

Model Name		R7.5n-X100	R7.5n-X110	R7.5n-X115	R7.5n-X125	R7.5n-X135	R7.5n-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)	1.18 (41.7)	1.11 (39.3)	1.08 (38.3)	1.03 (36.3)	0.983 (34.7)	0.945 (33.4)
Capacity FAD @ Min Speed (1) (13)	m³/min (CFM)	0.416 (14.7)	0.405 (14.3)	0.400 (14.1)	0.391 (13.8)	0.385 (13.6)	0.379 (13.4)
Turndown Percentage	Percent	64.8%	63.7%	63.1%	62.0%	60.8%	59.8%
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)				7.5 (10.0)		
Main Drive Efficiency (9)	Percent				95.9%		
Main Motor Efficiency (3)	Percent				90.2%		
Package Input Power - Air Cooled (4)	kW	10.17	10.20	10.17	10.23	10.17	10.21
Specific Power - Air Cooled (4)(5)	kW/m³/min (kW/100cfm)	8.61 (24.4)	9.16 (26.)	9.38 (26.6)	9.94 (28.2)	10.35 (29.3)	10.80 (30.6)
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)	7.7 (26.3)	7.7 (26.3)	7.8 (26.6)	7.8 (26.6)	7.9 (27.0)	7.9 (27.0)
Heat Removal Oil and Aftercooler	kW (1000 Btu/hr)	9.1 (31.1)	9.1 (31.1)	9.1 (31.1)	9.1 (31.1)	9.2 (31.4)	9.2 (31.4)
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)	25 (45)	25 (45)	25 (45)	25 (45)	25 (45)	25 (45)
Aftercooler CTD, 60 Hz (7)	°C (°F)	7.5 (13.5)	7.5 (13.5)	7.5 (13.5)	7.5 (13.5)	7.5 (13.5)	7.5 (13.5)
AIR END DATA							
Male Rotor Speed	rpm	4839	4630	4533	4356	4194	4046
Tip Speed Rotor	m/sec	18.8	18.0	17.6	16.9	16.3	15.7
Full Load Shaft Power	kW	8.72	8.75	8.72	8.77	8.72	8.76
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	34.9/31.3	33	18.8	16.8	15.7	12.2
Package Power Factor		0.86/0.78	0.85	0.85	0.85	0.75	0.84
Electrical Installation							
Recommended Supply Cable Size (11)	mm²/Cu (AWG or kcmil)	6 (AWG8)	6 (AWG8)	2.5 (AWG12)	2.5 (AWG12)	2.5 (AWG12)	1.5 (AWG14)
Maximum Recommended Fuse Rating (11)(12)	Amps	50/60	50	40	40	40	35

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) Efficiency of frequency converter at 208V
- (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 145PSIG configuration pulleys

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