

# Double stage Lateral Channel Blowers Compressor - 50Hz X2.42 SM



## ATEX 3GD

Air Control Industries  
Global Air Movement Specialists since 1969



### Main Features

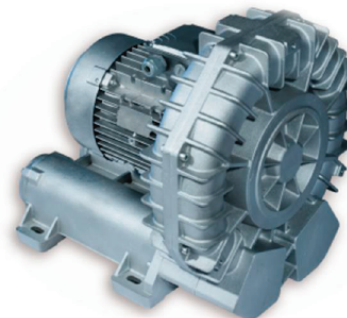
- Ex** Compliance with the ATEX Directive 94/9/EC
- CE** Compliance with the Machinery Directive 2006/42/CE
  - Maximum flow: 420 m³/h
  - Maximum Pressure: 600 mbar
  - Aluminium alloy parts non sparking
  - Motors ATEX Ex nA IIB T4 Gc with PTC sensor
  - Suitable for horizontal and vertical installation (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

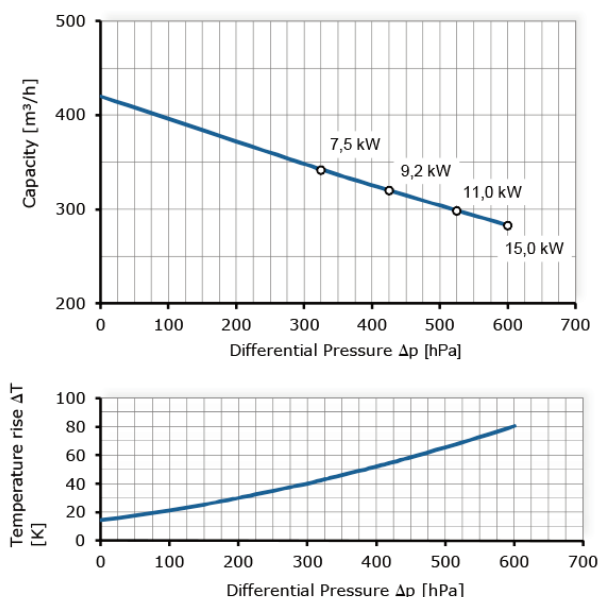
- Zone 2, Cat 3G (GAS)
  - Ex** **CE** II 3G c IIB T4
- Zone 22, Cat 3D (DUST)
  - Ex** **CE** II 3D c T135°C
- For Biogas application
  - Zone 2, Cat 3G (GAS)
    - Ex** **CE** II 3G cb IIB T3



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

Order Code	Maximum flow [m³/h]	Maximum Differential Pressure $\Delta p$ [hPa]	Electric Motor data			Noise level Lp [3] [dB (A)]	Weight [kg]
			Installed Power [kW]	Voltage [2] $\Delta/Y$ [V]	Rated Amps $\Delta/Y$ [A]		
<b>X2.42-7.5</b>	420	325	7,5	400/690	14,9 / 8,6	79,5	95
<b>X2.42-9.2</b>	420	425	9,2	400/690	17,6 / 13,1	80,0	100
<b>X2.42-11.0</b>	420	525	11,0	400/690	20,5 / 11,9	80,5	102
<b>X2.42-15.0</b>	420	600	15,0	400/690	29,2 / 16,9	81,0	105

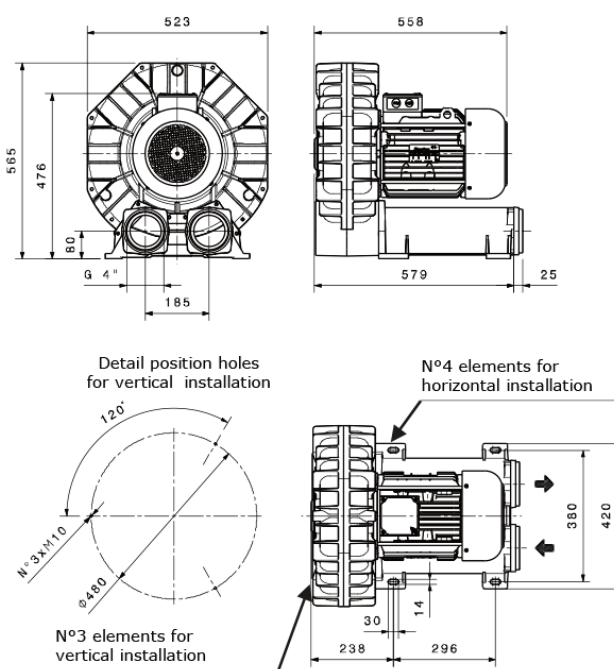
### Performance Diagrams [50Hz] [1]



#### 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.