

Roots blowers for pressure or vacuum operation

WPA

SHARK

Application

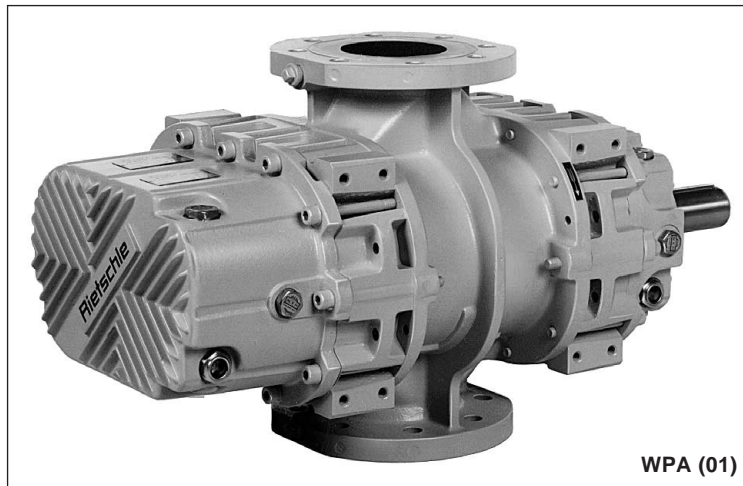
SHARK - the new Roots Blower with three lobed rotors that has been designed for use with pressure applications up to 14.5 psig or for vacuum operations to a maximum 15.2 in. Hg (gauge). The SHARK range covers capacities from 590 - 2360 cfm in 4 sizes.

The following versions are available:

- SHARK WPA (01):
Base unit with bare shaft, no motor.
- SHARK WPA (30/40):
Compact unit mounted on a base plate.
- SHARK WPA (60/70):
Complete as (30/40) with an acoustical enclosure.

The most important applications are:

- Environmental applications (e.g. water treatment, filter back flushing, transporting gases, liquid aeration)
- General applications (e.g. food processing)



WPA (01)

- Pneumatic conveying (e.g. bulk materials).

Base unit: → WPA (01)

(unit with bare shaft)
SHARK blowers operate with minimum pulsation and have two, 3 lobed symmetrical rotors that work on a counter rotating basis. They are made from GGG-40. The two rotors are synchronized by gears which have spiral teeth and are also hardened and polished.

The housing is free of any sealing or lubricating materials. The gears and bearings of the rotors are oil lubricated. The gears and bearings are located in two side chambers of the unit which also contain the oil. These chambers are separated from the housing by a piston-ring seal. In both chambers an oil metering system lubricates the gears and bearings with oil.

The housing is made from GG-25. Deep fins provide stability and an efficient cooling surface. The tangential outlet channels are rounded and reduce the pulsation factor. Sealing of the drive shaft is achieved by a radial seal on a hardened shaft protecting sleeve.

Compact unit: → WPA (30/40)

The compact unit is composed of the following elements:

- Base unit
- Absorption inlet silencers with combined inlet filters
- Resonance exhaust silencer
- Base plate
- Belt protection
- Feet
- Connecting compensator
- Safety valve
- Non-return valve
- Motor with belt drive (size depending on the operating point)



WPA (30)

WPA 1000

WPA 1600

WPA 2500

WPA 4000

PA 850

3.5.97

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Quiet compact unit with acoustical enclosure: → WPA (60/70)

Sound silenced compact unit with:

- Vacuum or pressure gauge
- Filter servicing indicator

The sound proof box reduces the noise level by approx. 20 dB

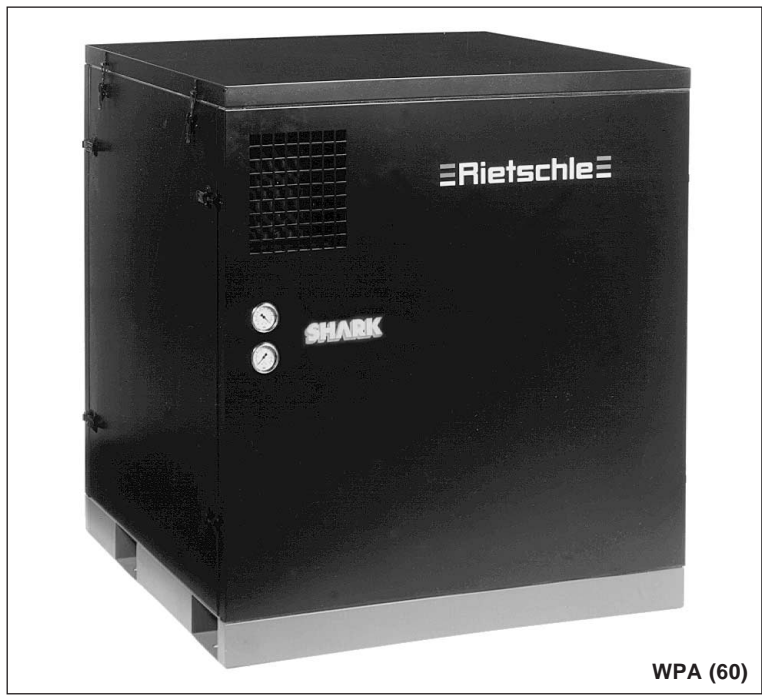
The box also protects the unit from dust and weather.

SHARK blowers feature:

- low noise level and low pulsation
- high efficiency due to optimal speed
- compact and stable design
- easy to service

Please do not hesitate to contact us for more detailed information!

* related to suction conditions at inlet connection.



WPA (60)

