

Single stage Lateral Channel Blowers Compressor - 50Hz X1.40 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: 420 m³/h
- Maximum Pressure: 350 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 3"

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

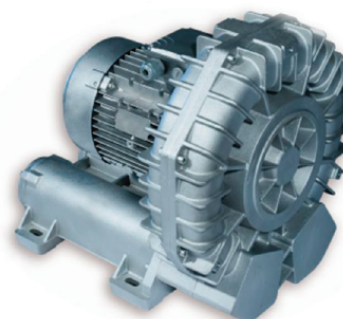
- Zone 22, Cat 3D (DUST)

II 3D c T135°C

- For Biogas application

Zone 2, Cat 3G (GAS)

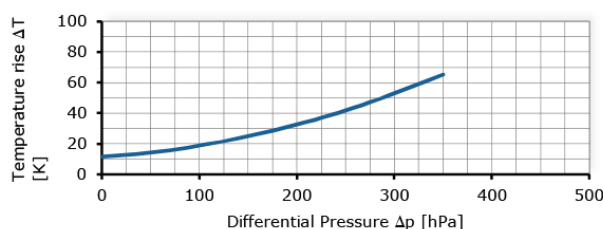
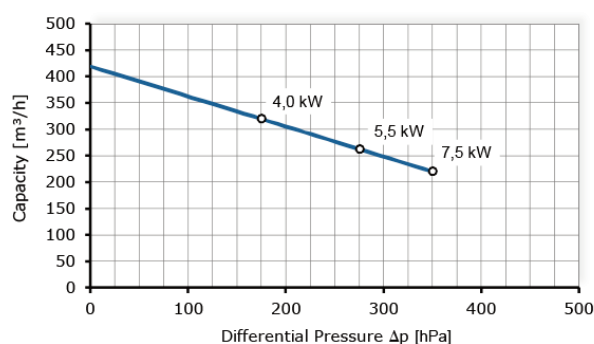
II 3G cb IIB T3



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

Order Code	Maximum flow [m ³ /h]	Maximum Differential Pressure Δp [hPa]	Electric Motor data			Noise level Lp [3] [dB (A)]	Weight [kg]
			Installed Power [kW]	Voltage [2] Δ/Y [V]	Rated Amps Δ/Y [A]		
X1.40-4.0	420	175	4,0	230/400	15,7 / 9,1	75,0	55
X1.40-5.5	420	275	5,5	400/690	11,5 / 6,6	75,5	64
X1.40-7.5	420	350	7,5	400/690	15,6 / 9,0	76,0	68

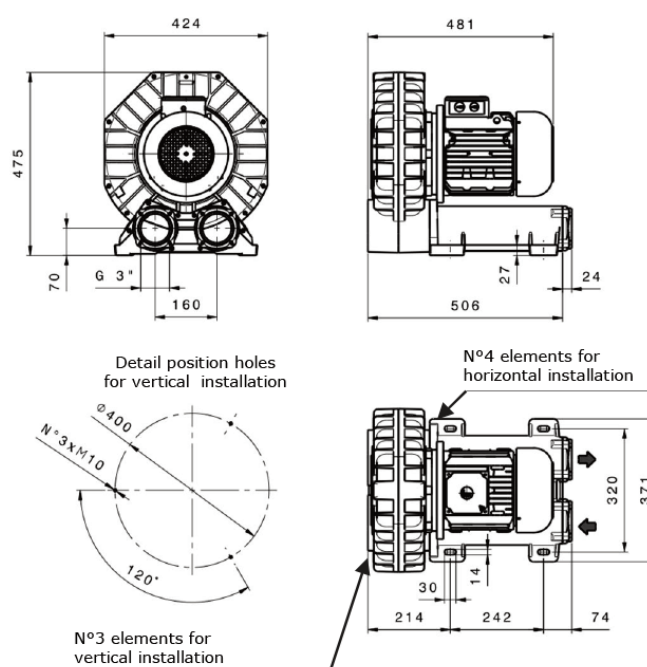
Performance Diagrams [50Hz] [1]



Notes:

- 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
- Allowed tolerance for supplied voltage: +/-10%.
- Noise measured at 1 meter distance in accordance to EN ISO 3744, tolerance: +/-3 dB (A).
- Tolerance about dimensions according to: ISO 2768-c.
- 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.