

# Single stage Lateral Channel Blowers

## Compressor - 50Hz

### D1.170 SM



Air Control Industries  
Global Air Movement Specialists since 1969



#### Main Features

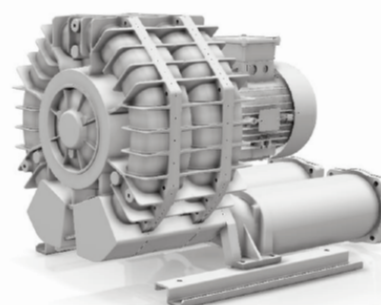
- Compliance with the ATEX Directive 94/9/EC
- Compliance with the Machinery Directive 2006/42/CE
- Maximum flow: 1615 m³/h
- Maximum Pressure: 275 mbar
- Aluminium alloy parts non sparking
- Motors ATEX Ex nA IIB T4 Gc with PTC sensor
- Suitable for horizontal and vertical installation (for Biogas application, only vertical)
- Inlet / Outlet ports: G 5"

#### 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

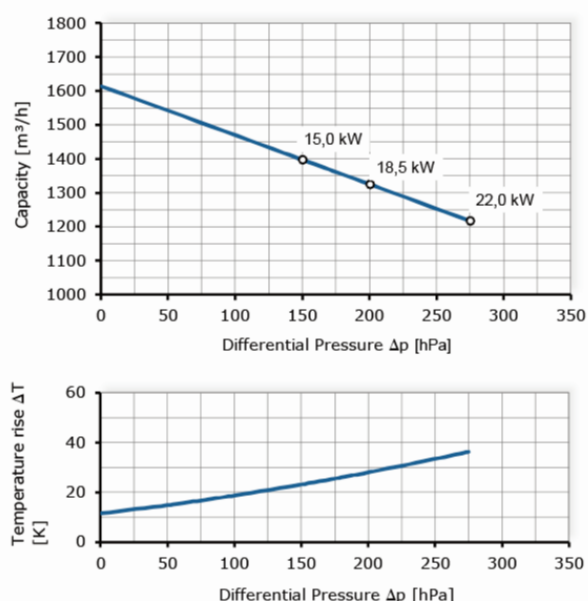
- Zone 2, Cat 3G (GAS)
  - II 3G c IIB T4
- Zone 22, Cat 3D (DUST)
  - II 3D c T135°C
- For Biogas application
  - Zone 2, Cat 3G (GAS)
    - II 3G cb IIB T3



#### Technical Data for 50Hz - 2 poles - Three-Phase Motors <sup>(5)</sup>

Order Code	Maximum flow	Maximum Differential Pressure $\Delta p$	Electric Motor data			Noise level $L_p$ <sup>(3)</sup>	Weight
			Installed Power	Voltage <sup>(2)</sup> $\Delta/Y$	Rated Amps $\Delta/Y$		
	[m³/h]	[hPa]	[kW]	[V]	[A]	[dB (A)]	[kg]
D1.170-15.0	1615	150	15,0	400/690	29,2 / 16,9	84,5	150
D1.170-18.5	1615	200	18,5	400/690	34,8 / 20,1	85,0	174
D1.170-22.0	1615	275	22,0	400/690	43,0 / 25,0	86,0	195

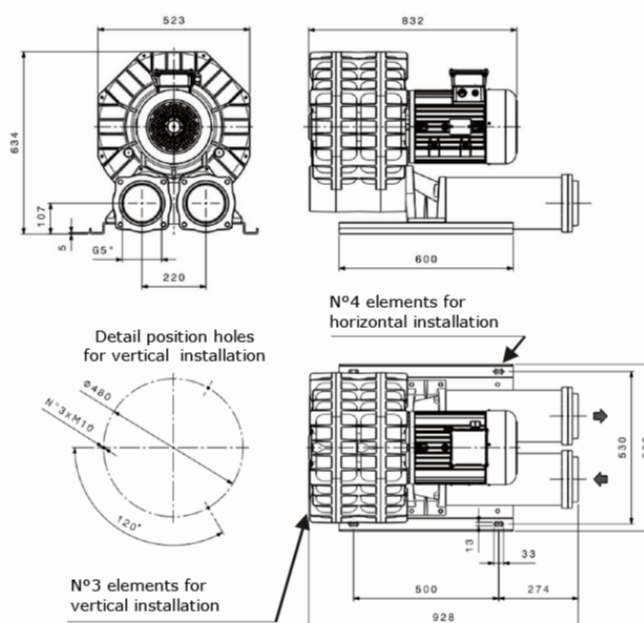
#### Performance Diagrams [50Hz] <sup>(1)</sup>



#### 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] <sup>(4)</sup>



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.