

nEXT730, 930 AND 1230 TURBOMOLECULAR PUMP

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Edwards are proud to offer the nEXT730, nEXT930 and nEXT1230 turbomolecular pumps, these larger pumps offer choices for customers requiring higher pumping speeds from 730 up to 1250 l/s for nitrogen.

As well as addressing the general R&D market, where faster pumping speeds are sometimes required, these pumps are also designed to meet the requirements of the coating market and other diffuse market sectors such as Heat treatment, Furnace applications, Ebeam welding, Etch, Ion implant, Degassing and Cylinder evacuation.

For our OEM customers derivative versions of these products can be developed, just like the existing nEXT pumps, and like the existing nEXT pumps split flow variants are possible. This will give benefits for our customers with larger instruments as well as the possibility to reduce the total number of pumps on existing instruments.

The new products offer market leading performance for pumps of their class, and in a compact footprint. The pumps feature bearings with a typical life time of at least 4 years with no maintenance, which can then be replaced simply and economically by the customer themselves when required or customers may choose from our other service support offerings.

The pumps are able to operate in any orientation, and are supported by a full range of accessories for cooling, venting, powering and control.

FEATURES AND BENEFITS

- Class leading pumping speeds
- Outstanding compression ratios
- Ease of integration and installation
- Assured reliability
- End user service capability
- Full nEXT established communication interface



TECHNICAL DATA

		nEXT730D		nEXT930D		nEXT1230H			
Inlet flange		DN 160 ISO-K	DN 160 CF	DN 200 ISO-K	DN 200 CF	DN 200 CF	DN 200 ISO-F	DN 200 ISO-K	
Main inlet pumping speed									
Inlet pumping speed ls ⁻¹	N2	730		925		1250			
	Ar	665		865		1150			
	He	820		905		1350			
	H2	715		735		1150			
Gas throughput									
Gas throughput mbar ls ⁻¹	N2	14				12			
	Ar	3.5				4			
	He	21				>20			
	H2	>> 14				>20			
Peak compression ratio backing port to main inlet port									
Compression ratio	N2					> 1x10 ¹¹			
	Ar					> 1x10 ¹¹			
	He	1,2x10 ⁸				4x10 ⁸			
	H2	4,0x10 ⁶				1x10 ⁷			
Ultimate pressure with 2-stage oil sealed rotary vane pump ISO-K/CF	mbar	< 3,5x10 ⁻⁹	< 6x10 ⁻¹⁰	< 3,5x10 ⁻⁹	< 6x10 ⁻¹⁰	<5x10 ⁻¹⁰	indicate higher pressure for ISO-K and ISO-F		
Backing/interstage/boost ports	mbar	15							
Normal rotational speed	rpm	49 200				42 000			
Start time to 90% speed (sec) D/H (T)	min	2.5				3			
Max. power consumption	W	500 (default), 600 (max.)				660 (default), 800 (max.)			
Power consumption at ultimate pressure	W	40				50			
Type of protection	IP	54							
Recommended cooling method		Water*							
Optional cooling		Forced air cooling*							
Cooling water connection		Plug-in connection for 6x1 hose/alternative G 1/8"							
Cooling water consumption	l/h	60							
Critical backing pressure	mbar	15							
Permissible cooling water temperature	°C	15 to 35							
Mass (kg) D/H (T)	kg	14.6	19.6	15.4	21.7	32.6	24.9	23.7	
Recommended backing pump*		nXRi, XDS35i, E2M28**							
Noise level with convection cooling with radial air cooler	dB(A)	< 40 < 55	< 40 < 55	< 40 < 55	< 40 < 55	< 44 < 55	< 44 < 55	< 44 < 55	
Water cooled/forced air cooled max. bake out	°C	100		n/a	100		n/a		
Purge gas flow	mbar · ls ⁻¹ sccm			0.4 24					
Vent/purge port		G 1/8"							

*Depending on the ambient temperature, the gas type and throughput, performance may be limited by the cooling method.

**Please contact your local representative to discuss the correct option for your application.

Official Distributor in Australia



EZZI VISION

Vacuum and Thin Film Technology

CONTACT US

T: 1800 GO EZZI

E: sales@ezzivision.com.au

W: ezzivision.com.au

VIC: 13/62 Ramset Drive, Chirnside Park,
VIC 3116, Australia

NSW: Unit 1, 80 O'Riordan St, Alexandria,
NSW 2015, Australia

WA: Unit 11, 24 Baile Road, Canning Vale,
WA 6155 Australia

GLOBAL CONTACTS

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

EMEA

UK	+44 (0) 1444 253 000 (local rate) 0845 921 2223
Belgium	+32 2 300 0730
France	+33 1 4121 1256
Germany	0800 000 1456
Italy	+ 39 02 48 4471
Israel	+ 972 8 681 0633

ASIA PACIFIC

China	+86 400 111 9618
India	+91 20 4075 2222
Japan	+81 47 458 8836
Korea	+82 31 716 7070
Singapore	+65 6546 8408
Taiwan	+886 3758 1000

AMERICAS

USA	+1 800 848 9800
Brazil	+55 11 3952 5000

