

nEXT TURBOMOLECULAR PUMPING STATIONS



nEXT turbomolecular pumping stations are configurable with turbomolecular pump speeds ranging from 47 to 400 ls^{-1} and a choice of oil sealed or dry backing pumps ranging from 1 to 20 m^3h^{-1} . All our nEXT turbomolecular pumping stations feature an integrated TIC turbo and instrument controller offering full control of the package via a simple intuitive interface.

The nEXT turbomolecular pumping stations are supplied fully assembled and ready to run straight out of the box and include common accessories such as mist filters and mains cables as appropriate to the chosen pumps. As fully featured high end stations they include RS232 serial communications and Windows® software for monitoring and control.



PRODUCT FEATURES

RANGE OF TURBOMOLECULAR PUMP OPTIONS

Choice of turbomolecular pump with speeds ranging from 47 to 400 ls^{-1} and inlet flanges from DN40 to DN160.

FULLY CONTROLLABLE

TIC turbo and instrument controller offers full control of pumps and up to 3 Active gauges as well as offering full serial remote communications.

VENT VALVE OPTION

Optional turbomolecular pump vent valve can be ordered as part of cart assembly.

USER SERVICEABLE

All nEXT turbomolecular pumps and backing pumps are fully user serviceable.

ROBUST METAL FRAME

All metal frame with locking castors for a robust but easily mobile system. Bench mounting kit included for safe bench top operation.

CHOICE OF BACKING PUMPS

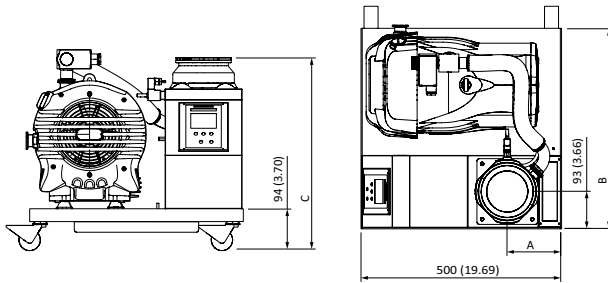
Choice of oil sealed and dry backing pumps with capacities ranging from 1 to 20 m^3h^{-1} .

LOW VIBRATION

Backing pump mounted on anti-vibration mounts for low levels of transmitted vibration.



Dimensions



	A	B ⁽¹⁾	C
nEXT85 NW40	144	380/500	427
nEXT85 ISO63	144	380/500	401
nEXT85 CF63	144	380/500	415
nEXT240 ISO100	135.5	380/500	443.2
nEXT240 CF100	135.5	380/500	451.2
nEXT300 ISO100	135.5	380/500	448.7
nEXT300 CF100	135.5	380/500	463.2
nEXT400 ISO160	135.5	380/500	448.7
nEXT400 CF160	135.5	380/500	453.7

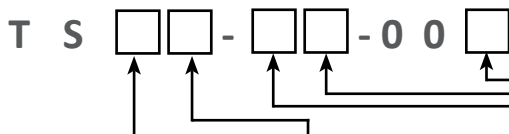
(1) 380 mm refers to small platforms with XDD1 backing pumps
500 mm refers to large platforms with nXDS/RV backing pumps

Technical data

	NEXT TURBO STATION	
Peak pumping speed for N ₂	NW40	47 ls ⁻¹
	ISO/CF63	84 ls ⁻¹
	ISO/CF100	240 or 300 ls ⁻¹
	ISO/CF160	400 ls ⁻¹
Compression ratio for N ₂		>1 x 10 ¹¹
Backing pump speed, 50 Hz (60 Hz)	E2M1.5	1.6 m ³ h ⁻¹ (1.2 cfm)
	RV	5.1 m ³ h ⁻¹ (3.6 cfm)
	RV12	12 m ³ h ⁻¹ (8.4 cfm)
	XDD1	1.2 m ³ h ⁻¹ (0.9 cfm)
	nXDS6i	6.2 m ³ h ⁻¹ (3.6 cfm)
	nXDS10i	11.4 m ³ h ⁻¹ (6.7 cfm)
	nXDS15i	15.1 m ³ h ⁻¹ (8.9 cfm)
	nXDS20i	22 m ³ h ⁻¹ (13.0 cfm)
Ultimate vacuum (CF)		<5 x 10 ¹⁰ mbar
Inlet connection		NW40, ISO63, CF63, ISO100, CF100, ISO160 or CF160
Exhaust connection	E2M1.5	NW16
	XDD1	Fitted silencer or 1/8" BSP
	RV/nXDS	NW25
Weight	E2M1.5/XDD1	24.9 to 35 kg
	RV/nXDS	41.2 kg to 55 kg
Noise level at ultimate		≤ 56 dB(A)
Leak tightness (static)		<1 x 10 ⁻⁶ mbar ls ⁻¹
Operating temperature range		12 to 40 °C

Ordering information

Pumping station:



Turbomolecular pump

- B nEXT240
- C nEXT300
- D nEXT400
- E nEXT240T
- F nEXT300T
- G nEXT400T
- J nEXT85D
- K nEXT85H

Inlet Flange

- 1 DN40NW (nEXT85)
- 2 DN63ISO-K (nEXT85)
- 3 DN63CF (nEXT85)
- 4 DN100ISO-K (nEXT240/300)
- 5 DN100CF (nEXT240/300)
- 6 DN160ISO-K (nEXT400)
- 7 DN160CF (nEXT400)

Backing Pump

- 1 E2M1.5
- 2 RV5
- 3 RV12
- A XDD1
- D nXDS6i
- E nXDS10i
- F nXDS15i
- G nXDS20i

Vent Option

- 0 Manual Vent
- 1 TAV5 Vent Valve

Electrical Supply

- 1 220-240 V 50/60 Hz (Europe)
- 2 110-120 V 50/60 Hz (USA)
- 3 200 V 50/60 Hz (Japan)
- 4 220-240 V 50/60 Hz (UK)

Accessories:

Product description	Order no.
APG100 XLC NW16 Pirani Gauge	D02603000
AIM X NW25 Inverted Magnetron Gauge	D14642000
WRG-S NW25 Wide Range Gauge	D14701000
APGX-H NW25 Convection Gauge	D02391000
0.5 m Gauge cable	D40001005
1 m Gauge cable	D40001010