

Turbo Power
Super Power

Advantage 400

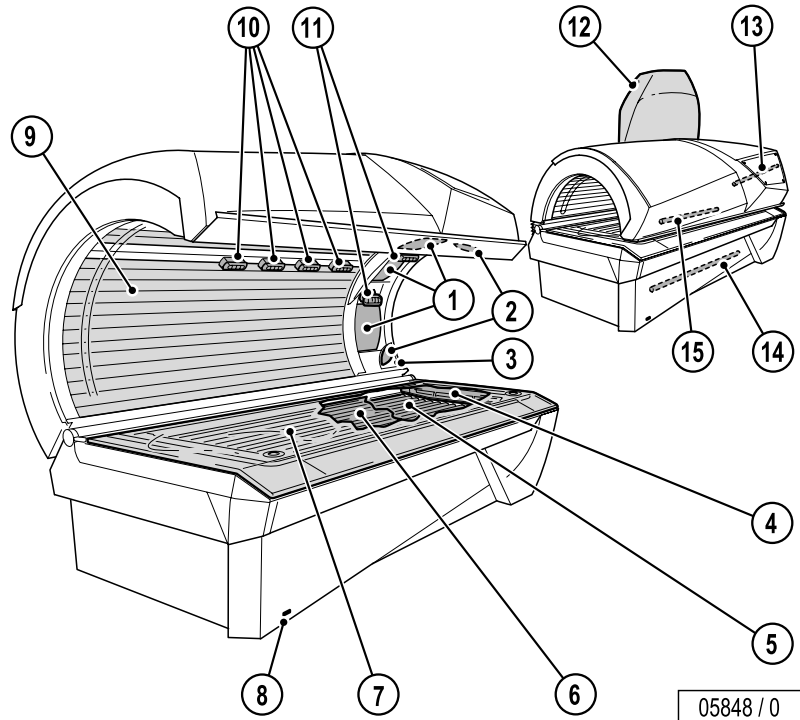
Contents

Device description	2
Technical Data	3
Technical Data – Advantage 400 Turbo Power	3
Technical Data – Advantage 400 Super Power	3
Dimensions	4
Maximum exhaust pipe lengths	5
Equipment cooling	5
Surround cooling	6
Exhaust air accessories	6
Electrical connections	7
Sound system	7
Controls	7
Air conditioner	7
IR Interface	7

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

Technical Data – Advantage 400 Super Power

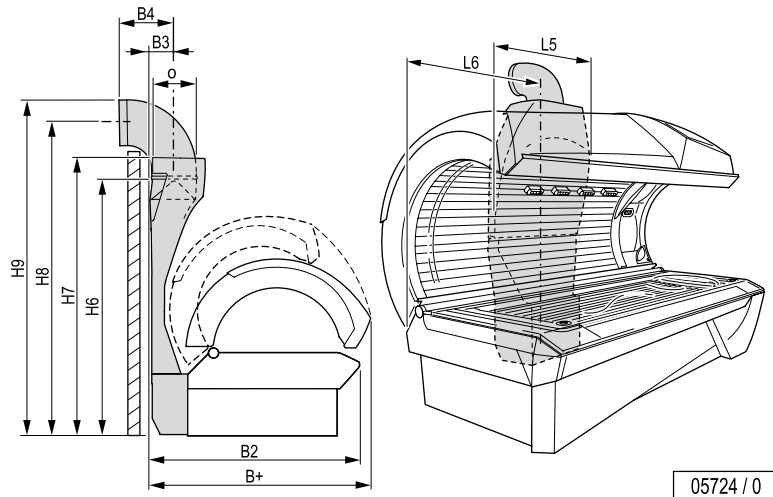
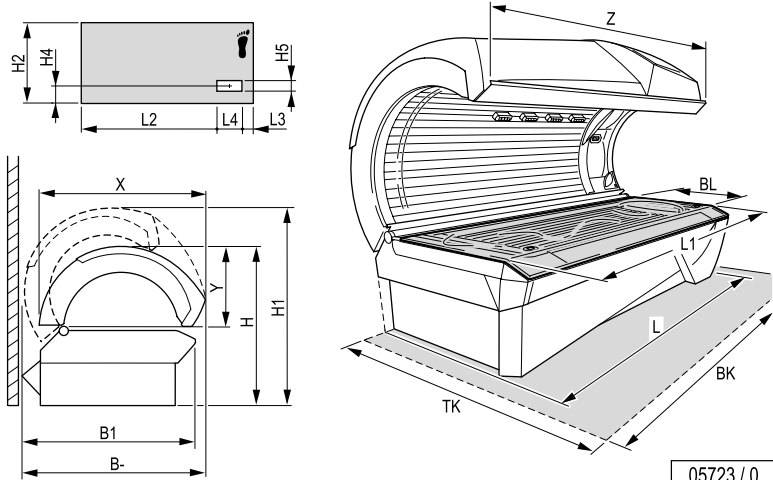
Electrical data	
Nominal power consumption:	
without Air conditioning:	7700 W
Nominal voltage:	400 – 415 V ~3N
Nominal frequency:	50 Hz
Rated fusing:	3 x 16 A (time-delay)
Performance:	
Canopy:	
UV low pressure lamps	26 x 100 W
UV high pressure lamps	3 x 360 W
Lower part:	
UV low pressure lamps	14 x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

Noise emission	
Acoustic pressure level:	66.4 db (A)
Inlet and exhaust air	
Temperature difference, supply/exhaust air:	
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

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 ³
Dynamic inertia of the air	1.92E-05 Pa x s

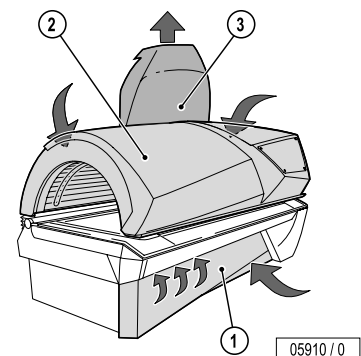
Corrugated pipe ∅	Roughness (at centre) k _{absolute}	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m ³ /h	of pipe	of bend	pieces	m
300	8	2300	0.182 ¹⁾	0.21 ¹⁾	0	12
					1	11
					2	10
					3	9

Smooth pipe ∅	Roughness (at centre) k _{absolute}	Flow volume	Loss coefficient		90° bend in line (metal)	Permissible length of straight line
mm	mm	m ³ /h	of pipe	of bend	pieces	m
300	0.1	2300	0.061 ¹⁾	0.21 ¹⁾	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.



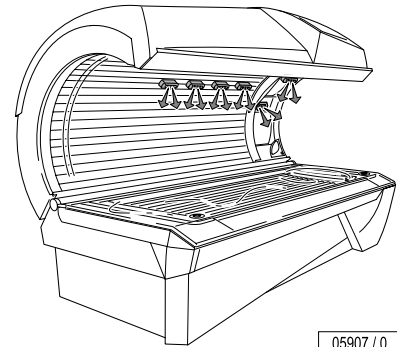
05910 / 0

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.

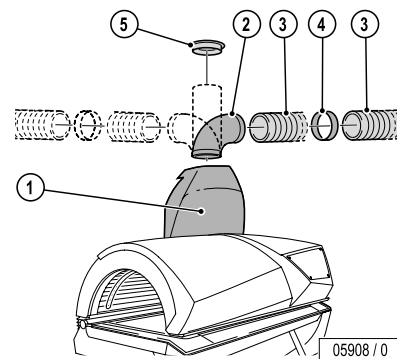
The apertures intended for this purpose are located above the central exhaust air bracket.

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 with 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 without 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

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).