

PILLER VAPOFAN – THE LOW FLOW MVR BLOWER

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

The VapoFan 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

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: 400 V/50 Hz, 480 V/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 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 VapoFans achieves highest temperature lifts
- New capabilities of energy and cost savings
- Radial blower design ensures reliable and smooth operation
- Fast implementation
- Minor maintenance requirements

OUR NEW DEVELOPMENT FOR OUR VAPOFAN: THE PILLER VAPOSTATION

- New design, significantly compact and modular for a better maintenance possibility
- Sub-construction out of material stainless steel or painted carbon steel
- Interconnection pipes including expansion joints are in scope of supply



PILLER VapoStation

Lookout Q4/2025
**VapoFan 2.0 – Development
of the next generation**

Significantly increased operating pressure at higher design temperature including a new mechanical concept for maintenance on drive train

VAPOFAN IN SINGLE-STAGE AND DOUBLE-STAGE DESIGN

VapoFan 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 single-stage design

VapoFan 2-stage Design

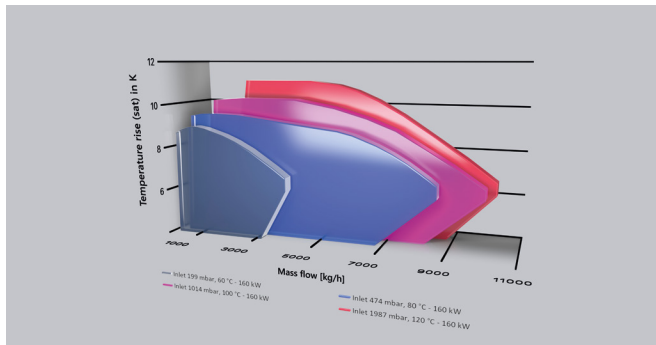
Dimensions and weights

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

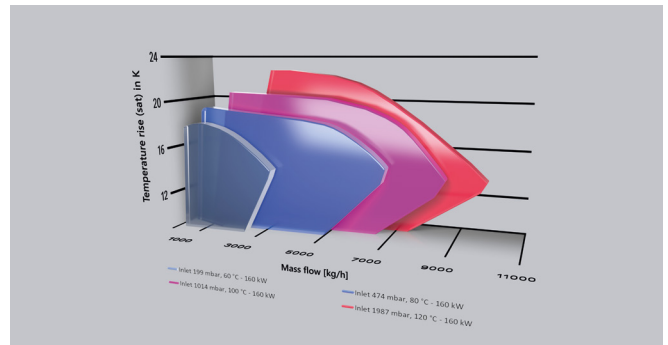


VapoFan double-stage design

PERFORMANCE SUMMARY OF OUR VAPOFAN PRODUCT RANGE



VapoFan single-stage design



VapoFan double-stage design

EXPLORE OUR BROAD SPECTRUM OF DIVERSE POSSIBILITIES



PILLER VapoStation

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

Visit our website to find worldwide sales & service contacts

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Get more information

