

# TURBOVAC i/iX

# Power Supply TURBO.POWER integra

## Brief Instructions 300450827\_002\_C0

P/N 800100V0003

#### **Description**

The TURBO.POWER integra is a power supply unit for powering the following turbomolecular pumps:

TURBOVAC (T) 350 i / iX, (T) 450 i / iX TURBOVAC (T) 350/xx i, (T) 450/xx i TURBOVAC 350/xxx/xx i / iC TURBOVAC 400/xxx/xx i / iC

The mains input is protected by a fuse.

The TURBO.POWER integra can be fitted to the pump or utilized as a benchtop unit.



Power supply unit, 30 cm long cable TURBOVAC i/iX - TURBO.POWER integra and 3 bolts and 3 distance bolts for fitting to the pump, 3 feet for utilization as a benchtop unit.



800096V0100
800096V0300
800096V0500
800102V0002
800102V0003
800102V1002



Fig. 1 TURBO.POWER integra

## **Technical Data**

100 - 240 VAC, 50/60 Hz
403 VA
86 %
1.28 mA / 230 VDC
2.5 A, slow-blow
24 V ± 5% (SELV)
10 A
288 W
1.2 kg
IP 40
5 – 45 °C -15 – +70 °C
5 to 85 % non condensing
II
2
61000-6-2 Industry
61000-6-3 Household
2000 m above sea level, up to 3000 m with 1%/100 m derating
15 mT
10 <sup>5</sup> rad (10 <sup>3</sup> Gy)

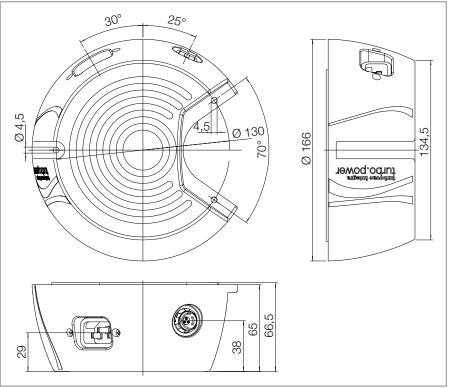


Fig. 2 Dimensional drawing; dimensions in mm

#### Installation

Note the safety information given in the Operating Instructions for the pump.

Connect or disconnect cable connections only provided the consumers are non-operative **and** after having switched off the mains power first. Connecting or disconnecting the cable connections with the mains power present or with the pump turning, can destroy the components.

The TURBO.POWER integra must only be opened by certified Leybold Service Centres. Opening by unauthorised personnel voids warranty.

Note also the information given in the Operating Instructions for the pump.

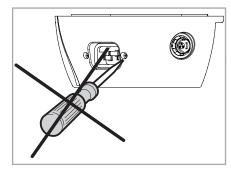
#### CAUTION





### **NOTICE**





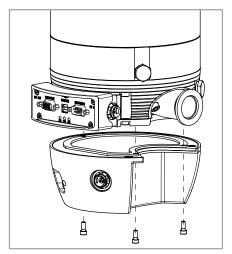


Fig. 3 Fitting to the pump

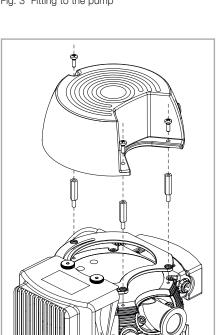


Fig. 5 Fitting to the pump with distance bolts

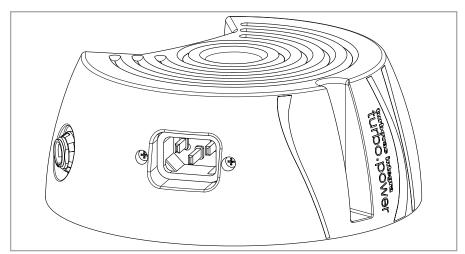


Fig. 4 Benchtop unit

#### Installation to the pump

Affix the power supply unit using 3 bolts screwed into the holes provided on the TURBOVAC. If the power supply unit is mounted together with the radial air cooler use the supplied distance bolts.

#### Utilization as a benchtop unit

Fix the supplied adhesive feet to the power supply and place the unit on an even, level surface.

Insert the connecting cable between pump and TURBO.POWER integra. The necessary 0.3 m long connecting cable is included in the delivery. For utilization as a benchtop unit, longer connecting cables are available as an acces-

The TURBO.POWER integra is not equipped with a mains switch. As soon as the mains cable has been connected, the unit will power up. Then the yellow LED at the frequency converter lights up.

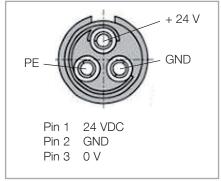


Fig. 6 Pin assignment at the power supply unit

#### **Operation**

The turbomolecular pump and the TURBO.POWER integra must only be operated if installed in compliance with the information provided in the Operating Instructions.

#### **CAUTION**



#### Switching on

Plug the mains cable in. Secure the mains cable so that it cannot be pulled out inadvertently. The mains power supply must be coordinated (have an earth connection).

Switch the turbomolecular pump on and then off, see Operating Instructions for the turbomolecular pump. The turbomolecular pump will only start when inserting the mains cable provided a start command is present.

#### **Shutting down**

Switch off the pump at the frequency converter.

After switching off, the green status LED will flash until the rotor of the turbomolecular pump is at standstill. This may take several minutes. With the DC power supply off, the turbomolecular pump will act as a generator supplying the frequency converter with energy as indicated by the yellow power LED.

To shut down the frequency converter, switch the pump off and wait until the rotor of the turbomolecular pump has arrived at standstill (green status LED off).

Then disconnect the mains plug.

#### **Emergency shut down**

For emergency shutdown disconnect the mains plug.

#### Maintenance

The TURBO.POWER integra is maintenance free. Repairs must only be done by Leybold.

During all work on the, the system must be protected against being switched on. For this disconnect the mains plug.





# **EU Declaration of Conformity**

(Translation of original Declaration of Conformity)

The manufacturer:

Leybold GmbH Bonner Strasse 498 D-50968 Köln Germany

herewith declares that the products specified and listed below which we have placed on the market, comply with the applicable EU Council Directives. This declaration becomes invalid if modifications are made to the product without agreement of Leybold GmbH.

Product designation:

Power Supply

Type designation:

TURBO.POWER integra

Part numbers:

800100V0003

The products complies to the following European Council Directives:

Low Voltage Directive (2014/35/EU)

Electromagnetic Compatibility (2014/30/EU)

The following harmonized standards have been applied:

EN 61010-1:2010

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

EN 61326-1:2013

Electrical equipment for measurement, control and laboratory use — EMC requirements — Part 1: General requirements

Emissions: Group 1, Class B

Immunity: Industrial electromagnetic environment

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