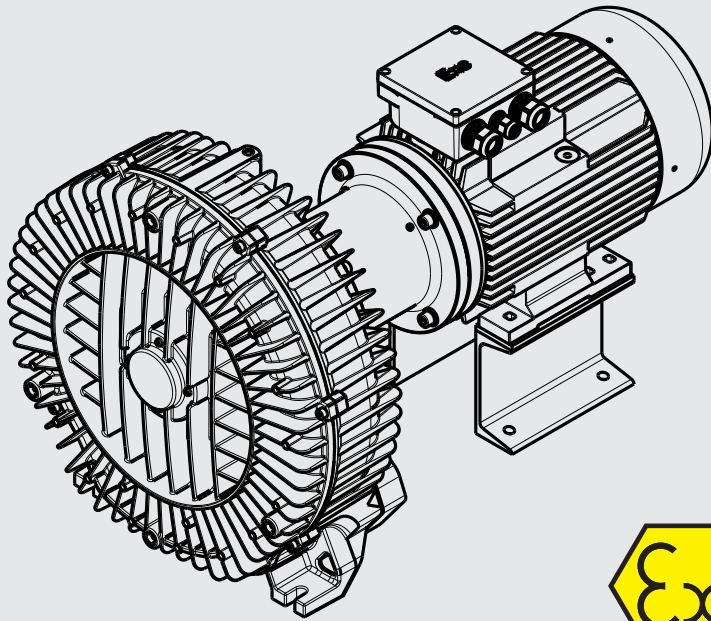


SIDE CHANNEL GAS BOOSTER



Aluminium resistant casing and impeller with HC coating specially designed to handle combustible and corrosive gas including:

- Biogas
- Landfill gas
- Syngas
- Natural gas

Especially developed for the conveying and compression of biogas, Vacuvane side channel blowers are dynamic blowers with compact design that transfer kinetic energy to the medium agent by contactless rotating aluminum impeller with Hart Coat (HC) coating. The gas is drawn at inlet and energy transfer is taking place repeatedly. Rotating impeller imparts velocity to inlet gas in direction of impeller. Centrifugal force at impeller blades accelerates gas outward to increase pressure.

This special Unit for BIOGAS application maintains all the innovative characteristics of the Side Channel:

- Silence operation
- Compactness and space saving
- Easy maintenance

Technical Features: ATEX

ATEX compliant blowers for categories 3D and 3G, temperature class T3 in spark proof aluminum alloy

ATEX motors according IEC for categories 2D and 2G or acc. NEMA available in:

- non sparking EEx nA
- explosion proof EEx de

Special shaft seal double acting for technically gas tight operation

Corrosion resistant through various optional coatings – consult our experts

User-friendly through robust yet lightweight construction of all sizes due to die cast aluminium, through vertical and horizontal mounting position and suited for variable speed control including thermistor / PTC as standard

Customized for your specific needs and applications

What is HART-COAT[®]?

The HART-COAT[®] process, also known as HC, is an electrolytic treatment of aluminium substrates during which a hard and thick aluminium oxide layer is formed. The essential purpose of this surface treatment is to provide protection against wear and corrosion as well as further functional improvements to components from almost all industrial sectors. The process corresponds to ISO 100 74.

How are HART-COAT[®] layers built up?

HART-COAT[®] layers are built up by anodic oxidising in a specially formulated, cool, acidic electrolyte. By means of electric current, a protecting aluminium oxide layer is produced on the surface of the workpiece being treated. Compared to conventional anodised layers, HART-COAT[®] layers are thicker and provide better wear resistance.



Outstanding hardness



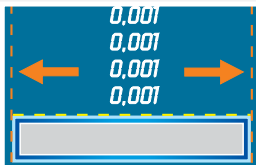
High electrical insulation



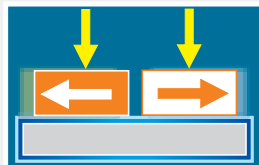
Excellent adhesion



High thermal insulation



Good dimensional accuracy



Optimum anti-friction properties



High wear resistance



Excellent corrosion resistance

Model	Flow* m ³ /hr	Pressure mbar (max)
VSC0530	450	350
VSC0700	600	220
VSC1050	900	350
VSC1370	1,200	350

* 50mbar at 50Hz

* motors are available with input voltage up to 70Hz

* for pumping air inlet pressure and temperature at 1,013mbar and 15°C with tolerance of ±10%



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