

# mXDS3 AND mXDS3s DRY SCROLL VACUUM PUMPS

[edwardsvacuum.com](http://edwardsvacuum.com)

Edwards range of small dry scroll pumps is expanding with the introduction of the compact mXDS3 and mXDS3s.

The new mXDS3 dry scroll pump delivers  $3\text{m}^3\text{h}^{-1}$  pumping speed together with an ultimate pressure of 0.1 mbar making it well suited for backing turbomolecular pumps. mXDS3 is the standard option supplied with no inlet valve fitted.

mXDS3s comes factory fitted with an inlet valve featuring delay opening. It is also supplied with an exhaust silencer. Both offer the same vacuum performance and feature an IEC connector for main supply and an on/off switch for easy control.

This compact dry pump offers flexibility to the system designer and end user alike with a wide range of accessories available to choose from to meet your configuration requirements.



## FEATURES AND BENEFITS



### DRY PUMP

no oil to check, replace and dispose of making this pump more environmentally friendly.



### COMPACT

at only 8kg it is well suited for integration into OEM and analytical instruments, small system builder and laboratories.



### QUIET OPERATION

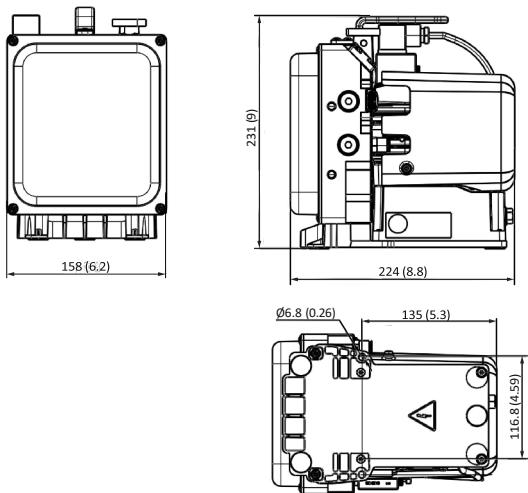
with low noise level, it makes for a better-quality working environment.



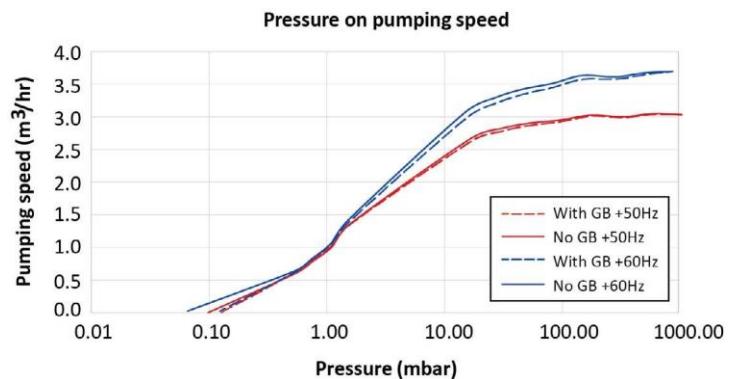
### LOW MAINTENANCE

tip seal change when required (typically 2 years)

## DIMENSIONS



## PERFORMANCE CURVE



## TECHNICAL DATA

	Units	mXDS3	mXDS3s
<b>VACUUM DATA</b>			
Ultimate pressure with closed gas ballast	mbar	0.1	
Ultimate pressure with gas ballast (1 turn)	mbar	0.15	
Max pumping speed (50Hz)	$\text{m}^3\text{h}^{-1}$	3	
Max pumping speed (60Hz)	$\text{m}^3\text{h}^{-1}$	3.5	
Max permitted inlet pressure*	mbar	1000	
Typical initial pressure rise on power loss (no inlet valve, with no inlet or gas ballast flow)	mbar l	5	
<b>MOTOR DATA</b>			
Supply voltage	V	100 +/- 6% 1 phase 115 +/- 10% 1 phase 200 +/- 10% 1 phase 230 +/- 10% 1 phase	
Supply frequency	Hz	50/60	
Power consumption at ultimate	W	180	210
Mains connector		IEC EN60320 C13	
<b>PHYSICAL DATA</b>			
Weight	kg	7.8	8
Inlet connection		DN 16 ISO-KF	
Outlet connection	1/8" BSP for 6x8mm hose	1/8" BSP for 6x8 mm hose	exhaust filter supplied
Noise level	dB(A)	54.0 +/- 2.5	
Vibration measured in plane of bearing	$\text{mm s}^{-1}$	Class 1C...<4.5 (rms radial)	
Leak tightness	$\text{mbar ls}^{-1}$	$1 \times 10^{-4}$	
Overall dimensions (L x W x H)	mm	224 x 158 x 231	
Nominal rotational speed	Hz	3000 RPM @ 50 / 3600 RPM @ 60	
Ambient temperature range (operation)	°C	+5 to +40	

\* These pumps are designed to pump down from atmospheric pressure, but prolonged operation at high inlet pressures may reduce bearing life.

\* These pumps are intended to exhaust to atmospheric pressure. High exhaust pressure may reduce tip-seal life.

\* Large volumes may be pumped, but prolonged operation at high inlet pressures may reduce bearing life.



**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

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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