

BS Vertriebsbüro GmbH

Silo-Anlagenbau - "Your specialist in silo components"

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[Home](#)

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[Allgemeine Geschäftsbedingungen](#)

Compressors

Blower Units

Ventilators

Vacuum Pumps

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■ [Ventilators](#)

■ [Vacuum Pumps](#)

Compressors



Application fields and use:

The units are specifically designed to match practical requirements in the field. They are the ideal solution for the dry, oil-free and clean compression of air and neutral gases as requires e.g. in the following application fields:

- **pneumatic conveying with air or nitrogen**
- **aeration of sewage basins**
- **homogenising of cement**
- **vacuum production in the glass industry**
- **prevention of ice build-up in harbours and lakes**
- **oil booms**
- **gas-air mixing plants**
- **oxidation air for power stations**
- **stationary unloading of silo vehicles**
- **vacuum production in the paper industry**
- **conveying and compressing of neutral gases**
- **blast air for production of spunbonded web**

The compressors are manufactured as air-cooled units for intake volumes from 200 bis 15.000m³/h hergestellt. Discharge pressures of up to $p_2 = 3.0$ bar and 4.5 bar (abs.) dry, oil-free compression, temperature limit t_2 maximum 250° C.

Vacuum operation is possible with the standard VML-compressors to a maximum of 70 % (0.3 bar abs.) and as a modified unit to 85 % (0.15 bar abs.).

RANGES OF PRESSURE

In overpressure two discharge pressure ranges are available.

VML up to 3.0 bar (a) - VM up to 4.5 bar (a)

in vacuum pressure:

VML up to 0.3 bar (a) - up to 0.15 bar (a) with pre-inlet

SIMPLE OPERATION

All operation and maintenance elements are accessible from one side, this includes instrument panel, oil filter, oil level sight glasses, air- and oil filters and therefore enable a simple operation and maintenance.

LARGE OR SMALL PERFORMANCES

With all the units of the series, rotor profile, internal compression ratio and accessories can be optimized to meet individual requirements.

TECHNOLOGY

The units are delivered complete with internal installation, piping and wiring, and are ready for connection to the customer's system. By using a frequency converter the volume can be regulated over a large range with a ratio of approximately 1:4. Relatively small rotor diameters and low risk of internal contamination preclude any additional imbalances that could increase vibration. Even under difficult operating conditions the calculated bearing lifetime is more than 40.000 hours.

ADAPTABILITY

Depending on customer requirements the scope of supply can include for example:

- driving motor
- control- and power cabinet
- acoustic hood
- start-up unloading device
- full load / idle running system

DRIVING SHAFT

sealed by peak seals, working maintenance-free in combination with a well-aimed oil-chamber release..

CHASSIS

The base frame for the compressor stages with belt drive has several functions. It is base support for the compressor stage, suction-silencer and oil reservoir in one. That reduces costly installation surface.

WITH BELT DRIVE

The belt drive of the units is designed so that v-belt tension is constant in all operating conditions. The weight of the motor mounted on a hinged support ensures that the tension of the v-belts is always as it should be.

ENERGY CONSUMPTION

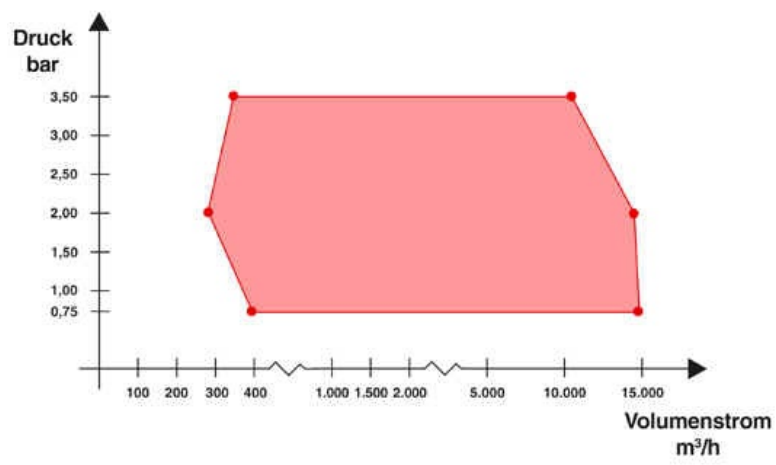
Depending on the maximum discharge pressure 3 + 4 or 4 + 6 screw profiles are used. This results in an optimum use of energy despite other influences such as tolerances, pressure losses at accessories and deflections of the volume flow.

EFFICIENCY

During the whole operation period of the compressor the efficiency remains virtually constant so that no reduction of the conveying capacity will occur.

SCOPE OF SUPPLY AND PERFORMANCES

Belt drive <ul style="list-style-type: none">• Screw compressor stage with reinforced bearing of the driving shaft (female rotor) suitable for belt-drive. Forced-feed lubrication including oil pump, oil filter, oil return flow valve, turbo filter for oil chamber release.• Base support as suction silencer with hinged motor plate (three phase current motor)• Intake filter (single-stage integrated in the base frame• Belt drive with guard	Gearbox <ul style="list-style-type: none">• Screw compressor stage with integrated step-up gearbox, forced-feed lubrication including oil pump, oil filter, oil return flow valve, air/oil cooler, turbo filter for oil chamber release• Base support for compressor stage and driving motor (three-phase current motor)• Intake filter (double-stage) with intake manifold• Flexible coupling with guard	Items also belonging to the basic unit: <ul style="list-style-type: none">• Discharge silencer• Safety relief valve (type-tested)• Non-return valve• Expansion joint with tie-rod, discharge side• Flexible machinery mountings with anchor bolts• Instrument panel for protection of the machine with indication and monitoring<ul style="list-style-type: none">* for VML for suction- and oil-pressure* for VM for suction-, discharge- and oil temperature, single- fault indication and operating hour meter <p>Extended scope of instrumentation same as for VM possible even for VML against extra price.</p>
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[→ back to product survey](#)

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