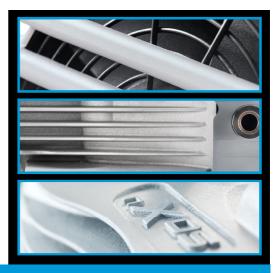
nXDS DRY SCROLL PUMP THE ULTIMATE DRY CHOICE





With exceptional pumping capability, ultimate vacuum performance and state-of-the-art design features, the nXDSdry scroll pump is the best performing pump in its class. nXDS improves on the original XDS pump technology by offering increased pumping speeds, combined with lower ultimate pressures, low power consumption and reduced noise. The gas ballast allows for pumping of condensable vapours, including water, solvents, dilute acids and bases. nXDS pumps feature the very latest in tip seal technology, giving a significantly longer life between tip seal changes. nXDS-C has been modified so that it is more suitable for use on vapour handling processes and may be used in some applications involving corrosive substances. This chemically resistant version is fitted with Chemraz® internal valve pads and stainless steel fittings. nXDS-R has the gas ballast blanked off so it cannot be accidently opened. This is useful for applications such as rare gas recirculation or gas recovery.









Features and Benefits

- Lubricant-free within the vacuum envelope and hermetically sealed means a totally clean and dry vacuum to prevent cross contamination.
- Advanced scroll-form and tip-seal technologies deliver best-in-class vacuum performance and unrivalled ultimate vacuum levels.
- Unique tip seal design significantly reduces wear to minimise maintenance and extend service life.
- Quiet operation with typical noise during operation < 52 dB(A) for minimal environmental impact.
- Advanced interface providing a variety of traditional and analogue and digital control methods enabling remote control/monitoring via RS232 or RS485.
- Integrated inverter drive with auto sensing input delivers optimised pumping performance globally.
- Pump range includes 6, 10, 15 and 20 m³h⁻¹.

Applications

- Backing turbomolecular pumps.
- · Chamber evacuation.
- Chemical applications including gel dryers and solvent recovery.
- Electron microscopy.
- · High energy physics.
- Mass spectrometry.

Pump Range

nXDS6i

nXDS10i - nXDS10i

- nXDS6i

- nXDS6iC

nXDS6iR

nXDS15i

- nXDS15i

- nXDS15iC

- nXDS15iR

- nXDS20i - nXDS20i
 - nXDS20iC
- nXDS10iC - nXDS10iR - nXDS20iR

Chemraz® is a registered trademark of Greene Tweed

Performance Curves

nXDS6i Dry Scoll pump

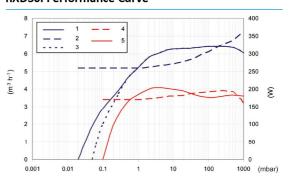
nXDS6i



Ordering information

Peak pumping speed
6.2 m ³ h ⁻¹
(3.6 ft³min-1)
Ultimate Pressure
0.020 mbar
(0.015 Torr)

nXDS6i Performance Curve



Product description	Order no
"AND CC: 100 137 V 200 240 V 155 E0 C0 Hz	A72E010

 nXDS6i 100-127 V, 200-240 V, 1ph 50-60 Hz
 A73501983

 nXDS6iC 100-127 V, 200-240 V, 1ph 50-60 Hz
 A73502983

 nXDS6iR 100-127 V, 200-240 V, 1ph 50-60 Hz
 A73503983

1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby Speed
3	Normal GB speed		

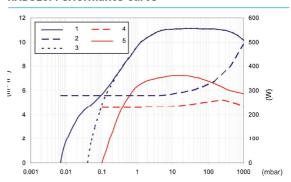
nXDS10i Dry Scoll pump

nXDS10i



Peak pumping speed
11.4 m³h ⁻¹
(6.7 ft ³ min ⁻¹)
Ultimate Pressure
0.007 mbar
(0.005 Torr)

nXDS10i Performance Curve



Ordering information

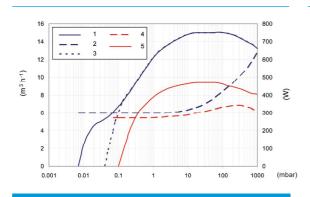
Product description	Order no:
nXDS10i 100-127 V, 200-240 V, 1ph 50-60 Hz	A73601983
nXDS10iC 100-127 V, 200-240 V, 1ph 50-60 Hz	A73602983
nXDS10iR 100-127 V, 200-240 V, 1ph 50-60 Hz	A73603983

1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby Speed
3	Normal GB speed		

nXDS15i Dry Scoll pump

nXDS15i Performance Curve

nXDS15i



Peak pumping speed
15.1 m ³ h ⁻¹
(8.9 ft³min⁻¹)
Ultimate Pressure
0.007 mbar
(0.005 Torr)



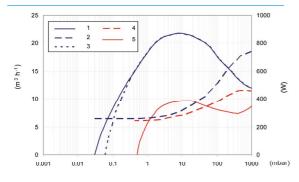
1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby Speed
3	Normal GB speed		

Product description	Order no:
nXDS15i 100-127 V, 200-240 V, 1ph 50-60 Hz	A73701983
nXDS15iC 100-127 V, 200-240 V, 1ph 50-60 Hz	A73702983
nXDS15iR 100-127 V, 200-240 V, 1ph 50-60 Hz	A73703983

nXDS20i Dry Scoll pump

nXDS20i Performance Curve

nXDS20i



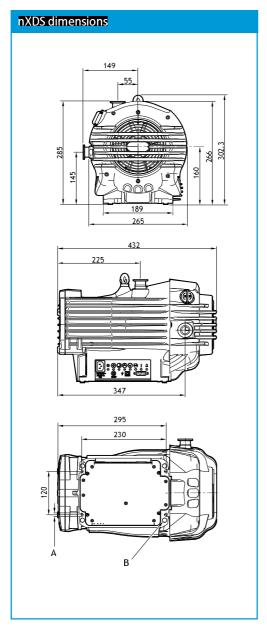
Peak pumping speed
22.0 m ³ h ⁻¹
(13.0 ft³min-¹)
Ultimate Pressure
0.030 mbar
(0.022 Torr)



1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby Speed
3	Normal GB speed		

Product description	Order no:
nXDS20i 100-127 V, 200-240 V, 1ph 50-60 Hz	A73801983
nXDS20iC 100-127 V, 200-240 V, 1ph 50-60 Hz	A73802983
nXDS20iR 100-127 V, 200-240 V, 1ph 50-60 Hz	A73803983

Dimensions





A 9 mm wide slots 4 off

B Rubber feet 4 off

All nXDS variants are of the same dimensions. Dimensions in mm (inch).

Technical Data









		VP oc	VP C4 C1		VD 600'
	Units	nXDS6i	nXDS10i	nXDS15i	nXDS20i
Nominal rotational speed	rpm	1800			
Displacement	m³h-¹ / ft³min-¹	6.8 / 4.0	12.7 / 7.5	17.1 / 10.1	28.0 / 16.5
Peak pumping speed	m^3h^{-1}/ft^3min^{-1}	6.2 / 3.6	11.4 / 6.7	15.1 / 8.9	22.0 / 13.0
Ultimate vacuum (total pressure)	mbar / Torr	0.020 / 0.015	0.007	/ 0.005	0.030 / 0.022
Minimum standby rotational speed	rpm	1200			
Speed control resolution (percentage of full rotation speed)		1%			
Max water vapour pumping rate	gh ⁻¹	110	145	145	220
Maximum continuous inlet pressure	mbar		200		50
Voltage input	V	100-127, 200-240 (+/-10%)			
Voltage frequency	Hz	50/60			
Motor power 1-ph*	W	260	280	300	260
Power connector 1-ph		IEC EN60320 C13			
Weight	kg / lb	26.2 / 58	25.8 / 57	25.2 / 56	25.6 / 56
Inlet flange		NW25			
Exhaust flange		NW25			
Noise level**	dB(A)	52			
Vibration at inlet flange	mms ⁻¹ (rms)	< 4.5			
Leak tightness (static)	mbar ls ⁻¹	< 1 x 10 ⁶			
Operating temperature range	°C / F	10 to 40 / 41 to 104			

^{**} For low fan speed, typical at ultimate end when load/ambient conditions allow.

Service, Spares and Accessories

The control cable is used to connect the nXDS pump directly to the RS485 or RS232 serial input on your control equipment or a PC, or alternatively, to an Edwards controller such as a TIC (Turbo Instrument Controller) or TAG (Turbo & Active Gauge controller).

Pump to TIC/TAG Controller Cable

Product description	Order no:
Interface cable 1.0 m	D39700835
Interface cable 2.0 m	D39700836
Interface cable 5.0 m	D39700837

Product description	Order no:
2 m electrical supply cable for 1-ph pumps, UK, three-pin plug	A50505000
2 m electrical supply cable for 1-ph pumps, North European plug	A50506000
2 m electrical supply cable for 1-ph pumps, North America/Japan plug	A50507000
2 m electrical supply cable for 1-ph pumps, no plug	A50508000

Gas Ballast Adaptor

Product description	Order no:
Gas Ballast adaptor blank	A73501806
Gas Ballast Adaptor 0.25mm restrictor	A73501809
Gas Ballast Adaptor no restrictor	A73501811

Exhaust

Product description	Order no:
Exhaust silencer	A50597000
Silencer spares kit	A50597800
Exhaust nozzle kit %" to 15 mm	A50509000
NW25 inlet/outlet filter 5 micron	A50597805
XDS Filter 5 micron element kit	A50597802
XDS Filter 1 micron element kit	A50597803

Vibration Isolator

Product description	Order no:
nXDS Vibration isolator (0.45 kg)	A24701441

Chemical Resistance Conversion Unit

Product description	Order no:
nXDS6i, 10i & 15i Chemical resistance conversion unit	A73501807
nXDS20i Chemical resistance conversion unit	A73501808

nXDS Service kits

Product description	Order no:
nXDS Exhaust and gas ballast kit	A73501803
nXDS Tip seal service kit	A73501801
nXDS Bearing replacement kit	A73501802

Service

Edwards products, spares and accessories are available from Edwards companies in Belgium, Brazil, China, France, Germany, Israel, Italy, Japan, Korea, Singapore, United Kingdom, U.S.A. and a worldwide network of distributors. The majority of these centres employ Service Engineers who have undergone comprehensive Edwards training courses. Order spare parts and accessories from your nearest Edwards company or distributor.

When you order, please state for each part required:

- Model and item number of your equipment.
- Serial number (if any).
- Item number and description of the part.