



ENGINEERING DATA SHEET

R5.5i (IE3) Single Phase 60Hz

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Sheet: 1 of 1
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Model Name		R5.5i-X110	R5.5i-X125	R5.5i-X145	R5.5i-X200
GENERAL PERFORMANCE DATA					
Maximum Operating Pressure (2)	barg (psig)	7.5 (110)	8.5 (125)	10.0 (145)	14 (200)
Rated Discharge Pressure	barg (psig)	7 (100)	8 (115)	9.5 (135)	13.5 (190)
Minimum Operating Pressure	barg (psig)	4.5 (65)	4.5 (65)	4.5 (65)	4.5 (65)
Capacity FAD (1)	m ³ /min (CFM)	0.86 (30.47)	0.78 (27.49)	0.69 (24.31)	0.47 (16.76)
Maximum Operating Ambient Temperature	°C (°F)			40 (104)	
Minimum Operating Ambient Temperature	°C (°F)			2 (35)	
Maximum System Temperature Setting	°C (°F)			109 (228)	
Nominal Power - Main Motor	kW (HP)			5.5 (7.5)	
Main Motor Efficiency (3)	Percent			85.0%	
Package Input Power - Air Cooled (4)	kW	7.57	7.33	7.66	7.67
Package Input Power - Air Cooled - No Loaded	kW	3.60	3.10	2.70	2.00
Specific Power - Air Cooled (4)(5)	kW/m ³ /min (kW/100cfm)	8.77 (24.84)	9.42 (26.67)	11.13 (31.51)	16.16 (45.75)
SOUND LEVEL (6)					
Standard Package - Air Cooled	dB(A)			69	
COOLING DATA (@ Maximum Ambient Temperature & Maximum Discharge Pressure)					
Heat Removal Oil Cooler	kW (1000 Btu/hr)	5.7 (19.5)	5.8 (19.8)	5.9 (20.1)	6.0 (20.5)
Heat Removal Oil and Aftercooler	kW (1000 Btu/hr)	6.9 (23.6)	6.9 (23.6)	6.9 (23.6)	6.7 (22.9)
Additional Static Pressure	Pa (in H ₂ O)	See Document 23883374			
Fan Air Flow	m ³ /min (CFM)	34.0 (1200)			
Fan Motor Nominal Power	kW	0.3			
Fan Motor Efficiency	Percent	71.0%			
Cooling Air Temperature Rise	°C (°F)	20 (36)	20 (36)	20 (36)	20 (36)
Aftercooler CTD(7)	°C (°F)	6 (11)	6 (11)	6 (11)	6 (11)
AIR END DATA					
Male Rotor Speed	rpm	3557	3315	3039	2355
Tip Speed Rotor	m/sec	13.83	12.78	11.61	8.80
Full Load Shaft Power	kW	6.36	6.16	6.44	6.45
COOLANT LUBRICATION DATA					
Total Coolant Capacity - Air Cooled	litres (US gal)	5 (1.32)			
PIPING CONNECTIONS					
Air Discharge	Inches NPT	0.75			
Package Automatic Condensate Drain(8)	Inches NPT	0.25			
Coolant Drain - Hose Size	Inches	0.88			
Diameter of Power Inlet	mm / inch	M32 gland cable (cable diameters 12-21mm / 0.47-82")			
DIMENSIONS & WEIGHT					
		Base Mounted			
Length / Width / Height	mm (inches)	960 (37.8) / 690 (27.2) / 1186.5 (46.7)			
Net Weight - Air Cooled	kg (lb.)	280 (618)			
GA Drawing Number - Air Cooled		24187775			
ELECTRICAL DATA ⁽¹⁴⁾					
Motor Enclosure Protection		208V 1Φ		230V 1Φ	
		IP55		IP55	
Full Load Package Current - Air Cooled (10)	Amps	44		44	
Package Locked Rotor Current	Amps	414		414	
Package Power Factor		0.97		0.97	
Electrical Installation					
Recommended Supply Cable Size (11)	mm ² /Cu (AWG or kcmil)	6 (AWG8)		6 (AWG8)	
Maximum Recommended Fuse Rating ⁽¹¹⁾⁽¹²⁾	Amps	80.0		80.0	

Notes:

- (1) FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C
- (2) Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
- (3) NEMA Premium efficiency motor
- (4) Measured at rated capacity and rated pressure
- (5) Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C
- (6) Measured in free field conditions per ISO 2151 using Hemispherical Method; ducted inlet and outlet, with + 3 dB(A) tolerance.
- (7) 40% Relative Humidity Inlet Air and maximum speed (For alternate conditions contact Ingersoll Rand)
- (8) Auto drain with receiver only
- (10) Maximum current includes 10% additional current due to fouled filters and elements
- (11) 90°C copper cables. Always apply local electrical codes for sizing cables and fusing.
- (12) Time delay fuse recommended. Apply local electrical codes for fuse sizing
- (13) Coolant volumes listed are approximate. See operator manual for coolant fill procedure.
- (14) Voltage tolerance: (380V) ±6% ; (440, 460, 575V) ±10%

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