

XDD1 DIAPHRAGM VACUUM PUMP

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XDD1 diaphragm pumps are compact and efficient pumps, used for backing small compound turbomolecular pumps in clean, high vacuum applications, and also designed to be free standing bench top units. A typical ultimate pressure of better than 5 x 10^{-8} mbar can be achieved when using an XDD1 to back a $70~\rm ls^{-1}$ turbomolecular pump. The XDD1 pumps are intended for use on non-aggressive, safe area applications.

The 24 V version is designed to provide a complete pumping package and can be used with the Edwards Turbo and Instrument Controller (TIC). The d.c. voltage motor runs on 24 V via a 15 pin DIN connector. By selecting the appropriate mode the pump speed can be controlled by the user to provide variable pumping speed or max pumping speed. The pump is a compact and efficient. The Mk3 24V version can now be user set to run at a maximum speed of 1.8 $\rm m^3h^{-1}$ running at 2400 rpm.

Under normal conditions the XDD1 is virtually maintenance free, the lifetime of the diaphragms and valves is typically > 10,000 operating hours, depending on the application.



Features and benefits

Dry pumping, lubricant free technology

eliminating the need for costly oil changes and disposal

Lightweight and compact

with a small footprint allowing flexibility of use.

Ideal backing pump

for small turbomolecular pumps.

Complies

with EN61010, EN1012, CSA/UL standards.

Worldwide

115/230 V or 24 V options.

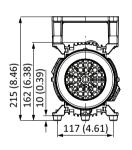
IEC 60320 C13 connector

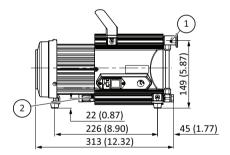
on a.c. pumps.

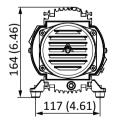
Applications

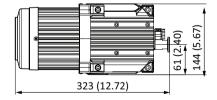
- Residual gas analysis
- Mass spectrometers
- Cryostat and Dewar evacuation
- Ion pump evacuation
- Surface science

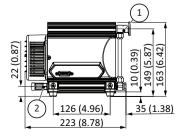
Dimensions

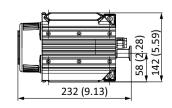












1. Inlet, 2. Outlet

| 50Hz | 1.2 m ³ h ⁻¹ | 600 rpm | 0.6 m ³ h ⁻¹ |
|-------------|------------------------------------|-------------------------------|------------------------------------|
| 60Hz | 1.4 m ³ h ⁻¹ | 1700 rpm (Factory setting) | 1.4 m ³ h ⁻¹ |
| | | 2400 rpm | 1.8 m³h ⁻¹ |
| Motor power | Weight | Motor power | Weight |
| 80 W | 6.5 kg | 64 W | 4.5 kg |

Accessories & spares

| Product description | Order number |
|--|--------------|
| 2m electrical supply cable for 1-ph pumps, UK plug 3A | A50516000 |
| 2m electrical supply cable for 1-ph pumps, no plug | A50508000 |
| 2m electrical supply cable for 1-ph pumps, North America/Japan plug | A50507000 |
| 2m electrical supply cable for 1-ph pumps, North European plug | A50506000 |
| XDD/DX/EXDC extension cable 1m | D39700835 |
| XDD/DX/EXDC extension cable 2m | D39700836 |
| XDD/DX/EXDC extension cable 5m | D39700837 |
| XDD1 diaphragm service kit | A74601800 |

| Ambient temperature limit | 10 to 40 °C |
|----------------------------|---|
| Inlet connection | NW16 |
| Exhaust connection | The pump is fitted with a silencer which can be removed and an exhaust line connected with a 1/8 inch BSP fitting |
| Max allowed inlet pressure | 1 bar (abs) |
| Power connector (a.c.) | IEC EN60320 C13 |

Ordering information

| Product description | Order number |
|--|--------------|
| XDD1 Diaphragm Pump 100-115V/200-230V 50/60 Hz | A74602983 |
| XDD1 Diaphragm Pump 24 V d.c. Mk3 | A74603991 |

Contact us:

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