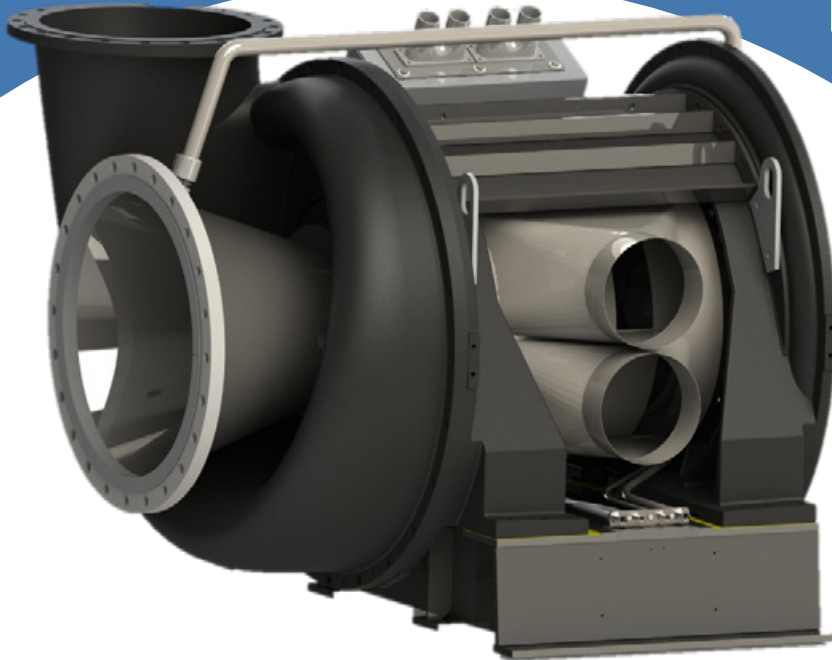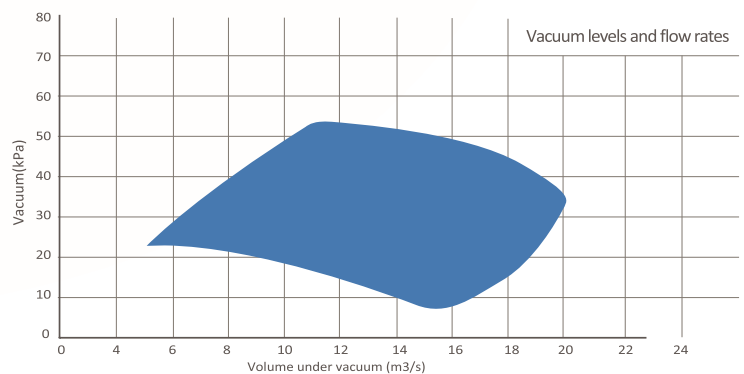# Runtech
by Gardner Denver

Ecopump Turbo
EP1000

Save electricity and water in your vacuum system

Ecopump Turbo, the first-ever variable speed and variable capacity turbo blower, saves 30–70% in energy compared with traditional vacuum systems.

Ecopump Turbo is a totally water-free solution with significant heat recovery potential. Its compact design also reduces installation costs.
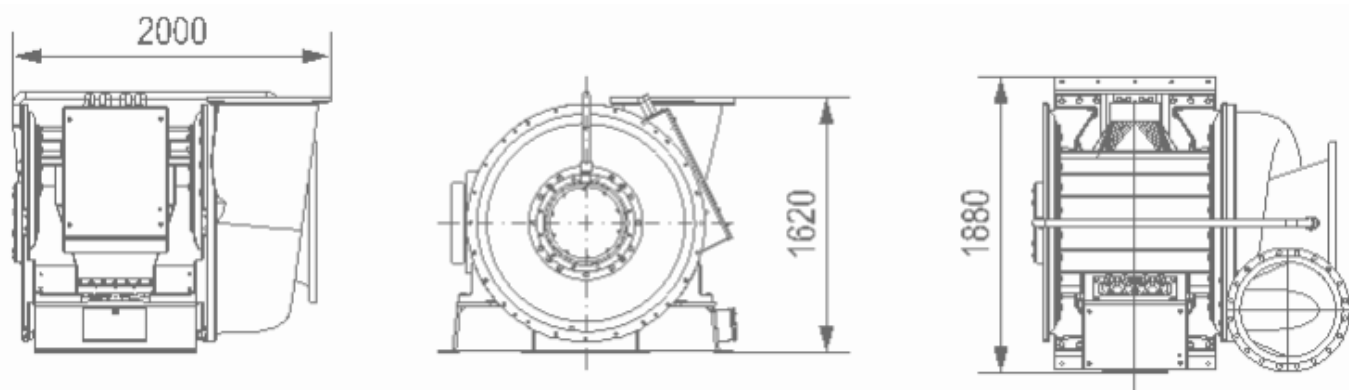

Vacuum levels and flow rates

FEATURES	ADVANTAGES
Single-stage turbo	- Variable speed and capacity turbo blower saves energy - Wide air capacity range eliminates bleed valves - Automatic speed control adapts to changes in machine speed, basis weight and felt age - Water-free system - Exhaust air temperature up to 160 °C
Compact size	- Easy to install. No gearbox. Impeller is mounted directly on the motor shaft
Integrated 1 MW high-speed drive	- Robust solid rotor design with ball bearings - Speed up to 11,500 rpm

We reserve the right to modify the information without notice

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	EP1000-55-D1
Vacuum, min/max	-20 kPa – -55 kPa (6 inHg – 16 inHg)
Air flow range	6.0 – 20.0 m³/s
Weight [kg]	5,500 kg
Static load [kN]	55,0
Dynamic load [kN]	110,0
Size [L x H x W]	2000 x 1620 x 1880 mm
Inlet / outlet size	DN 800 / 600 PN10
Power [kW]	1000 kW
Voltage [V]	690
Blower body	Coated mild steel
Peller	Titanium / composite
Bearing	Ceramic ball
Motor cooling air (EU5 filter)	1,2 m³/s at 30 °C, 3 kPa

Technical specifications

Ecopump EP1000-55-D1 Turbo is a single-stage speed-controlled blower designed for large paper machines and both greenfield and retrofit installations. The closed 3D impeller design gives top efficiency together with good controllability.

Technical drawings

The compact design makes retrofit installations easy. The EP Turbo unit includes an integrated high-speed drive, which eliminates the need for a gearbox or coupling. Units can be installed directly on top of the concrete water separator, basement or machine level.