

# Химические сухие насосы CDX, химические сухие EDP, химические сухие винтовые вакуумные насосы EDS

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Тольятти (8482)63-91-07  
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# EDS CHEMICAL DRY SCREW VACUUM PUMPS



## EDWARDS THE PARTNER OF CHOICE

Edwards is a world leader in the design, technology and manufacture of vacuum pumps for industrial applications with over 100 years' history.

We believe in delivering results that bring value to our customers by using our breadth of industry experience to identify and apply solutions. Using the most innovative and up-to-date modelling techniques, we can optimise the pumping configuration for customers to provide a system design giving the maximum performance in the most reliable and cost-effective way.

## CLEAN AND ENERGY-EFFICIENT VACUUM SOLUTIONS FOR CHEMICAL PROCESS INDUSTRIES

Edwards installed its first dry pump for a pharmaceutical application in 1988. It is yet to be replaced. This is a testament to the highest quality, safety and service standards. Our combination of applications expertise, diverse product portfolio, engineering strength and global presence puts us in a unique position to be able to design and maintain the best solution for chemical process industries. The EDS Dry Screw chemical vacuum pump offers the latest screw technology to provide a clean, effluent-free vacuum specifically for the chemical, pharmaceutical and petrochemical industries.

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.

It is crucial for systems to be "plug and play" with minimum setup or have configurable options available when required to suit specific chemical processes. The EDS Dry Screw chemical vacuum pump with its strong focus on the fine chemical and pharmaceutical markets serves a wide range of chemical applications.

### PUMP TECHNOLOGY



#### SIMPLE

Advanced screw vacuum technology simply packaged

- **Peace of mind:** Ease of installation, systemisation, support and service
- **Pumping:** Designed to be reliable



#### PROCESS CAPABLE

Mechanism proven in the most demanding applications

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



#### FASTER

Extra performance to meet modern day technologies

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



#### ROBUST

Built for challenging chemical installations

- **Installation options:** Highly tolerant water-cooled standard products
- **Protection:** High IP ratings



#### 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



#### ATEX COMPLIANT

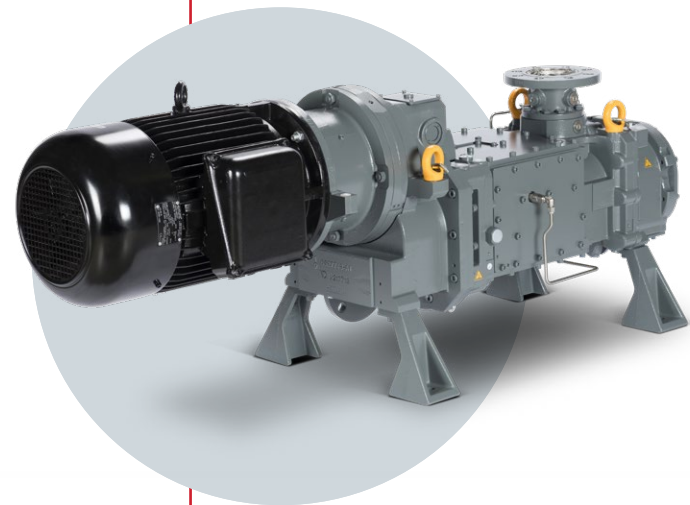
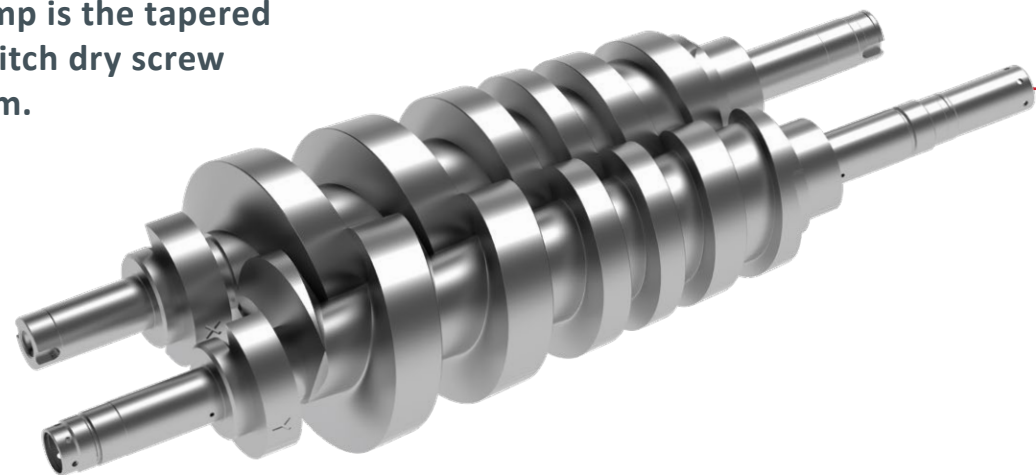
Safe for hazardous area installations

- **Designed to be capable of handling gases:** From a potentially explosive atmosphere
- **Certified:** Under the ATEX directive 2014/34/EU
- **Global compliance:** Flexible to adapt to all global explosion-proof standards



# EDS CHEMICAL SYSTEM AT A GLANCE

At the heart of the EDS Dry Screw pump is the tapered variable pitch dry screw mechanism.



Direct and Indirect shell and tube heat exchanger cooling options



ATEX Cat 1 and Cat 2 standard variants to meet T3 and T4 temperature classes



Bare-shaft variants available for flexibility to meet any global Ex Proof standards



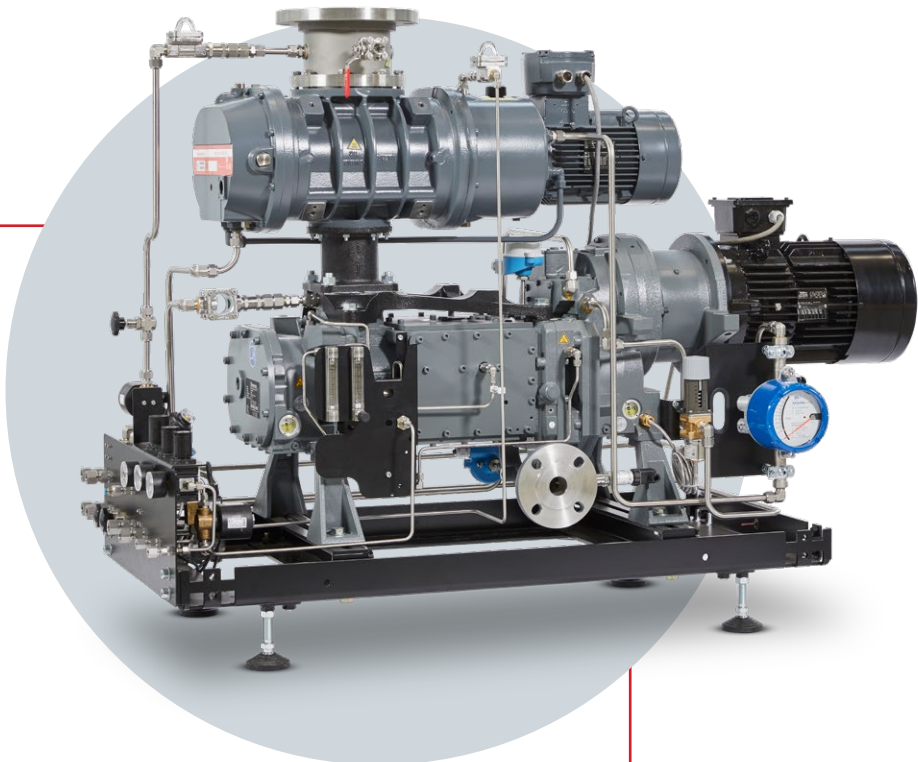
Wide range of standard accessories available



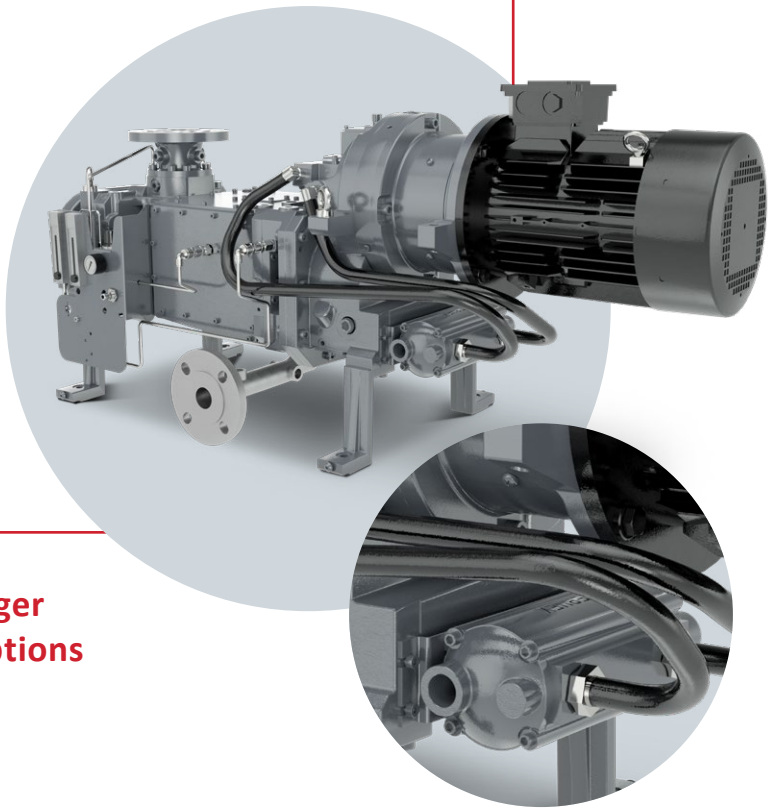
Purge flow rotameters as standard



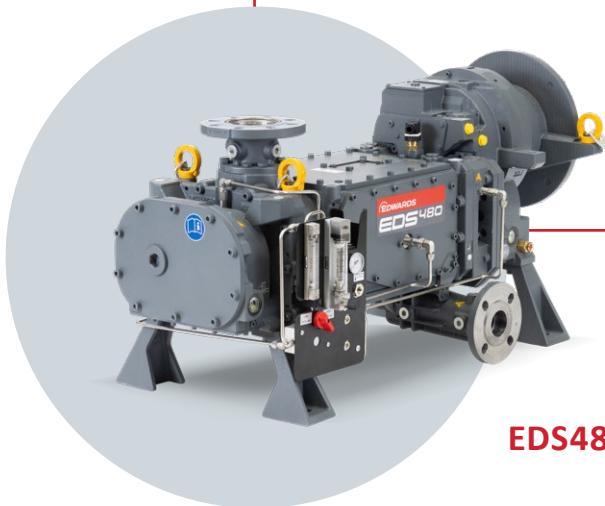
Compressed air gas ballast



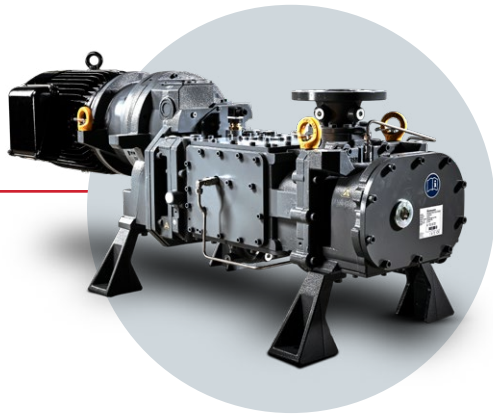
EDS vacuum pump + EH booster combination



Compact heat exchanger for indirect cooling options



EDS480

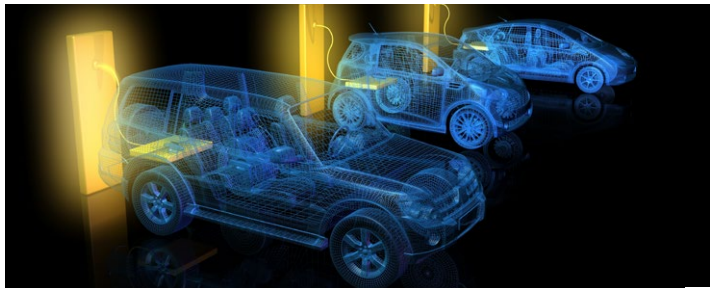
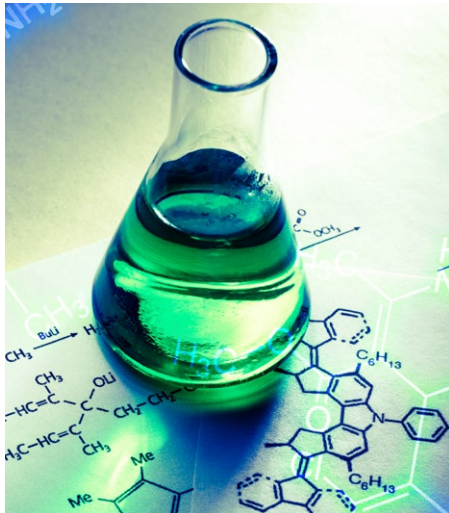




APPLICATIONS

The EDS range is suitable for a wide range of chemical applications including:

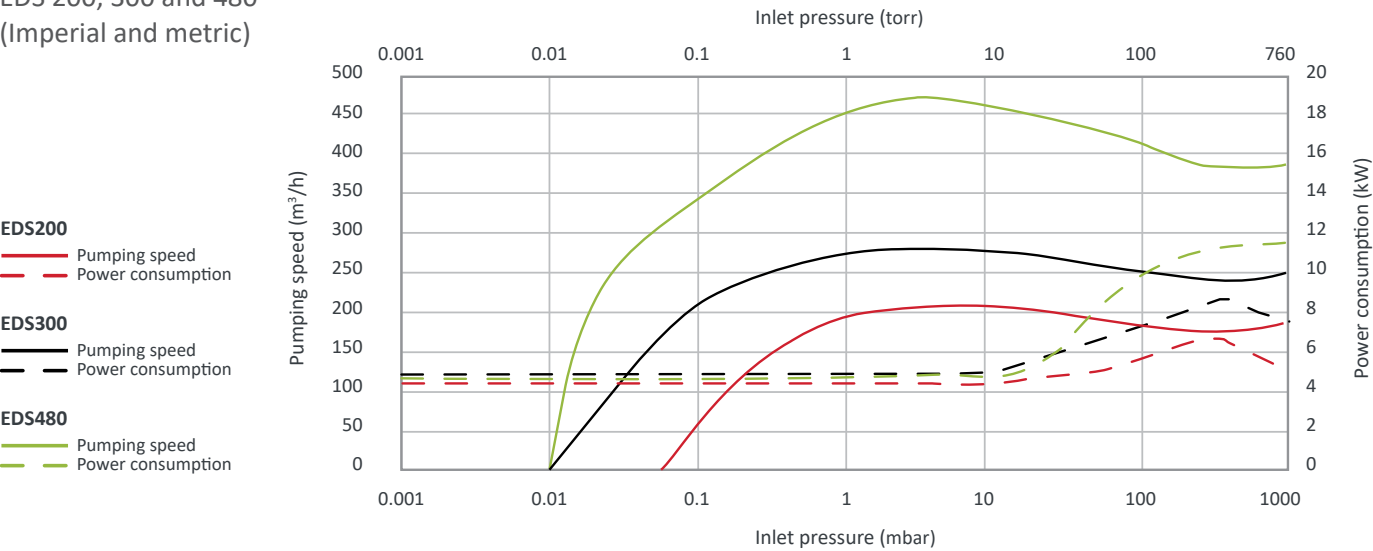
- Lithium-ion batteries
- Distillation applications
- Solar crystal pulling
- Fine chemicals
- Oil treatment plants
- Pharmaceuticals
- Petrochemicals
- Flammable and corrosive gases
- Degassing
- Dewatering and filtration
- Polymers and plastics production



For a complete list of chemical applications and processes, please contact your local Edwards representative.

PERFORMANCE CURVES

EDS 200, 300 and 480  
(Imperial and metric)



TECHNICAL SPECIFICATIONS

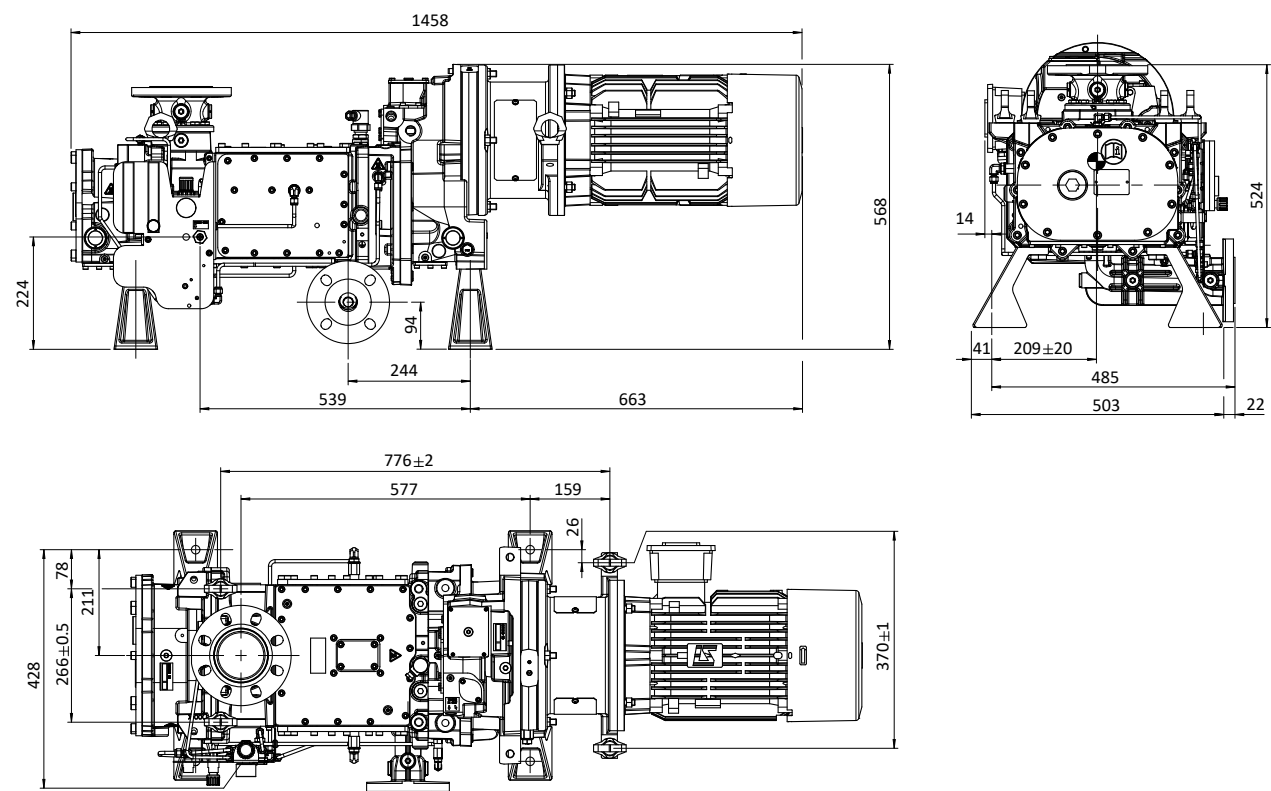
			Metric		
			Chemical		
			EDS200	EDS300	EDS480
Performance	Peak pumping speed	m³h <sup>-1</sup>	210	>280	> 460
	Ultimate pressure	mbar	<0.05	<0.01	< 0.01
Full load power	@ ultimate pressure	kW	4.1	4.5	4.5
	@ peak pumping load	kW	6.4	8.2	11
Vacuum connections	Inlet connection		DIN80/3"ANSI		
	Exhaust connection		DIN50/2"ANSI		
Cooling water	Connection		G1/2" female		
	Flow	L/min <sup>-1</sup>	<8		<4
	Supply pressure (Max.)	bar	7		
	DP across pump (Min.)	bar	0.5		
	Temperature	°C	5-40		5-35
Purge gas	Connection		G1/4" female threads		
	Pressure	bar	2.5-6.9		> 2.2
	SSP flow	lmin <sup>-1</sup>	<12		
	Gas ballast flow*	lmin <sup>-1</sup>	0-50		0-130 slm
Operating data	Noise	dB(A)	<71		71
	Operating temperature	°C	-20 to +40		
	Exhaust back pressure (Max.)**	mbar	1200		1100
	System IP rating		IP54		
	Lubrication (as supplied)		Extend 110		

				Imperial		
				Chemical		
				EDS200	EDS300	EDS480
CFM				124	>165	270
Torr				<0.04	<0.008	0.007
hp				5.5	6	6
hp				8.6	11	15
				DIN80/3"ANSI		
				DIN50/2"ANSI		
				G1/2" female		
Gal/min <sup>-1</sup>				<2.1		> 1.05
psig				100		
psig				7.25		
°F				41-104		41-95
				G1/4" female threads		
psig				36-100		32
lmin <sup>-1</sup>				<12		
lmin <sup>-1</sup>				0-50		0-130 slm
dB(A)				<71		71
°F				-4 to +104		
psia				17.4		15.9
				IP54		
				Extend 110		

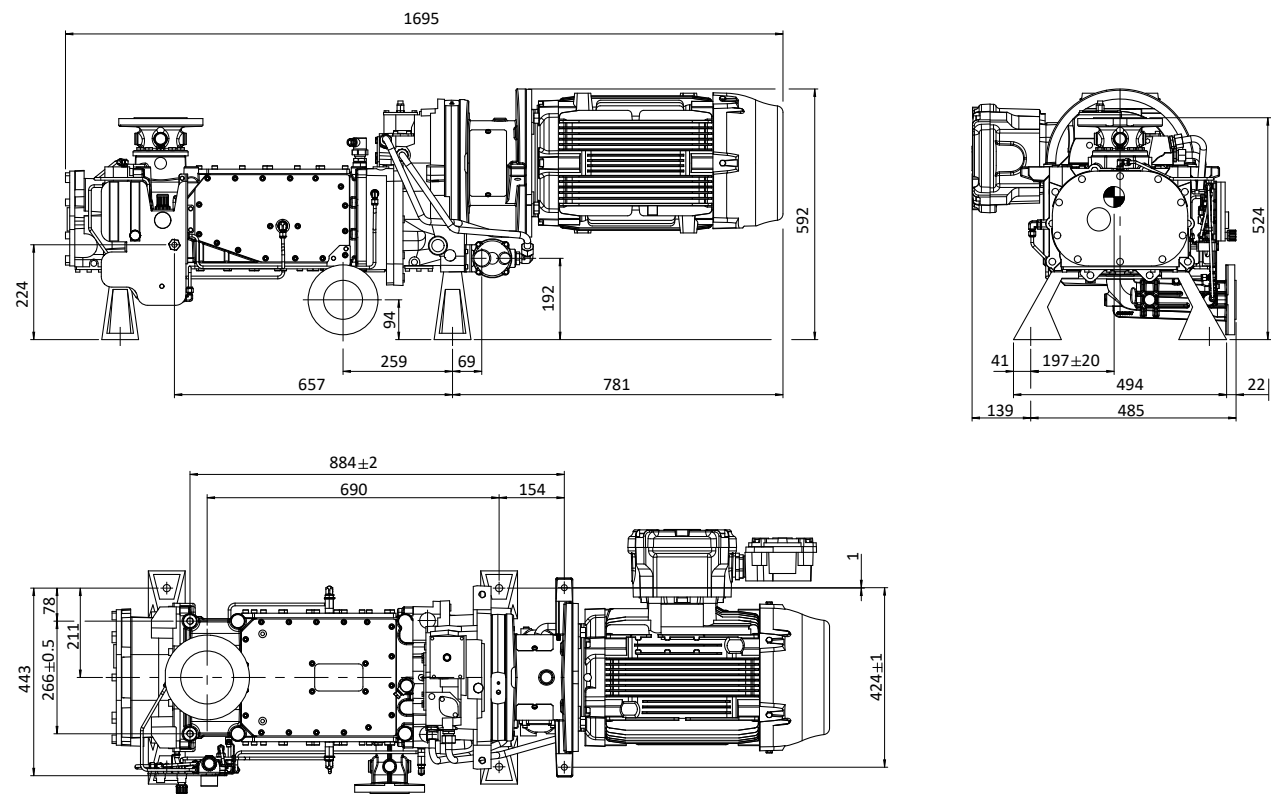


DIMENSIONS

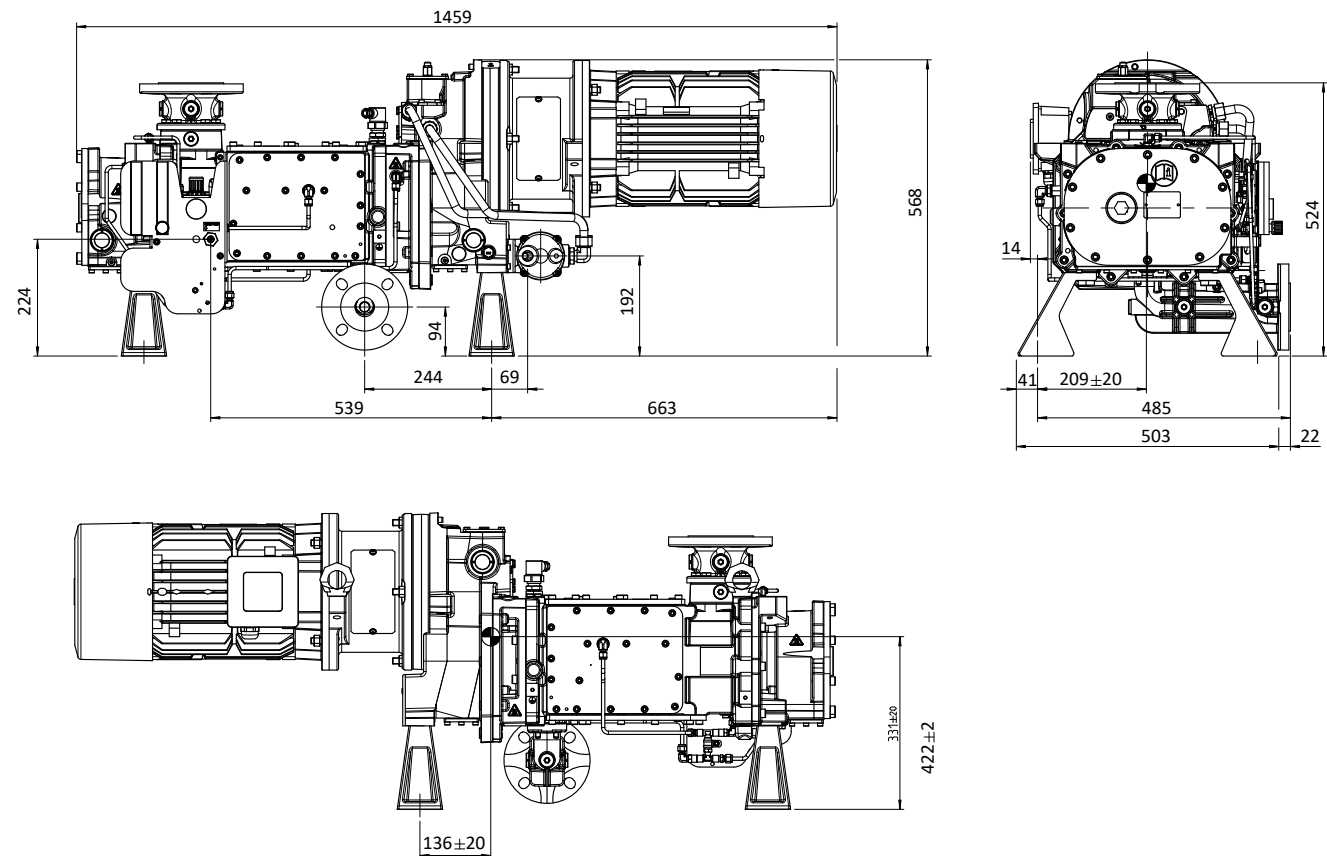
EDS200-300 (Chemical Direct)



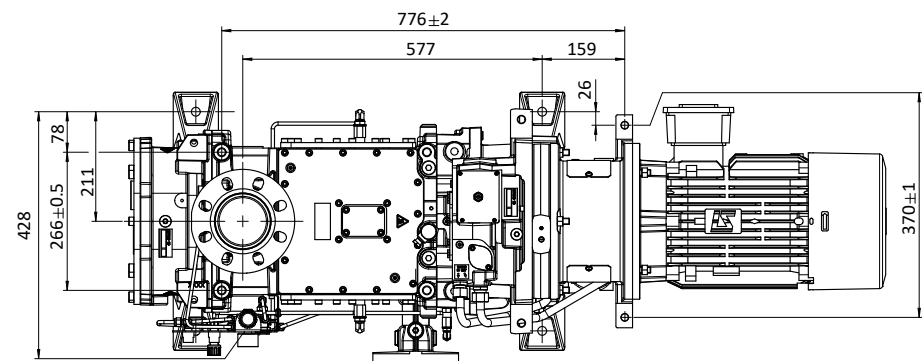
EDS480 (Chemical Direct)



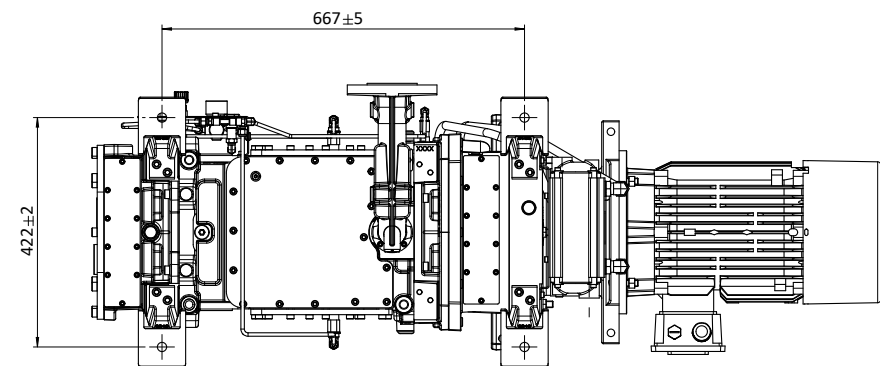
EDS200-300 (Chemical Indirect)



Top View



Bottom View





ORDERING INFORMATION

Part number	Size	Cooling	Motor voltage	Motor desc.	Freq.
A41822945	200	Direct water	230/400V 50Hz	ATEX IIC T3	50Hz
A41824945	200	Indirect water	230/400V 50Hz	ATEX IIC T3	50Hz
A41823945	200	Direct water	230/400V 50Hz	ATEX IIC T4	50Hz
A41825945	200	Indirect water	230/400V 50Hz	ATEX IIC T4	50Hz
A41826945	200	Direct water	230/400V 50Hz	ATEX IC T3, T4	50Hz
A41827945	200	Indirect water	230/400V 50Hz	ATEX IC T3, T4	50Hz
A41824985	200	Indirect water	B/S	IEC ready	50Hz
A41824986	200	Indirect water	B/S	NEMA ready	60Hz
A41832945	300	Direct water	230/400V 50Hz	ATEX IIC T3	50Hz
A41834945	300	Indirect water	230/400V 50Hz	ATEX IIC T3	50Hz
A41833945	300	Direct water	230/400V 50Hz	ATEX IIC T4	50Hz
A41835945	300	Indirect water	230/400V 50Hz	ATEX IIC T4	50Hz
A41836945	300	Direct water	230/400V 50Hz	ATEX IC T3, T4	50Hz
A41837945	300	Indirect water	230/400V 50Hz	ATEX IC T3, T4	50Hz
A41834985	300	Indirect water	B/S	IEC ready	50Hz
A41832985	300	Direct water	B/S	IEC ready	50Hz
A41834986	300	Indirect water	B/S	NEMA ready	60Hz
A41842945	480	Direct water	230/400V 50Hz	ATEX IIC T3	50Hz
A41842985	480	Direct water	Non-motorised	IEC ready	50Hz
A41842986	480	Direct water	Non-motorised	NEMA ready	60Hz

ACCESSORIES

Part number	Accessories	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	200/300 pumps only
A41893001	EDS to EH500 connection kit	200/300 pumps only
A41894000	Exhaust pressure transmitter	All EDS pumps
A41895000	Pt100 stator temperature transmitter	All EDS pumps
A41895001	Pt100 exhaust temperature transmitter	All EDS pumps
A41897000	BoV plug kit	All EDS pumps

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. From 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.

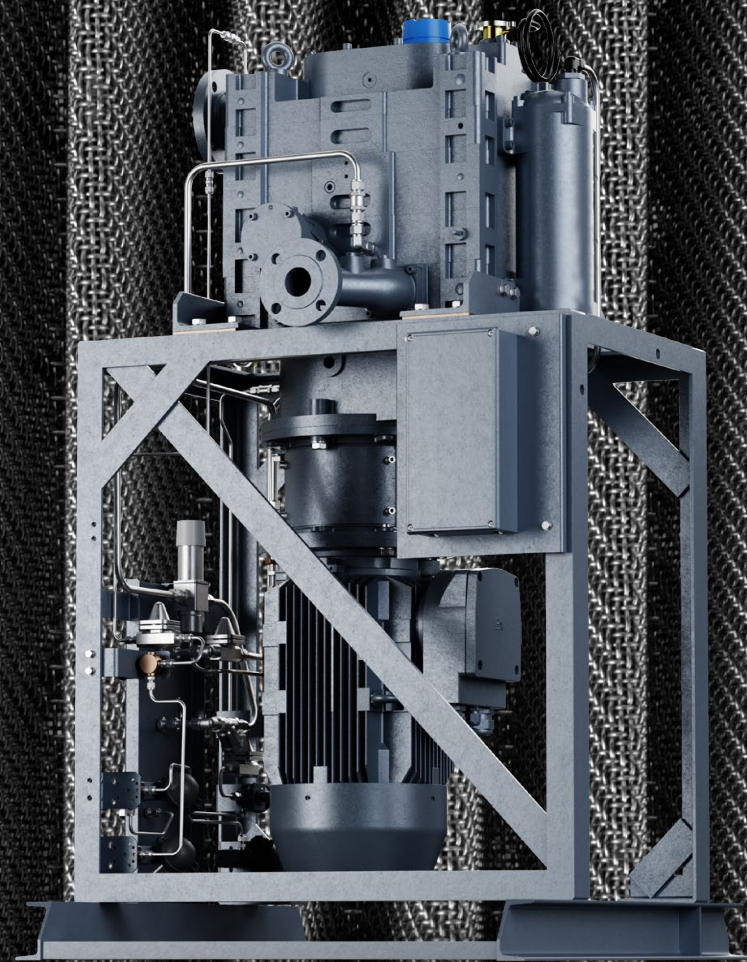
Selecting original spare parts, maintenance kits and oil means that every critical part performs as it was intended. Our services engineers only fit 100% genuine parts to ensure you receive the best result from each service.

Our Preventative Maintenance service packages include:

- **Health check and routine service check** - Various flexible services to keep your pump running in an optimal condition for your application, including visual inspections, pump vitals checks and replacement/cleaning of components.
- **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 components tested 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 replacement pump module.
  - » **Pump exchange** includes exchange of whole pump (including motor, gear box, gas and water systems) replaced with remanufactured pump.







# EDP CHEMICAL DRY VACUUM PUMP

EDP 80-400

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## EDP CHEMICAL DRY PUMP

Edwards, a world leader in dry vacuum pump technology, successfully pioneered the use of environmentally friendly dry vacuum pumps in the early 1980s. With more than 100,000 systems installed worldwide, Edwards dry pumps create significant benefits for customers in many applications and industries.

This expertise is incorporated in the chemical dry pumps to satisfy the demanding requirements of the chemical, petrochemical and pharmaceutical industries. We offer a range of four pumps with 80 - 400 m<sup>3</sup>/h capacity, and ultimate vacuums of below 1 mbar. Our chemical dry pumps meet the highest safety and performance standards and are second to none in this respect.

EDP pumps are based on Edwards' oil-free, non-contacting, reverse claw mechanism. They provide consistent vacuum at high efficiencies and low costs of ownership.

Dry pumps reduce the risk of process contamination and creation of polluted effluent, which are experienced with traditional wet vacuum pump technologies.



Staged compression for optimum temperature profile within the pump and no requirement for cooling gas injection



Vertical design means reduction in overall footprint along with it being inherently free draining



Short gas path reduces risk of particulate build-up and corrosion



Able to handle liquid or particulate carry-over



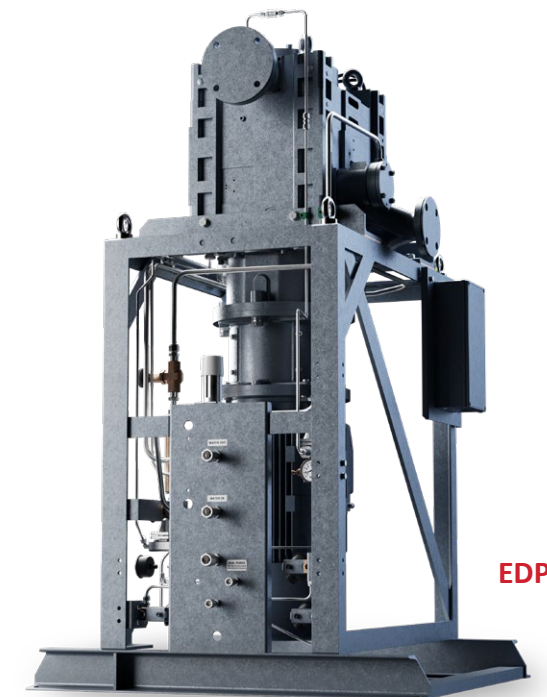
No internal valves to block or corrode and no interstage condensers that reduce risk of corrosion



Can flush with solvents, water or steam depending on process compatibility



Pump flammable gases safely



EDP 250



Non-contacting mechanisms gives long life and high reliability



Designed for long life and easy maintenance

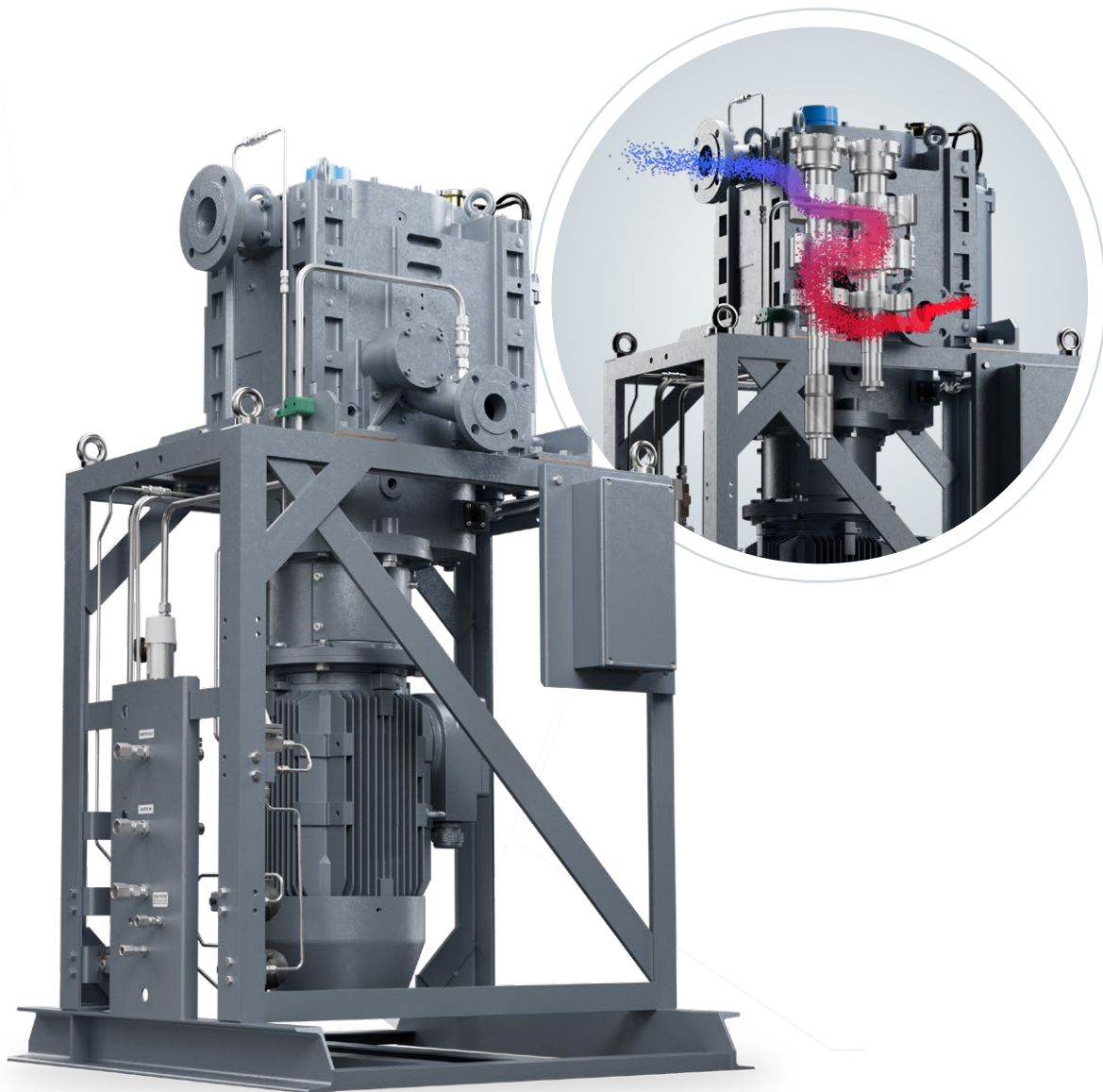


Lower cost of ownership



# DESIGNED AND TESTED FOR SAFETY AND RELIABILITY

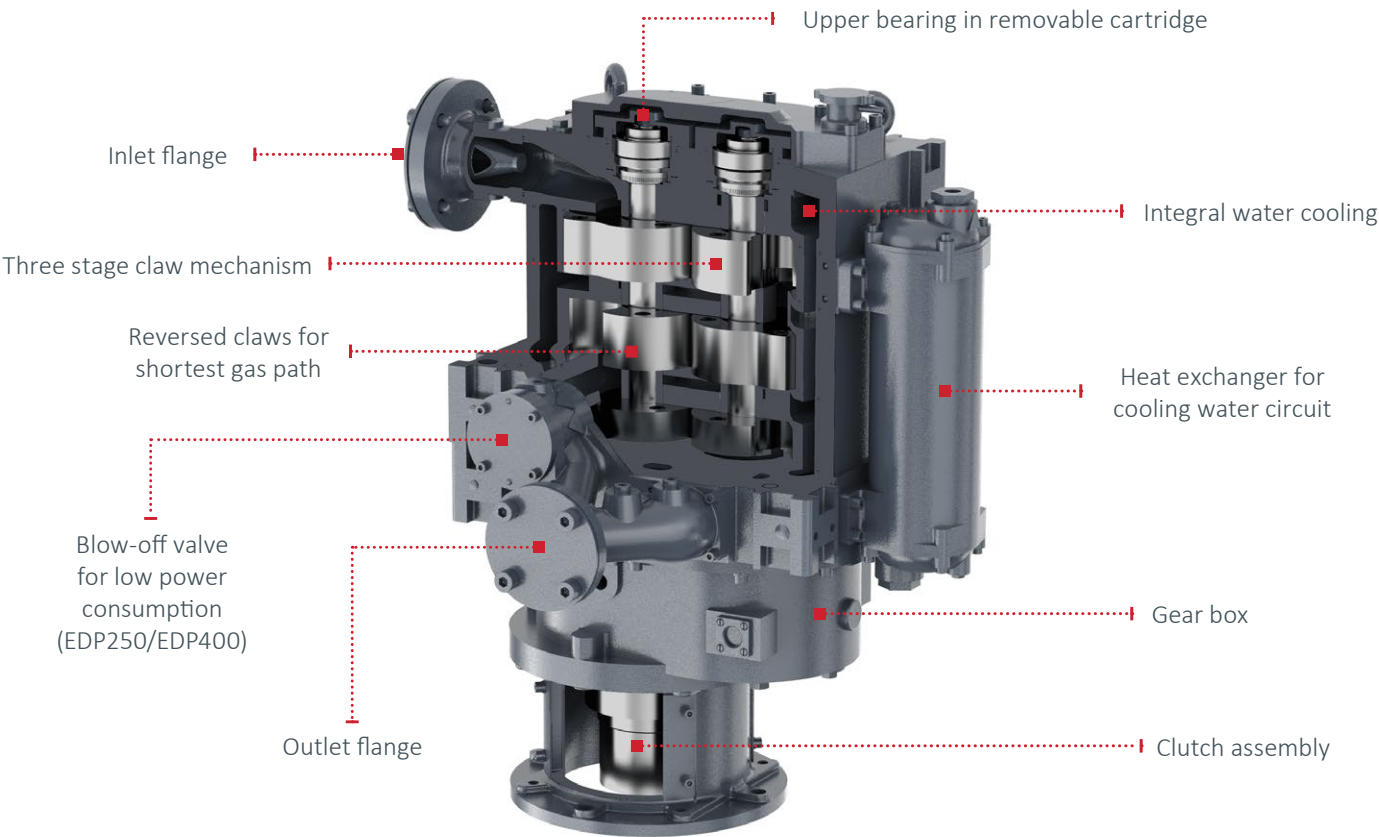
- Temperature control for optimised operating conditions- hot for corrosive applications and cool for other gases, if required
- Over-temperature protection for fault conditions
- Dynamically explosion tested and certified by independent authorities
- Non-brittle ductile iron materials of construction for stator and rotors
- Leak checked to  $10^{-3}$  mbar l/s and type pressure tested
- Largest installed base- most leading companies in the chemical and pharmaceutical industries are on our customer list
- Torque limiters to prevent damage to pump element in case of process build up



# DESIGNED FOR LONG LIFE AND EASY MAINTENANCE

- 1 year unattended operation
- 3 years between stripdowns
- Bearing cartridges quickly accessible
- Minimum number of seals and bearings
- Designed for a minimum of 25 years life expectancy

# INTERNAL MECHANISM OVERVIEW



# LOWER COST OF OWNERSHIP

- Easy maintenance at wide intervals
- Low power at operating vacuum
- Adjustable cooling water flow
- Minimum seal purge flow
- No cooling gas injection required
- Cheap to replace rotating parts



SYSTEMISATION

Because no two installations are identical, Edwards offers a custom systemisation design and build service, exactly matched to customer needs, using pre-engineered modules together with an extensive CAD capability. This also allows subsequent expansion or reconfiguration. A wide range of modules is available, including:

- EH, HV and Stokes mechanical booster pumps
  - Condensers
  - Receivers
  - Knockout pots
  - Dust filters
  - Solvent purging
  - Flame arrestors
  - Isolation and throttle control valves
- Instrumentation
  - Silencers
  - Inverter drives and pressure controls
  - Electrical control panels
  - Air blast closed-loop cooling
  - Documentation
  - Base skids

The requirement for these or other accessories is clarified through expert applications engineering. Work can be carried out to a customer’s specifications, or to local or industry standard codes and practices. Full documentation is provided, and full certification can be obtained if necessary.

TECHNICAL SPECIFICATIONS

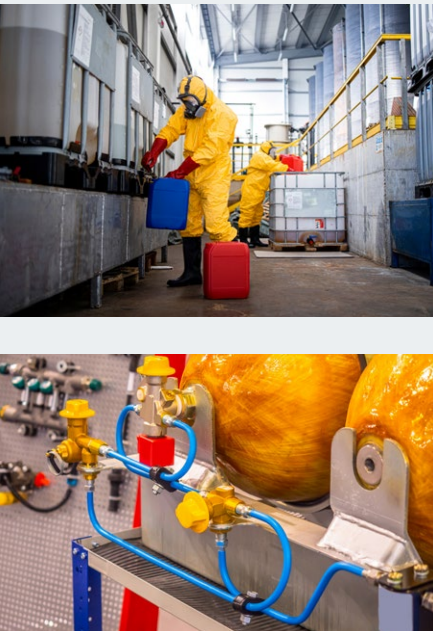
	Units	EDP80		EDP160		EDP250		EDP400	
Noise (max. with exhaust silencer)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Maximum pumping speed	m³h <sup>-1</sup>	83	102	163	202	260	320	377	427
	ft³min <sup>-1</sup>	49	60	96	119	153	188	222	251
Capacity at 10 mbar (7.5 Torr)	m³h <sup>-1</sup>	75	102	153	198	255	315	377	422
	ft³min <sup>-1</sup>	44	60	90	117	150	185	222	248
Ultimate vacuum	mbar	0.5	0.3	0.5	0.3	0.5	0.2	0.4	0.2
	Torr	0.4	0.2	0.4	0.2	0.4	0.2	0.3	0.2
Maximum back pressure - standard (optional*)	mbar	1150 (1300*)		1150 (1300*)		1150 (1300*)		1150	
	psig	2.2 (4.4*)		2.2 (4.4*)		2.2 (4.4*)		2.2	
Power consumption at 10 mbar (7.5 Torr)	kW	3.3	4.0	4.9	4.9	6.0	6.0	7.0	7.0
	hp	4.4	5.4	6.6	6.6	8.0	8.0	9.4	9.4
Standard motor (380 - 400V, 3 ph, 50 Hz)	kW	5.5	5.5	7.5	11.0	11.0	15.0	18.5	25.0
Standard motor (200 - 460V, 3 ph, 60 Hz)	hp	7.5	7.5	10.0	15.0	15.0	20.0	25.0	30.0
Cooling water flow rate (adjustable)	l min <sup>-1</sup>	1 - 8	1 - 10	1 - 8	1 - 10	1 - 10	1 - 10	1 - 10	1 - 10
	gal min <sup>-1</sup>	0.3 - 2.1	0.3 - 2.6	0.3 - 2.1	0.3 - 2.6	0.3 - 2.6	0.3 - 2.7	0.3 - 2.6	0.3 - 2.7
Cooling water supply pressure	barg	2 - 10							
	psig	29 - 145							
Seal purge flow (maximum), regulated to 0.3 - 0.5 barg (5 - 7 psig)	l min <sup>-1</sup>	20							
	ft³ min <sup>-1</sup>	0.7							
Seal purge supply pressure (minimum - maximum)	barg	2 - 10							
	psig	29 - 145							
Noise (max. with exhaust silencer)	dB(A)	73	73	77	78	79	79	82	82
Weight (with frame and standard motor)	kg	648	650	747	756	848	860	918	960
	lbs	1429	1433	1647	1667	1870	1909	2024	2116
Process connection, inlet	ANSI/DIN	2"/DN50		3"/DN80		3"/DN80		3"/DN80	
Process connection, outlet	ANSI/DIN	1.5"/DN40		1.5"/DN40		2"/DN50		2"/DN50	
Pumping mechanism	3 stage reversed claw								

\* Consult Edwards

Data shown here refers to dry pumps only. Higher capacities and deeper vacuum levels are available by combining one or more dry mechanical boosters with EDP pumps. A wide range of systemisation accessories is also available, including condensers for enhanced performance and a number of safety, instrumentation and control options. Although every care has been taken in the preparation of data and dimensional drawings, please discuss your individual requirements with Edwards.

APPLICATIONS

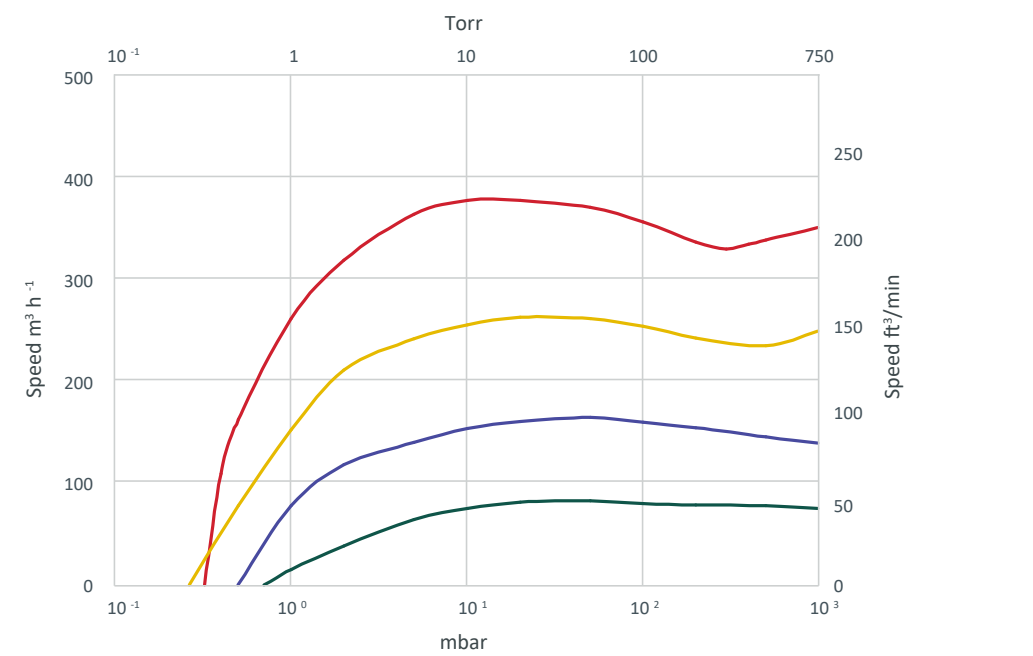
- Drying
  - Distillation
  - Reactor service
  - Solvent recovery
  - House/central vacuum
  - Evaporation
  - Polymerisation
  - Ethylene oxide sterilisation
- Fatty acids and alcohols
  - Bio-fuels
  - Corrosive gases
  - Flammable gases
  - Pervaporation
  - Absorption/desorption
  - Crystallisation
  - Filtration



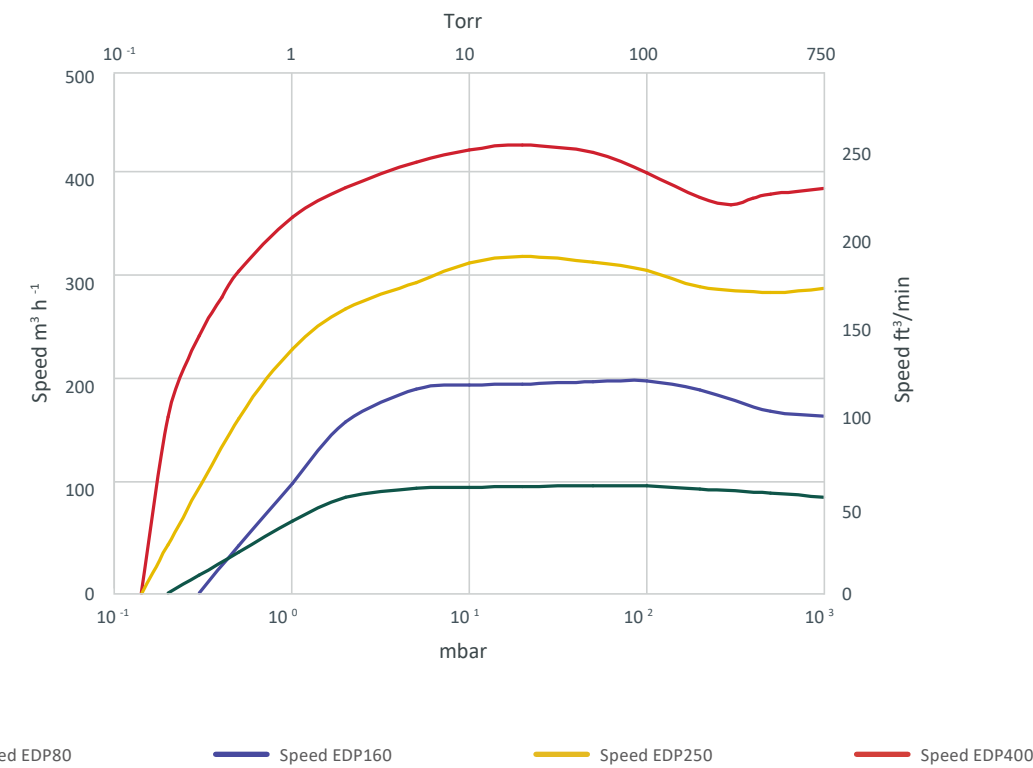


PERFORMANCE CURVES

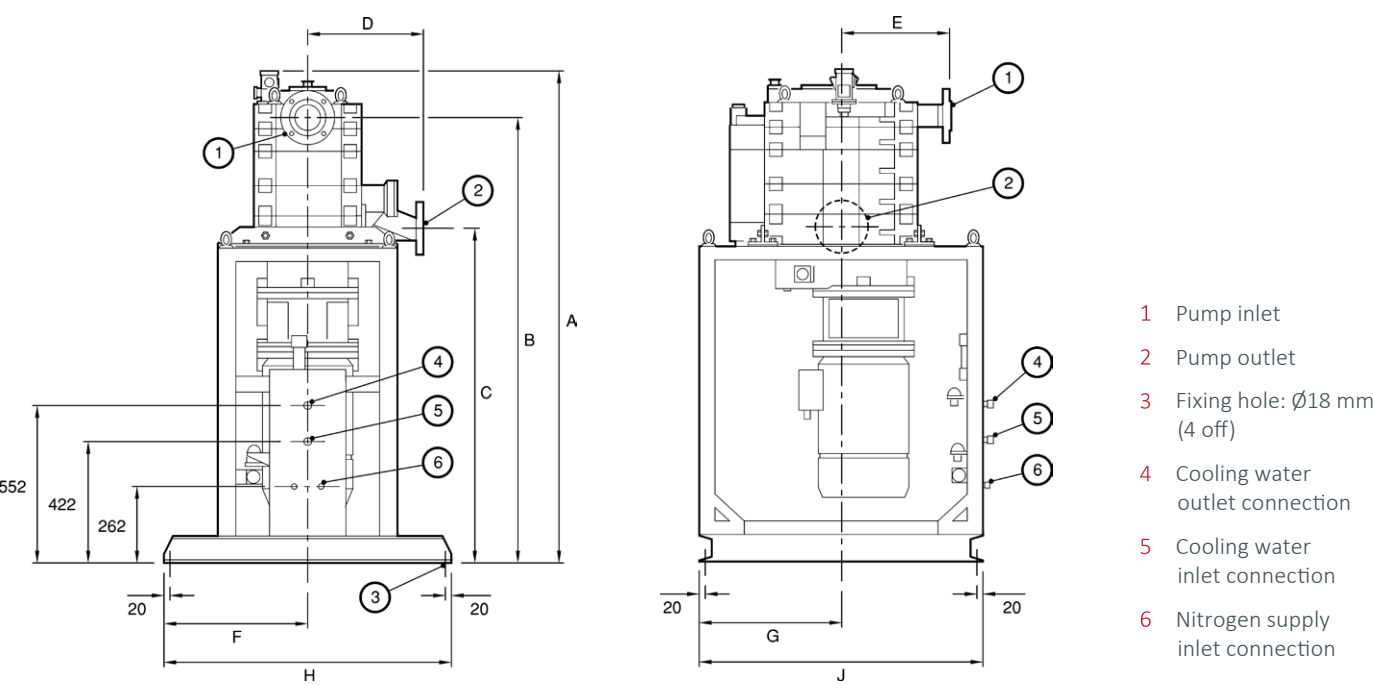
EDP - 50Hz



EDP - 60Hz



DIMENSIONS



Key	EDP80	EDP160	EDP250	EDP400 50 Hz	EDP400 60 Hz
A	1423 (56.0)	1458 (57.4)	1681 (66.2)	1730 (68.1)	1721 (67.8)
B	1254 (49.4)	1289 (50.7)	1514 (59.6)	1562 (61.5)	1549 (61.0)
C	974 (38.3)	974 (38.3)	1148 (45.2)	1148 (45.2)	1149 (45.2)
D	353 (13.9)	353 (13.9)	377 (14.8)	377 (14.8)	349 (13.7)
E	443 (17.4)	448 (17.6)	359 (14.1)	359 (14.1)	362 (14.3)
F	350 (13.8)	350 (13.8)	500 (19.7)	500 (19.7)	476 (18.7)
G	350 (13.8)	350 (13.8)	475 (18.7)	475 (18.7)	476 (18.7)
H	700 (27.6)	700 (27.6)	1000 (39.4)	1000 (39.4)	997 (39.3)
J	850 (33.5)	850 (33.5)	950 (37.4)	950 (37.4)	946 (37.2)

ORDERING INFORMATION

Part number	Pump description
A70545000	EDP80 (50 Hz) Bareshaft Pump
A70547000	EDP80 (60 Hz) Bareshaft Pump
A70544000	EDP160 (50 Hz) Bareshaft Pump
A70546000	EDP160 (60 Hz) Bareshaft Pump
A70543000	EDP250 (50/60 Hz) Bareshaft Pump
A70542000	EDP400 (50 Hz) Bareshaft Pump
A70541000	EDP400 (60 Hz) Bareshaft Pump



# CDX1000-1300 DRY SCREW VACUUM PUMPS



## EDWARDS THE PARTNER OF CHOICE

Edwards is a world leader in the design, technology and manufacture of vacuum pumps for industrial applications with over 100 years' history.

We believe in delivering results that bring value to our customers by using our breadth of industry experience to identify and apply solutions. Using the most innovative and up-to-date modelling techniques, we can optimise the pumping configuration for customers to provide a system design giving the maximum performance in the most reliable and cost-effective way.

## DRY PUMP TECHNOLOGY

Edwards is a market leader in dry pump technology and a pioneer of dry vacuum for the chemical process, pharmaceutical and fine chemical industries. The CDX1000-1300 dry screw vacuum pumps are optimised for processes requiring large pumping speeds and are best suited for demanding applications within this sector. It's innovative double screw ended technology leverages Edwards' smart manufacturing and design philosophies. Installed mainly in continuous, large, high throughput environments; this pump has been designed to withstand process malfunctions and to minimise down time from line maintenance to overhaul. These dry pumping systems reduce energy costs, eliminate effluent and can give significant improvements in product quality compared to oil-sealed or liquid ring vacuum pump technology.



### Reliable design

Simple, rugged double ended screw design for reliable performance



### Tighter temperature control

Indirect cooling and oil cooled rotors ensure consistent temperature control



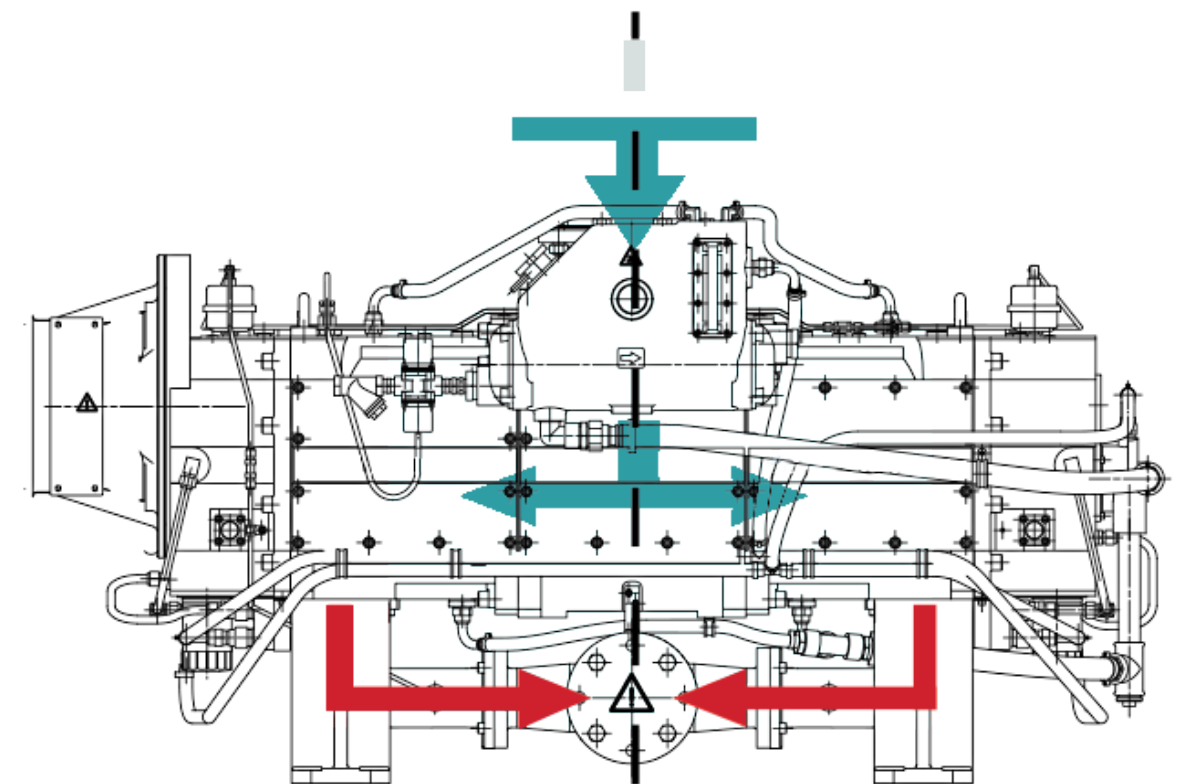
### Protection from process

Excellent dust, particulate and liquid handling for process repeatability



### Ease of service

Designed for service, with easy on-site maintenance allowing for maximum uptime



Compression in 2 smaller volumes





### High tolerance

The pump's dependable dust and particulate tolerance ensures no expansion volumes or no cold seizures



### Tailored to match your needs

Customised systems available for a wide range of processes ensuring better performance and control options



### Easy to control

Cooled, filtered oil system and direct on-line start ensure hassle-free operations from initial installation and throughout lifecycle



### Excellent liquid handling

Pump is equipped with a self-draining mechanism with no compression plate and no hydraulic lock



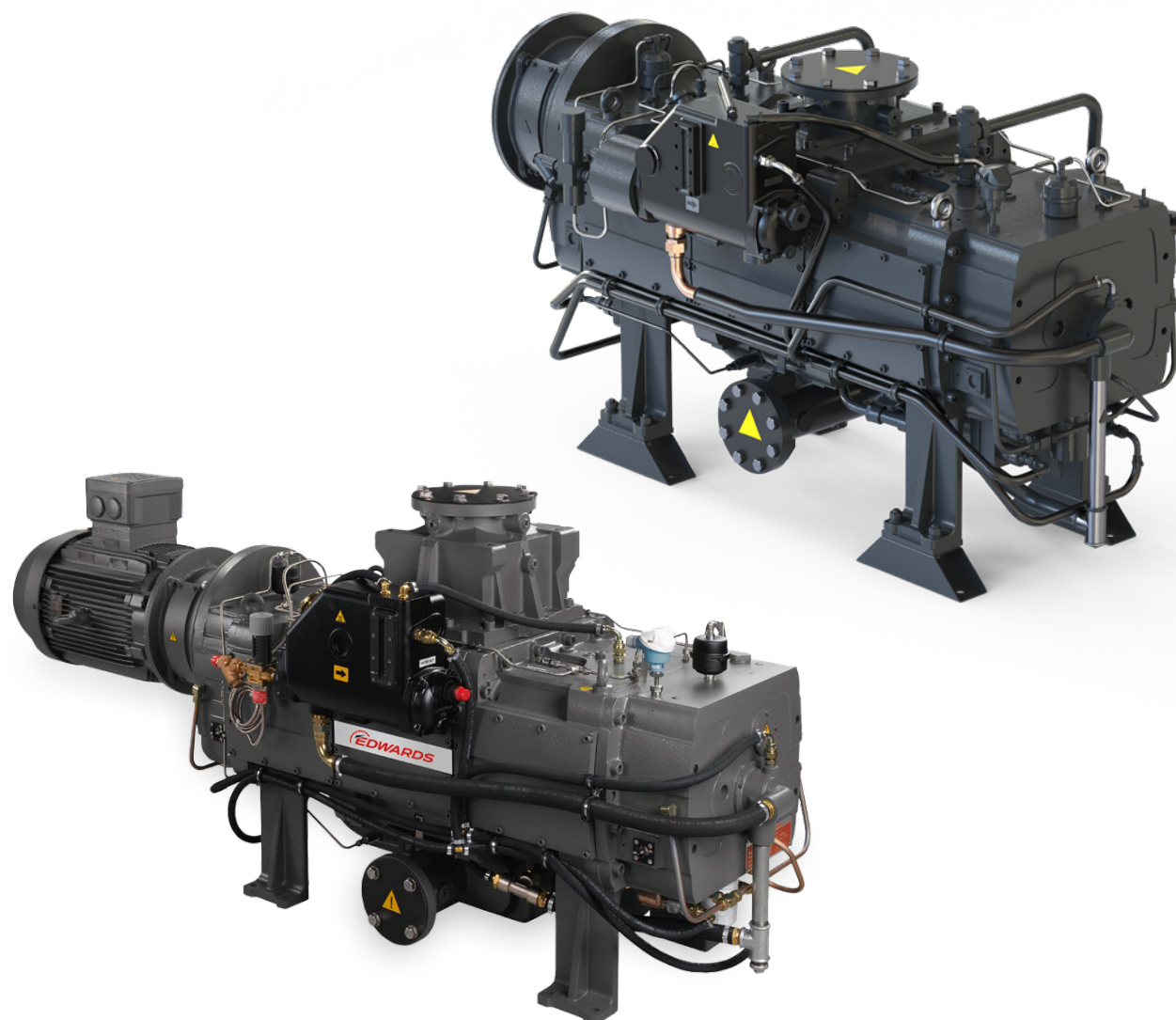
### High longevity

Limiting the oil temperature prevents carburisation and degradation, extending bearing and seal life



### Minimal process line disturbance

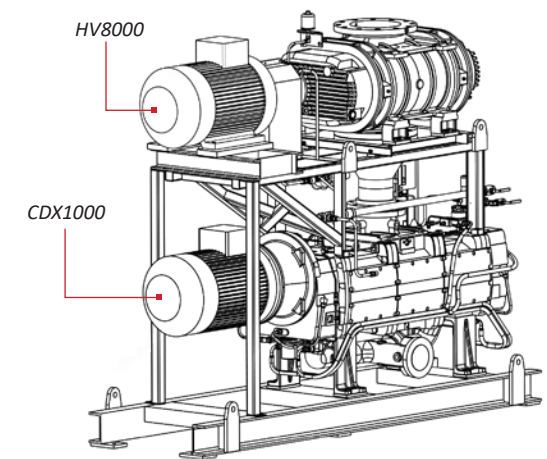
Flame arrestors available as option can be cleaned and inspected without breaking process lines and silencers are drainable and cleanable



## SYSTEMISATION

As no two installations are identical, Edwards offers a custom systemisation design and build service, exactly matched to customer needs, using pre-engineered modules together with an extensive CAD capability. This also allows subsequent expansion or reconfiguration. A wide range of modules is available, including:

- Knockout pots
- Dust filters
- Solvent purging
- Flame arrestors
- Instrumentation
- Silencers
- Documentation
- Base skids
- EH, HV and GMB mechanical booster pumps
- Isolation and throttle control valves
- Inverter drives and pressure controls
- Electrical control panels
- Air blast closed-loop cooling
- Condensers
- Receivers

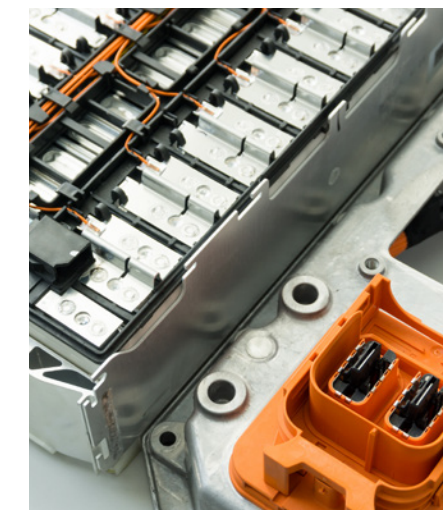


CDX1000 and HV8000 booster combination

The requirement for these or other accessories is clarified through expert applications engineering. Work can be carried out to a customer's specifications, or to local or industry standard codes and practices.

## APPLICATIONS

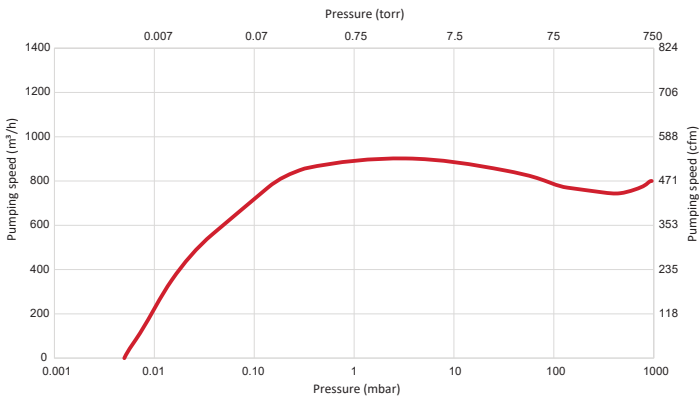
- Distillation
- Fine chemicals
- Speciality chemicals
- Petrochemicals
- Flammable and corrosive gases
- Pharmaceuticals
- Lithium-ion batteries
- Solar crystal pulling
- Dewatering and filtration



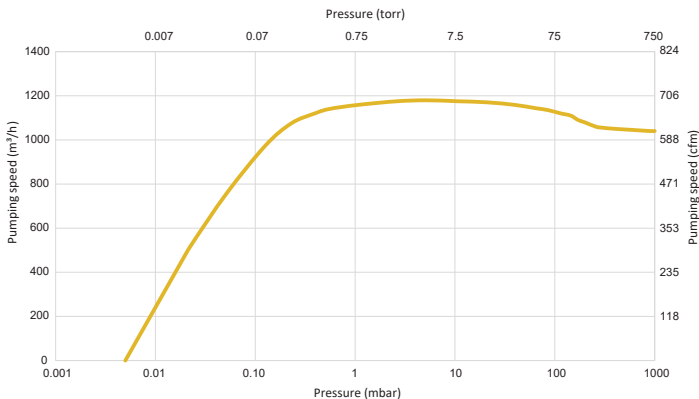


PERFORMANCE CURVES

CDX1000



CDX1300



TECHNICAL SPECIFICATIONS

	Units	CDX1000	CDX1300
Peak pumping speed	m³/hr	900	1200
	cfm	530	706
Ultimate pressure	mbar	0.05	
	torr	0.04	
Maximum back pressure	mbar	1150	1050
Motor power	kW	30	
	hp	40	
Cooling water minimum flow	l/min	10	
Cooling water supply temp. range	°C	5-35	
Cooling water supply pressure	bar	10	
Cooling water minimum flow rate at 20° C supply temp.	l/min	10	
Purge gas supply pressure	bar	2-10	
Regulated pressure to shaft seals	bar	0.3-0.5	
Noise (max. with exhaust silencer)	dB	82	
Weight (with motor)	kg	1710	1760
Pump Inlet		150 DN PN16 /6" ANSI	150 DN PN16
Pump Outlet		80 DN PN16 /3" ANSI	80 DN PN16

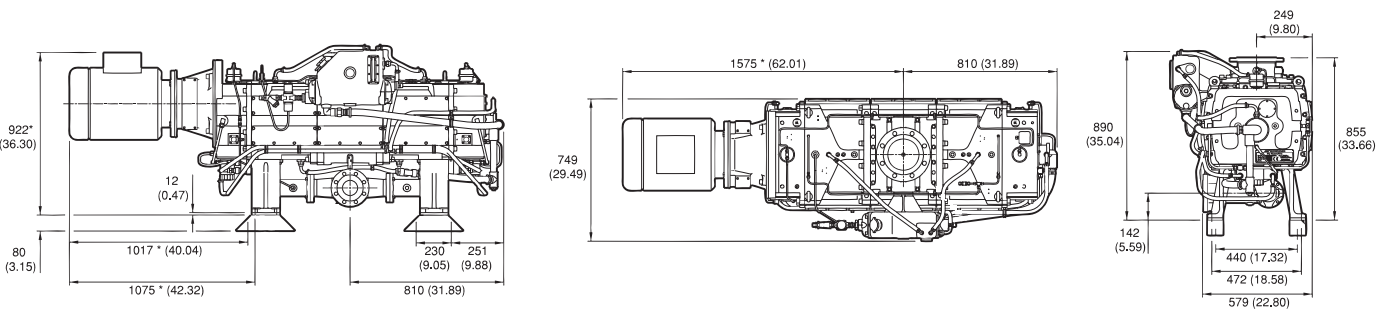
ORDERING INFORMATION

Part number	Product description	HazLoc certification
A70802985	CDX1000 Bareshaft - 50Hz Std DIN flange	Internal: Ex II 2 G Ex h IIC T3, T4 Gb External: Ex II 2 G Ex h IIC T3, T160 °C, T4 Gb
A70812985	CDX1000 Bareshaft - 60Hz Std ANSI flange	
A70905985	CDX1300 Bareshaft - 60Hz Std DIN flange	Internal: Ex II 2 G Ex h IIC T3 Gb External: Ex II 2 G Ex h IIC T3 Gb

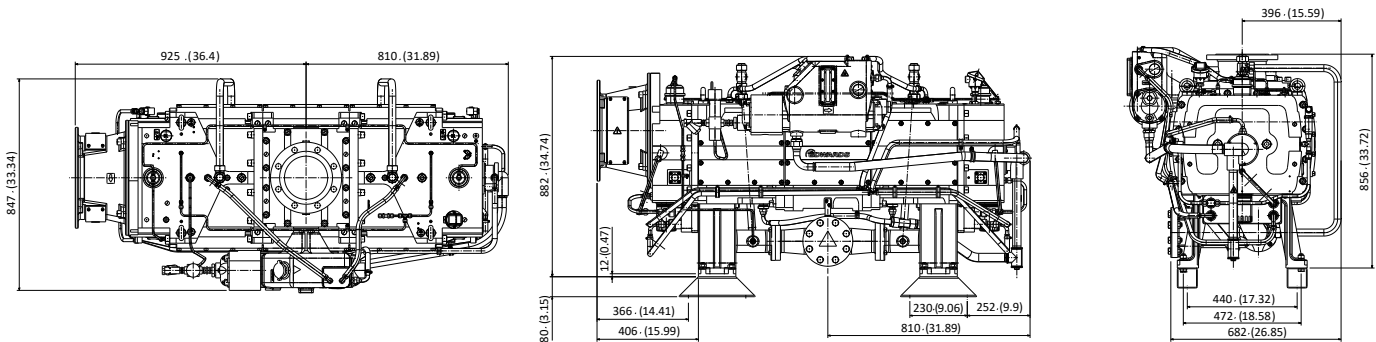
Motorised version also available on request

DIMENSIONS

CDX1000 (Motorised)



CDX1300 (Non-motorised)



SERVICE AND SUPPORT

To ensure your CDX pump maintains optimal performance and reliability, we propose a wide range of service solutions tailored to meet your needs. To save time and money, we recommend that you service your pump using the original spare kits we offer. It is quick, easy and safe. In case of difficulties, our professional and trained Field Service Engineers are always available to provide the appropriate service.

Selecting original spare parts, kits and grease, means that every critical part performs as intended and ensures you receive the best result from each and every service. Form, fit and function are guaranteed.







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