

Double stage Lateral Channel Blowers Compressor - 50Hz X2.35 SM



Air Control Industries
Global Air Movement Specialists since 1969



Main Features

- Compliance with the ATEX Directive 94/9/EC
- Compliance with the Machinery Directive 2006/42/CE
- Maximum flow: 354 m³/h
- Maximum Pressure: 550 mbar
- Aluminium alloy parts non sparking
- Motors ATEX Ex nA IIB T4 Gc with PTC sensor
- Suitable for horizontal and vertical installation (for Biogas application, only vertical)
- Inlet / Outlet ports: G 4"

For Biogas application (to be listed at order)

- Anodizing
- Impregnation
- Provision for pressure and temperature control sensors
- Drain holes
- Only vertical installation with No. 3 vibration dampers included (Refer to the doc: "Overall dimensions for Biogas application")

MARKING

- Zone 2, Cat 3G (GAS)

II 3G c IIB T4

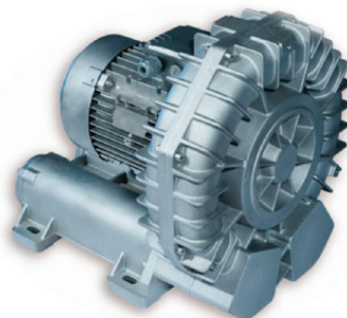
- Zone 22, Cat 3D (DUST)

II 3D c T135°C

- For Biogas application

Zone 2, Cat 3G (GAS)

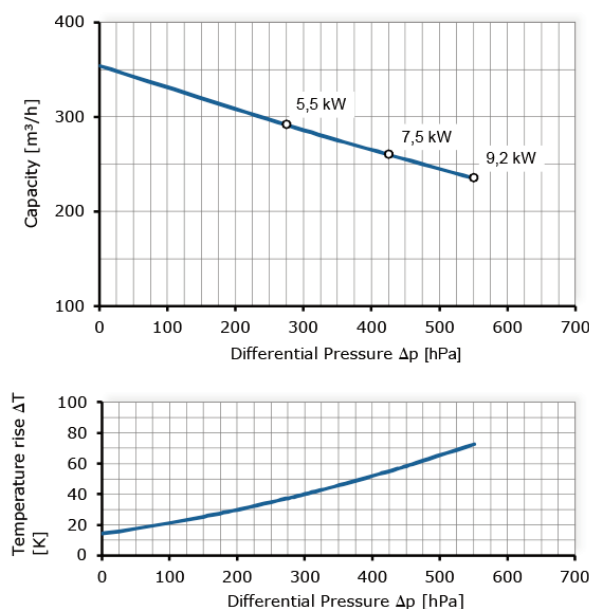
II 3G cb IIB T3



Technical Data for 50Hz - 2 poles - Three-Phase Motors [5]

| Order Code | Maximum flow | Maximum Differential Pressure Δp | Electric Motor data | | | Noise level L_p [3] | Weight |
|------------------|---------------------|--|----------------------|------------------------|---------------------------|-----------------------|--------|
| | [m ³ /h] | [hPa] | Installed Power [kW] | Voltage Δ/Y [V] | Rated Amps Δ/Y [A] | [dB (A)] | [kg] |
| X2.35-5.5 | 354 | 275 | 5,5 | 400/690 | 11,5 / 6,6 | 80,5 | 72 |
| X2.35-7.5 | 354 | 425 | 7,5 | 400/690 | 14,9 / 8,6 | 81,0 | 77 |
| X2.35-9.2 | 354 | 550 | 9,2 | 400/690 | 18,0 / 10,4 | 81,5 | 98 |

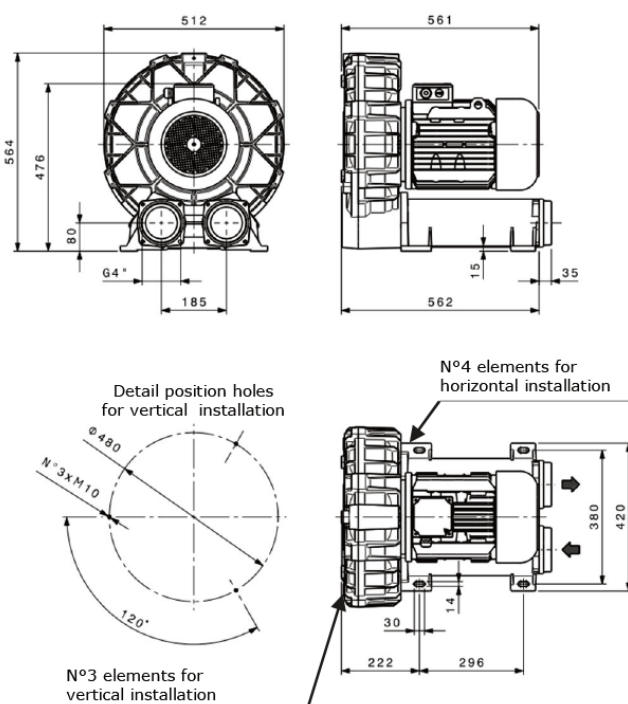
Performance Diagrams [50Hz] [1]



Notes:

- (1) Performance curves refer to operative conditions to air at 15°C temperature and 1013 hPa (abs) pressure measured at inlet port. Tolerance on capacity and temperature values: +/-10%. 1 hPa = 1 mbar
- (2) Allowed tolerance for supplied voltage: +/-10%.
- (3) Noise measured at 1 meter distance in accordance to EN ISO 3744, tolerance: +/-3 dB (A).
- (4) Tolerance about dimensions according to: ISO 2768-c.
- (5) For use with frequencies different from 50Hz, refer to variable frequency table.

Overall Dimensions [mm] [4]



For proper installation and safe use of the blower it must be equipped with relief valve and air filter in accordance with 94/9/EC Atex Directive.
For further details ask for the Compressor connection diagram.