

Ziclón® 04

The extremes of gas delivery with magnetically coupled gas circulation-pumps



Gas circulators – exactly matching your needs

Ziclón Z04 gas circulators are special, oil-free rotary vane pumps designed for the most demanding pumping processes for pumping gases and gas mixtures in process development, plant construction and process technology.

Depending on their application they are designed for simple gas circulation up to the most demanding chemical and process applications

Ziclón gas circulators are characterized by a chemical-resistant material selection in **stainless steel, Hastelloy, ceramic, tungsten carbide** (cemented carbide) and **wear-resistant rotary vane plates**.

They can be used for almost any **aggressive, hot or contaminated gases** and gas mixtures as well as for gas circulation under high system pressure.

In **hermetically sealed construction** by magnetically coupled drive technology (He-tightness) the pump make sure hermetic applications even under high system pressure.

Z04 - gas circulators can be designed for system **pressures up to 400 bar (5800 psi)** and for hot gases with **temperatures up to 300 °C (570.2 °F)**.

They **are suitable for vacuum** of 200 mbar abs and generate **differential pressures up to 1.6 bar** (up to 3 bar in TH version)

With **heatable and coolable pump heads** Ziclón 04 pumps can be adapted to high temperature processing conditions or used to avoid risk of condensation.

Z04 - gas circulators are available for **smallest flow rates on a laboratory scale** or as bypass pump for the supply of gas analysis systems.

Versatile pump designs in small industrial scale of 1 m³ / h up to **industrial versions of 60 m³ / h** cover a wide range of applications.

All sizes are available for applications in explosion-proof areas with **atex-compliant design**.

Inverter in IP 55-design for a **process-dependent speed control** can be given provided.

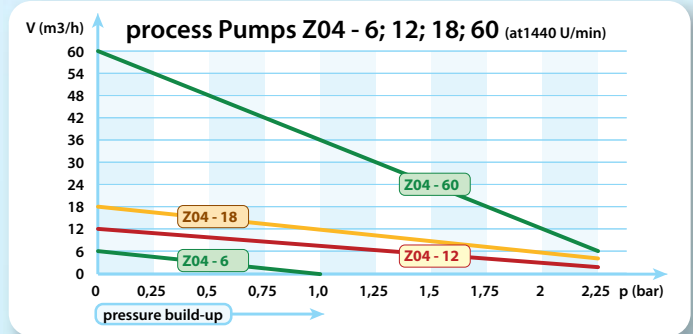
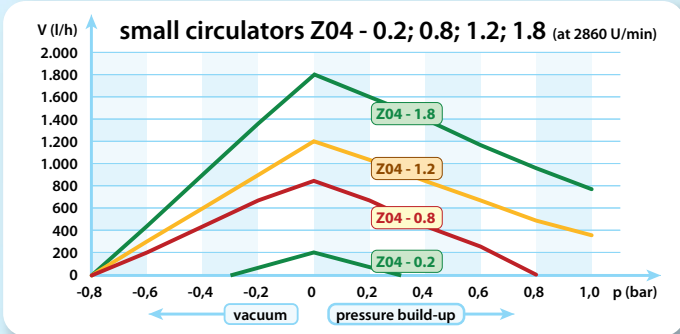
- magnetically coupled peripheral pumps
- self-priming peripheral pumps
- PTFE-lined feed pumps
- Small feed pumps in high pressure design
- Inline feed Pumps
- Chemical standard pumps in PTFE
- Liquid-gas mixture pumps
- Multiphase pumps
- dispersing pumps
- Peripheral mixer
- Peripheral reactor
- Reaction mixing pumps
- Gas circulation pumps
- Peristaltic Pumps



Ziclón® 04
gas circulators from
10l/h – 60 m³/h



Characteristics:



All data shown in the characteristic curves are based on carefully calculated series of measurements. The pressure build-up was determined by the open system and with the pressure-side throttling. The measured values are used to select a suitable pump and are not guaranteed performance. The suitability of each pump lies in the responsibility of the user.

Material parameters:

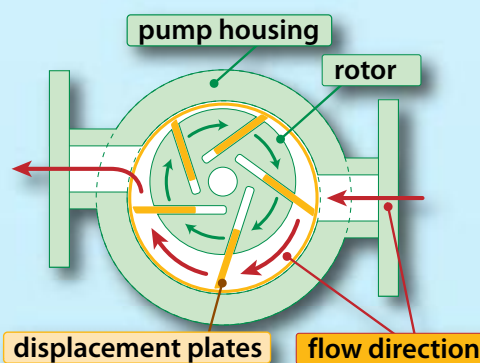
Pump head	Stainless steel 1.2316, Hastelloy 2.4610, WoC-Inliner
Runners / rotor	Stainless steel 1.2316, Hastelloy 2.4610
Displacement plates	Elektro graphite, impregnate. SiC WoC, PEEK,
Pump shaft	stainless steel 1.2316, Hastelloy 2.4610
Ball bearing	Stainless steel, ceramics
Seals	FKM (Viton), FFKM (Kalrez) Sigralflex (metal)
* Special materials on request	

motor parameters:

Supply voltage (W)	230 / 400V
Power (kW)	0.12 to 4
Protection class	IP 54
Ex version	on request
weight (kg)	8 up to 70

Accessories:

1. Filter from 10 microns
2. High-pressure hoses with PTFE core
3. Shut-off valves
4. Flow meter
5. Inverter



Gas connections:

- ① Cutting ring fittings
 - ② Flange connections according to DIN 2501/1
 - ③ High Pressure Fittings
- * Special connections on request

