



**ExVel® turbo fans are used across a wide range of industries, including**

- Chemical and Petrochemical

---

- Dairy

---

- Desalination

---

- Distillation

---

- Electric Utility

---

- Food and Beverage

---

- Mining and Minerals

---

- Metals

---

- Oil and Gas

---

- Pharmaceutical

---

- Pulp and Paper

---

- Renewable Fuels

---

- Starch and Sweeteners

---

- Waste Water Treatment

**ExVel® Turbo Fans**

Every ExVel® turbo fan is unique. Robust and extremely reliable, each one is a custom engineered unit designed to deliver the precise performance demanded by an individual customer. They have a proven track record in handling air, steam or process gases across a wide range of industrial applications. As vapor compressors they have proved extremely popular in modern evaporation plants, where they represent superb value. With excellent operating efficiency and turn-down capabilities, and a wide choice of materials, configurations, customised features and accessories, ExVel® is the preferred choice for flexibility and lifetime value.

**Performance range**

The performance potential of ExVel® turbo fans extends well beyond the limits of traditional centrifugal and axial fans, moving into areas normally dominated by centrifugal compressors and blowers. Their wide range of volume flow, pressure rise and discharge pressure makes them the most cost-effective choice across a large and growing variety of situations.

**Control and turn-down**

ExVel® turbo fans offer a choice of precise control mechanisms, including variable speed controllers, inlet guide vanes, gearing and other options. Different control technologies and turn-down capabilities can be combined to match the needs of each application, making them extremely adaptable and energy efficient.

**Series configuration**

Single ExVel® units can be easily combined into a series arrangement, increasing the pressure rise that can be achieved while keeping capital and operating costs surprisingly modest.

**Key advantages:**

ExVel® turbo fans combine competitive cost with an outstanding track record of long plant life and proven reliability.

Choice of materials to suit even the most challenging process gases and environments.

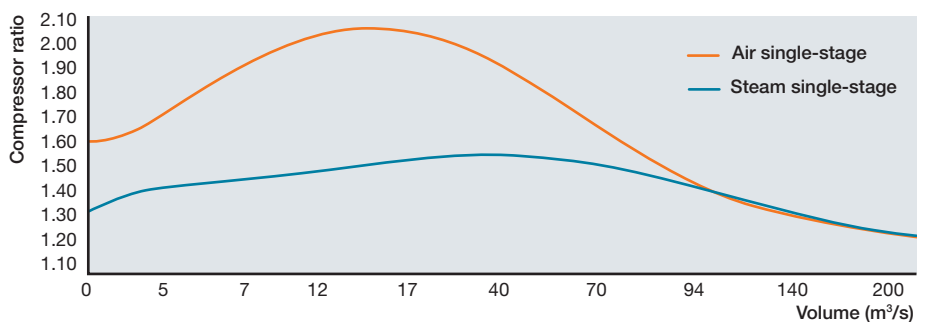
Design pressure options from full vacuum to several atmospheres.

Wide choice of turn-down and control options.

Can be produced to meet various industry standards including API, PIP, ANSI, PED and ATEX



**Exvel® turbo fans single-stage performance map**



**Every ExVel® turbo fan is a highly evolved, bespoke unit. It is tailored to meet each customer's specifications in the best way possible. Please contact us for further information:**

**Global inquiry**  
 Howden Turbo Fans  
 Email: [howdenturbofans@howden.com](mailto:howdenturbofans@howden.com)  
 Tel: + 358 (0) 10 287 4000

**Americas**  
 Howden Roots LLC  
 Email: [connersville.customercare.com](mailto:connersville.customercare.com)  
 Tel: 1-800-55-ROOTS

**China**  
 Howden Hua Engineering Co. LTD  
 Email: [sales@howden.com.cn](mailto:sales@howden.com.cn)  
 Tel: +86 10 6641 9988