

T-STATION 300 TURBOMOLECULAR PUMPING STATION

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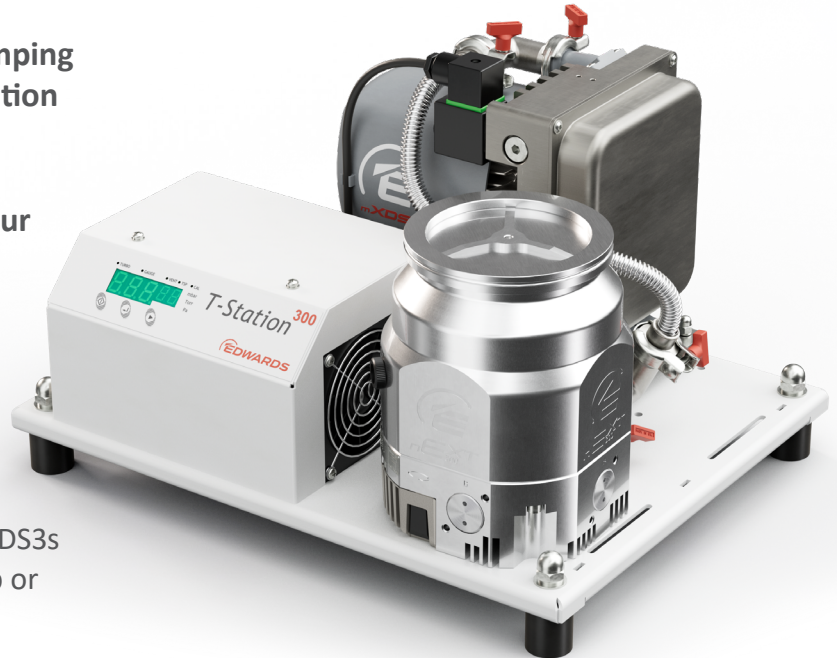
Edwards T-Station 300 turbomolecular pumping station builds on the existing popular T-Station 85 platform, by replacing the nEXT85H turbomolecular pump with the nEXT300 turbomolecular pump we have extended our portfolio and are providing a solution for customers and applications that require a higher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

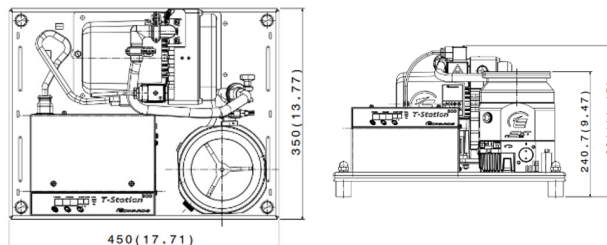
Technical data

Pumping speed no N₂	
ISO 100	300 ls
ISO/CF63	300 ls
Compression ratio for N₂	
	> 1 x 10 ¹¹
Backing pump speed @50 Hz	
mXDS3s	3 m ³ h ⁻¹
E2M1.5 (TS85H wet)	1.6 m ³ h ⁻¹
XDD1 (TS85H dry)	1.2 m ³ h ⁻¹
Ultimate vacuum	
mXDS3s	0.1 mbar
ISO100	< 6 x 10 ⁻⁸
CF100	< 5 x 10 ⁻¹⁰
Inlet flange	
	DN 16 ISO - KF
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	
TS300 ISO100 E2M1.5	26 kg max
TS300 CF100 E2M1.5	29 kg max
TS300 ISO100 XDD1	22 kg max
TS300 CF100 XDD1	25 kg max
Noise level	
	54.0 +/- 2.5 dB(A)
Operating temperature range	
mXDS3s	+5 to +40 °C
TS300 E2M1.5	+12 to +40 °C
TS300 XDD1	+5 to +35 °C

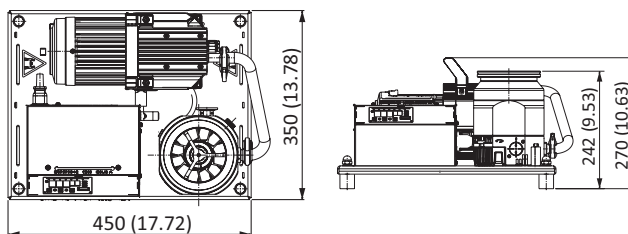
Ordering information

Product description	Order number
T-Station 300 Dry CF100 mXDS3s 230V	TS300M3003
T-Station 300 Dry CF100 mXDS3s 115V	TS300M3006
T-Station 300 Dry ISO100 mXDS3s 230V	TS300M2003
T-Station 300 Dry ISO100 mXDS3s 115V	TS300M2006
T-Station 300D Dry ISO100 200-240V	TS300D4001
T-Station 300D Dry ISO100 100-120V	TS300D4002
T-Station 300 Dry ISO100 mXDS3s 230V	TS300M2003
T-Station 300 Dry ISO100 mXDS3s 115V	TS300M2006
T-Station 300 Dry ISO100 mXDS3s 200V	TS300M2004
T-Station 300 Dry ISO100 mXDS3s 100V	TS300M2007
T-Station 300D Dry CF100 200-240V	TS300D5001
T-Station 300D Dry CF100 100-120V	TS300D5002
T-Station 300D Wet ISO100 200-240V	TS300W4001
T-Station 300D Wet ISO100 100-120V	TS300W4002
T-Station 300D Wet CF100 200-240V	TS300W5001

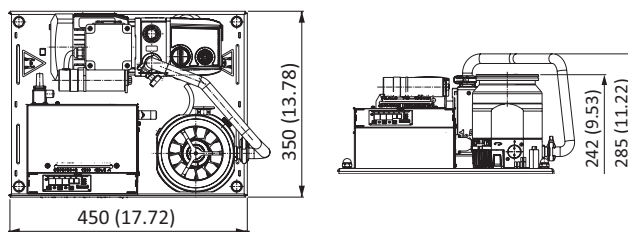
Dimensions



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
T-Station 300D Wet CF100 100-120V	TS300W5002
Model EMF3 mist filter for E2M1.5 pump	A46220000
N/C TAV5 vent valve connector fitted	B8G200835
N/O TAV5 vent valve connector fitted	B8G200834
2m electrical supply cable UK plug 10A	A50505000
2m electrical supply cable North European plug	A50506000
2m electrical supply cable USA/Japan plug	A50507000
2m electrical supply cable no plug	A50508000
APG200 - XLC active Pirani gauge NW16	D1G2011100
APGX-H active linear convection gauge NW16	D02391000
AIM200 - X - active inverted magnetron gauge NW25	D2G0021100
WRG200 - X - active wide range gauge NW25	D3G0021100
0.5m active gauge cable	D40001005
1m active gauge cable	D40001010

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