

PILLER VAPOFAN – THE LOW FLOW MVR BLOWER

PILLER, the leader in Mechanical Vapor Recompression (MVR) Blowers and Compressors, has an improved solution for low flow MVR applications. For over 30 years PILLER has offered low flow high speed MVR Blowers and now – through our continuous improvement program – we are offering our VapoFan line. This series of MVR Blowers offers advanced performance with improved reliability in a modular equipment offering. The VapoFan line 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. Blower and motor are perfectly matched for mass flows from 200 to 9,000 kg/h.

KEY-FEATURES OF THE VAPOFAN

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

The Blower

- 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

- 160 kW, motor speed up to 13,500 rpm
- 90 kW, motor speed up to 11,000 rpm
- 37 and 55 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

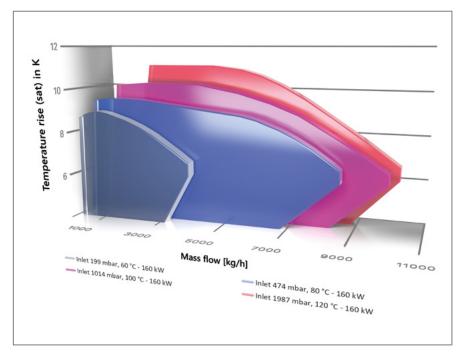


PILLER VapoFan single stage



VFD Cabinet for PILLER High Speed Motors

VapoFan Type	Volume Flow [m³/h]
28 125	1,800-2,880
28 160	2,880-4,680
32 140	2,160-3,960
32 180	3,600-6,480
36 160	3,240-5,400
36 200	4,680-8,280
40 180	3,960-6,840
40 225	6,480-10,800
45 200	5,040-8,640
45 250	7,560-12,600
56 250	7,920-12,960
56 315	12,240-18,000



Single stage design – Performance summary of VapoFan product range

VAPOFAN 2-STAGE DESIGN

Additionally, we offer engineered standard 2-stage design – for temperature rise up to 22 K.

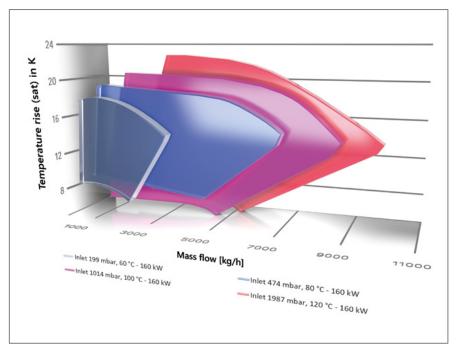
Dimensions and weights

– Weights: approx. 800 kg – 1,400 kg

Height: approx. 2.60 mWidth: approx. 1.50 m



VapoFan 2-stage design



2-stage design – Performance summary of VapoFan product range

Visit our website to find worldwide sales & service contacts

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