



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 300 A 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 13).

TECHNICAL DATA	ORBICAR W TROLLEY
Liquid tank contents	8 l / 2.11 gal
Cooling type	Convection cooling
Dimensions (lxwxh)	107 x 52.5 x 113 cm 42.1" x 20.7" x 44.5"

ARTICLE	SUITABLE FOR ORBIMAT	CODE	KG
ORBICAR W trolley with integrated liquid cooling	300 CA, 300 CA AC/DC, 300 CB, 300 CA AVC/OSC	<b>884 000 002</b>	58.200
ORBICAR W trolley with integrated liquid cooling*	165 CA*, 165 CB*	<b>884 000 004</b>	58.200

\* ORBIMAT 165 power sources must be retrofitted at the factory



ORBICOOL Active (front view)

### 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

Suitable for all\* ORBIMAT orbital welding power supplies.  
Not suitable for use in combination with the ORBICAR S trolley.



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 230 V, 60 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 m³/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	CODE	KG
ORBICOOL Active for ORBIMAT 165 CA/CB*	<b>889 000 001</b>	40.000
ORBICOOL Active for ORBIMAT 300 CA/CB	<b>889 000 002</b>	40.000

\* ORBIMAT 165 power sources must be retrofitted at the factory

## Other accessories for ORBIMAT

### ORBITWIN switching devices

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.

ARTICLE	SUITABLE FOR ORBIMAT	CODE	KG
ORBITWIN 165 CB switching device	165 CB	860 000 001	8.800
ORBITWIN 165 CA switching device	165 CA	861 000 001	8.800
ORBITWIN 300 switching device	300 CA, 300 CA AC/DC, 300 CB	876 000 001	8.800



ORBITWIN 300 switching device

### 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 orbital welding power sources.

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

TECHNICAL DATA	ORBICAR S TROLLEY
Dimensions (lxwxh)	107 x 52.5 x 113 cm 42.1" x 20.7" x 44.5"



ORBICAR S trolley

ARTICLE	CODE	KG
ORBICAR S trolley	884 000 001	19.100

### Durable 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
Durable storage and shipping case 165	165 CA, 165 CB	875 050 002	17.500
Durable storage and shipping case 300	300 CA, 300 CA AC/DC, 300 CB	874 050 001	20.800



Durable storage and shipping case  
(ORBIMAT 300 CA not included in the scope of delivery)



BUP control box (incl. ORBIPURGE forming set)

## BUP control box

The power supplies of the ORBIMAT CA series offer the option in conjunction with the BUP control attachment (BUP = Backup Pressure Control) to adjust the forming gas pressure in the inner tube via a pressure sensor, which compensates almost entirely the often undesirably occurring of the seam weld into the sump position. At the same time, the gas pressure is modified automatically during welding by the system between a programmable minimum and maximum value depending on the position of the electrodes.

Including ORBIPURGE forming set for tube ID 12 - 110 mm (0.472" - 4.331"), see page 82.

As an addition we recommend the bar pressure regulator "Argon", see page 46.

TECHNICAL DATA		BUP CONTROL BOX		
Input		Argon/Argon mix		
Recommended input pressure		6 bar/87 PSI		
ARTICLE	SUITABLE FOR ORBIMAT	CODE		KG
BUP control box	165 CA, 300 CA	<b>886 000 001</b>		2.700



Soft-/Hardware package

## Soft-/Hardware package

Suitable for all ORBIMAT 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	<b>875 050 003</b>		0.488



CompactFlash Card

## CompactFlash Card

For storing weld data protocols or for extending the program memory.

1 CompactFlash Card is already included in the scope of delivery of the Soft-/Hardware package. Capacity to store over 5.000 welding programs.

ARTICLE	CODE		KG
CompactFlash Card	<b>875 012 056</b>		0.010



Remote control with cable

## 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.

ARTICLE	CABLE LENGTH [M]	CABLE LENGTH [INCH]	CODE		KG
Remote control with cable	7.5	24.6	<b>875 050 001</b>		1.350

### ORBITAL WELDING POWER SUPPLIES & ACCESSORIES

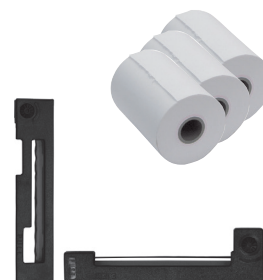
## Consumables for ORBIMAT

### 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	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 and 165 CA.

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

ARTICLE	VERSION	CODE	KG
OCL-30 coolant	Canister with 2 l (67.6 fl oz)	875 030 015	2.220



OCL-30 coolant

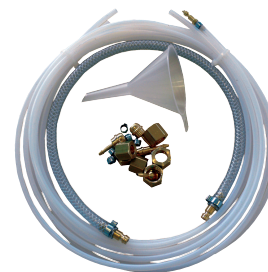
### Hose connection set ORBIMAT

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