

Model Name		R5.5n-X100	R5.5n-X110	R5.5n-X115	R5.5n-X125	R5.5n-X135	R5.5n-X145
GENERAL PERFORMANCE DATA							
Rated Discharge Pressure	barg (psig)	7 (100)	7.5 (110)	8 (115)	8.5 (125)	9.5 (135)	10 (145)
Minimum Operation Pressure	barg (psig)	4.5 (65)	4.5 (65)	4.5 (65)	4.5 (65)	4.5 (65)	4.5 (65)
Capacity FAD @ Max Speed (1) (13)	m³/min (CFM)	0.909 (32.1)	0.846 (29.9)	0.818 (28.9)	0.767 (27.1)	0.722 (25.5)	0.688 (24.3)
Capacity FAD @ Min Speed (1) (13)	m³/min (CFM)	0.384 (13.6)	0.380 (13.43)	0.378 (13.3)	0.372 (13.1)	0.366 (12.9)	0.360 (12.7)
Turndown Percentage	Percent	57.8%	55.0%	53.8%	51.5%	49.3%	47.7%
Maximum Target Operating Pressure (2)	barg (psig)				10 (145)		
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 Drive Efficiency (9)	Percent				96.4%		
Main Motor Efficiency (3)	Percent				89.5%		
Package Input Power - Air Cooled (4)	kW	7.83	7.85	7.84	7.85	7.84	8.08
Specific Power - Air Cooled (4)(5)	kW/m3/min (kW/100cfm)	8.61 (24.4)	9.28 (26.3)	9.59 (27.1)	10.23 (29.)	10.86 (30.8)	11.74 (33.2)
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)	5.7 (19.5)	5.8 (19.8)	5.8 (19.8)	5.9 (20.1)	5.9 (20.1)
Heat Removal Oil and Aftercooler	kW (1000 Btu/hr)	6.9 (23.6)	6.9 (23.6)	6.9 (23.6)	6.9 (23.6)	6.9 (23.6)	6.9 (23.6)
Additional Static Pressure (13)	Pa (in H2O)				See document 23883374		
Fan Air Flow	m³/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)	20 (36)	20 (36)
Aftercooler CTD, 60 Hz (7)	°C (°F)	6 (11)	6 (11)	6 (11)	6 (11)	6 (11)	6 (11)
AIR END DATA							
Male Rotor Speed	rpm	3741	3557	3472	3315	3171	3039
Tip Speed Rotor	m/sec	14.5	13.8	13.5	12.9	12.3	11.8
Full Load Shaft Power	kW	6.68	6.70	6.69	6.70	6.69	6.90
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.)				285 (628)		
GA Drawing Number - Air Cooled					24187775		
ELECTRICAL DATA							
		208/230V 3Φ	220V 3Φ	380V 3Φ	440V 3Φ	460V 3Φ	575V 3Φ
Motor Protection		IP55	IP55	IP55	IP55	IP55	IP55
Full Load Package Current - Air Cooled (10)	Amps	24.6/24.1	25.4	14.6	13.2	12.1	9.5
Package Power Factor		0.87/0.79	0.85	0.85	0.85	0.79	0.85
Electrical Installation							
Recommended Supply Cable Size (11)	mm²/Cu (AWG or kcmil)	4 (AWG10)	4 (AWG10)	2.5 (AWG12)	2.5 (AWG12)	1.5 (AWG14)	1.5 (AWG14)
Maximum Recommended Fuse Rating (11)(12)	Amps	50	50	30	30	30	25

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) At maximum speed and flow for the given package discharge pressure
- (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, with + 3 dB(A) tolerance.
- (7) 40% Relative Humidity Inlet Air and maximum speed (For alternate conditions contact IR)
- (8) Auto drain with receiver only
- (9) Performance predicted for variable pressure settings using 145PSIG configuration pulleys
- (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) Fast Acting Class-J, T or Semiconductor type fuse required. Apply local electrical codes for fuse sizing
- (13) Performance predicted for variable pressure settings using 10barg configuration pulleys

Product Improvement is a continuing goal at Ingersoll Rand. Design and specifications are subject to change without notice or obligation.