iGX NEXT GENERATION DRYPUMPS

The iGX Dry Vacuum Pump Series sets new standards for zero maintenance between major overhauls. Improved efficiency lowers the cost of ownership and provides continuous pumping duty throughout the pressure range. iGX drypumps include Ethernet connectivity allowing key data to be viewed via web pages, as well as a comprehensive set of networking options to assure continuous pump availability.



iGX pumps are available in a wide range of peak speeds and variants to address applications from clean through to medium-duty processes. A modular design allows users to configure iGX drypumps to suit individual fab requirements. A compact footprint allows installation options including on-tool, close proximity, or remote.

Features and Benefits

- Reduced Cost of Ownership
 - Up to a 50% reduction in utilities cost compared to iL/iH drypumps
 - No preventative maintenance
- Flexible Installation Options
 - Small and light for easy installation
 - On-tool, close proximity, or remote
- Possible Tool Throughput Improvements
 - One of the fastest loadlock pumps available

- Consistent Pumping Performance Globally
 - Pumping speed identical at 50 and 60 Hz
- Reduced Ambient Noise
 - Only 55 dB(A)
- Wide Range of Peak Speed
 - 100, 300, 600 and 800 m³h⁻¹



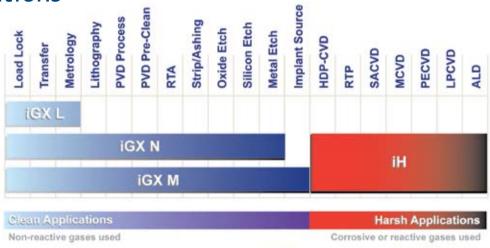
iGX NEXT GENERATION DRYPUMPS

Specification

	iGX	100	300	600	1000
Performance	IOX	100	300	000	1000
Peak Speed	m³h ⁻¹	105	365	620	800
reak speed	cfm	62	215	365	471
	_				
	l min ⁻¹	1750	6083	10333	13333
Ultimate pressure	mbar	5.00E ⁻⁰³	7.00E ⁻⁰⁴	7.00E ⁻⁰⁴	1.00E ⁻⁰³
	torr	3.75E ⁻⁰³	5.25E ⁻⁰⁴	5.25E ⁻⁰⁴	7.50E ⁻⁰⁴
	Pa	0.50	0.07	0.07	0.10
Power at 700 torr exhaust					
Ultimate	kW	1.0	1.6	1.6	1.6
AUC (Active Utility Controller)	kW	0.05	0.05	0.05	1.05
Water*					
Water inlet	slm	1.0	2.0	2.0	2.0
Nitrogen					
L Variant	slm	0	0	0	N/A
N Variant	slm	4 or 14	4 or 14	4 or 14	4 or 14
M Variant	slm	4 to 44	4 to 44	4 to 44	N/A
Installation details					
Footprint (excl. exhaust)	m²	0.20	0.20	0.20	0.20
Weight	Kg	120	200	220	230
Inlet connection		ISO63	ISO100	ISO100	ISO100
Outlet connection		NW25	NW25	NW25	NW25
Noise at ultimate	dB(A)	<55	<55	<55	<55
* Paguiras constant flow valva accorsory					

^{*} Requires constant flow valve accessory

Applications

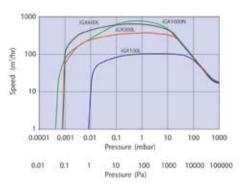


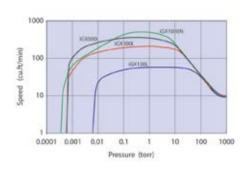
(1) If process carryover is expected, use the iGX 'N' variant.

Contact Edwards for additional technical information on a particular application.



Speed Curves

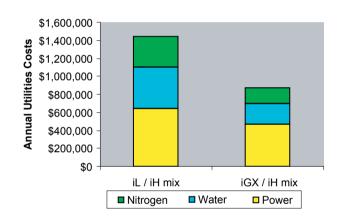




Lower Utilities Costs

Typically a 40% saving can be made on utilities costs over an entire fab.

- Based on a 300mm fab in the US, containing 200 tools, 537 pumps
- 70% iGX pumps, 30% iH pumps
- · iGX fitted with constant flow water valve



Designed for Energy Efficiency

- High performance motors and inverter drives
 Low operating power consumption
 Lower power standby mode using Active Utility
 Control (AUC)
- Nitrogen dilution can be tuned to the application requirement

Minimizes gas usage

- Highly efficient cooling
 High conductivity materials and good design enables low water flow
- Precision ceramic bearings
 Very high load capability for reliability
 Low noise and vibration

Ethernet Connectivity

The iGX Series includes unique web serving functionality that allows viewing of key parameters through a simple Ethernet connection and browser.

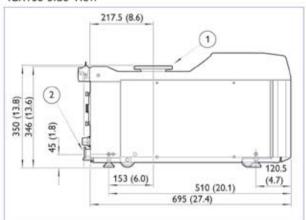
Any user can simply connect to the pump to view a range of information, such as:

- · Operating status
- Parameter setpoints
- Key parameters
- Alert summary

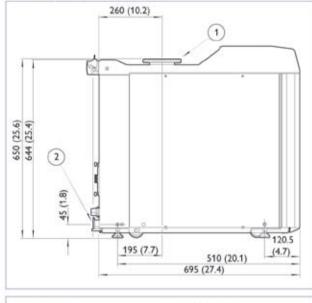
iGX NEXT GENERATION DRYPUMPS

Dimensions - mm (Inches)

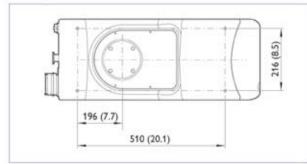




iGX 300, 600, 1000 Side View









2 Exhaust Flange







Ordering Information

iGX100L 200 - 230V 50/60Hz	A54610958	iGX300L 380 - 460V 50/60Hz		iGX600N 200 - 230V 50/60Hz	A54631958
iGX100L 380 - 460V 50/60Hz	A54610959	iGX300N 200 - 230V 50/60Hz		iGX600N 380 - 460V 50/60Hz	A54631959
iGX100N 200 - 230V 50/60Hz	A54611958	iGX300N 380 - 460V 50/60Hz		iGX600M 200 - 230V 50/60Hz	A54632958
iGX100N 380 - 460V 50/60Hz	A54611959	iGX300M 200 - 230V 50/60Hz		iGX600M 380 - 460V 50/60Hz	A54632959
iGX100M 200 - 230V 50/60Hz	A54612958	iGX300M 380 - 460V 50/60Hz		iGX1000 200 - 230V 50/60Hz	A54681958
iGX100M 380 - 460V 50/60Hz	A54612959	iGX600L 200 - 230V 50/60Hz	A54630958	iGX1000 380 - 460V 50/60Hz	A54681959
iGX300L 200 - 230V 50/60Hz		iGX600L 380 - 460V 50/60Hz	A54630959	iGX100MTI 200 - 230V 50/60Hz	A54648958

Edwards continually updates its products to match the evolving needs of the semiconductor industry. Specifications given here are subject to change without notice.

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