

EDS480 CHEMICAL BARE-SHAFT DRY SCREW PUMPS

edwardsvacuum.com

With rapid advances in technology, chemical processing industries place increasingly challenging demands on vacuum systems.

Vacuum pumps need to handle increasingly complex chemicals, solvents and compounds in a reliable and safe, way while ensuring control and reduction of environmental pollution at a low cost of ownership. Our latest offering, the EDS 480 Dry Screw chemical vacuum pump, offers our newest screw technology to provide a compact, versatile and robust product specifically for the chemical, pharmaceutical and petrochemical industries.



SIMPLE:

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

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



FLEXIBLE:

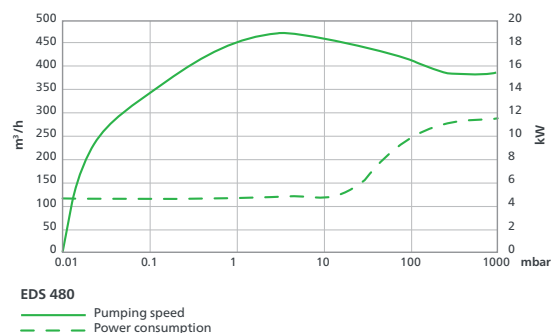
Designed for a changing global market

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

TECHNICAL DATA

		Units	EDS480
Performance	Pumping speed without gas-ballast and without flame arresters	m ³ /h / cfm	> 460 / 270
	Ultimate pressure	mbar / torr	< 0.01 / 0.007
Full load power	Ultimate pressure	kW / HP	4.5 / 6
Vacuum connections	Inlet flange		DIN 80 / 3" ANSI combination flange
	Exhaust flange		DIN 50 / 2" ANSI combination flange
Cooling water	Connection		G½" female threads
	Water supply temperature	°C/F	5-35 / 41-95
	Minimum required cooling water flow	l/min ⁻¹ / gal/min ⁻¹	> 4 / 1.05
	Maximum supply pressure	bar / psig	7 / 100
	Required water pressure differential	bar / psig	0.2 / 2.9
	Primary cooling circuit volume (Drystar water mixture volume in case of variant with indirect cooling)	l/gal	7 / 1.8
Purge	Connection		G½" female thread
	Purge gas regulated pressure	bar / psig	> 2.2 / 32
	Purge gas supply pressure range	bar / psig	4-10 / 58-145
	Gas-ballast flow rate		0-130 slm
Operating data	Noise		71 dB(A)
	System IP rating		IP 54
	Lubrication (as supplied)		Ultragrade® endurance extend 110

PERFORMANCE CURVES



ORDERING INFORMATION

Part Number	Product Description
A41842985	EDS480ex prepared for IEC 50 Hz DC
A41844985	EDS480ex prepared for IEC 50 Hz IDC
A41844986	EDS480ex prepared for NEMA 60 Hz IDC

APPLICATIONS

- Lithium-ion batteries
- Distillation applications
- Solar crystal pulling
- Fine chemicals
- Oil treatment plants
- Pharmaceuticals
- Petrochemicals
- Flammable & corrosive gases
- Degassing
- Dewatering & filtration
- Polymers & plastics production

DIMENSIONS



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