

Model Name		R11n-X100	R11n-X110	R11n-X115	R11n-X125	R11n-X135	R11n-X145
<b>GENERAL PERFORMANCE DATA</b>							
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)	m <sup>3</sup> /min (CFM)	1.69 (59.8)	1.62 (57.1)	1.58 (55.9)	1.52 (53.8)	1.47 (52.0)	1.43 (50.4)
Capacity FAD @ Min Speed (1) (13)	m <sup>3</sup> /min (CFM)	0.395 (13.9)	0.394 (13.9)	0.392 (13.8)	0.384 (13.6)	0.374 (13.2)	0.362 (12.8)
Turndown Percentage	Percent	76.7%	75.6%	75.3%	74.8%	74.6%	74.6%
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)				11.0 (15.0)		
Main Drive Efficiency (9)	Percent				96.4%		
Main Motor Efficiency (3)	Percent				91.0%		
Package Input Power - Air Cooled (4)	kW	14.69	14.74	14.71	14.74	14.69	14.75
Specific Power - Air Cooled (4)(5)	kW/m <sup>3</sup> /min (kW/100cfm)	8.68 (24.6)	9.12 (25.8)	9.29 (26.3)	9.67 (27.4)	9.97 (28.2)	10.34 (29.3)
<b>SOUND LEVEL (6)</b>							
Standard Package - Air Cooled	dB(A)				69		
<b>COOLING DATA (@ Maximum Ambient Temperature &amp; Maximum Discharge Pressure)</b>							
Heat Removal Oil Cooler	kW (1000 Btu/hr)	11.4 (38.9)	11.4 (38.9)	11.5 (39.3)	11.5 (39.3)	11.6 (39.6)	11.6 (39.6)
Heat Removal Oil and Aftercooler	kW (1000 Btu/hr)	13.3 (45.4)	13.3 (45.4)	13.4 (45.8)	13.4 (45.8)	13.4 (45.8)	13.4 (45.8)
Additional Static Pressure (13)	Pa (in H <sub>2</sub> O)				See document 23883374		
Fan Air Flow	m <sup>3</sup> /min (cfm)				34.0 (1200)		
Fan Motor Nominal Power	kW				0.3		
Fan Motor Efficiency	Percent				71.0%		
Cooling Air Temperature Rise	°C (°F)	35 (63)	35 (63)	35 (63)	35 (63)	35 (63)	35 (63)
Aftercooler CTD, 60 Hz (7)	°C (°F)	12 (21.5)	12 (21.5)	12 (21.5)	12 (21.5)	12 (21.5)	12 (21.5)
<b>AIR END DATA</b>							
Male Rotor Speed	rpm	6928	6660	6537	6313	6111	5927
Tip Speed Rotor	m/sec	26.9	25.9	25.4	24.5	23.8	23.0
Full Load Shaft Power	kW	12.81	12.85	12.83	12.85	12.81	12.86
<b>COOLANT LUBRICATION DATA</b>							
Total Coolant Capacity - Air Cooled	litres (US gal)				5 (1.32)		
<b>PIPING CONNECTIONS</b>							
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")		
<b>DIMENSIONS &amp; WEIGHT</b>							
					<b>Base Mounted</b>		
Length, Width, Height	mm (inches)				960 (37.8) / 690 (27.2) / 1186.5 (46.7)		
Net Weight - Air Cooled	kg (lb.)				305 (672)		
GA Drawing Number - Air Cooled					24187775		
<b>ELECTRICAL DATA</b>							
		<b>208/230V 3Φ</b>	<b>220V 3Φ</b>	<b>380V 3Φ</b>	<b>440V 3Φ</b>	<b>460V 3Φ</b>	<b>575V 3Φ</b>
Motor Protection		IP55	IP55	IP55	IP55	IP55	IP55
Full Load Package Current - Air Cooled (10)	Amps	50.8/46	48.4	27.5	24.3	22.6	17.9
Package Power Factor		0.87/0.79	0.87	0.87	0.87	0.79	0.85
<b>Electrical Installation</b>							
Recommended Supply Cable Size (11)	mm <sup>2</sup> /Cu (AWG or kcmil)	10 (AWG6)	10 (AWG6)	4 (AWG10)	2.5 (AWG12)	2.5 (AWG12)	2.5 (AWG12)
Maximum Recommended Fuse Rating (11)(12)	Amps	80	63	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 10barg configuration pulleys

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