



ORBICAR W trolley with integrated liquid cooling

Cooling systems for ORBIMAT

ORBICAR W trolley with integrated liquid cooling

The ORBICAR W trolley is the perfect accessory for the Orbitalum power supplies* due to the integrated liquid cooling. Beside the liquid coolant, the trolley is equipped with a practical holder for gas bottles.

The tank already contains 8 liters (2.11 gal) of the OCL-30 coolant at delivery (see page 17).

TECHNICAL DATA	ORBICAR W TROLLEY
Input voltage	400 V, 50 Hz, 3 phase
Rated power	450 VA
Cooling type	Convection cooling
Liquid tank contents	8 l / 2.11 gal
Water pressure max.	3.1 bar / 45 PSI
Dimensions (lxwxh)	96 x 54 x 113 cm / 37.8" x 21.3" x 44.5"
Dimensions working top (lxwxh)	65 x 38 x 65 cm / 26.6" x 15" x 26.6"

ARTICLE	SUITABLE FOR ORBIMAT	CODE	KG
ORBICAR W 300 trolley	300 CA, 300 CA AC/DC, 300 CB, 300 CA AVC/OSC	884 000 002	58.200
ORBICAR W 165 trolley*	165 CA*, 165 CB*	884 000 004	58.200
ORBICAR W 180 trolley	180 SW	884 000 005	58.200

* ORBIMAT 165 power sources must be retrofitted at the factory

ORBICOOL Active

Very efficient compressor cooling device. Particularly suitable for welding units in series production.

Including:

- Stainless steel housing
- Adjustable digital thermostat with temperature hysteresis
- Low-noise
- Metal filter cell
- Water level indicator
- Pump protection
- Flow rate monitoring in combination with ORBIMAT current sources

The device includes 2 cans, each with 3.5 liters (0.92 gal) of the OCL-30 coolant (see page 17). Suitable for all* ORBIMAT orbital welding power supplies). Not suitable for use in combination with the ORBICAR S trolley.



ORBICOOL Active (front view)



ORBICOOL Active (rear view)

TECHNICAL DATA	ORBICOOL ACTIVE
Coolant capacity (at ambient temp. +32 °C / water +20 °C)	1.025 kW / 1.37 hp
Setting range inlet temperature	18 - 25 °C
Input voltage	230 V, 50 Hz
Connected load (at ambient temp. +42 °C / water +20 °C)	900 W / 1.21 hp
Maximum power consumption (depending on the version)	4.6 A
Tank contents	6 l / 1.59 gal
Water pressure max.	2.2 bar
Pump output	2.3 l/min
Air output	800 m ³ /h
Sound pressure	65 dB(A)
Cooling type	Compressor cooling
Dimensions (lxwxh)	560 x 475 x 355 mm / 22.0" x 18.7" x 14.0"

ARTICLE	VERSION	CODE	KG
ORBICOOL Active for ORBIMAT 165 CA*	230 V, 50 Hz	889 000 011	42.000
ORBICOOL Active for ORBIMAT 300 CA	230 V, 50 Hz	889 000 012	42.000
ORBICOOL Active for ORBIMAT 180 SW	230 V, 50 Hz	889 000 015	42.000

* ORBIMAT 165 power sources must be retrofitted at the factory

ORBITAL WELDING POWER SUPPLIES & ACCESSORIES

Other accessories for ORBIMAT

Power connector adapter set

See page 83.



Power connector adapter set

ORBITWIN SW switching device

To increase productivity, the switching unit ORBITWIN is available which allows the alternately operation with 2 weld heads on the ORBIMAT.

The previously assigned program is recalled automatically when the start key of the weld head is actuated. The weld head that is not being used is locked and can be prepared for the next welding operation.

Including all connecting cables and hoses.



ORBITWIN SW switching device

ARTICLE	SUITABLE FOR ORBIMAT	CODE	KG
ORBITWIN SW switching device	180 SW, 165 CA*, 300 CA*, 300 CA AC/DC*	853 000 001	
Connector set ORBITWIN SW to ORBIMAT CA	165 CA, 300 CA, 300 CA AC/DC	853 050 010	
Connection extension set 1.1 m (3.6 ft)	180 SW	853 050 011	

* ORBITWIN SW only applicable with ORBIMAT 165 CA, 300 CA and 300 CA AC/DC in combination with the "Connector set ORBITWIN SW to ORBIMAT CA" (sold separately, see table above).

ORBICAR S trolley

The ORBICAR S is a practical trolley with storage shelf and an option of securing a gas cylinder and is the perfect addition to the Orbitalum 165 A and 180 SW orbital welding power sources.

Not suitable for use in combination with the compressor cooling device ORBICOOL Active.



ORBICAR S trolley

TECHNICAL DATA	ORBICAR S TROLLEY
Dimensions (lxwxh)	96 x 54 x 113 cm / 37.8" x 21.3" x 44.5"
Dimensions working top (lxwxh)	65 x 38 x 65 cm / 26.6" x 15" x 26.6"

ARTICLE	CODE	KG
ORBICAR S trolley	884 000 001	19.100

Storage and shipping case

With castors. Protects the power supply during transport. Perfect for the use on construction sites.

ARTICLE	SUITABLE FOR ORBIMAT	CODE	KG
Storage and shipping case 165	165 CA, 165 CB	875 050 002	17.500
Storage and shipping case 300	300 CA, 300 CA AC/DC, 300 CB	874 050 001	20.800
Storage and shipping case 180 SW	180 SW	850 030 020	18.700



Storage and shipping case
165/300

Storage and shipping case
180 SW



Soft-/Hardware package "CA"



CompactFlash Card ORBIMAT CA/CB



Remote control with cable



Bar code/QR code scanner SW

Soft-/Hardware package "CA"

Suitable for all ORBIMAT CA orbital welding power supplies.
For external programming and data documentation, consisting of:

- 1 CompactFlash card for transferring data between the machine and PC. For storing weld data protocols or for extending the program memory. Capacity to store over 5.000 welding programs.
- 1 USB card reader for exporting the CompactFlash card on the PC.
- Software ORBIPROG CA. ORBIPROG_CA software allows programs and protocols to be stored on the PC. The parameters of the CA programs can be edited using the software and can be transferred back to CA models and used there after processing. Additionally, programs from C-series machines (e.g. OM 160 C) can be converted to CA format with the help of software. The parameters of the CA programs can be edited using the software and can be transferred back to CA models and used there after processing.

ARTICLE	CODE	KG
Soft-/Hardware package "CA"	875 050 003	0.488

Storage media

For storing weld data protocols or for extending the program memory.
Capacity to store over 5.000 welding programs.

When the software/hardware package "CA" is purchased, **1 CompactFlash Card ORBIMAT CA/CB** is already included in the scope of delivery.

ARTICLE	CODE	KG
CompactFlash Card ORBIMAT CA/CB	875 012 056	0.010
USB stick ORBIMAT SW	850 030 001	

Remote control with cable

Suitable for all ORBIMAT orbital welding power supplies. 1 remote control with cable is already included in the scope of delivery of the ORBIMAT 300 CA AVC/OSC. The remote control is not required when working with enclosed orbital weld heads.

Remote control including "**Remote control adapter OM CA/CB to OM 180 SW**" (code 850 040 030). This adapter can be retrofitted at any time and allows the connection of older remote control units to the new power supply generation ORBIMAT 180 SW.

ARTICLE	CABLE LENGTH [M]	CABLE LENGTH [INCH]	CODE	KG
Remote control with cable	7.5	24.6	875 050 001	1.350
Remote control adapter OM CA/CB to OM 180 SW (retrofitting)	-	-	850 040 030	0.118

Bar code/QR code scanner SW

Compatible with the ORBIMAT 180 SW.
For welding data documentation or recording.
Rapid scanning in of the parameters stored in the bar code/QR code (e.g. weld seam number, isometry number, welder ID, etc.) into the power supply.

ARTICLE	CODE	KG
Bar code/QR code scanner SW	850 030 005	0.250

ORBITAL WELDING POWER SUPPLIES & ACCESSORIES

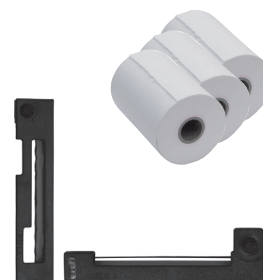
Consumables for ORBIMAT

Paper rolls and ribbon cartridges

For integrated system printer. Suitable for all ORBIMAT orbital welding power supplies.

1 paper roll and 1 ribbon cartridge are already included in the scope of delivery of the ORBIMAT orbital welding power supplies.

ARTICLE	CODE		KG
Paper rolls for integrated printer, pack of 3	875 050 017		0.150
Ribbon cartridge for integrated printer CA/SW	875 030 004		0.010
Ribbon cartridge for integrated printer CB	875 030 002		0.020



Paper rolls and ribbon cartridges for integrated printer

OCL-30 coolant

Anti-freeze pre-mix for ORBIMAT power supplies and cooling units to avoid freezing of the cooling liquid. Applicable up to -30 °C (-22 F) outside temperature. Increased service life of components of the cooling system through very high corrosion protection and high pH-value. For even better ignition characteristics due to low conductivity. Clear coolant liquid.

Applicable with ORBICAR W, ORBICOOL Active, ORBIMAT 165 CB, 165 CA and 180 SW.

1 can is already included in the scope of delivery of the ORBIMAT 165 CA and 180 SW orbital welding power supply.

ARTICLE	VERSION	CODE		KG
OCL-30 coolant	Canister with 3.5 l (0.92 fl oz)	850 030 010		3.715



OCL-30 coolant

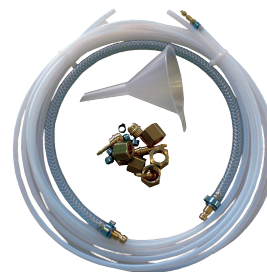
Hose connection set ORBIMAT

1 hose connection set is already included in the scope of delivery of the ORBIMAT orbital welding power supplies.

Set, consisting of:

- Teflon gas hose
- Ear clamps with insert
- Hose clips 3/8"
- Liquid hose for tank ventilation
- Gas input connector
- Swivel nuts 3/8"
- Hose clips 1/4"
- Swivel nuts 1/4"
- Funnel

ARTICLE	CODE		KG
Hose connection set ORBIMAT	875 030 018		0.445



Hose connection set ORBIMAT

Other accessories for orbital welding

- ESG tungsten grinders, see page 75
- ORBmax residual oxygen meter, see page 79
- ORBIPURGE forming set, see page 82
- Pressure regulator, see page 83
- WS2 tungsten electrodes, see page 83
- TIG manual welding torch for ORBIMAT, see page 84
- Power connector adapter set, see page 83

ORBITAL WELDING POWER SUPPLIES & ACCESSORIES