

EOS1300-1900i ROTARY SCREW VACUUM PUMPS

edwardsvacuum.com

Edwards EOS1300-1900i range is a new generation range of quiet, oil-sealed rotary screw vacuum pumps

With Variable Speed Drive (VSD) technology and intelligent control, the EOS1300-1900i range delivers impressive on-demand performance capability and optimises energy consumption. The highly efficient oil separator design extends service intervals and reduces maintenance costs. Temperature management control enables unrivalled water handling capability to provide you with the versatility and flexibility you need for your application.



State-of-the-art screw technology, Variable Speed Drive (VSD) and innovative motor design

Increased efficiency

Class-leading pumping speed and fast chamber pumpdown performance capability

Improved productivity

Closed loop pressure control and active power management

Intelligent control

Automatic performance matched to vacuum demand

Low cost of ownership

Noise levels approximately half that of comparable technologies

Quiet operation

Ultra-high oil retention at all operating pressures

Reduced environmental impact

Features and benefits

Pump module

- Highly efficient oil-sealed rotary screw
- Outstanding performance
- Robust design
- Element life is significantly longer than screw compressors and vane pumps

Energy recovery options

- Available for larger motor sizes
- Helping you to fulfil your energy management and environmental commitments according to ISO 50001/14001

Easy to use, simple to maintain

- The top cover of the oil separator has a unique hinge mechanism
- It slips the cover to the side allowing the oil separator filter to be changed easily and quickly
- A cleverly designed exhaust pipe enables the condensates to be collected in the discharge pipework at the outlet

Guaranteed oil retention

- Optimum design for maximum oil retention
- Longer life because of managed performance means the vacuum pump never overloads the separators
- Innovative design retains oil at $<3 \text{ mg/m}^3$ even when under the greatest load
- In conventional fixed speed vacuum pumps overloaded oil separators lead to oil carryover

Inlet control valve

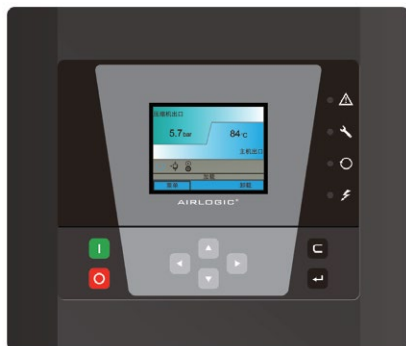
Provides modulating vacuum control in conjunction with the VSD drive to minimise energy consumption

Enclosure with hot-cool zones

The EOS1300-1900i range features an enclosure with a hot-cool design. It isolates all heat producing and temperature critical components (oil separator and element) from all other components. As cool running means higher reliability this feature extends the lifetime of electronic components and leads to a longer Mean Time Between Maintenance (MTBM)

Airlogic® monitoring system

Airlogic® is a state-of-the-art monitoring system for your vacuum pumps. It is simple and comprehensive and leads to energy savings. It can also integrate with your plant management system thanks to a remote monitoring option.



Easy to use

- 3.5-inch high-definition color display with clear pictograms, 32 language settings
- Additional LED indicator for service
- Graphical display of key parameters (day, week, month)

Plant management system

Airlogic® installed on different vacuum pumps can be monitored in cascade. Remote monitoring can be added as an option (Modbus/Profibus/Ethernet protocols)

Comprehensive

You get all the information for the everyday management of your vacuum pump as well as the alarms, safety shutdowns and maintenance:

- Monitoring: Vacuum pump operating status, recording of running/stopped hours, programmable timers, temperature/pressure read-outs, set point control and other settings
- Safety: Warning indications, fault and shutdown indications
- Service: Service operations, remote control (optional)

Intelligent monitoring system

Airlogic® is a flexible solution for data monitoring: easy to install and customise and user-friendly

TECHNICAL SPECIFICATIONS

	EOS1300i	EOS1600i	EOS1900i
Peak pumping speed (m³/h/cfm)	1250 / 740	1590 / 940	1810 / 1070
Ultimate vacuum (mbar/Torr)	0.35 / 0.26	0.35 / 0.26	0.35 / 0.26
Inlet connection	DN 150	DN 150	DN 150
Outlet connection	DN 100	DN 100	DN 100
Shaft power (kW)	22	30	37
Permissible ambient temperature (°C)	0 - 46	0 - 46	0 - 46
Noise level range (dB(A))	65-75	65-79	65-80
Oil quantity (l)	40	40	40
Dimension L x W x H (mm)	1420 x 1590 x 1470	1420 x 1590 x 1470	1420 x 1590 x 1470
Weight (kg)	1058	1058	1073
Electrical specification	380 / 460V 50 / 60Hz CSA / UL		

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