

T-STATION 300 TURBOMOLECULAR PUMPING STATION

edwardsvacuum.com

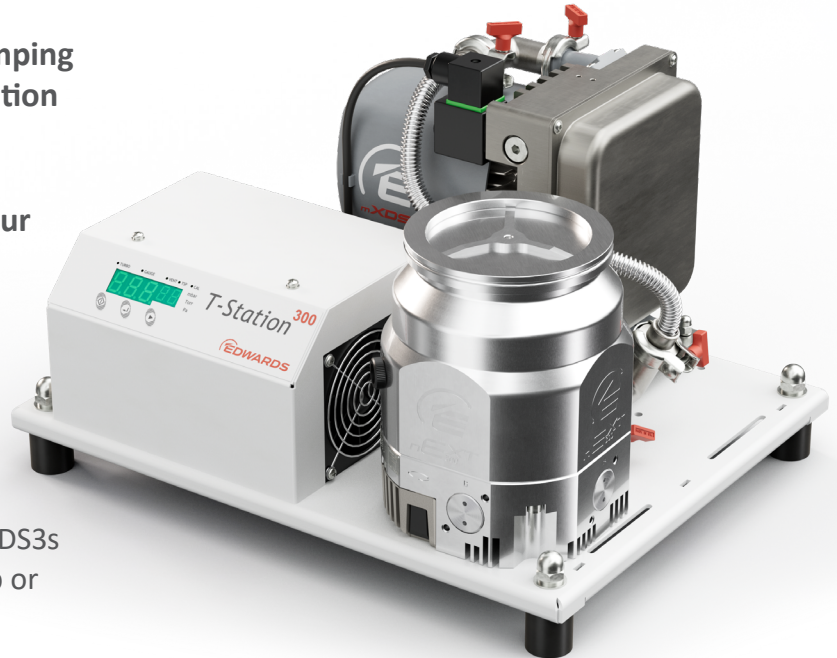
Edwards T-Station 300 turbomolecular pumping station builds on the existing popular T-Station 85 platform, by replacing the nEXT85H turbomolecular pump with the nEXT300 turbomolecular pump we have extended our portfolio and are providing a solution for customers and applications that require a higher pumping speed up to 300 ls^{-1} .

T-Station 300 like all our T-Stations is a cost effective, compact and modular pumping station, combining the nEXT300 turbomolecular pump with either the latest mXDS3s oil-free scroll pump, dry XDD1 diaphragm pump or the E2M1.5 oil-sealed rotary vane pump.

The mXDS3s option delivers higher pumping speeds of 3 $\text{m}^3 \text{h}^{-1}$, compared to 1.6 $\text{m}^3 \text{h}^{-1}$ for the E2M1.5, and 1.2 $\text{m}^3 \text{h}^{-1}$ for the XDD1.

It also has a better ultimate vacuum of 0.1 mbar, which reduces pump down time improving efficiency and energy consumption.

In addition, this variation comes with an integrated exhaust filter and fitted inlet valve, protecting the vacuum in the event of a power failure.



Higher pumping speed



End user serviceable

With an integrated turbo and active gauge controller that enables single start/stop control giving the choice of pumping speed, extending the performance envelope for the R&D sector.

Features and benefits

- Higher pumping speeds**
 Providing a solution for customers and applications that require higher pumping speeds up to 300 ls^{-1} .
- Cost efficient pumping package**
 Cost effective, compact and modular.
- Plug and pump**
 Simple user-friendly plug and pump solution with no systemisation and no additional air cooling required, supplied fully assembled and ready to go for quick and easy operation.
- Robust construction**
 Designed to be compact with a low profile, the all metal frame is able to withstand abuse without cracking or breaking and the base plate comes with rubber feet for extra stability.
- Easy serviceability**
 Easy user serviceable pumps make this great for low cost of ownership.

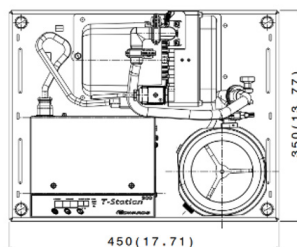
Technical data

Pumping speed for N₂ ISO 100/CF100	300 ls
Compression ratio for N₂	> 1 x 10 ¹¹
Backing pump speed @50 Hz	
mXDS3s	3 m ³ h ⁻¹
E2M1.5	1.6 m ³ h ⁻¹
XDD1	1.2 m ³ h ⁻¹
Ultimate vacuum	
ISO100	< 6 x 10 ⁻⁸
CF100	< 5 x 10 ⁻¹⁰
Exhaust flange	
mXDS3s	1/8 BSP for 6x8mm
E2M1.5	11 mm OD nozzle or 3/8" BSP
XDD1	Fitted silencer or 1/8" BSP
Mass	
mXDS3	26 kg max
E2M1.5	29 kg max
XDD1	24 kg max
Noise level	54.0 +/- 2.5 dB(A)
Operating temperature range	
Dry Vacuum pumps	+5 to +40 °C
Wet Vacuum pumps	+12 to +40 °C

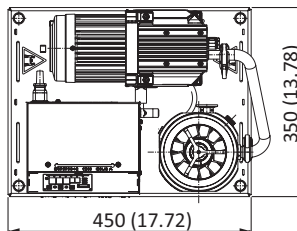
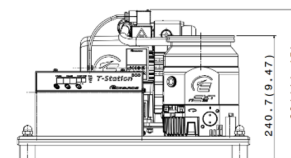
Ordering information

Product description	Order number
T-Station 300 Dry ISO100 mXDS3s 230V	TS300M2003
T-Station 300 Dry ISO100 mXDS3s 115V	TS300M2006
T-Station 300 Dry CF100 mXDS3s 230V	TS300M3003
T-Station 300 Dry CF100 mXDS3s 115V	TS300M3006
T-Station 300D Dry ISO100 200-230V	TS300D4001
T-Station 300D Dry ISO100 100-120V	TS300D4002
T-Station 300D Dry CF100 200-230V	TS300D5001
T-Station 300D Dry CF100 100-120V	TS300D5002
T-Station 300D Wet ISO100 200-230V	TS300W4001
T-Station 300D Wet ISO100 100-120V	TS300W4002
T-Station 300D Wet CF100 200-230V	TS300W5001
T-Station 300D Wet CF100 100-120V	TS300W5002

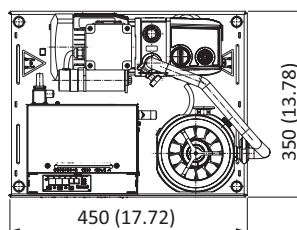
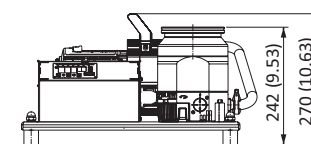
Dimensions



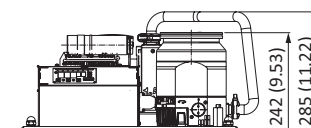
T-Station 300 Dry with mXDS3s backing pump



T-Station 300 Dry with XDD1 backing pump



T-Station 300 Wet with E2M1.5 backing pump



Product description	Order number
EMF3 mist filter for E2M1.5 pump	A46220000
TAV5 Vent Valve 24V DC 1/8 Bsp	B58066010
APG200 - XLC active Pirani gauge NW16	D1G2011100
AIM200 - X - active inverted magnetron gauge NW25	D2G0021100
WRG200 - X - active wide range gauge NW25	D3G0021100
APGX-H active linear convection gauge NW16	D02391000
2m electrical supply cable UK plug	A50505000
2m electrical supply cable EU plug	A50506000
2m electrical supply cable USA/Japan plug	A50507000
2m electrical supply cable no plug	A50508000
0.5m active gauge cable	D40001005
1m active gauge cable	D40001010

Publication Number: 3601 0664 01 (April 2024)

© Edwards Limited 2024. All rights reserved Edwards and the Edwards logo are trademarks of Edwards Limited.

Whilst we make every effort to ensure that we accurately describe our products and services, we give no guarantee as to the accuracy or completeness of any information provided in this datasheet.

Edwards Ltd, registered in England and Wales No. 6124750, registered office: Innovation Drive, Burgess Hill, West Sussex, RH15 9TW, UK.

