

PILLER VAPOFAN® 1.0 – THE LOW FLOW MVR BLOWER

Piller Blowers & Compressors, the leader in Mechanical Vapor Recompression (MVR) presents the PILLER VapoFan® 1.0, a product of our VapoLine®.

The VapoFan® 1.0 is a complete system consisting of a vertically arranged blower with support structure, a high speed motor and a Variable Frequency Drive (VFD) with machinery monitoring instruments mounted in a standalone control cabinet. Special components and materials are perfectly matched for mass flows from 200 to 9,000 kg/h with a temperature rise of 11 K in single-stage applications.

KEY-FEATURES OF THE PILLER VAPOFAN® 1.0

Blower specifications

Performance: up to 11 K temperature rise single stage

- Casing material: Duplex
- Impeller materials:
 - Welded: Super Duplex
 - Milled: 17-4PH or Titanium grade 5 for high mass flow units
- Shaft seal (4 rings): water/vapor buffer or vacuum suction

The Drive Train

The drive train is a perfectly matched system of the synchronous high speed motor and the VFD cabinet.

– PILLER High Speed Motor

- 37 and 55 kW, motor speed up to 13,500 rpm
- 90 kW, motor speed up to 11,000 rpm
- 160 kW, motor speed up to 13,500 rpm
- Hybrid ceramic bearing L10h = 40,000 h
- Automatic regreasing

– VFD Cabinet

- HF filter, commutator, sine filter
- Power supply: 3 ph, 400–480 V, 50/60 Hz
- Control voltage: 24 VDC
- Temperature, speed and vibration monitoring
- Cabinet: (LxWxH) 1.0 x 0.66 x 2.2 m
- Weight: approx. 360 kg

Our VapoFan® 1.0 at a glance:

- Efficiency of up to 86 percent
- Designed for applications with mass flows from 200–9,000 kg/h
- Serial connection of our VapoFan®s 1.0 achieves highest temperature lifts
- New capabilities of energy and cost savings
- Radial blower design ensures reliable and smooth operation
- Fast implementation
- Minor maintenance requirements



PILLER VapoFan® 1.0

VAPOFAN® 1.0 IN SINGLE-STAGE AND DOUBLE-STAGE DESIGN

VapoFan® 1.0 single-stage design

Dimensions and weights

- Weights: approx. 400 kg–700 kg
- Height: approx. 1.60 m–2.30 m
- Width: approx. 1.50 m x 1.00 m



VapoFan® 1.0 single-stage design

VapoFan® 1.0 2-stage Design

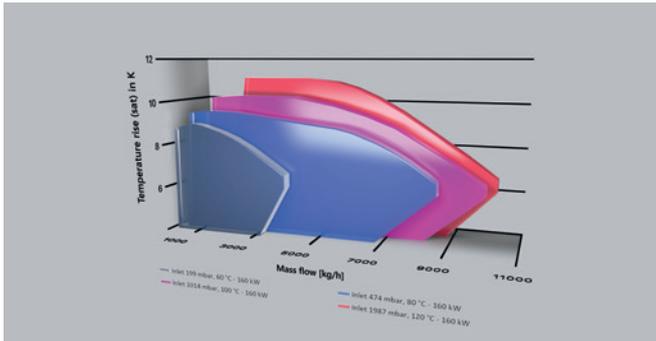
Dimensions and weights

- Weights: approx. 800 kg–1,400 kg
- Height: approx. 2.60 m
- Width: approx. 1.50 m

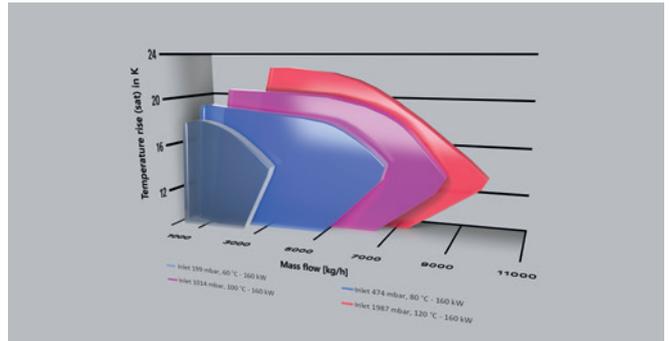


VapoFan® 1.0 double-stage design

PERFORMANCE SUMMARY OF OUR VAPOFAN® 1.0 PRODUCT RANGE



VapoFan® 1.0 single-stage design



VapoFan® 1.0 double-stage design

EXPLORE OUR BROAD SPECTRUM OF DIVERSE POSSIBILITIES



PILLER VapoFan® 1.0

Contact PILLER to find out more about customized solutions for integrating the PILLER VapoFan® 1.0 into your process.

Visit our website to find worldwide sales & service contacts

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Get more information



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