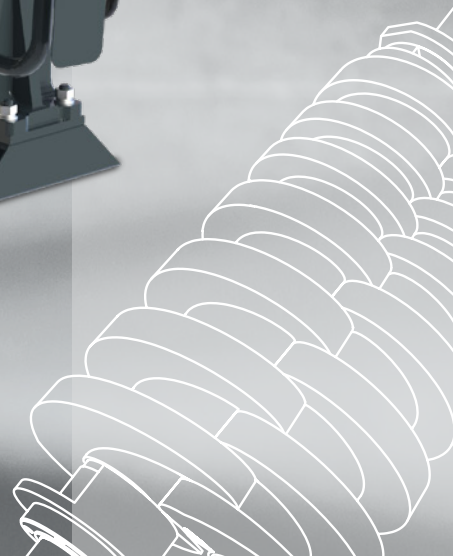
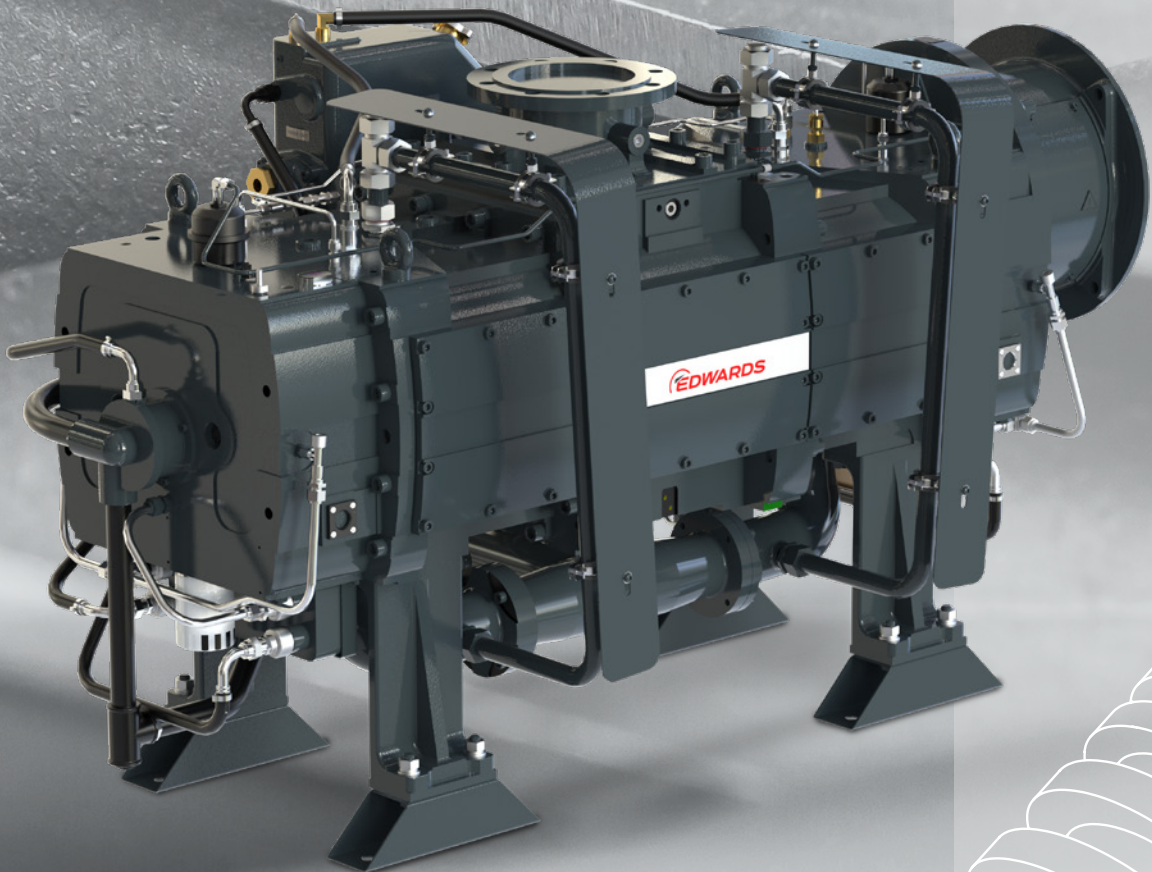


# IDX DRY SCREW VACUUM PUMPS

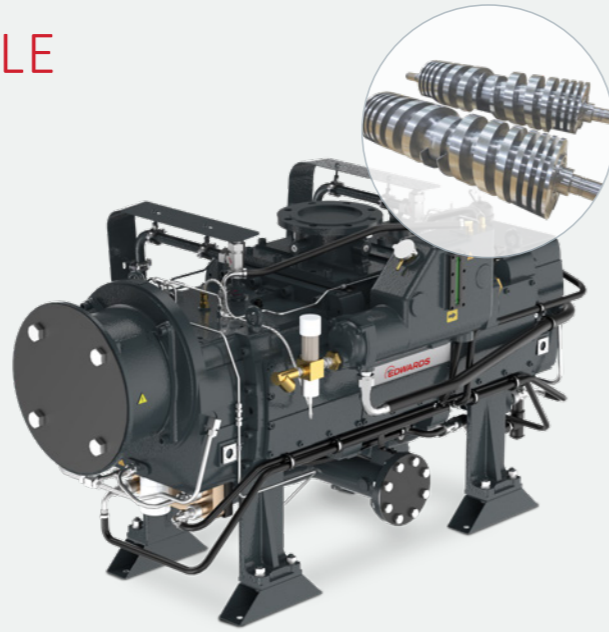


# DURABLE AND DEPENDABLE

## Edwards IDX dry screw vacuum pumps

Setting a new benchmark of dry technology, the IDX vacuum pump leverages advanced double-ended screw technology to offer unmatched reliability and performance for your industrial process. As a trusted solution for rapid pump-down of large chambers and high-capacity pumping, the IDX is all about performance and easy operation.

By ensuring faster pump-down from atmosphere and managing higher throughput at low pressure, the Edwards IDX dry pumping systems deliver several operational benefits for customers. They reduce your energy costs, eliminate effluence and offer significant improvements in product quality, making the range ideal for many degassing, coating and metallurgy processes.



## Features and benefits



### Maximum pump-down

The IDX enables you to reach target pressure quickly with a bigger throughput for higher loads at low pressure for large chamber.



### Improved performance and reliability

The IDX has a rugged industrial mechanism for reliable, consistent performance. Faster pump down from atmosphere to ultimate vacuum, while managing higher throughput at low pressures. Efficiency delivers lower operational costs too.



### Ease of maintenance

The IDX is designed for easy access so that you can conduct your own routine maintenance on site, including oil filter change, bearings and seals.



### Environmentally friendly

Designed to help you improve sustainable productivity, the IDX efficiency eliminates effluence, helping to improve your overall environmental impact.

# SYSTEMISATION

## Systemisation customised to meet your needs

The IDX comes equipped with standard accessory modules and is available in a range of standard packages to suit your precise requirements, with mechanical boosters to give capacities up to 30,000 m<sup>3</sup>/hr. You can also configure the IDX with exhausting booster stages for rapid pump down.



# ROBUST AND RELIABLE DESIGN



### Durable industrial mechanism

- Balanced rotors with an excellent profile ensure dependable performance
- Double-ended screw technology for improved thermal stability
- Simple construction with minimal enable easier maintenance
- No rotor coatings and guarantees no drop in performance over time
- Flushable with water and solvent for easy cleaning



### Enhanced oil circuit

- Filtered and pumped oil extend pump life
- Reduces wear and tear for long-lasting performance



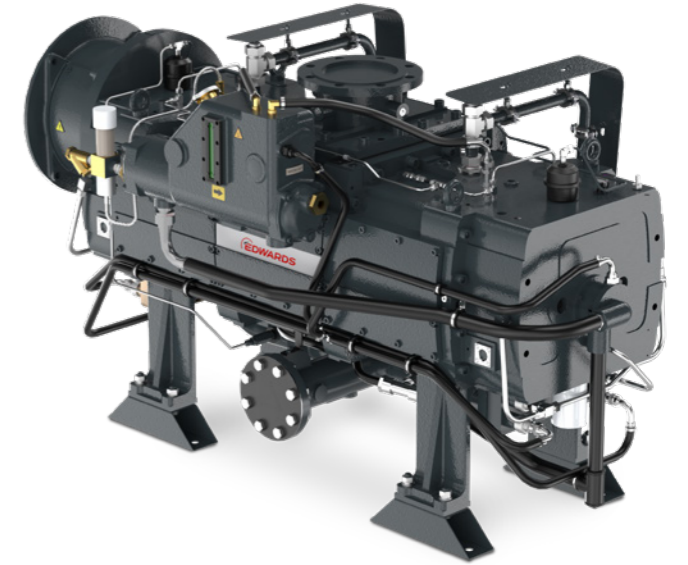
### Indirect cooling circuit

- Efficient Thermal Control enhances reliability and longevity
- Operates effectively even with lower quality cooling water
- Ensures even temperature distribution along the pump, eliminating hot and cold spots



### Patented stator machining with integral head plate

- Improved tolerance for superior pumping efficiency
- No compression plate gives better dust and liquid handling



## MARKETS APPLICATIONS

### Metallurgy

- Vacuum Induction Melting (VIM)
- Vacuum Arc Refining (VAR)
- Precision Investment Casting (PIC)
- Steel degassing
- Vacuum Degassing (VD)
- Vacuum Oxygen Degassing (VOD)
- Ruhrstahl Heraeu (RH)

### Coating

- Roll coating
- Glass coating

### Component Drying

- Transformers
- Pipelines and cables

### General Industrial

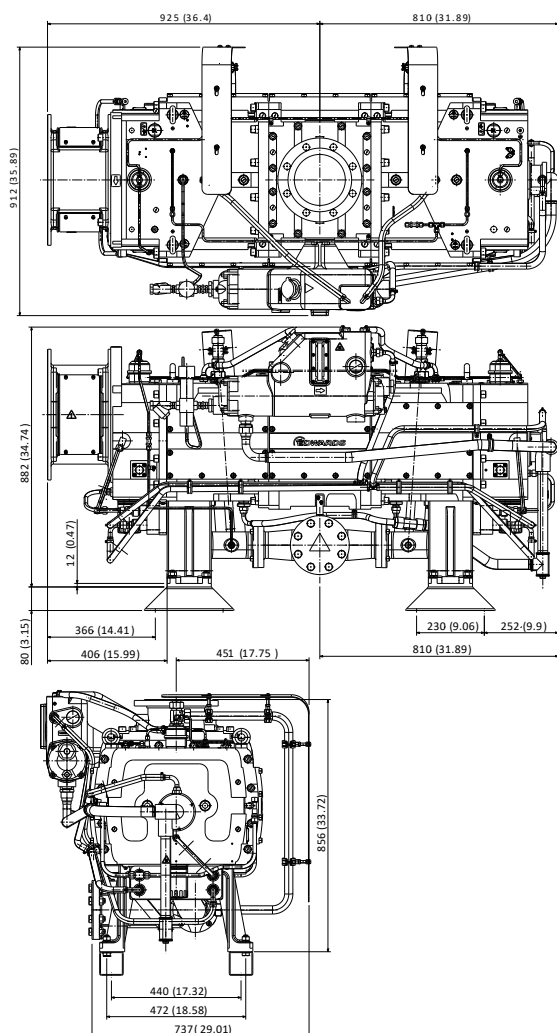
- Altitude and space chambers
- Advanced battery
- Charging



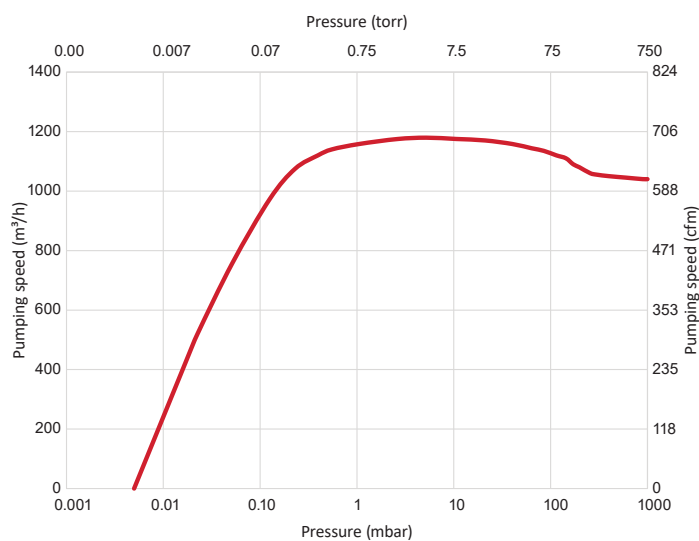
# TECHNICAL SPECIFICATIONS

	Units	IDX1300
Peak pumping speed	m <sup>3</sup> /hr (cfm)	1200 (706)
Ultimate pressure	mbar (torr)	0.05 (0.04)
Maximum back pressure	mbar (kW)	1050 (30)
Motor power	kW (hp)	30 (40)
Cooling water minimum flow	l/min	10
Cooling water supply temperature range	°C	5-35
Cooling water supply pressure	bar	10
Purge gas supply pressure	bar	2-10
Regulated pressure to shaft seals	bar	0.3-0.5
Noise (maximum with exhaust silencer)	dB	82
Weight (without motor)	kg	1650
Pump inlet		150 DN PN16 / 6" ANSI
Pump outlet		80 DN PN16 / 3" ANSI

## DIMENSION



## PERFORMANCE CURVES



## ORDERING INFORMATION

Part number	Pump description
A70904985	IDX1300-50, B/shaft, AB, 60 Hz
A70914985	IDX1300-60, B/shaft, AB, 60 Hz
A70904986	IDX1300-50, B/shaft, RC, 60 Hz
A70914986	IDX1300-60, B/shaft, RC, 60 Hz

The item numbers listed above are for bareshaft pumps without motors.  
 AB - With Air-bleed valve | RC - With Recirculation pipe  
 ATEX versions are available. Please contact Edwards for further information.

Note: Pumps are available with either an air-bleed valve or a recirculation pipe. The drawing shows the recirculation-pipe variant only.

