

T-STATION 85 TURBOMOLECULAR PUMPING STATION

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T-Station 85 is a low cost, compact turbomolecular pumping station that seamlessly combines the nEXT85H turbomolecular pump with either a dry diaphragm or oil sealed backing pump, and a simple controller, providing pumping speeds of 47 to 84 ls⁻¹.

The T-Station 85 comes with an integrated Turbo and Active Gauge controller which enables single button start/stop of the system. This is combined with the ability to control one of our active gauges, vent valve control and delayed start of the turbomolecular pump to either time or pressure if a gauge is fitted, making the T-Station 85 is ideal for general laboratory needs.



**‘Plug and Pump’
No systemisation
required**

**Robust construction
Low cost of
ownership**

Features and benefits



- Base plate includes rubber feet and cut-outs in the sides for manual handling, giving a compact low profile but stable design that can't be knocked over
- All metal frame means rugged design that can take abuse without cracking or breaking
- E2M1.5 or XDD1 high capacity backing pumps giving the choice between an oil sealed pump or a totally dry diaphragm pump
- Integrated air cooler acts to cool internal power supply and pump/controller for quiet operation avoiding multiple fans
- Customer integrated control features:
 - » Single dedicated button to start/stop
 - » Easy to read accuracy display
 - » Ability to select vent mode where a TAV5 vent valve is fitted for automated venting with no user intervention
- Available with either an NW40, ISO63 or CF63 inlet flange to suit your application.
- User serviceable nEXT85H turbomolecular pump

Technical data**Pumping speed for N₂**

NW40	47 l s ⁻¹
ISO/CF63	84 l s ⁻¹

Compression ratio for N₂

>1 x 10 ¹¹	
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Backing pump speed @50 Hz

E2M1.5 (TS85H wet)	1.6 m ³ h ⁻¹
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XDD1 (TS85H dry)	1.2 m ³ h ⁻¹
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Ultimate vacuum	<5 x 10 ⁻¹⁰ mbar*
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Inlet flange	NW40, ISO63 or CF63
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Exhaust flange

E2M1.5 (TS85H wet)	11 mm OD nozzle or 3/8" BSP
XDD1 (TS85H dry)	Fitted silencer or 1/8" BSP

Mass

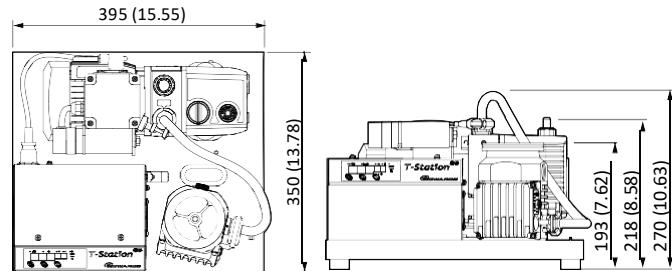
E2M1.5 system (TS85H wet)	21 kg max
XDD1 system (TS85H dry)	18 kg max

Noise level	≤56 dB(A)
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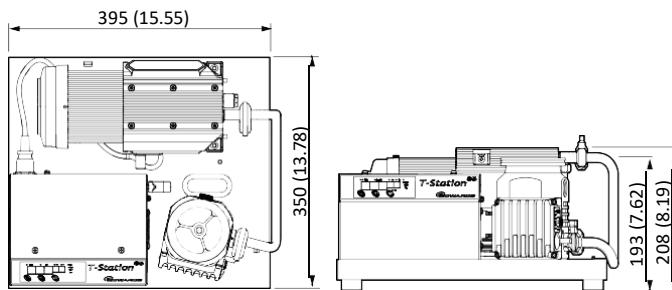
Leak tightness	<1 x 10 ⁻⁶ mbar ls ⁻¹
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Operating temperature range	12 to 40 °C
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*T-Station 85H wet CF63

Dimensions

T-Station 85H Wet with E2M1.5 backing pump



T-Station 85H Dry with XDD1 backing pump

Ordering information

Product description	Order number
T-Station 85H wet NW40 200-240V	TS85W1001
T-Station 85H wet ISO63 200-240V	TS85W2001
T-Station 85H wet CF63 200-240V	TS85W3001
T-Station 85H dry NW40 200-240V	TS85D1001
T-Station 85H dry ISO63 200-240V	TS85D2001
T-Station 85H dry CF63 200-240V	TS85D3001
T-Station 85H wet NW40 100-120V	TS85W1002
T-Station 85H wet ISO63 100-120V	TS85W2002
T-Station 85H wet CF63 100-120V	TS85W3002
T-Station 85H dry NW40 100-120V	TS85D1002
T-Station 85H dry ISO63 100-120V	TS85D2002
T-Station 85H dry CF63 100-120V	TS85D3002

Product description	Order number
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
APG100-XLC active pirani gauge NW16	D02603000
APGX-H active linear convection gauge NW16	D02391000
AIM-X active inverted magnetron gauge NW25	D14642000
WRG-S active wide range gauge NW25	D14701000
0.5m active gauge cable	D40001005
1m active gauge cable	D40001010



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