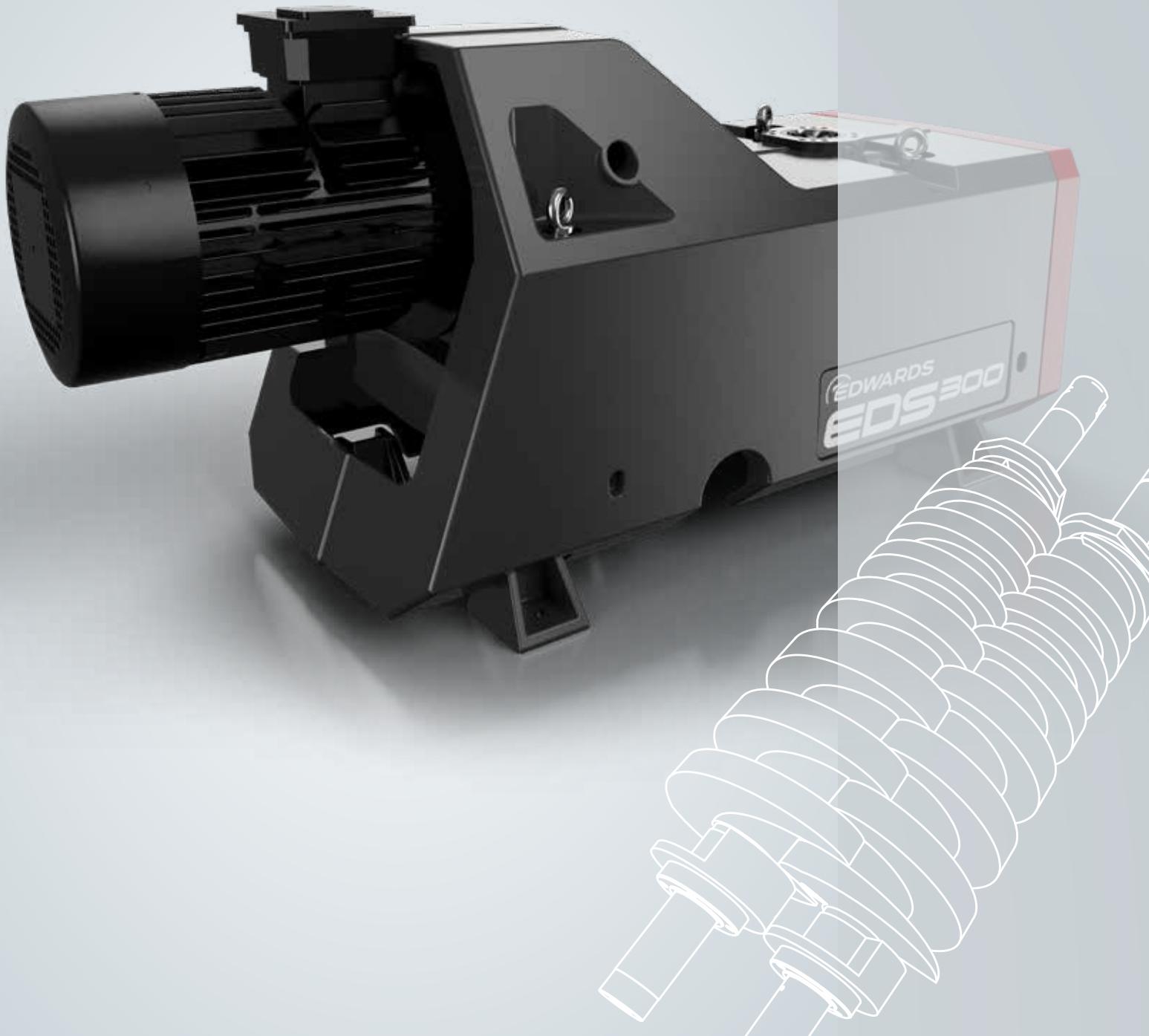


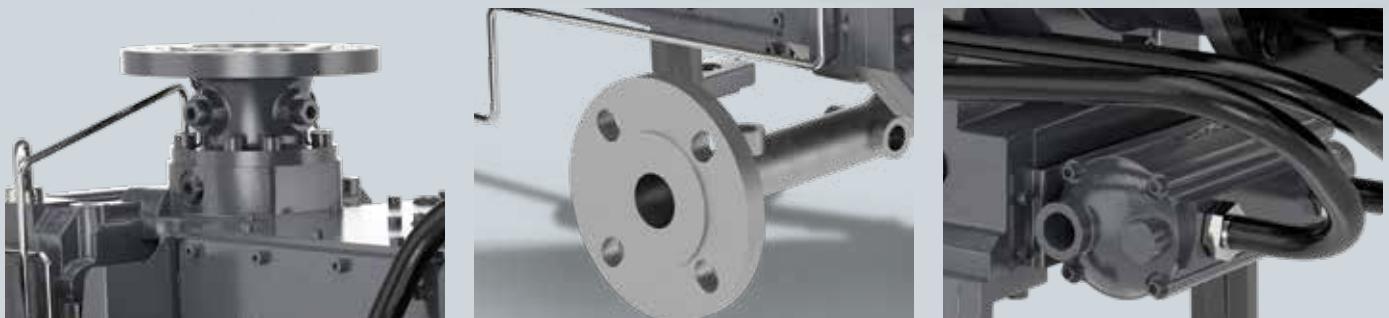
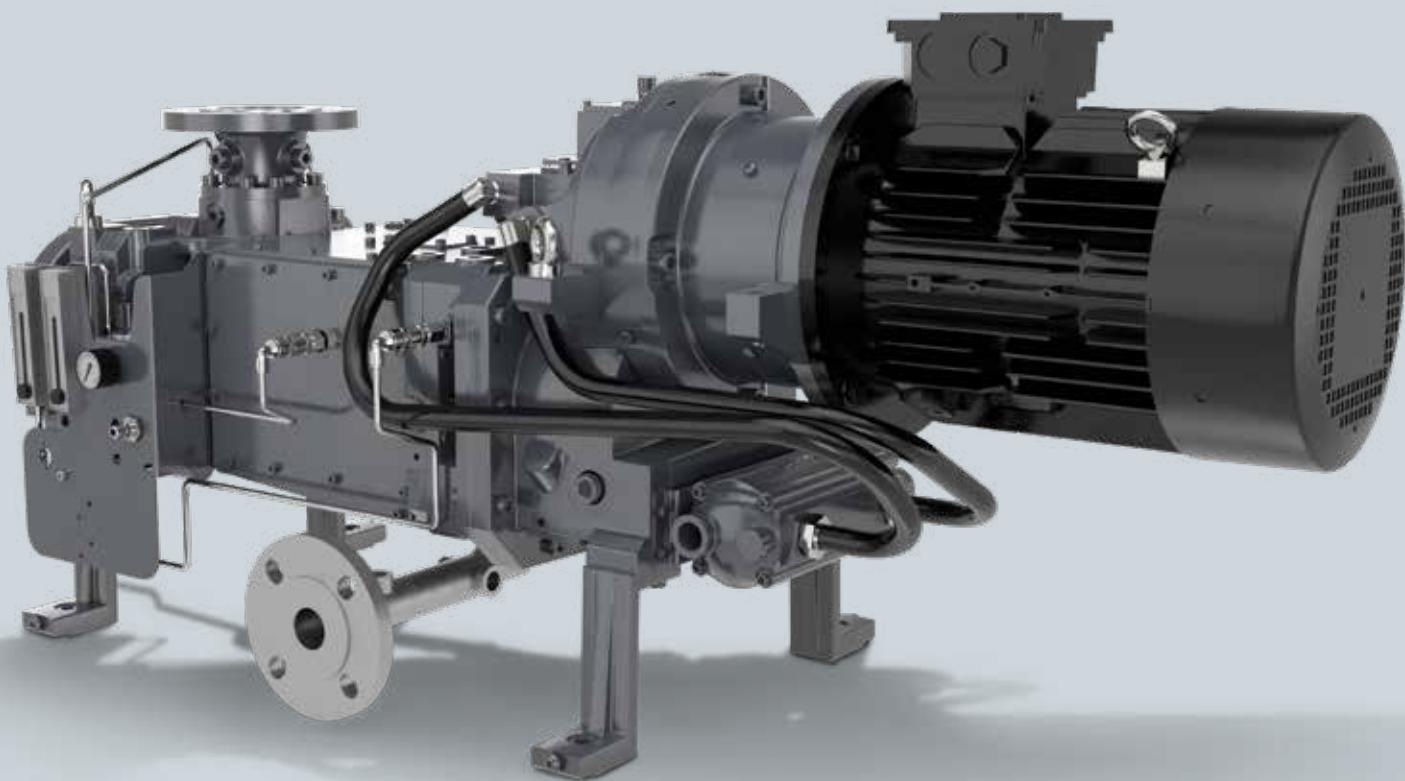
# EDS Series Dry Screw Vacuum Pumps



# EDWARDS THE PARTNER OF CHOICE

**Edwards is a world leader in the design, technology and manufacture of vacuum pumps for industrial applications with over 95 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.



# State-of-the-Art Technology Made Simple

Edwards' new range of EDS dry screw pumps features an innovative design which creates a new benchmark in the screw pump market. An intricate piece of engineering, built to the exacting standards and quality demanded by our customers, the new dry screw pump provides you with a trouble-free and cost-effective solution to meet your needs.

Water-cooled, the EDS range is robust and efficient. Its second-to-none contaminant handling capability in the harshest industrial and chemical conditions make these pumps the smart choice for your industry. Cool and simple, easy to service, high speed, the EDS vacuum pumps offers all the extra performance you need for the harshest and toughest industrial and chemical applications.



## EDS Dry Vacuum Pump Features:

- Plug and Play system
- Innovative and sturdy screw design
- Tapered variable pitch dry screws
- High speed operations
- Unparalleled uptime
- Quick pump downtimes
- Robust water cooling system
- High tolerance for particulates
- Air blast cooling variant option available
- Closed loop liquid cooling system
- Safe and flexible for chemical processing industry
- Configured for hazardous area installations
- Certified for global explosion standards

# Pump Technology

## 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 simply reliable

## FASTER

*Extra performance to meet modern day technologies*

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

## 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

## 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

## 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



Air cooled variant

# Applications

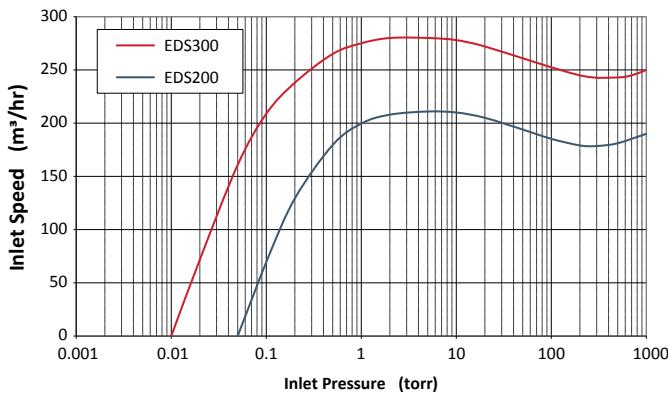
The EDS range is suitable for a range of applications in various industries including:

- Lithium Ion Batteries
- Freeze Drying
- Solar Cell Manufacturing
- Fine Chemicals
- Thin Film Deposition
- Pharmaceuticals
- Automotive Coating
- Industrial Glass Coating
- Heat Treatment
- Brazing
- Plastic Extrusion

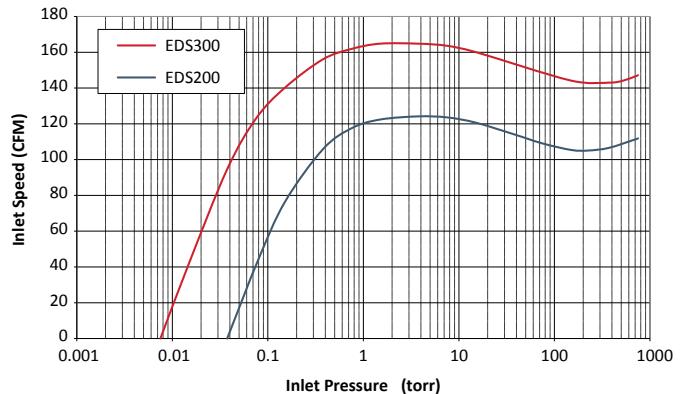


# Performance curves

## EDS 200-300 (Metric)



## EDS 200-300 (Imperial)



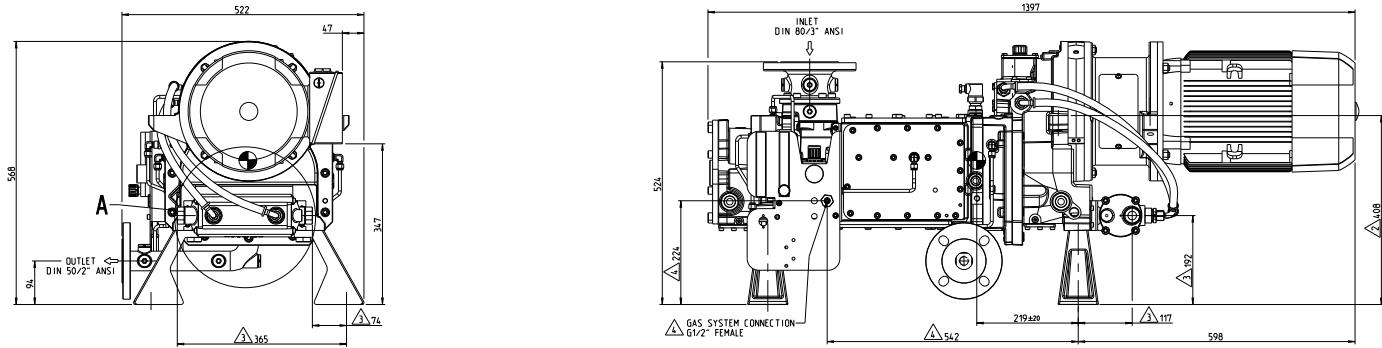
# Technical Specifications

		Metric								
		Water Cooled		Air Cooled		Chemical				
		200	300	200	300	200	300			
Performance	Peak Pumping Speed	$\text{m}^3\text{h}^{-1}$	210	>280	210	>280	210	>280		
	Ultimate Pressure	$\text{mbar}$	<0.05	<0.01	<0.05	<0.01	<0.05	<0.01		
Full Load Power	@ ultimate pressure	$\text{kW}$	4.1	4.5	4.1	4.5	4.1	4.5		
	@ peak pumping load	$\text{kW}$	6.4	8.2	6.4	8.2	6.4	8.2		
Vacuum Connections	Inlet connection		ISO63		DIN80/3"ANSI					
	Exhaust connection		NW40		DIN50/2"ANSI					
Cooling Water	Connection		G1/2" female		G1/2" female					
	Flow	$\text{lmin}^{-1}$	<8		<8					
	Supply pressure (max)	$\text{bar}$	7		7					
	DP across pump (min)	$\text{bar}$	0.5		0.5					
	Temperature	$^{\circ}\text{C}$	5-40		5-40					
Purge Gas	Connection		G1/4" female threads							
	Pressure	$\text{bar}$	2.5-6.9							
	SSP flow	$\text{lmin}^{-1}$	<12							
	Gas Ballast flow*	$\text{lmin}^{-1}$	0-50							
Operating data	Noise	$\text{dB(A)}$	<76							
	Operating Temperature	$^{\circ}\text{C}$	5-40		5-40		-20-40			
	Exhaust Back Pressure (Max)**	$\text{mbar}$	1200							
	System IP rating		IP54							
	Lubrication		Ultragrade Kinetic 150							

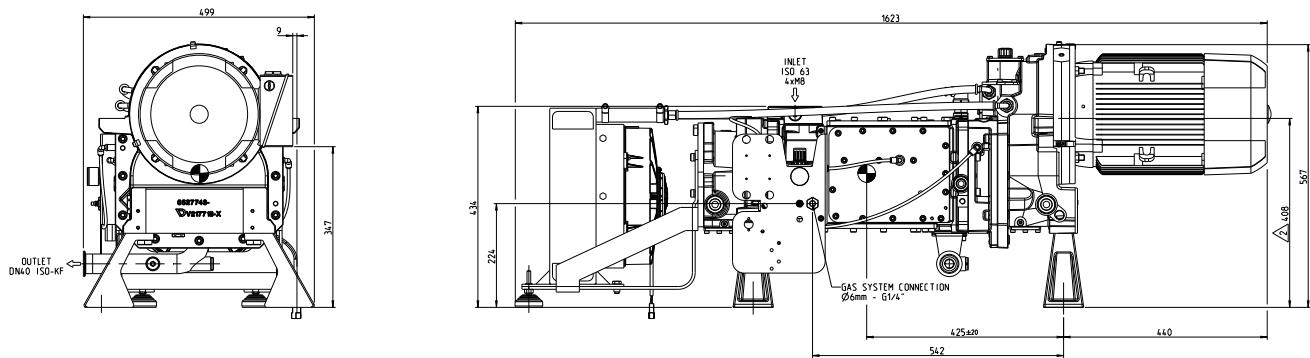
	Imperial							
	Water Cooled		Air Cooled		Chemical			
	200	300	200	300	200	300		
CFM	124	>165	124	>165	124	>165		
Torr	<0.04	<0.008	<0.04	<0.008	<0.04	<0.008		
hp	5.5	6	5.5	6	5.5	6		
hp	8.6	11	8.6	11	8.6	11		
	ISO63			DIN80/3" ANSI				
	NW40			DIN50/2" ANSI				
	G1/2" female#		G1/2" female#		G1/2" female#			
gal $\text{min}^{-1}$	<2.1		<2.1		<2.1			
psig	100		100		100			
psig	7.25		7.25		7.25			
°F	41-104		41-104		41-104			
	G1/4" female threads#			G1/4" female threads#				
psig	36-100			36-100				
l $\text{min}^{-1}$	<12			<12				
l $\text{min}^{-1}$	0-50			0-50				
dB(A)	<76			<76				
°F	41-104		41-104		-4-104			
psia	17.4			17.4				
	IP54			IP54				
	Ultragrade Kinetic 150			Ultragrade Kinetic 150				

# Dimensions

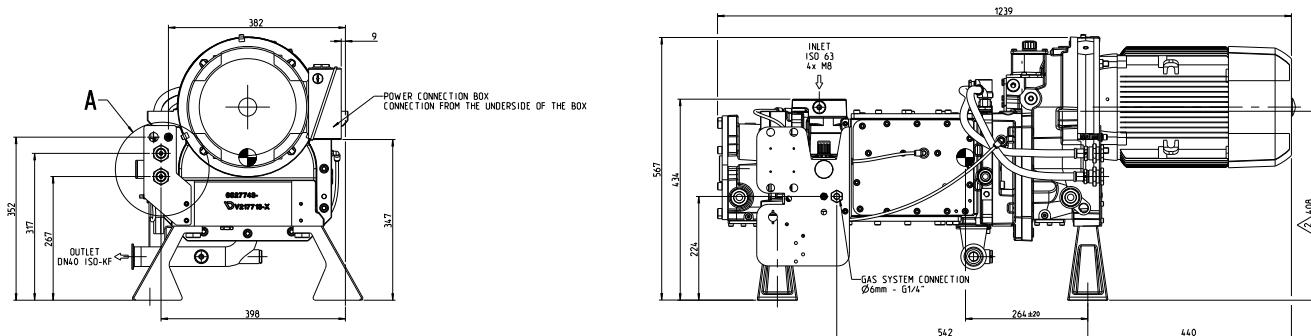
## EDS Chemical Indirect Water Cooled



## EDS Industrial Air Blast Cooled



## EDS Industrial Direct Water Cooled





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