



KAISHAN COMPRESSOR

DATA SHEET - VARIABLE SPEED COMPRESSOR

Product information

Model	KPE-900
Minimum effective working pressure - bar	5
Maximum effective working pressure - bar	13
Cooling	Air
Maximum inlet air temperature - °C	50
Minimum ambient temperature - °C	-12
Maximum altitude - m	1000

Compressor performance*

Effective Working Pressure - psig	100	115	150	190
Capacity at Effective Working Pressure - acfm	918.0	871.0	764.0	652.0
Total input Power at Effective Working Pressure – kW	165.2	165.5	165.0	165.0
Specific Power at Effective Working Pressure-kW/acfm*100	18.0	19.0	21.6	25.3

Compressor flow capacity - acfm

Compressor flow capacity at 100%	918.0	871.0	764.0	652.0
Compressor flow capacity at 70%	639.4	606.7	530.5	451.8
Compressor flow capacity at 40%	363.5	344.9	301.6	256.9
Compressor flow capacity at minimum	220.1	219.6	219.1	218.4

Compressor package input power - kW

Compressor package input power at 100%	165.2	165.5	165.0	165.0
Compressor package input power at 70%	115.1	115.3	116.7	115.7
Compressor package input power at 40%	69.4	70.0	70.6	69.6
Compressor package input power at unloading	24.8	24.8	24.8	24.8

Compressor specific power - kW/acfm*100

Compressor specific power at 100%	18.0	19.0	21.6	25.3
Compressor specific power at 70%	18.0	19.0	22.0	25.6
Compressor specific power at 40%	19.1	20.3	23.4	27.1

Motor Data (Typical)

Motor rated kW	150
Motor Nominal Efficiency %	97.2
Motor enclosure type	Totally enclosed liquid cooled
Service Factor	1.25
Starter Type	VSD
Electrical Enclosure	IP66



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Dimensions & Weights w/Enclosure Air-cooled Series

Length - mm	3200
Width - mm	1450
Height - mm	1765
Weight - kg	TBD
Discharge Pipe Size	NPS3", NPS3/4"
Moisture Drain Connection	6 X NPT1/2"

dBA Ratings at 1 Meter (Typical)

Air – cooled enclosure	76
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Cooling Air Flows

Cooling fan capacity - m3/h	22000
Fan Motor - kW	3
Cooling fan type	axial
Lubricant capacity - L	52

Filter Rating

Inlet Air	99.9% Eff.
Main Lubricant Flow	23µm
Fluid Carryover(PPM)	2ppm

*Optional features

Rated power voltage	380/400V/415/440/460V
Rated power frequency	50/60Hz

Product features

Airend	Single Stage
Electrical enclosure	NEMA4
Motor brand	Kaishan
Motor type	Permanent magnet synchronous motor
Drive type	Direct
Variable speed drive	Kaishan, liquid cooled
Enclosure/Cabinet type	Low sound, Rain-proof

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Remark

- (1) Flow rate measured in accordance with ISO 1217, Annex E;
- (2) specific power measured in accordance with ISO 1217, Annex E;
- (3) Tolerance is specified in ISO 1217, Annex E;
- (4) Sound pressure level measured according to ISO 2151: 2004 using ISO 9614/2 (sound intensity)