

Motor Size FULLY COMPLIANT WITH REQUIREMENTS OF **WIMES** 315 kW

Dimensions		Length	Width	Height	Weight
	Nett	3706 mm	2276 mm	2360 mm	7000 kg
	Gross	4100 mm	2650 mm	2800 mm	7100 kg

Free Air Delivery	13.4 – 52.1 m ³ /min (473 – 1840 cfm) at 7.5 bar (MWP 8.5 bar)
(In accordance with ISO1217 Annex C)	9.8 – 45.1 m ³ /min (346 – 1593 cfm) at 10 bar (MWP 15 bar)
	9.4 – 39.7 m ³ /min (332 – 1402 cfm) at 13 bar (MWP 15 bar)

Technical Data based on full load condition!

Average Noise Levels, read at 1 metre in open field conditions to CAGI/PNEUROP PN8NTC2.3

	Standard
Air Cooled	79 dB(A)
Water Cooled	79 dB(A)

Air Outlet Size	DN 125
Recommended Air Receiver Size	5000 litres
Oil carry over (in ambient 30°C)	3-5 mg/m ³

Minimum ambient operating temperature	3°C
Maximum ambient operating temperature	45°C
Maximum height above Sea Level for machine installation	1000 m

Usable heat from package

	Air Cooled	Water Cooled
Typical compressed air outlet temperature (Delta 'T') above inlet temperature (in ambient 30°C) ¹	7°C	1°C

(Below data are based on 7.5 barg operating pressure!)

Air Flow through cabinet [m ³ /hour]	40,000	5,000
Usable heat as warm air (at full load conditions) ²	1204.7 MJ/hr	103.1 MJ/hr
Expelled air temperature (delta 'T') above inlet temperature in ambient 30°C)	20.1°C	13.8°C

Ductwork Details - Maximum permitted pressure drop of attached ductwork (above this limit an additional fan will be required – take advice from HPC)

10 mm Wg

Suggested ductwork dimensions [mm x mm]:	Inlet:	2150 x 1970
	Discharge:	1900 x 1000

Fuses and Cable Cross Section

Cable cross section (Cu-multicore) in mm ² for maximum 50 metre run	4 x 300 (double)
Isolator to be fitted with HRC motor rated fuse links	800 amps
For use of MCB please consult your electrical installation contractor or HPC if necessary.	
Isolator size to be at least of the same rating as recommended fuse!	

The power supply cable cross-section and fusing are designed for frequency-converter start and an ambient temperature of less than 30°C. Under other operational conditions such as higher ambient temperatures or longer power supply cables (over 50metres) the power supply cable cross-section and fusing must be checked and determined to the latest edition of BS7671 IEE wiring regulations or those of the local electricity authority by the electrical installation contractor.

CAUTION

¹ Ensure the 'Air on' temperature of the compressed air is considered when sizing downstream equipment e.g. Dryers

² Excluding inverter

Oil Capacity ³ (Maximum)

180 litres

Oil Consumption (litres) per 100 running hours
based on full load condition (approx. maximum)

3.3 at 8.0 bar
2.6 at 11.0 bar
2.0 at 15.0 bar

³ Air-cooled machine only.

Package Details

		Air Cooled			Water Cooled		
Effective Working Pressure (bar) ⁴		7.5	10.0	13.0	7.5	10.0	13.0
Motor specification / rating		IP 55 / 315 kW			IP 55 / 315 Kw		
Motor efficiency at max. speed without inverter (%)		96.0			96.0		
Masterdrive inverter specification / rating		IP 54 / 315 kW			IP 54 / 315 kW		
Package starting characteristic		Soft Start			Soft Start		
Package rated voltage		400/3/50			400/3/50		
Package power input (kW)	max.	327.0	325.0	326.0	318.3	316.3	317.3
	min.	97.5	91.0	105.0	88.8	82.3	96.3
Specific power consumption (kW / (m ³ /min))	max.	6.28	7.21	8.21	6.10	7.01	7.99
	min.	7.31	9.29	11.17	6.63	8.40	10.24
Motor / Airend speed (rpm)	max.	1665	1920	1710	1665	1920	1710
	min.	450	450	450	450	450	450

Values are given for max. and min. compressor speed

Fan Motor Details		Air Cooled		Water Cooled	
Power input (kW)		9.09		0.4	
Shaft power (kW)		8		0.3	
Efficiency (%)		88.0		75.0	
Motor speed (rpm)		1000		1000	

⁴ For FAD and Power Consumption at different discharge pressure – please consult HPC

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