

XDS DRY SCROLL PUMPS

edwardsvacuum.com

XDS dry scroll pumps have become industry standard when dry pumping is essential, proving to be a robust and clean vacuum pump solution in a range of applications. The XDS35i pump has an innovative bearing shield that isolates the vacuum environment, making it not only lubricant-free but hermetically sealed.

XDS35i No Gas Ballast variant has had the gas ballast feature removed for applications such as rare gas recirculation and gas recovery.

The XDS46i shares many of the same features of the XDS35i but with a peak speed of $40 \text{ m}^3\text{h}^{-1}$. The pump has been optimised for maximum pumping speed at inlet pressures between 1 mbar and 10 mbar, making it well suited for backing turbomolecular pumps.

For more aggressive applications, 'C' variants are available which features Chemraz® internal valves and stainless steel fittings for extra protection from the pumped media.



Features and benefits

Bearing shield

ensures separation between process gases and bearing lubrication to ensure clean vacuum and no possibility of contamination to lubrication from process gases, which prolongs bearing life.

Smart motor drive

means consistent performance globally, pump overload protection and remote start/stop capability.

High flow gas ballast feature

allows pumping of vapours including water vapour at up to 240 gh^{-1} .

Axial air gap motor

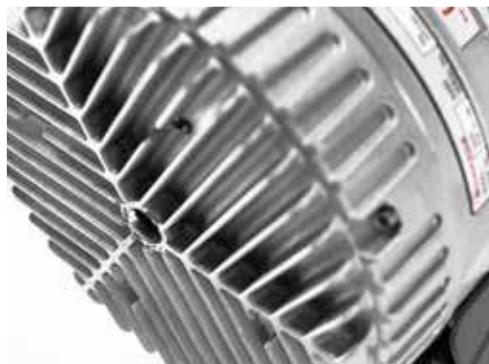
reduces overall pump size and gives low power and noise.

Simple single sided scroll design

allows maintenance to be done in minutes for low cost of ownership and maximum up-time.

Technical data

	Units	XDS35i	XDS46i
Peak pumping speed	m^3h^{-1} (cfm)	35 (21)	40 (23.5)
Ultimate vacuum ⁽¹⁾	mbar (Torr)	0.01 (0.008)	0.05 (0.04)
Ultimate vacuum with gas ballast 1	mbar (Torr)	0.02 (0.015)	0.08 (0.06)
Ultimate vacuum with gas ballast 2	mbar (Torr)		< 10 (7.5)
Max inlet pressure for water vapour	mbar (Torr)	35 (23)	40 (30)
Water vapour handling capacity GBII	gh^{-1}		240
Maximum continuous inlet pressure ⁽²⁾	mbar a (Torr a)		40 (30)
Maximum gas ballast/purge pressure	bar gauge (psig)		0.5 (7)
Motor data			
Supply voltage	V	100-120/200-240 (+/- 10%)	
Supply frequency	Hz	50/60	
Nominal rotation speed	rpm	1750	
Power at ultimate	W	440	380
Motor power	W	520	
Power connector		IEC EN60320 C19	
Recommended fuse, 230 V (115 V)	A	16 ⁽³⁾ (20)	
Physical data			
Weight	kg (lb)	48 (105)	
Inlet connection		NW40	
Exhaust connection		NW25	
Noise level at ultimate	dB(A)	57	55.4
Noise level with acoustic enclosure	dB(A)	48	46.4
Vibration at inlet flange	mms^{-1} (rms)	< 4.5	
Leak tightness (static)	mbar ls ⁻¹	< 1 x 10 ⁻⁶	
Operating temperature range	°C (°F)	5 to 40 (41 to 104)	

⁽¹⁾ measured as total pressure⁽²⁾ These pumps are designed to pump down from atmospheric pressure, but prolonged operation at inlet pressures higher than specified may reduce bearing life.⁽³⁾ for UK 240 V use 13 A fuse

Ordering information

Pumps:

Product description	Order number
Standard product	XDS35i
	XDS35iC*
	XDS46i
	XDS46iC*
Variants without gas ballast (NGB)	XDS35i
	A73005983

* C variants

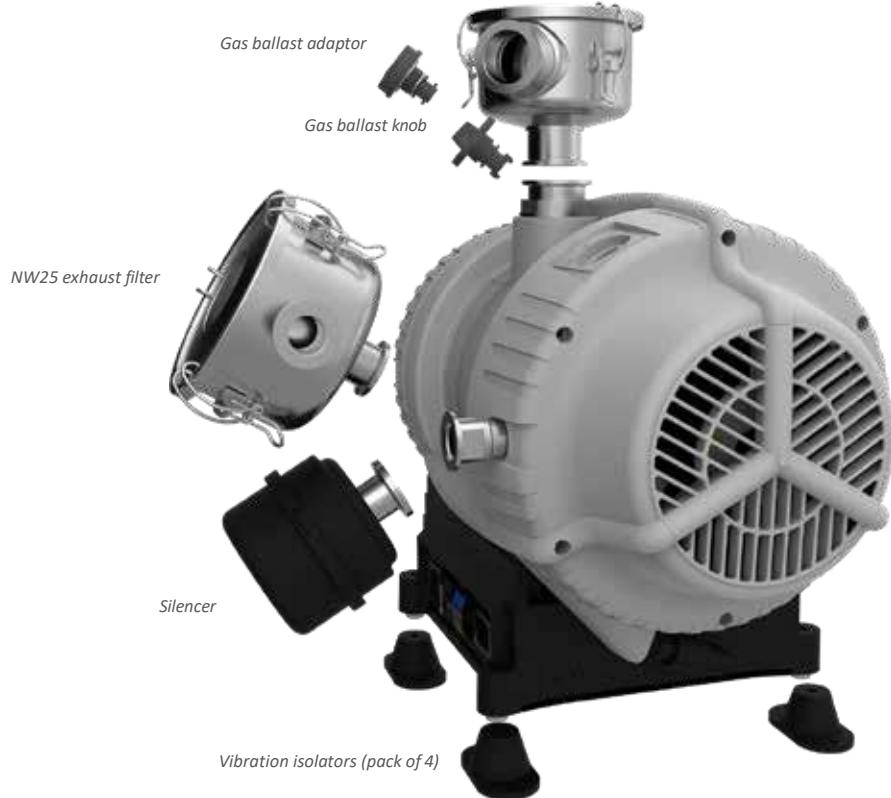
Extended warranty:

Product	2 year	3 year
XDS35i	EW2AA5005	EW3AA5005
XDS46i	EW2AA5006	EW3AA5006

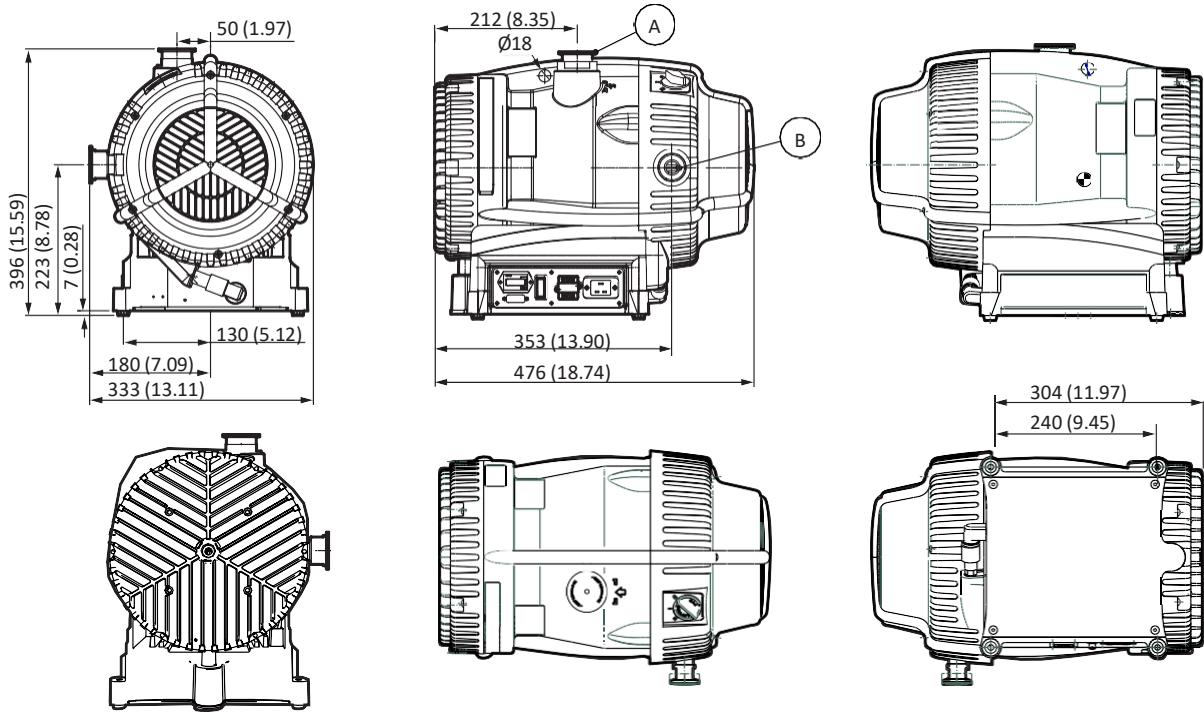
Accessories and spares:

Product description	Order number
Accessories	Exhaust silencer XDS35i
	Gas ballast adapter with 0.25 mm restrictor
	Gas ballast adaptor with no restrictor
	Vibration isolator (pack of 4)
	Inlet/exhaust filter NW25
	Inlet/exhaust filter NW40
	XDS acoustic enclosure 110-120 V
Spares	XDS acoustic enclosure 200-240 V
	Tip-seal kit XDS35i
	Tip-seal kit XDS46i
	Silencer spares kit
	XDS filter 5 micron element kit
Cord sets	XDS filter 1 micron element kit
	UK, three pin plug
	North European plug
	North America/Japan plug
	No plug

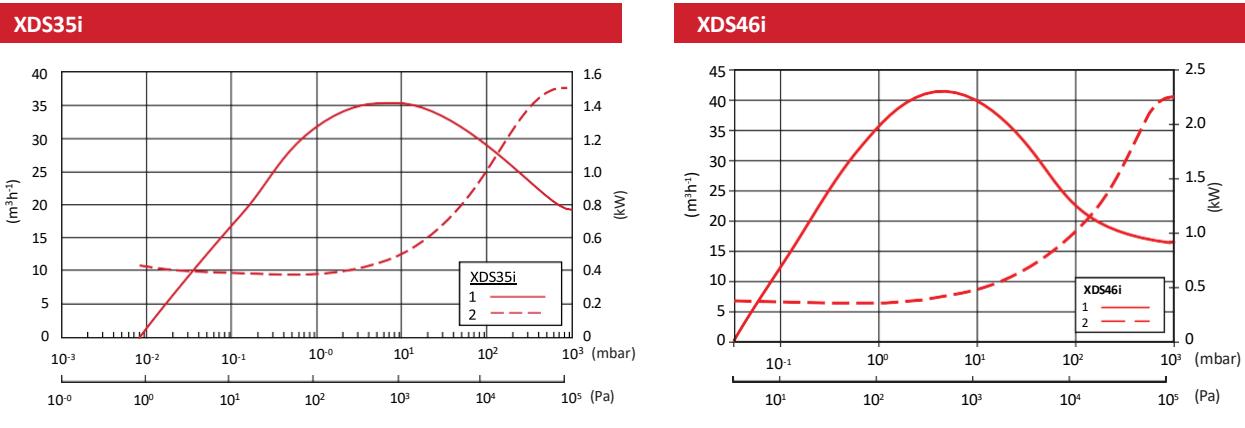
NW40 inlet filter



Dimensions



Performance





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

© Edwards Limited 2021. All rights reserved Edwards and the Edwards logo are trademarks of Edwards Limited.

Whilst we make every effort to ensure that we accurately describe our products and services, we give no guarantee as to the accuracy or completeness of any information provided in this datasheet.

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

GLOBAL CONTACTS

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