BLOWERS & COMPRESSORS FOR MECHANICAL VAPOR RECOMPRESSION: THE PILLER VAPOLINE

THE EXPERT AT YOUR SIDE
The PILLER VapoLine product portfolio is specifically developed and designed for Mechanical Vapor Recompression (MVR) applications. With MVR, we focus on providing energy recovery by compressing low temperature vapor to a higher pressure and temperature, so it can be re-used as a heating source.

THE PILLER VAPOLINE
We are specialized in customized solutions with our key product VapoFlex. Our range of performance has grown considerably with the VapoFan covering lower mass flows and the VapoMaxX, extending our single-stage performance capability using compressor technology.

VapoFan: For low mass flows
With the VapoFan, PILLER stands apart from the competition with a modular, compact unit for MVR applications in the range of 200 to 9,000 kg/h with a temperature rise of 11 K. Where positive displacement compressors have often been used, the VapoFan is an excellent alternative, with better longterm durability, higher efficiency, and larger operating range.

VapoFlex: Engineered-to-Order
Excellent performance, maximum efficiency, and dependability measured in decades are the hallmarks of our VapoFlex.

With broad capabilities we provide a wide variety of options. No two VapoFlex are alike. Our Engineered-to-Order (ETO) approach results in completely new designed, unique solutions. We design impellers, housings, components, and bearings to accommodate the desired mass flows of up to 250,000 kg/h with a temperature rise of 11 K.

VapoMaxX: Smart compressor technology
Our newest product in the category of steam and vapor compressors lives up to „Made by PILLER“ reputation and stands for durability and quality, but it also offers a new range of performance that competes with turbo compressors. Pressures of up to 20 bar (g) and tip speeds of 440 m/s open new areas of application, resulting in temperature rises around 20 K per stage.

With the VapoMaxX we are merging the advantages of PILLER High-Performance Blowers with advanced compressor technology.
SERIAL CONNECTION OF BLOWERS AND COMPRESSORS
All VapoLine products generate outstanding single-stage performance, but also can be combined to powerful serial connection systems achieving higher temperature lifts, especially in vapor compression heat pump systems for waste heat recovery.

PILLER VapoLine at a glance
– Wide range of technical solutions and applications
– Customized to your process requirements
– Efficiency up to 87 %
– Compact and modular design
– Flexible and cost-effective integration into existing plants
– Long lifetime with low maintenance costs
– Serial connection of blowers and compressors achieves highest temperature lifts

WE HANDLE THE CHALLENGES OF YOUR PROCESS
Today, PILLER is the technology and market leader in the field of steam compression, using blowers and compressors. We develop the perfect solution for your process requirements to ensure that our blowers and compressor meet your specific needs. To find the perfect match for your process conditions, we will always engage you with full service from engineering over project management to design and manufacturing.

PROVEN TECHNICAL EXPERTISE
Our technical know-how comes from decades of experience. From machine to service, and realtime monitoring, you can turn to PILLER for comprehensive support and longterm performance.

All developments are tested in our own MVR plant. It is used for quality assurance, endurance tests, and working product demonstrations.

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