

nEXT TURBOMOLECULAR PUMPING STATION TIC CART XL

edwardsvacuum.com

nEXT TIC Cart XL is a large volume turbomolecular pumping station, fully mobile, and is required where fast, reliable pump down to low pressure is essential. Configurable with turbomolecular pump speeds ranging from 240 to 930 ls^{-1} and choice of dry backing nXRi multistage roots pumps that enables the range to pump from 30 to 90 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.

Supplied fully assembled and ready to run straight out of the box providing a customer friendly interface using only one power cable. As fully featured high end stations they include RS232 serial communications and Windows® software for monitoring and control.



FEATURES AND BENEFITS

Range of turbomolecular pump options

Choice of turbomolecular pump with speeds ranging from 240 to 930 ls^{-1} and inlet flanges from DN100 to DN200.

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.

Mobile system

All metal frame with locking castors for a robust but easily mobile system.

Choice of backing pumps

Choice of dry backing pumps with capacities ranging from 30 to 90 m^3h^{-1} .

Low vibration

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

TECHNICAL DATA


Pumping station	nEXT240	nEXT300	nEXT400	nEXT730	nEXT930
Inlet connection	DN100/ISO-K/DN100CF	DN100/ISO-K/DN100CF	DN160/ISO-K/DN160CF	DN160/ISO-K/DN160CF	DN200/ISO-K/DN200CF
Forevacuum connection	DN 25 ISO-KF (NW25)	DN 25 ISO-KF (NW25)	DN 25 ISO-KF (NW25)	DN 25 ISO-KF (NW25)	DN 25 ISO-KF (NW25)
Inlet pumping speed N2	240 l/s	300 l/s	390 l/s	730 l/s	930 l/s
Ultimate pressure mbar	6 x 10 ⁻⁸ 5 x 10 ⁻¹⁰	6 x 10 ⁻⁸ 5 x 10 ⁻¹⁰	1 x 10 ⁻⁸ 1 x 10 ⁻¹⁰	2 x 10 ⁻⁸ 3 x 10 ⁻¹⁰	2 x 10 ⁻⁸ 3 x 10 ⁻¹⁰
Mains supply V	110 / 230	110 / 230	110 / 230	110 / 230	110 / 230

‘PLUG AND PUMP’ TURBOMOLECULAR PUMPING STATION

Everything about our range of nEXT turbomolecular pumping stations has been developed to provide a comprehensive vacuum solution with the latest technological advances for easy installation and operation.


A simplified ordering matrix and expanded range, to include turbopumps with speeds from 240 l/s⁻¹ to 930 l/s⁻¹, enables you to select the most appropriate combination for your application, fully assembled and ready to go.

1 Choose your turbopump




nEXT240 (240 ls⁻¹) nEXT300 (300 ls⁻¹)
nEXT400 (400 ls⁻¹) nEXT730 (730 ls⁻¹)
nEXT930 (930 ls⁻¹)

2 Choose your backing pump



nXR30i (30 m³h⁻¹) nXR40i (40 m³h⁻¹)
nXR60i (60 m³h⁻¹) nXR90i (90 m³h⁻¹)

3 Select your voltage



Vacuum isolation valve VIV and the APG200 fitted as a standard accessory

ORDERING INFORMATION

nEXT turbomolecular pumping cart xl:



- | | | | | |
|--------------|--------------|----------------|---------------------|----------------------------|
| ↑ | ↑ | ↑ | ↑ | ↑ |
| Turbo | Inlet | Backing | Vent options | Electrical supply |
| B nEXT240 | 1 ISO 100 | 1 nXR30i | 0 Manual vent | 1 220-240V 50/60 Hz Europe |
| C nEXT300 | 2 CF 100 | 2 nXR40i | 1 TAV5 vent valve | 2 110-120V 50/60 Hz USA |
| D nEXT400 | 3 ISO 160 | 3 nXR60i | | 3 200V 50/60 Hz Japan |
| E nEXT240T | 4 CF 160 | 4 nXR90i | | 4 220-240v 50/60 Hz UK |
| F nEXT300T | 5 ISO 200 | | | 5 220-240v 50/60 Hz USA |
| G nEXT400T | 6 CF 200 | | | |
| H nEXT730 | | | | |
| I nEXT930 | | | | |

nEXT730/930 variants cannot be used with 110-120V 50/60 Hz USA voltage
Important note: System is not UL certified as whole, it is manufactured from UL approved parts.