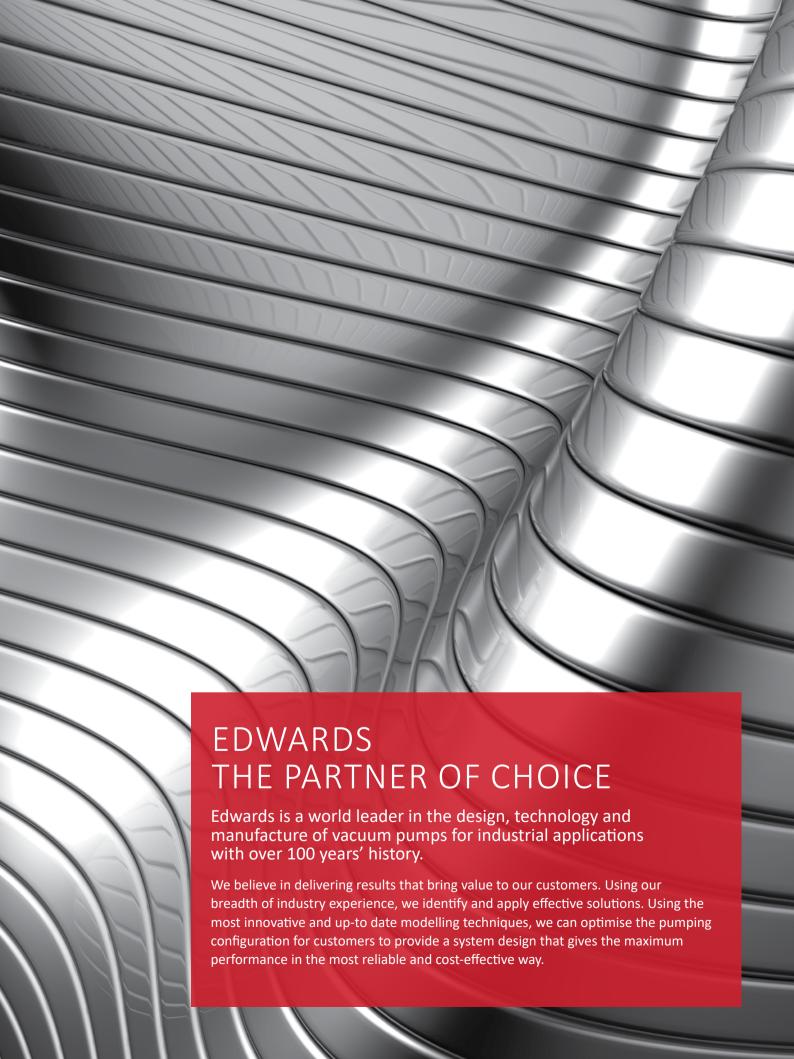
EDS INDUSTRIAL DRY SCREW VACUUM PUMPS





STATE-OF-THE-ART TECHNOLOGY MADE SIMPLE

We are known for providing our customers with robust vacuum solutions that include superior products with application and process expertise comprised of decades of realworld, real-scenario experience. Edwards' new range of EDS Industrial Dry Screw pumps continues that tradition.

The EDS range is developed in the UK and designed for a global market, it creates a new benchmark in the screw pump market with its innovative design. Featuring tapered variable pitch dry screws, the EDS is an intricate piece of engineering built to the exacting standards and quality that Edwards is recognised for.

Available in water-cooled and air-blasted variants, the EDS range - EDS 200, EDS 300 and EDS 480 - has second-to-none contaminant handling capabilities in the harshest industrial conditions and dirtiest industrial installations. Housed in a modern outer enclosure, the EDS offers robust performance standards that most production processes demand. The EDS vacuum pumps offer all the extra performance you need for the harshest and toughest industrial applications.

PUMP TECHNOLOGY



SIMPLE

Industry-leading, simply packaged, state-of-the art screw vacuum technology

- Trouble-free peace of mind: Ease of installation, systemisation, support and service
- Pumping: Designed to be simply reliable



INNOVATIVE AND STURDY DESIGN

A plug and play system with a high tolerance for particulates

- Tapered variable pitch dry screws
- Robust water cooling system



FASTER

Extra performance to meet modern technologies

- Quick pump down times: Higher roughing speeds get the job done quicker
- High pumping speeds: Gives more throughput where it matters



PROCESS CAPABLE

Mechanism proven in the most demanding applications

- Extended MTBS: Purge protection options to prolong life on harsh processes
- Increased process uptime: Survives process mishaps and contaminant ingestion



FLEXIBLE

Designed for a changing global market

- Safe and compliant: Easily configured for hazardous area installations
- Engineer To Order: Basic modular building blocks for special pumping systems

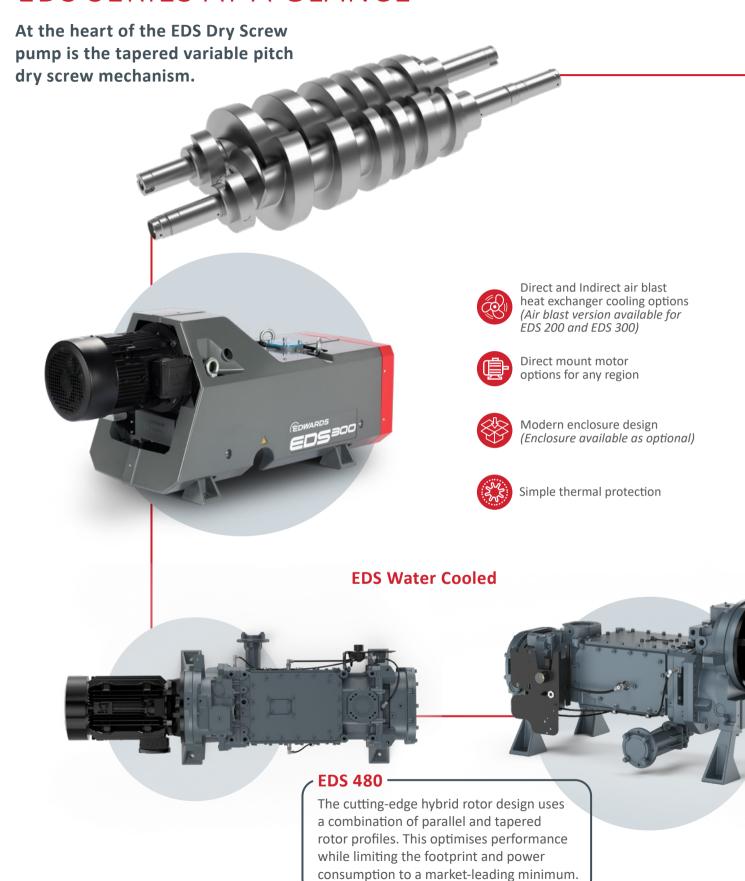


ROBUST

A truly industrial machine for the most challenging installations

- Installation options: Highly tolerant water-cooled and air blast-cooled standard products
- Protection: High IP ratings and easily cleanable protective canopies

EDS SERIES AT A GLANCE









Wide range of standard accessories available



Simple, robust seal purge system

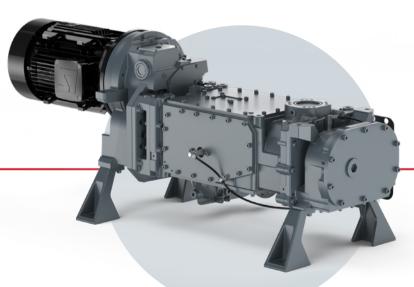


Atmospheric air gas ballast



EDS System





APPLICATIONS

The EDS range is suitable for a range of applications in various industries, including:

- Lithium-ion batteries
- Automotive coating
- Freeze drying
- Industrial glass coating
- Solar cell manufacturing
- Heat treatment
- Brazing
- Thin film deposition
- Plastic extrusion
- Pharmaceuticals
- Renewable energy





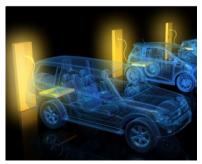






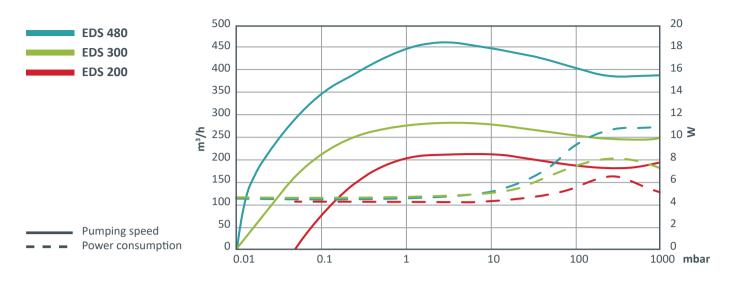








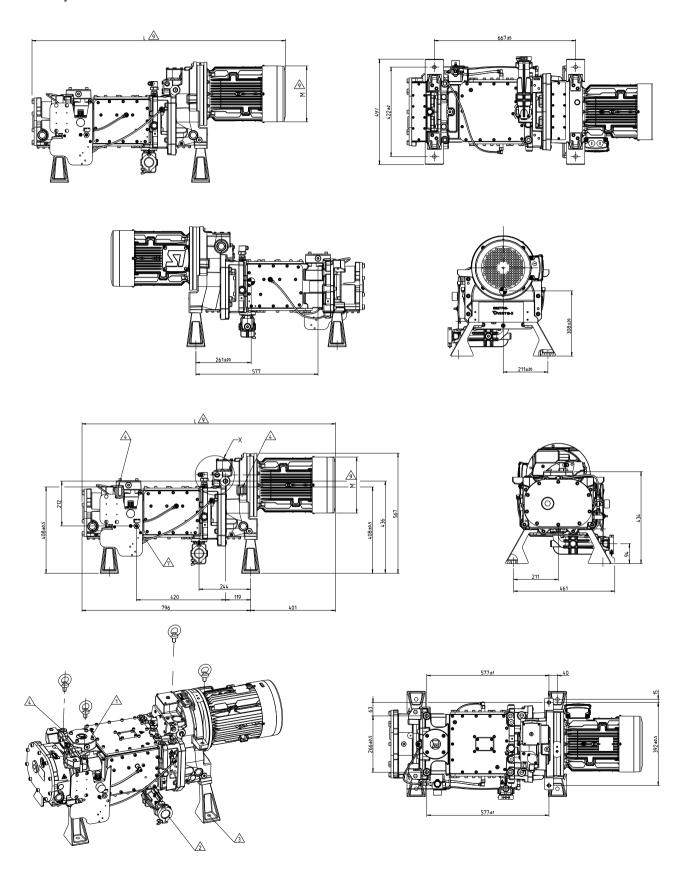
PERFORMANCE CURVES



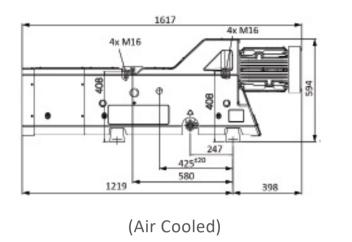
	NICAL SPECIFICATIONS		Water Cooled and Air Cooled			
		Units	EDS 200	EDS 300	EDS 480	
Performance	Peak pumping speed	m³h-1 / CFM	210 / 124	>280 / >165	>460 / 271	
	Ultimate pressure	mbar / Torr	<0.05 / <0.04	<0.01 / <0.008	<0.01 / 0.007	
Full Load Power	@ ultimate pressure	kW / hp	4.1 / 5.5	4.5 / 6	4.6 / 6.5	
	@ peak pumping load	kW/hp	6.4 / 8.6	8.2 / 11	11 / 15	
Vacuum Connections	Inlet connection		ISO63			
	Exhaust connection		NW40 ISO 6			
	Connection		G1/2" female threads			
	Flow	L/min ⁻¹ / Gal/min ⁻¹	<8/<2.1			
	Supply pressure (max)	bar / psig	7 / 100			
Cooling Water	DP across pump (min)	bar / psig	0.2 / 2.9			
	Temperature	°C / °F	5-35 / 41-95			
	Primary cooling circuit volume (Glycol water mixture volume in case of variant with indirect cooling)	I/gal	6 / 1.6		NA	
	Connection		G1/4" female threads			
	Pressure	bar / psig	2.5-6.9 / 36-100			
Purge Gas	SSP flow	lmin ⁻¹	<12			
	Gas ballast flow*	lmin ⁻¹	0-50			
Operating data	Noise	dB(A)	<76			
	Operating temperature	°C / °F	5-40 / 41-104			
	Exhaust back pressure (max)**	mbar / psia	1200 / 17.4			
	System IP rating		IP54			
	Lubrication (as supplied)			Extend 110		

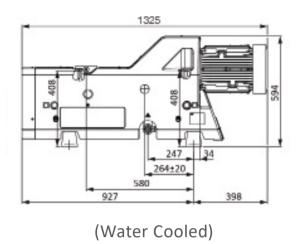
DIMENSIONS

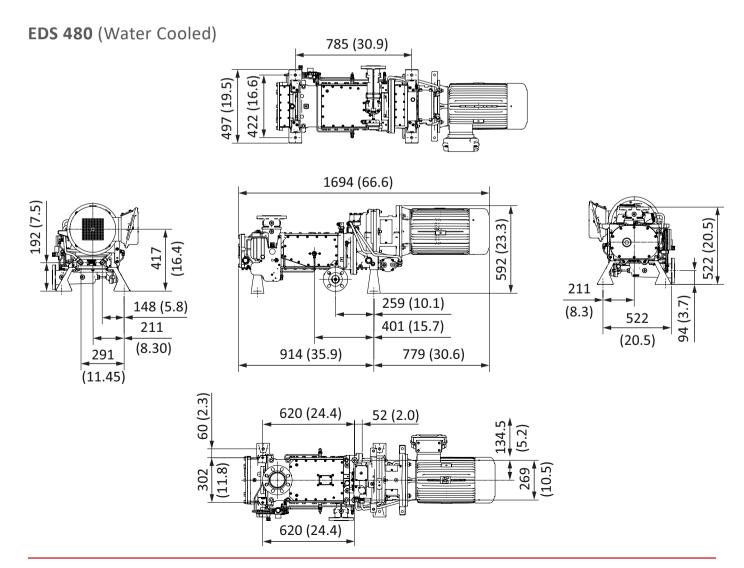
EDS 200/300



EDS 200/300 with Enclosure (Available as optional)







ORDERING INFORMATION

Part Number	Size	Cooling	Motor Voltage	Motor Desc.	Freq
A41820945	200	Direct Water	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	50 Hz
A41820946	200	Direct Water	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	60 Hz
A41820934	200	Direct Water	200V 50 Hz, 200/380V 60 Hz	Asia	50 Hz
A41820936	200	Direct Water	200V 50 Hz, 200/380V 60 Hz	Asia	60 Hz
A41820957	200	Direct Water	575V	Canada	60 Hz
A41821945	200	Air Blast	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	50 Hz
A41821946	200	Air Blast	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	60 Hz
A41821934	200	Air Blast	200V 50 Hz, 200/380V 60 Hz	Asia	50 Hz
A41821936	200	Air Blast	200V 50 Hz, 200/380V 60 Hz	Asia	60 Hz
A41821957	200	Air Blast	575V	Canada	60 Hz
A41830945	300	Direct Water	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	50 Hz
A41830946	300	Direct Water	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	60 Hz
A41830934	300	Direct Water	200V 50 Hz, 200/380V 60 Hz	Asia	50 Hz
A41830936	300	Direct Water	200V 50 Hz, 200/380V 60 Hz	Asia	60 Hz
A41830957	300	Direct Water	575V	Canada	60 Hz
A41831945	300	Air Blast	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	50 Hz
A41831946	300	Air Blast	380-400V 50 Hz, 230/460V 60 Hz	EU/US/CN	60 Hz
A41831934	300	Air Blast	200V 50 Hz, 200/380V 60 Hz	Asia	50 Hz
A41831936	300	Air Blast	200V 50 Hz, 200/380V 60 Hz	Asia	60 Hz
A41831957	300	Air Blast	575V	Canada	60 Hz
A41840945	480	Direct Water	200/400V 50 Hz, 230/460 V 60 Hz	EU/US/CN	50 Hz
A41840946	480	Direct Water	200/400V 50 Hz, 230/460 V 60 Hz	EU/US/CN	60 Hz
A41840934	480	Direct Water	200/380V 50/60 Hz	Asia	50 Hz
A41840936	480	Direct Water	200/380V 50/60 Hz	Asia	60 Hz
A41840957	480	Direct Water	575V 60 Hz	Canada	60 Hz

ACCESSORIES

Part Number	Description	Pump Compatibility
A41890000	TCV Kit Direct Cooled	All direct cooled EDS pumps
A41890001	TCV Kit Indirect Cooled	All indirect cooled EDS pumps
A41891001	Solenoid Valve Accessory	All EDS pumps
A41893000	EDS to EH 1200/2600/4200 Connection Kit	EDS 200/300
A41893001	EDS to EH500 Connection Kit	EDS 200/300
A41894000	Exhaust Pressure Transmitter	All EDS pumps
A41895000	Pt100 Stator Temperature Transmitter	All EDS pumps
A41895001	Pt100 Exhaust Temperature Transmitter	All EDS pumps
A41896009	EDS Dry Silencer	EDS 200/300
A41897000	BoV Plug Kit	All EDS pumps
A41896005	Industrial Enclosure	EDS 200/300
A41893002	Roots Adapter	EDS 480

SERVICE AND SUPPORT

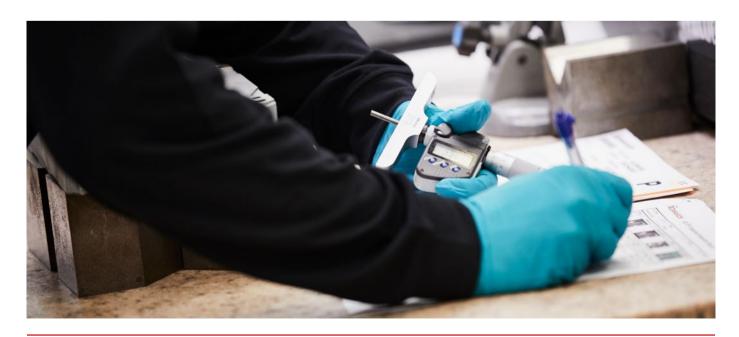
To ensure your EDS Dry Screw vacuum pump maintains optimal performance and reliability, we offer a wide range of service solutions, tailored to meet your needs. Through Field Service intervention, Managed Maintenance agreements and Overhaul service in our Service Technology Centres (STC), we will take care of your pump to ensure that it continues to deliver clean, consistent, efficient performance, with lower running costs and optimum total cost of ownership for its operating life.

Selecting original spare parts, maintenance kits and oil ensures that every critical part performs as it was intended. Our services engineers only fit 100% genuine parts to ensure that you receive the best result from each service.



Our Preventative Maintenance service packages include:

- Health Check and Routine Service Check Various flexible services including visual inspections, pump vitals
 checks and replacement/cleaning of components to keep your pump running in an optimal condition for
 your application.
- Overhaul The overhaul service includes multiple service options to ensure high performance and minimal downtime.
 - » Complete Remanufacturing, including full decontamination of the pump, replacement of consumables and testing of components to factory specifications.
 - » Clean and Overhaul, including cleaning of pump interior, repair/replacement of pipework, replacement of consumables and reassembly.
 - » Module Exchange, including removal and assembly of motor, gearbox, gas and water systems onto the replacement pump module.
 - » Pump Exchange, including exchange of the whole pump (including motor, gear box, gas and water systems) with a remanufactured pump.





GLOBAL CONTACTS

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