visor with anti-theft device	705130	

## Accessories

Use only high quality leads and components. This is the only way to ensure best operation and as free from interference as possible. It is essential that you consult an expert who can design your TV receiver installation to allow for local conditions. Use the components recommended here as far as possible. If other manufacturers are used, refer to the instructions for the individual components. All equipment descriptions and manufacturers' names listed here are proprietary trademarks, even if not marked as such.

### Basic Accessories

Accessories from the dealership	Manufacturer's part no.	Recommended manufacturer Remarks
<b>PS/2 keyboard for service point</b>		off the shelf
<b>Extension lead</b> (between MULTIVISION box and MULTIVISION unit), comprising		All leads: Fa. Reichelt, 5 m lengths
Audio extension lead	AVK 181	3.5 mm stereo jack plug on 3.5 mm stereo jack coupling
S-VGA monitor extension lead Male/female adapter for VGA connection	AK SVGA 105 COM 9231	15-pin HD plug to 15-pin HD plug Adapter 15-pin HD to 15-pin HD
USB 2.0 extension, active	AK USBV AA-5	A plug to A coupling
<b>DVD channel option</b>		
<b>DVD drive, external</b> (fitted in DVD box)		suitable for vertical operation Power supply via mains (mains socket required)
DVD±RW drive, Hi-Speed USB 2.0 or Combo CD-RW drive, USB 2.0	3007780 3007070	<b>Fa. LaCie</b> Hi-Speed  www.avitos.com
oder		
FS-5 CD-RW/DVD COMBO, USB 2.0 or FS-50 DVD+/-RW 8x DOUBLE LAYER, USB 2.0	22842 24113	<b>Fa. Freecom</b>  www.freecom.de
<b>Studio channel option</b>		
Home DVD player  or		Off the shelf, must be able to play DVD continuously Lead: 1 x 4-pin (audio), 1 x 3.5 mm jack plug
S-VHS video recorder		Off the shelf, must be able to play video cassette continuously Lead: 1 x 4-pin (audio), 1 x 3.5 mm jack plug
<b>Cable channel*</b>		
Cable channel, fire protection class to building regulations		Fa. Tehalit LFH system, halogen free, surface engineering technology Cross-section according to cables to be installed, at least 30 x 40 mm.

\* High quality coaxial cable (90 dB, armoured) can be collocated with the databus leads.

**Components for DVB-S**

See the DVB-S studio plan for the wiring diagram.

Accessories from the dealership	Manufacturer's part no.	Recommended manufacturer Remarks
SAT dish fixing extra	TD 88	Fa. Triax, TD type, at least 88 cm Ø
Quatro-LNB (digital)		Fa. MIT Blueline Quattro digi
Multiswitch	SMS 5802 NF	FA. Sporn with 8 outputs, with 5 inputs: VH = Vertically high VL = Vertically low HH = Horizontal valley high HL = Horizontal valley low VHF (not used) (230V mains supply required!)
4 x coax leads, each max. 25 m		miscellaneous, 90 dB, armoured
8 x F plugs		miscellaneous
<b>extra for each MULTIVISION unit</b>		
F-socket jack	DSE 652	Fa. Schwaiger 2 SAT-ZF connections, 2 dB
1 x coax lead, max. 56 m		miscellaneous, 90 dB, armoured
1 x coax lead, max. 1 m		miscellaneous, 90 dB, armoured
3 x F plugs		miscellaneous

## Components for DVB-T

See the DVB-T studio plan for the wiring diagram.

Accessories from the dealership	Manufacturer's part no.	Recommended manufacturer Remarks
<b>Antenna</b>		
Roof/wall mounted antenna fixing extra or	LOG 2845 F	Fa. FTE digital
Room antenna	ZIFA D2	Fa. Hirschmann digital
1 x coax lead, max. 25 m		miscellaneous, 90 dB, armoured
6-way hub	VTF 8826	Fa. Schwaiger 1 input, 6 outputs, backwards compatible
or amplifier	TVS 5	Axing, 30 dB
2 x F plugs		miscellaneous
<b>extra for each MULTIVISION unit</b>		
1 x coax lead, max. 56 m		miscellaneous, 90 dB, armoured
1 x F-plug (at hub)		off the shelf
HF-socket jack	FS 12 D	Fa. Hirschmann
1 x coax lead, max. 1 m		miscellaneous, 90 dB, armoured, incl. HF plug/HF coupling

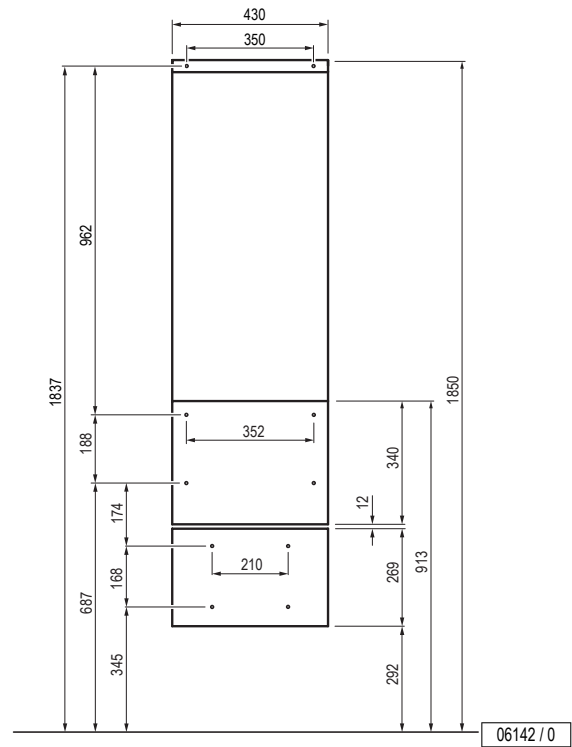
## Components for cable connection/analogue antenna from takeover point

See the analogue TV studio plan for the wiring diagram.

Accessories from the dealership	Manufacturer's part no.	Recommended manufacturer Remarks
1 x coax lead, max. 25 m		miscellaneous, 90 dB, armoured
Domestic connection amplifier	AV 34G Profi	Fa. DigiSat Gain: 34/26 dB, frequency range: 5-862 MHz, return channel, max. 6 connections (230V mains supply needed!)
1 x coax lead, max. 1 m		miscellaneous, 90 dB, armoured
6-way hub	VTF 8826	Fa. Schwaiger 1 input, 6 outputs, backwards compatible
4 x F plugs		miscellaneous
<b>extra for each MULTIVISION unit</b>		
1 x coax lead, max. 56 m		miscellaneous, 90 dB, armoured
1 x F-plug (at hub)		off the shelf
HF-socket jack	FS 12 D	Fa. Hirschmann
1 x coax lead, max. 1 m		miscellaneous, 90 dB, armoured, incl. HF plug/HF coupling

Assembly

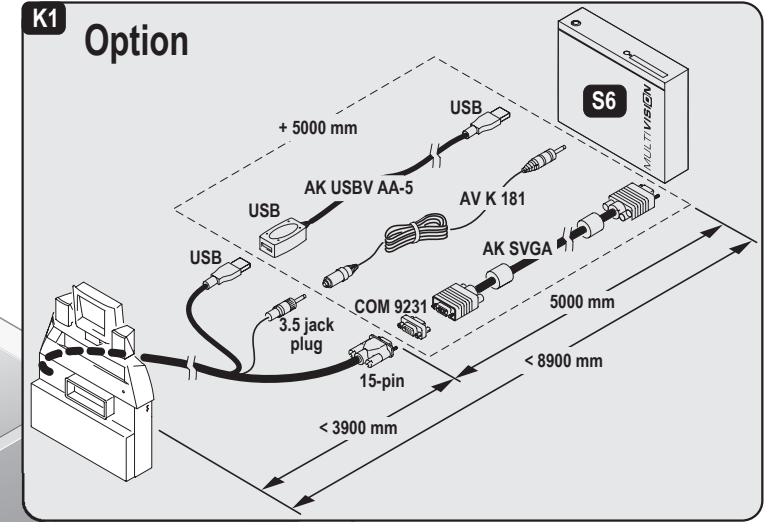
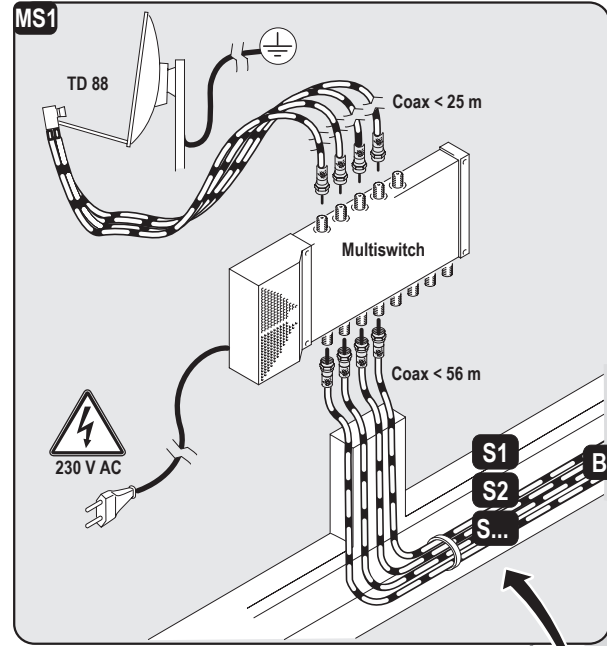
The MULTIVISION TV unit is mounted on the tanning device.  
The positioning of the drilled holes for fixing the MULTIVISION box, DVD box and acrylic mount is given in the drawing opposite.



**Art.-No. 34592010**

34592000

34592007



**Option SAT**

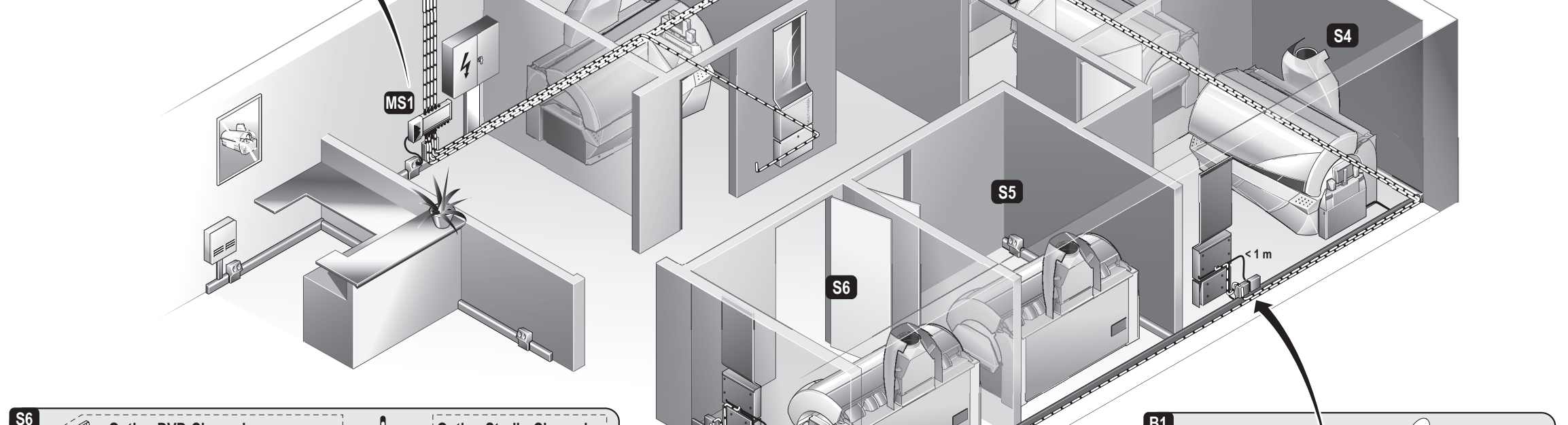
8 x F-plug

1 x TD 88

4 x Coax 90dB armoured < 56 m

1 x Multiswitch SMS 5802 NF

1 x LNB BlueLine Quatro digi



**Per MULTIVISION**

1 x DS 652

1 x Coax 90dB armoured < 1 m

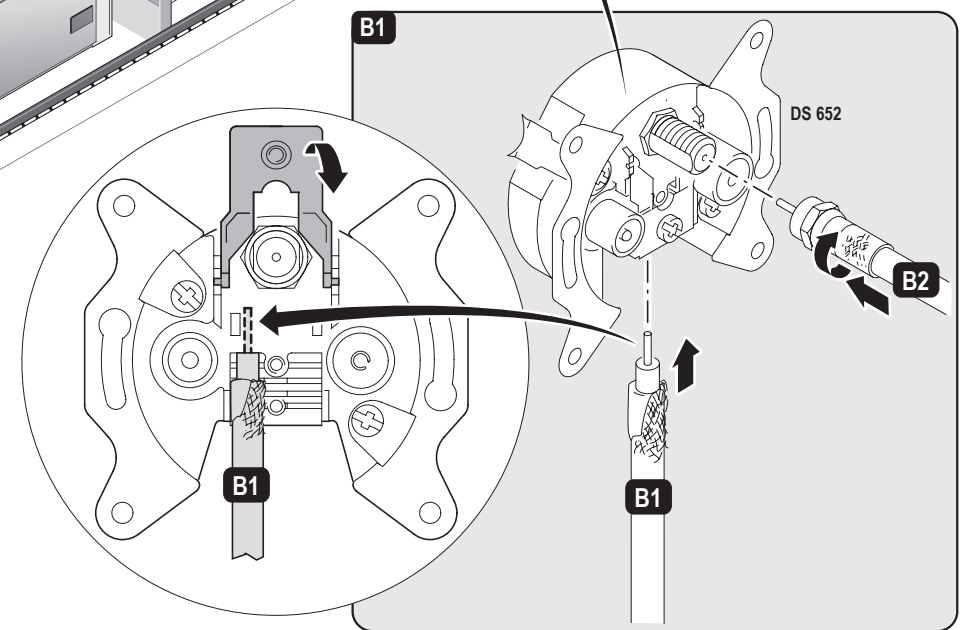
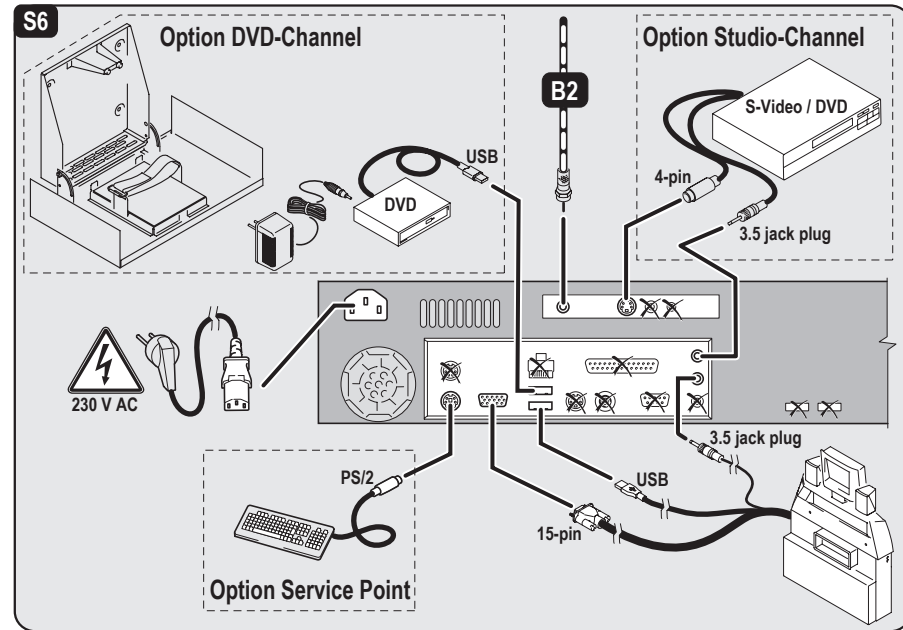
1 x Coax 90dB armoured < 56 m

3 x F-plug

LFH TEHALIT

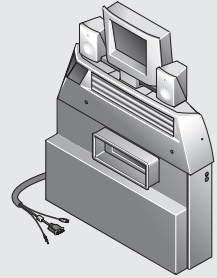
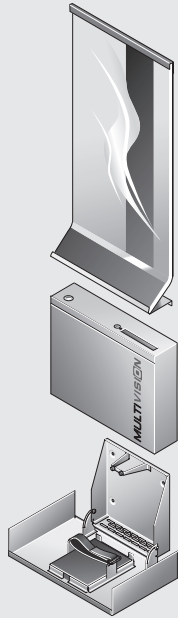
+ 1 x TEHALIT

230 V / 50 Hz TEHALIT

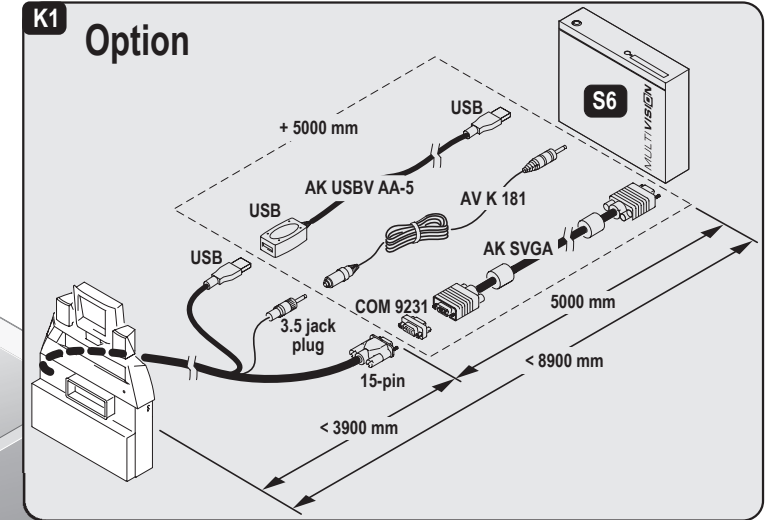
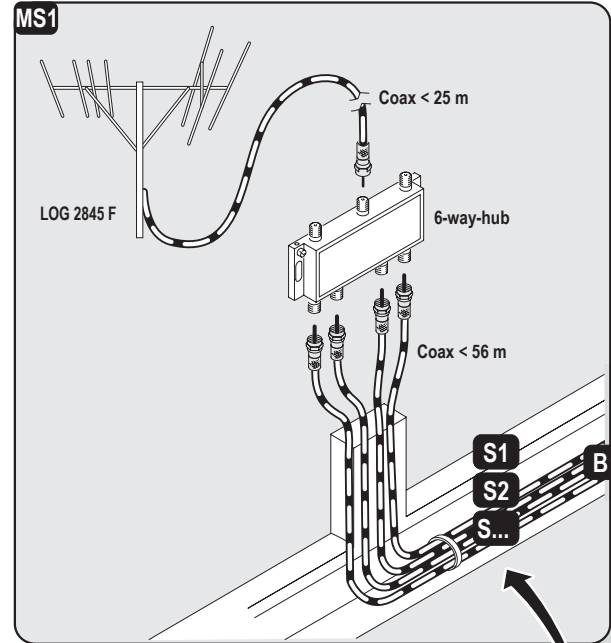
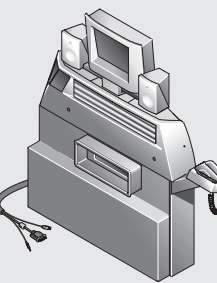


Art.-No. 34592011

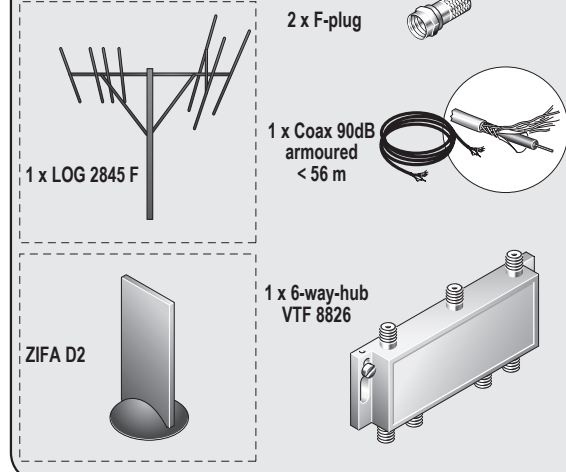
34592000



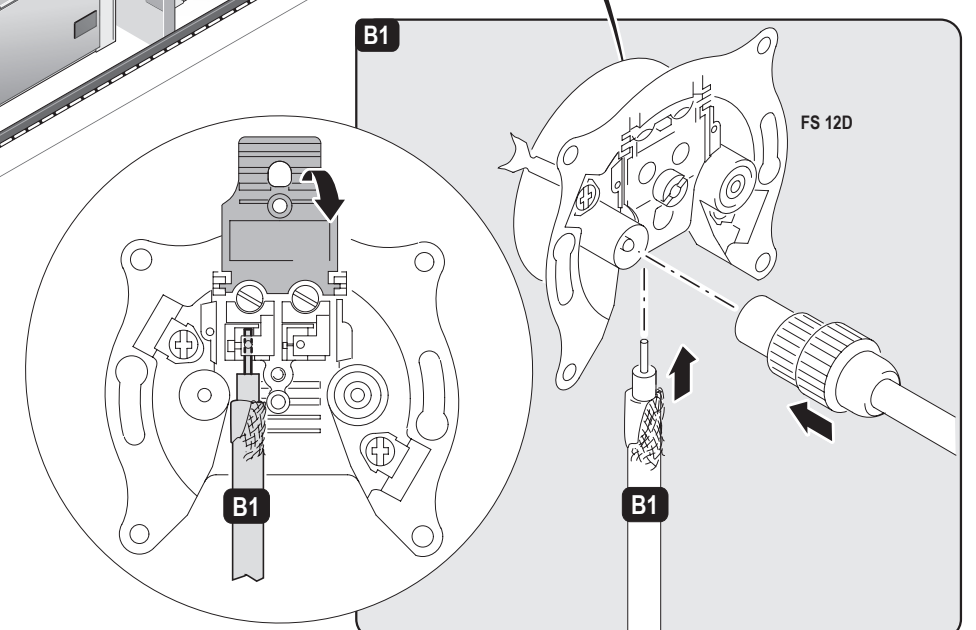
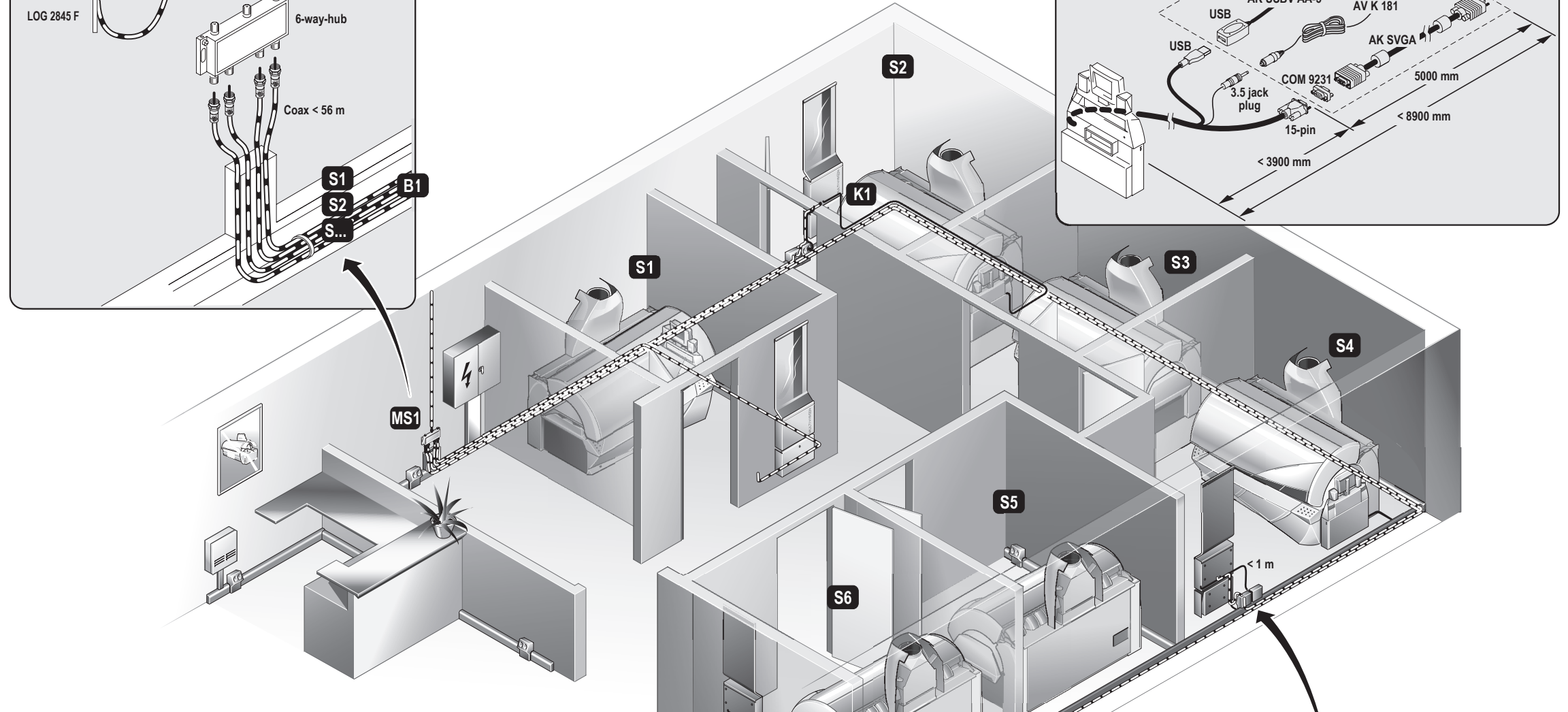
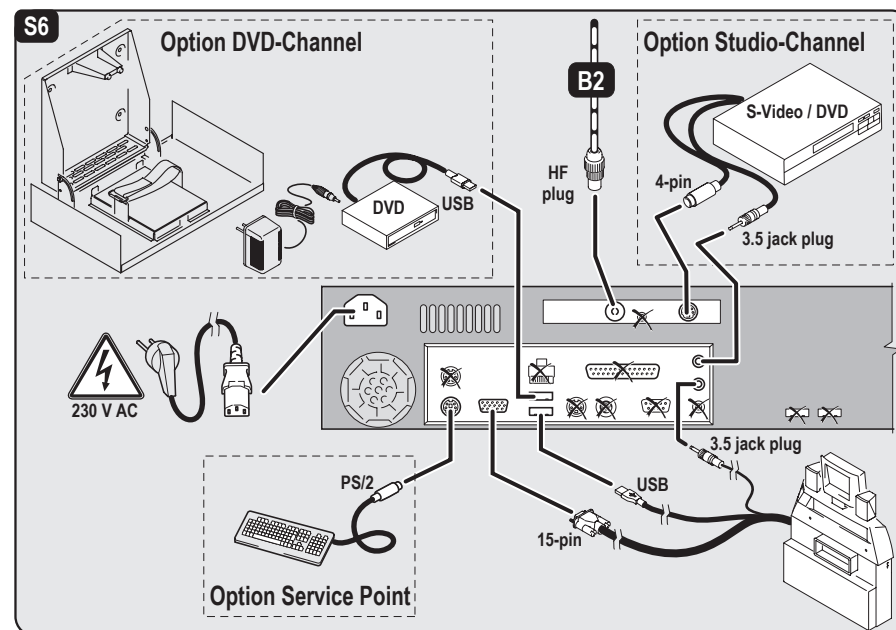
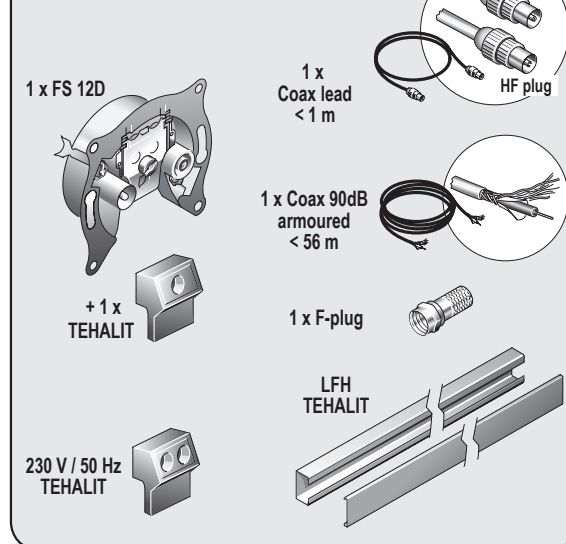
34592007



Option DVB-T



Per MULTIVISION



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    For Ergoline Open Sun A.R.T. 600 ..... 3

    For Ergoline Classic 8000 Ultra ..... 3

    Planning examples ..... 4



## General

Ergoline sound systems are available in different models. Please refer to the respective device descriptions regarding the possibilities of the individual sunbeds.

When planning, note that the studio space amplification must not be driven by the same amplifier as the audio unit of the sunbed. If this is not taken into account, difficulties can arise with sound regulation. For this reason, a separate amplifier should be available for every audio unit. On no account must car radios with bridge steps be utilised. A connection cable 6 x 0.5 mm<sup>2</sup> must be used for connecting the amplifier and the audio unit. For further information on the technology, please refer to the descriptions of the individual serial model modifications. External amplifiers and CD players are not included in the Ergoline scope of supply.




Please also note the reporting and fee responsibilities for playing background music in the studio. For information please contact your district office responsible for your place of residence or business.

Contact addresses for Germany:

### GEMA

Gesellschaft für musikalische  
Aufführungen und mechanische Vervielfältigungsrechte

Bezirksdirektion NRW  
Südwall 17-19  
**44137 Dortmund**  
Germany




	Telefon:	+49 (0) 231 / 5 77 01-0
	Telefax:	+49 (0) 231 / 5 77 01-120
	E-Mail:	bd-nrw@gema.de

[www.gema.de](http://www.gema.de)

### GEZ

Gebühreneinzugszentrale der öffentlich-rechtlichen  
Rundfunkanstalten in der Bundesrepublik Deutschland

Freimersdorfer Weg 6  
**50829 Köln**  
Germany



	Telefon:	+49 (0) 180 / 5 01 65 65
	Telefax:	+49 (0) 180 / 5 51 07 00
	E-Mail:	info@gez.de

[www.gez.de](http://www.gez.de)

Contact address for Austria:

### AKM

Postfach 334/348  
Baumannstr. 8-10  
**1031 Wien**  
Austria



	Telefon:	+43 1 / 717 14
	Telefax:	+43 1 / 717 14 107

[www.akm.co.at](http://www.akm.co.at)

Contact addresses for Switzerland:

### SUISA



Bellariastrasse 82  
**8038 Zürich**  
Switzerland

	Telefon:	+41 1 / 48 56 666
	Telefax:	+41 1 / 48 24 333

[www.suisa.ch](http://www.suisa.ch)

### SSA

Rue Centrale 12  
Case Postale 3893  
**1002 Lausanne**  
Switzerland

	Telefon:	+41 21 / 31 34 467
	Telefax:	+41 21 / 31 34 476

[www.ssa.ch](http://www.ssa.ch)

**Connection options and music control**

The following connection options are available with the Ergoline sound systems for the control and playing of music.

**For Ergoline Evolution and Excellence**

Sound system with audio unit without integral music CD player, connected to an external music source:

This can be e.g. a pre-amplifier (CD player output), a pack amplifier (loudspeaker connection of a music amplifier) or a 100 V system. Four relay outputs are available for connection of an additional channel selection.

The volume and channel number can be selected on the control panel.

**For Ergoline Open Sun A.R.T. 600**

Sound system with basic audio unit (with integrated CD drive) connected to an external music source:

The music CD player of the audio unit can be combined with an external music source. You can control the volume as well as the track number or channel number of both music sources on the control panel.

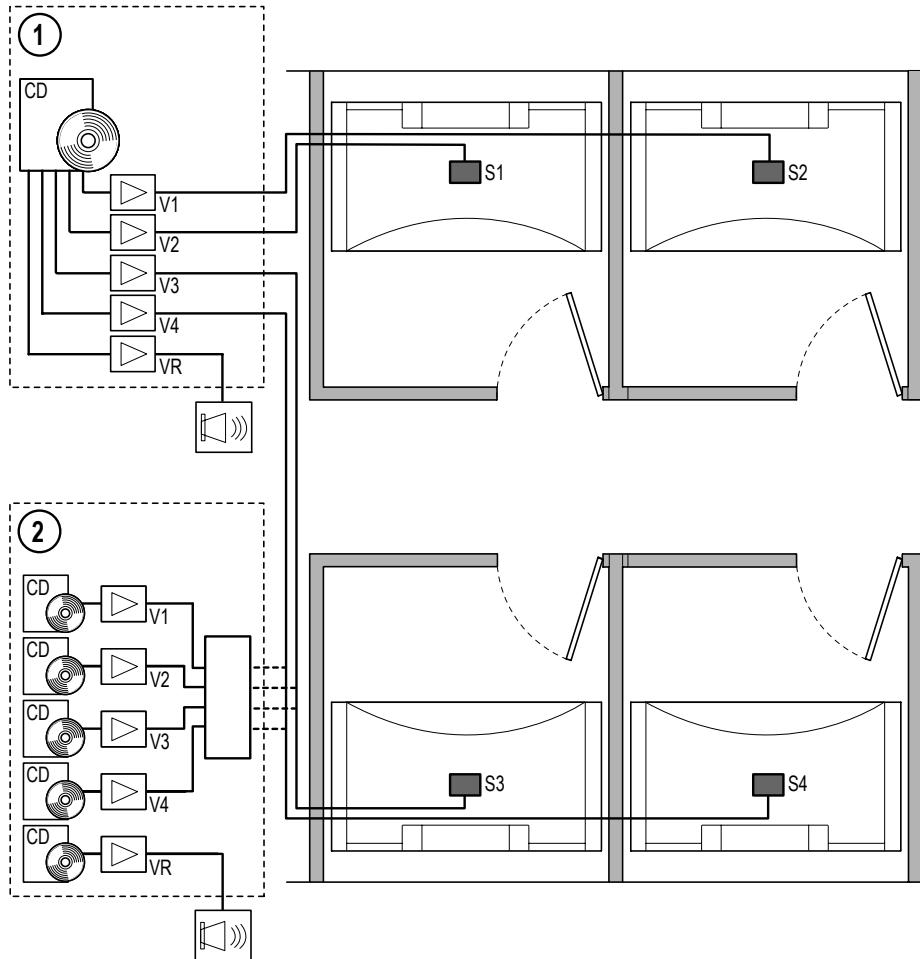
Accessories		Article No.	
7-channel distributor box	M	3451440	Connection of max. 8 audio units
Interface for the 7-channel distributor box (available on request)	M	–	Component for connection of VoiceGuide to the 7-channel distributor box
Transmitter	M	3452350	For some amplifiers for neutralising humming sounds

**For Ergoline Classic 8000 Ultra**

Sound system with audio unit (with integrated CD drive) as standalone solution:

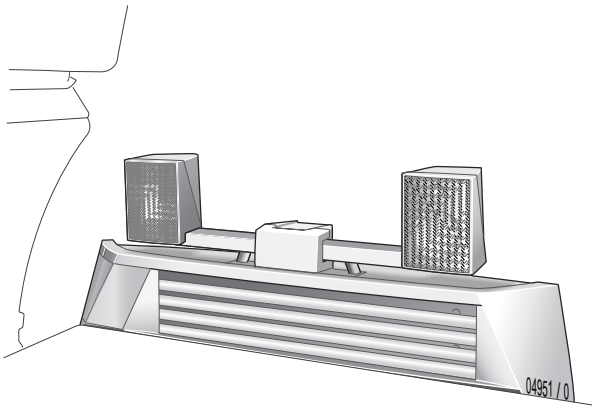
A music CD can be played in every sunbed. The volume and track number can be selected in the control panel. There is no need for complex wiring in the studio.

Planning examples



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1. Ergoline sound system with a CD player and one audio unit without channel selection per cabin  
**Effect:** The same music is played in all the cabins.
2. Ergoline sound system with 5 CD players and one audio unit with channel selection per cabin  
**Effect:** From each cabin, one of the CD players assigned to the four cabins can be selected.



3D sound is a high end sound system with integrated shoulder tanner for the Excellence and Evolution system series.

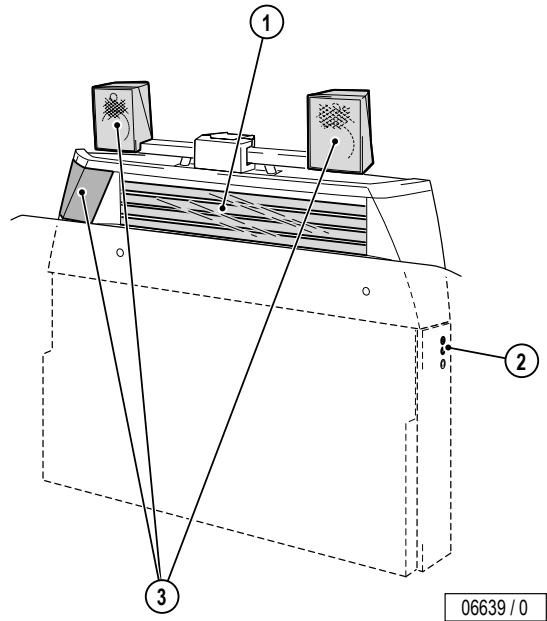
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Dimensions .....	2
Technical Data .....	3
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3D sound packages .....	3

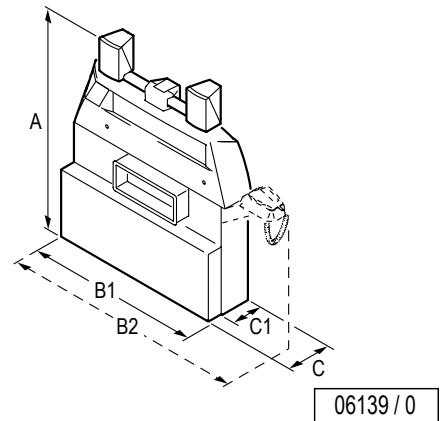
Device description

- 1. Shoulder tanner
- 2. Headset socket
- 3. Loudspeaker with subwoofer



Dimensions

A	850 mm
B1	760 mm
B2	996 mm
C	200 mm
C1	133 mm



**Technical Data**

Performance:	
Shoulder tanner	4 x 25 W (controlled via the tanning device) replaces production standard/optional shoulder tanner
Power supply:	via the tanning device
Colour:	Light silver-matt
Max. ambient temperature:	0 to 40 °C
Max. relative humidity:	70 %
Max. storage temperature:	0 to 50 °C
External connections:	none
Weight:	39.70 kg (with IQ sensor: 41.20 kg)

**Equipment**

	<b>Equipment:</b>
3D sound unit:	Shoulder tanner swivelling loudspeakers and sub-woofer sensor/base station as appropriate for IQ or APS systems
Not included:	The 3D sound unit does not include an audio unit

**3D sound packages**

Package	Part no.	Notes
3D sound unit without IQ/APS sensor	34592003	for devices without IQ/APS sensor
3D sound unit with IQ/APS sensor	34592006	for devices with IQ/APS sensor

3D sound

The devices Evolution 500 Turbo Power, Evolution 575 Turbo Power, Evolution 600, Evolution APS, Evolution IQ, Excellence 700, 800, Excellence APS, and Excellence IQ contain a complete sound system (depending on equipment):

- Circuit board with connection for
  - external music and channel selection
  - pre-amplifier and output amplifier
  - 100 V system
- Headphone jack including wiring harness
- Vibra panel loudspeaker in shoulder tanner

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## Contents

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Connecting an external music source with channel selection	2
Connecting an external music source without channel selection .....	2
<b>Vibra panel loudspeaker</b> .....	<b>3</b>
<b>VoiceGuide and Info</b> .....	<b>3</b>

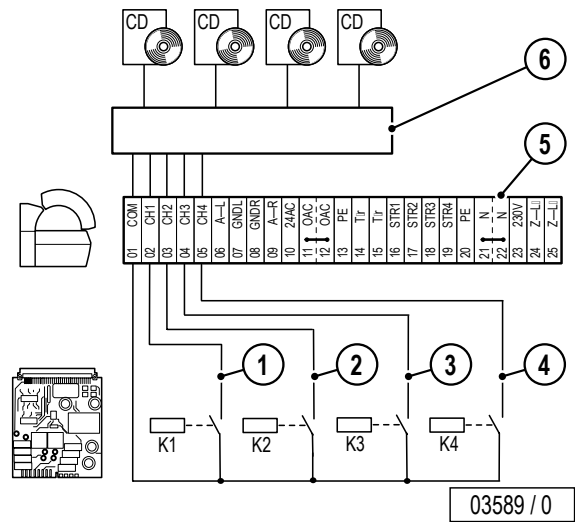
Sound System ...

Audio circuit board

Connecting an external music source with channel selection

One of four connected music sources can be selected.

1. Music channel 1
2. Music channel 2
3. Music channel 3
4. Music channel 4
5. Connection strip in sunbed
6. Distribution box, channel selection 1-4 (decimal, binary, pulse)



Connecting an external music source without channel selection

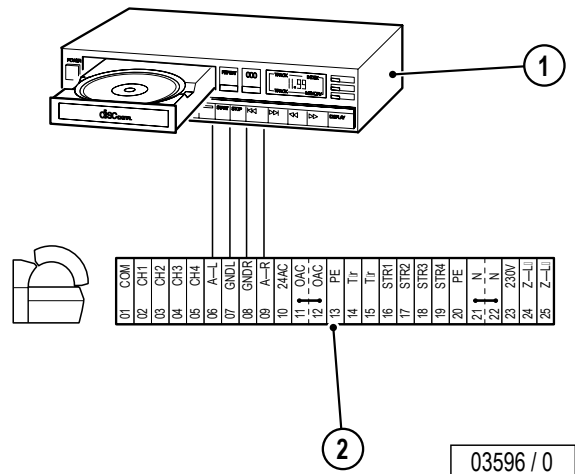
The connected music source can be switched on or off.

1. External music source
2. Connection strip in sunbed

- 06 / A-L Left-hand music channel +
- 07 / GNDL Left-hand music channel -
- 08 / GNDR Right-hand music channel -
- 09 / A-R Right-hand music channel +

Permissible input level:

Pre-amplifier: 600 mV to 3 V  
 or  
 Output amplifier: 5 V to 30 V  
 or  
 100 V system: 25 V to 150 V



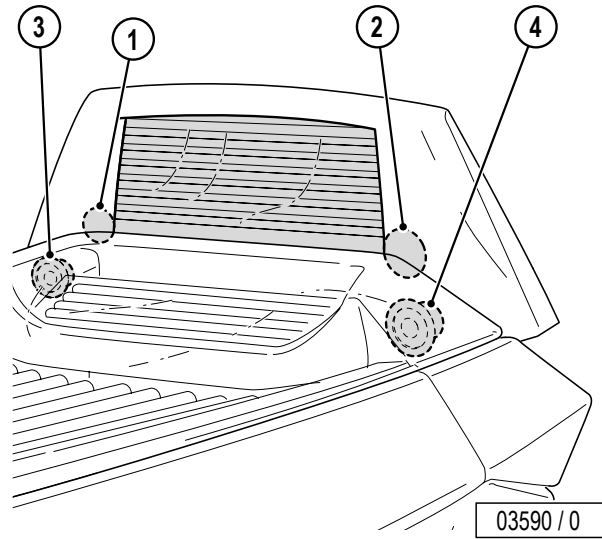


**Vibra panel loudspeaker**

A flat diaphragm loudspeaker is integrated in the panel of the shoulder tanner. Two tweeters (① right, ② left) and two woofers (right, ④ left) each are located on the sides.

The special characteristics of the Vibra panel loudspeaker are the homogenous sound dissemination and the higher sound output through the wider-angled emission characteristic. These properties ensure particularly good speech comprehension.

As an alternative to the serial loudspeaker set MULTIVISION or 3D sound can be installed as a play back device.



**VoiceGuide and Info**

The devices Evolution 500 Turbo Power, Evolution 575 Turbo Power, Evolution 600, Evolution APS, Evolution IQ, Excellence 700, 800, Excellence APS, and Excellence IQ contain a voice PCB for VoiceGuide and INFO depending on variant equipment.

The Vibra panel loudspeaker in the shoulder tanner is used for voice output.

The required operating buttons (Channel, Volume) are activated on the control panel.

The voice output module consists of 3 chips on a separate voice circuit board:

- Voice chip "Operating and Service" (VoiceGuide)
- Voice chip "Info Texts" (INFO)
- Microcontroller

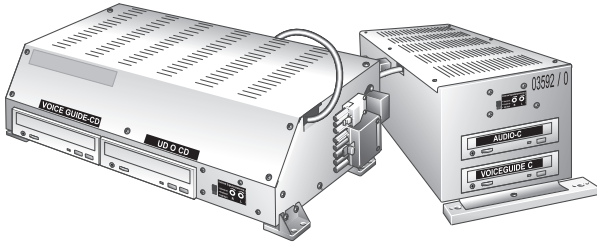
On request, it plays situational information to the user and the studio/service personnel:

- The VoiceGuide provides the customer with information about the step which has just been carried out in every situation.
- General audio sequences on the subjects of tanning/sunbeds can be called up by pressing the INFO button.
- The studio personnel can call up all the service functions and important diagnostics messages on the equipment.

The sunbed provides ready answers to your questions. There is no longer any need to search for the meaning of coded messages in the operating instructions. The VoiceGuide is immediately active every time a new tanning session begins, but if you require it can be switched off by pressing the information button.

On request and plus surcharge, additional modules in other languages can be delivered and installed, if necessary.

Sound System ...



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## Contents

Audio unit with VoiceGuide .....	2
Connecting an external music system to a VoiceGuide .....	3

Sound System ...

### Audio unit with VoiceGuide

The Open Sun A.R.T. 600 sunbed contains a complete sound system as standard (audio unit with VoiceGuide).

The scope of supply of a sound system on the above-mentioned sunbeds consists of:

- Control box (1) with internal CD drives for music (2) and speech (3) (VoiceGuide)
- Loudspeakers and headphone jack, with cable harness
- Control units for volume and channel selection or information reproduction
- Operating and assembly instructions

The assembly position for the control box with the audio unit and VoiceGuide is always located in the sunbed base.

For connection of older music systems it may be necessary to use an additional transmitter (Art. No. 3452350).

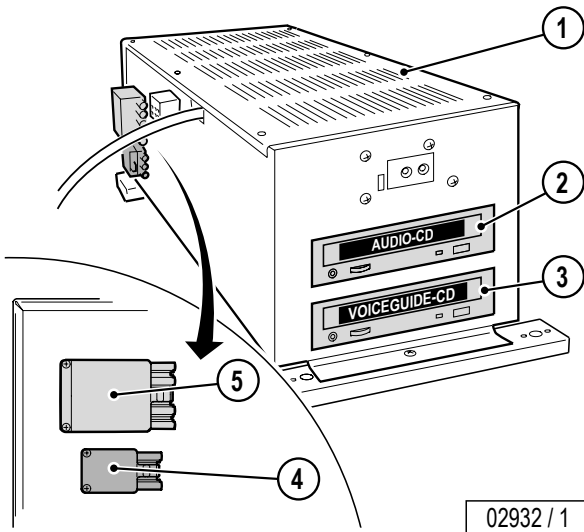
### VoiceGuide

On request, it plays situational information to the user and the studio/service personnel:

- The VoiceGuide provides the customer with information about the step which has just been carried out in every situation.
- General audio sequences on the subjects of tanning/sunbeds can be called up by pressing the INFO button.
- The studio personnel can call up all the service functions and important diagnostics messages on the equipment.

The sunbed provides ready answers to your questions. There is no longer any need to search for the meaning of coded messages in the operating instructions. The VoiceGuide is immediately active every time a new tanning session begins, but if you require it can be switched off by pressing the INFO button.

Connecting an external music system to a VoiceGuide

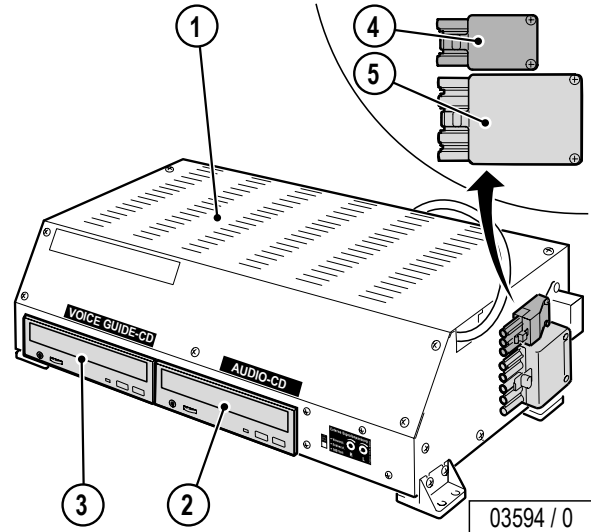


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An external music system is connected to an Ergoline sunbed with VoiceGuide by means of 2 plugged connections (plugs 91 and 92) on the control box (1) of the sunbed.

- Through jack 91 (4), Article No.: 79494, external music is supplied to the VoiceGuide and
- through jack 92 (5), Article No.: 50047, the channel selection of the Ergoline sunbed is supplied to the music system.

The jacks must be ordered as accessories from Ergoline. For detailed information about the installation, setting and operation of an external music system on an Ergoline sunbed with VoiceGuide, see the operating instructions of the appropriate sunbed.

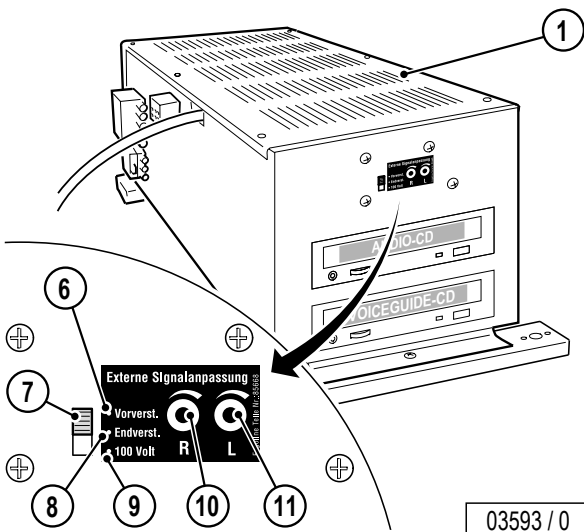


03594 / 0

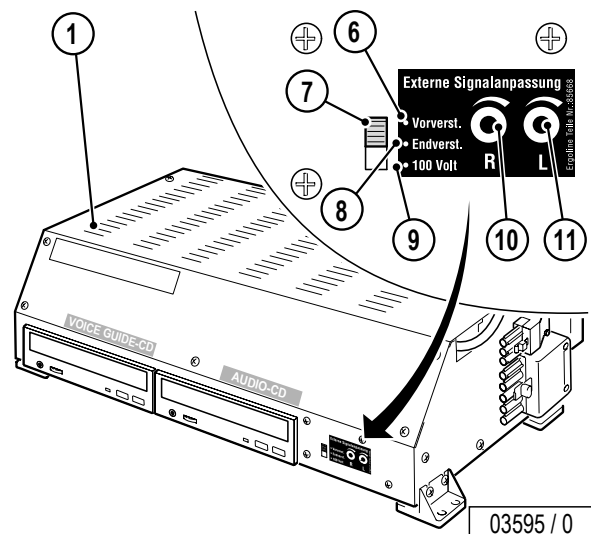
Volume adjustment during tanning is controlled by the sunbed's electronics system (see the operating instructions). The volume of the music signal connected to the sunbed must not be adjusted once the system has been connected.

To adjust the volume to the internal CD drives, there is a switch (7) in the control box (1) for coarse adjustment and two pre-set potentiometers (10 + 11) for fine-tuning. Depending on the position of the switch, the permissible levels of the input signal are as shown in the table below:

Switch position	Permissible input level
6 Pre-amplifier	600 mV to 3 V
8 Pack amplifier	5 V to 30 V
9 100 V system	25 V to 150 V



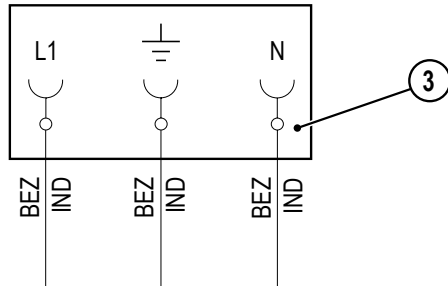
03593 / 0



03595 / 0

An interface for the Ergoline 7-channel distributor box (available on request) enables the connection of the VoiceGuide system to Ergoline's 7-channel distributor box. One interface is required per sunbed..

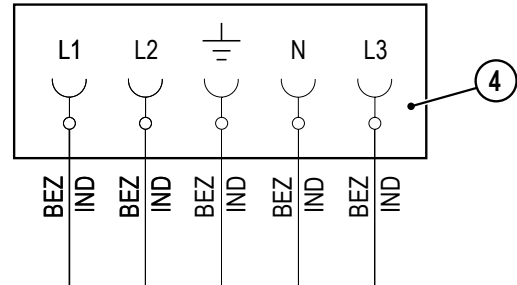
Connection arrangement at jack 91 (3) for music signals:



02934 / 0

Pin designation	Function
L1	Music signal external left
⊥	Common earth
N	Music signal external right

Connection arrangement at jack 92 (4) for channel selection:



02935 / 0

Pin designation	Function
L1	Relay 1 for channel selection
L2	Relay 2 for channel selection
⊥	Common contact
N	Relay 3 for channel selection
L3	Relay 4 for channel selection

The electrical limit values of the relay contacts are 100 V DC and 500 mA per contact.

The number of external audio channels can be selected in the service module "No. OF EXTERNAL AUDIO CHANNELS" in the range of 0 to 16. The setting "0" switches the use of external music sources Off.

You must determine the channel control depending on whichever music system is used. The Ergoline sound system supports the following channel controls:

- BCD code
- Pulse
- Decimal code

Article No.: 3452020

Article No.: 3452030

Article No.: 3452040

Article No.: 3452050

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## Contents

Audio unit for the Ergoline Classic 8000 Ultra. . . . . 2

## Audio unit for the Ergoline Classic 8000 Ultra

The scope of supply for Ergoline Classic 8000 consists of:

- Control box for audio unit
- Headphone jack including cable harness for loudspeaker connection
- Volume control and channel selection control, integrated in the operating cockpit
- Channel selection board
- Operating and assembly instructions

When fitting Ergoline sunbeds with a sound system, one audio unit per sunbed is required. Also, when more than one audio unit is installed, a single distributor box is necessary. Example: For a studio with 4 Ergoline Classic 8000, 4 audio units are required, but only one distributor box.

The distributor box enables you to connect and operate max. 7 amplifiers independently on up to 8 sunbeds.

Example: While the customer on sunbed 1 is listening to classical music, the customer on sunbed 5 can listen to pop music and the customer on sunbed 7 can listen to jazz.

The music signals are output via the headphone jack and can be controlled via the volume control over 8 volume levels.

The channel selection switch enables you to select the various CD players offering all kinds of different music.

Connection:

100 Volt amplifier (min. output 100 Watt)



### Caution!

Do not use an 8 Ω amplifier.



### Note:

When connecting to an external music installation, it is possible that some strong humming noises may arise. In such a case the use of a transmitter is recommended (Art. No.: 3452350).

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Performance and air requirements ..... 2

Inlet and exhaust air cross-sections..... 3

Maximum exhaust pipe length without additional ventilator ..... 4

Weights ..... 5



**Note:**

The assorted technical information in this chapter applies to all variants of each device type.



## Performance and air requirements

Ergoline professional sunbed	Capacity		Fuses <sup>1)</sup> Ampere	UV low pressure lamps	UV high pressure lamps	Temperature difference exhaust / supply air °C	Air requirement max. <sup>4)</sup> m <sup>3</sup> /h
	w/o	with		performance	performance		
	Air conditioner			Watt	Watt		
Excellence IQ Intelligent Power System	–	16500	3 x 35	51 x 120-180	4 x 520	15	2800
Excellence 800 Automatic Power System	–	18300	3 x 35	51 x 160	4 x 520	15	2800
Excellence 800 Turbo Power	–	18300	3 x 35	51 x 160	4 x 520	15	2800
Excellence 700 Automatic Power System	–	18300	3 x 35	51 x 160	4 x 520	15	2800
Excellence 700 Turbo Power	15000	18300	3 x 35	51 x 160	4 x 520	10 <sup>5)</sup> 15 <sup>6)</sup>	2800
Evolution IQ Intelligent Power System	–	12600	3 x 35	46 x 120-160	3 x 520	11	2800
Evolution 600 Automatic Power System	–	14500	3 x 35	46 x 160	3 x 520	11	2800
Evolution 600 Turbo Power	13300	14500	3 x 35	46 x 160	3 x 500	6 <sup>5)</sup> 11 <sup>6)</sup>	2800
Evolution 600 Super Power	9800	11000	3 x 25	46 x 100	3 x 500	6 <sup>5)</sup> 11 <sup>6)</sup>	2800
Evolution 575 Turbo Power	10100	11500	3 x 25	17 x 160 17 x 180	45 x 25 <sup>7)</sup>	6 <sup>5)</sup> 11 <sup>6)</sup>	2800
Evolution 500 Automatic Power System	–	13900	3 x 35	43 x 160	3 x 520	11	2800
Evolution 500 Turbo Power	12700	13900	3 x 35	43 x 160	3 x 500	6 <sup>5)</sup> 11 <sup>6)</sup>	2800
Evolution 500 Super Power	8400	–	3 x 16	43 x 100	3 x 400	6	2800
Advantage 400 Automatic Power System	9700	–	3 x 20	40 x 160	3 x 400	7 <sup>5)</sup>	2700
	–	10700	3 x 25	40 x 160	3 x 400	10 <sup>6)</sup>	
Advantage 400 Turbo Power	9700	–	3 x 20	40 x 160	3 x 400	7 <sup>5)</sup>	2700
	–	10700	3 x 25	40 x 160	3 x 400	10 <sup>6)</sup>	
Advantage 400 Super Power	7700	–	3 x 16	40 x 100	3 x 360	7	2700
Advantage 350 Turbo Power	9600	–	3 x 20	38 x 160	3 x 400	10	2700
Advantage 350 Super Power	7600	–	3 x 16	38 x 100	3 x 360	7	2700
Ambition 250 Super Power	6300	–	3 x 16	36 x 100	3 x 400	15	1600
Lounge Turbo Power	12500	–	3 x 25	50 x 180	–	10	2900
Open Sun A.R.T. 600 Super Power	13300	–	3 x 25	17 x 100	4 x 700 <sup>2)</sup> 6 x 800 <sup>3)</sup>	11	2500
Open Sun A.R.T. 450 Super Power	8300	–	3 x 16	45 x 100	2 x 600	10	2100
Classic 300 Super Power	7000	–	3 x 16	38 x 100	3 x 400	15	950
Classic 200 Super Power	6200	–	3 x 16	32 x 100	3 x 400	15	950
Classic 8000 Ultra	5500	–	3 x 16	–	6 x 500	8	1200

1) All the tanning devices are connected to 400-415V ~3N only delay-action fuses must be used.  
The specified connection voltages must lie within a tolerance range from +/- 5% to retain the guaranteed output data for Ergoline sunbeds.

- 2) Feet area  
3) Upper-body area  
4) Ambient temperature max. 25 °C and inlet air max. 40 °C  
5) without air conditioner  
6) with air conditioner  
7) UV low pressure lamps (25W) in canopy and side part

With the electrical connected rating in a studio, a simultaneity factor of 1 must be expected.

**Inlet and exhaust air cross-sections**

Ergoline professional sunbed	Exhaust air cross-sections without exhaust air system	Pipe $\varnothing$	Cabin Inlet air cross-section at 1.5 m/s	Inlet and exhaust air cross-sections with exhaust system
	Exhaust air <sup>1)</sup> cm <sup>2</sup>	mm	cm <sup>2</sup>	Exhaust air cm <sup>2</sup>
Excellence IQ				
Excellence 800	588	300	5200	710
Excellence 700				
Evolution IQ				
Evolution 600				
Evolution 575	588	300	4200	710
Evolution 500				
Advantage 400				
Advantage 350	430	300	5000	710
Ambition 250	802	–	–	–
Lounge	430	300	5370	710
Open Sun A.R.T. 600	435	300	4000	710
Open Sun A.R.T. 450	550	250 (300) <sup>2)</sup>	4100	490 (710) <sup>2)</sup>
Classic 300				
Classic 200	450	250	1300	490
Classic 8000 Ultra	430	–	2200	–

1) Device exit opening  
 2) Can be extended

### Maximum exhaust pipe length without additional ventilator

#### Calculation base (without additional ventilator):

Back pressure	100 Pascal
Air pressure	100,000 Pascal
Air temperature	40 °C
Density	1.112 kg/m <sup>3</sup>
Dynamic inertia of the air	1.92E-05 Pa x s

Ergoline professional sunbed	Corrugated pipe ∅ mm	Roughness (at centre) k <sub>absolute</sub> mm	Flow volume m <sup>3</sup> /h	Loss coefficient		90° bend in line (metal) pieces	Permissible length of straight line m
				of bend	of pipe		
Excellence IQ / 800 / 700	300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
						1	9
						2	8
						3	7
Evolution IQ / 600 / 575 / 500	300	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
						1	9
						2	8
						3	7
Advantage 400 / 350	300	8	2300	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	12
						1	11
						2	10
						3	9
Lounge	300	8	2600	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	10
						1	8.5
						2	7.5
						3	6
Open Sun A.R.T. 600	250	8	2500	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	12
						1	10
						2	8
						3	6
Open Sun A.R.T. 450	300	8	2150	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	12
						1	10
						2	8
						3	6
Classic 300 / 200	250	8	950	0.182 <sup>1)</sup>	0.21 <sup>1)</sup>	0	8
						1	6
						2	4
						3	2

1) zeta value (ζ)

Permissible only for direct connection of the exhaust air from inside to outside via a special canal system with pipe bends with smooth surfaces.

**Weights**

Ergoline professional sunbed	without air conditioner	with air conditioner
	kg <sup>1)</sup>	kg <sup>1)</sup>
Excellence IQ Intelligent Power System	–	681
Excellence 800 Automatic Power System	–	649
Excellence 800 Turbo Power	–	647
Excellence 700 Automatic Power System	–	680
Excellence 700 Turbo Power	618	678
Evolution IQ Intelligent Power System	–	626
Evolution 600 Automatic Power System	–	636
Evolution 600 Turbo Power	556	634
Evolution 600 Super Power	556	634
Evolution 575 Turbo Power	567	637
Evolution 500 Automatic Power System	562	630
Evolution 500 Turbo Power	560	628
Evolution 500 Super Power	504	–
Advantage 400 Automatic Power System	405	473
Advantage 400 Turbo Power	403	–
Advantage 400 Super Power	373	–
Advantage 350 Turbo Power	388	–
Advantage 350 Super Power	368	–
Ambition 250 Super Power	265	–
Lounge Turbo Power	546	–
Open Sun A.R.T. 600 Super Power	450	–
Open Sun A.R.T. 450 Super Power	547	–
Classic 300 Super Power	232	–
Classic 200 Super Power	226	–
Classic 8000 Ultra	340	–

1) all datas are round figures

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*Ergoline*