



Unica 4-270

MEDIUM PRESSURE DOUBLE DIAPHRAGM PUMP



- Superior performance
- Highest reliability
- Innovative solution

Unica 4-270 an effective alternative to piston pumps

WAGNER Unica 4-270

The WAGNER Unica 4-270, with a 4.5:1 pressure ratio and a maximum working pressure of 27 bar, is setting new standards in the global market for double diaphragm pumps.

Diaphragm technology is an effective alternative to piston pumps when applying or circulating abrasive products or reactive materials (i.e. UV, acrylics), and is ideal for materials sensitive to shearing or moisture.

In fact, Unica generates no friction and the pump is completely sealed so that the fluid never comes into contact with the external atmosphere.



Exclusive technology

The Unica has been designed for performance and reliability. Its exceptional power allows UNICA to reach and maintain the highest working pressure level in its segment.

Furthermore, WAGNER engineers developed an exclusive and patented hydraulic circuit that ensures minimum deformation of and stress on the diaphragms. This technology, combined with the special diaphragm concept, ensures an extremely long diaphragm life, even when working under severe conditions.

CONVINCING BENEFITS

SUPERIOR POWER

50% higher working pressure than other pneumatic double diaphragm pumps available on the market.

HIGHER PERFORMANCE

Reduced pressure drops along the stroke enable the pump to obtain a more stable material flow and a higher useful working pressure.

HIGH RELIABILITY

A special air-motor design, no friction inside the pump, and long-life diaphragms keep maintenance costs low and minimize plant downtime risks.

EXCELLENT FINISHING

Low pulsation output allows high quality finishing and a constant spray pattern.

STURDY CONSTRUCTION

The technical solution and mechanical components were specifically developed to satisfy the highest quality standards.

LOW SHEAR EFFECT

The pumping mechanism with minimal material degradation makes Unica ideal for feeding circulating paint lines.

WAGNER Unica pump is in compliance with ATEX regulations and the CE standard.



Reduced pressure drop for higher performance



Double diaphragm pump

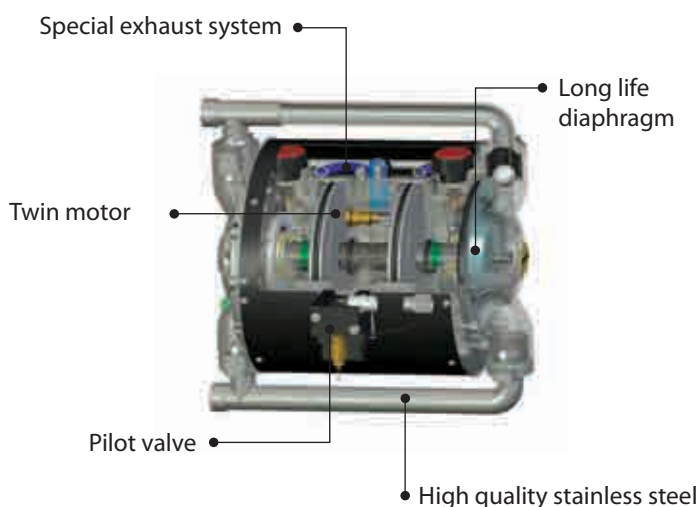
Unica 4-270

- 27 bar max. pressure
- Reduced pressure drop
- Highest reliability

Technical data	Unica 4-270
Length	412 mm / 16.2 inch
Height	417 mm / 16.4 inch
Weight (bare pump)	45 kg / 99.2 lb
Pressure ratio	4,5:1
Max. working pressure	27 bar / 2.7 MPa / 392 psi
Max. air inlet pressure	6 bar / 0.6 MPa / 87 psi
Volumetric flow per double stroke	270 cm ³ / 16.5 cin
Max. flow rate	120 l/min / 31.7 gpm
Max. recommended flow rate for continuous operation	8.2 l/min / 2.2 gpm (30 DS/min)
Fluid outlet-inlet port	G 3/4"
Air motor inlet	G 1/2"
Wetted parts	Stainless steel, PTFE

Patented solution

Hydraulic circuit: the movement of the diaphragms generates a depression that prevents diaphragm reversal during the suction phase.



Application areas

- Main paint circulation systems
- Boothside/satellite paint circulation systems
- Medium to low viscosity adhesive supply
- Pumping of shear-sensitive paints
- Supply of paint and hardener for 2K proportioning system

Processable materials

- Water-borne and solvent-borne paints
- Friction-sensitive materials
- Moisture-sensitive materials
- Shear-sensitive water-borne coatings
- UV-cure materials
- Acrylics, glues, abrasives

Expertise in diaphragms

Besides Unica, WAGNER produces a wide range of air-operated diaphragm pumps (Zip line). The WAGNER diaphragm pumps are suitable for low pressure applications and characterized by a high delivery rate and maximum reliability.



Double diaphragm pump

COBRA® 40-10

WAGNER Cobra 40-10 is an exclusive high pressure double diaphragm pump suitable for Airless and AirCoat applications up to 250 bar. It works with almost no pulsation and minimum shear, making it suitable for sensitive and reactive paints like UV, acrylics, etc. Thanks to the reduced internal volumes, Cobra 40-10 is ideally suited for working with small quantities and frequent color changes.

Feeding pumps for experts

WAGNER offers a broad selection of low pressure piston pumps for fluid transfer. WAGNER IceBreaker technology delivers constant power with minimal icing.

Easily serviceability of the fluid section keeps downtime and cleaning requirements low. Even water-based material can be processed due to the stainless steel design.



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Further information and all kinds of accessories like air caps, nozzles and hoses can be found in the WAGNER WAGNER liquid applications catalog.