Single stage Lateral Channel Blowers

Compressor - 50Hz

X1.85 SM





Main Features

 $\langle \mathcal{E}_{\mathbf{X}} \rangle$ Compliance with the ATEX Directive 94/9/EC

Compliance with the Machinery Directive 2006/42/CE

850 m³/h Maximum Pressure: 450 mbar

- Aluminium alloy parts non sparkling

- 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)

€ (€ || 3G c ||B T4

Zone 22, Cat 3D (DUST)

(€) (€ || 3D c T135°C

· For Biogas application Zone 2, Cat 3G (GAS)

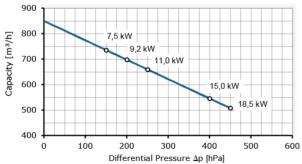
€ II 3G cb IIB T3

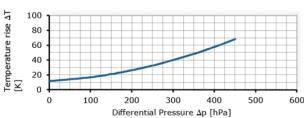


Technical Data for 50Hz - 2 poles - Three-Phase Motors [5]

Order Code	Maximum flow	Maximum Differential Pressure Δp	E Installed Power	lectric Motor da Voltage (2) Δ/Υ	ata Rated Amps Δ/Y	Noise level Lp [3]	Weight
	[m³/h]	[hPa]	[kW]	[V]	[A]	[dB (A)]	[kg]
X1.85-7.5	850	150	7,5	400/690	14,9 / 8,6	80,5	94
X1.85-9.2	850	200	9,2	400/690	18,0 / 10,4	81,0	99
X1.85-11.0	850	250	11,0	400/690	21,5 / 12,4	81,5	101
X1.85-15.0	850	400	15,0	400/690	29,2/16,9	82,0	104
X1.85-18.5	850	450	18,5	400/690	34,8 / 20,1	82,5	125

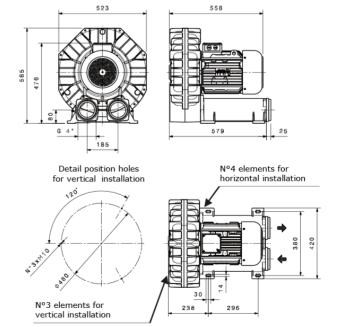
Performance Diagrams [50Hz] [1]





- (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 Allowed tolerance for supplied voltage: +/-10%.
- Noise measured at 1 meter distance in accordance to FN ISO 3744 tolerance:
- 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