



ENGINEERING DATA SHEET

**RS11i**  
60Hz

CCN: 47648961001  
Rev.: A  
ECN: 1860659  
Sheet: 1 of 1  
Date: Dec-2018

Model		RS11i-A110	RS11i-A125	RS11i-A145	RS11i-A200
<b>GENERAL PERFORMANCE DATA</b>					
Maximum Target Operating Pressure	<sup>(2)</sup> barg (psig)	7.6 (110)	8.6 (125)	10.0 (145)	13.8 (200)
Rated Discharge Pressure	barg (psig)	6.9 (100)	7.9 (115)	9.3 (135)	13.1 (190)
Minimum Operating Pressure	barg (psig)	4.5 (65)	4.5 (65)	4.5 (65)	4.5 (65)
Maximum Operating Ambient Temperature	°C (°F)	40 (104)	40 (104)	40 (104)	40 (104)
Minimum Operating Ambient Temperature	°C (°F)	2 (36)	2 (36)	2 (36)	2 (36)
Maximum System Temperature Setting	°C (°F)	109 (228)	109 (228)	109 (228)	109 (228)
Nominal Power - Main Motor	kW (HP)	11 (15)	11 (15)	11 (15)	11 (15)
Main Motor Efficiency	%	92.4%	92.4%	92.4%	92.4%
Capacity FAD	<sup>(3)</sup> m <sup>3</sup> /min (CFM)	1.98 (70)	1.82 (64)	1.64 (58)	1.24 (44)
Package Input Power with Fan - Air Cooled	<sup>(4)</sup> kW	13.60	13.59	13.54	13.83
Specific Power - Air Cooled	<sup>(4)(5)</sup> kW/m <sup>3</sup> /min (kW/100CFM)	6.88 (19.48)	7.45 (21.10)	8.24 (23.34)	11.16 (31.60)
<b>SOUND LEVEL</b>					
Noise Level Standard Package - Air Cooled	<sup>(6)</sup> Sound Pressure - dB(A)	74	74	74	74
Noise Level Standard Package - Air Cooled	Sound Power - dB(A)	89	89	89	89
<b>COOLING DATA (@ Maximum Ambient Temperature &amp; Maximum Discharge Pressure)</b>					
Heat Removal (Oil Cooler)	kW (1000 Btu/hr)	11.0 (38)	11.1 (38)	11.2 (38)	11.9 (41)
Heat Removal (Oil and Aftercooler)	kW (1000 Btu/hr)	13.5 (46)	13.5 (46)	13.5 (46)	13.7 (47)
Permitted Additional Static Pressure	Pa (in H <sub>2</sub> O)	63 (.25)	63 (.25)	63 (.25)	63 (.25)
Fan Air Flow	m <sup>3</sup> /min (CFM)	65 (2295)	65 (2295)	65 (2295)	65 (2295)
Fan Motor Nominal Power	kW	0.5	0.5	0.5	0.5
Cooling Air Temperature Rise @ 30°C	°C (°F)	10 (17)	10 (17)	10 (17)	10 (18)
Aftercooler CTD	<sup>(7)</sup> °C (°F)	8 (15)	7 (13)	7 (12)	5 (9)
<b>AIR END DATA</b>					
Male Rotor Speed	RPM	2522	2371	2189	1798
Tip Speed Rotor	m/sec	14.11	13.27	12.25	10.06
Full Load Shaft Power	kW	11.9	11.8	11.8	12.1
<b>COOLANT LUBRICATION DATA</b>					
Total Coolant Capacity - Air Cooled	<sup>(8)</sup> litres (US gal)	11 (2.9)	11 (2.9)	11 (2.9)	11 (2.9)
<b>PIPING CONNECTIONS</b>					
Air Discharge	Inches NPT	1.0" INCH (FEMALE)	1.0" INCH (FEMALE)	1.0" INCH (FEMALE)	1.0" INCH (FEMALE)
Package Automatic Condensate Drain	Inches NPT	.25 INCH (FEMALE)	.25 INCH (FEMALE)	.25 INCH (FEMALE)	.25 INCH (FEMALE)
Coolant Drain - Hose Size	Inches NPT	.375 INCH (FEMALE)	.375 INCH (FEMALE)	.375 INCH (FEMALE)	.375 INCH (FEMALE)
Diameter of Power Inlet	mm (Inches)	64 (2.5)	64 (2.5)	64 (2.5)	64 (2.5)
<b>DIMENSIONS AND WEIGHT</b>					
Length, Width, Height	mm (inches)	1020, 800, 1300 (40.2, 31.5, 51.2)	1020, 800, 1300 (40.2, 31.5, 51.2)	1020, 800, 1300 (40.2, 31.5, 51.2)	1020, 800, 1300 (40.2, 31.5, 51.2)
Net Weight - Air Cooled	kg (lb.) - (Base Mounted)	512 (1129)	513 (1131)	516 (1138)	520 (1146)
GA Drawing Number - Air Cooled	Base Mounted	47637548001	47637548001	47637548001	47637548001
	Receiver Mounted	47637549001	47637549001	47637549001	47637549001
<b>ELECTRICAL DATA</b>					
Motor Protection	<sup>(9)</sup>	TEFC, IP55	TEFC, IP55	TEFC, IP55	TEFC, IP55
Full Load Package Current - Air Cooled	<sup>(9)</sup> Amps @ 200V	57	57	57	57
	Amps @ 230V	49	49	49	49
	Amps @ 460V	27	27	27	27
	Amps @ 575V	22	22	22	22
Main Motor Locked Rotor Current	<sup>(14)</sup> Amps @ 200V	334	334	334	334
	Amps @ 230V	291	291	291	291
	Amps @ 460V	148	148	148	148
	Amps @ 575V	118	118	118	118
Package Power Factor		0.81	0.81	0.81	0.81
<b>Electrical Installation</b>					
Recommended Supply Cable Size	<sup>(10)</sup> mm <sup>2</sup> Cu (Kcmil) @ 200V	16 (26)	16 (26)	16 (26)	16 (26)
	mm <sup>2</sup> Cu (Kcmil) @ 230V	10 (17)	10 (17)	10 (17)	10 (17)
	mm <sup>2</sup> Cu (Kcmil) @ 460V	4 (10)	4 (10)	4 (10)	4 (10)
	mm <sup>2</sup> Cu (Kcmil) @ 575V	3 (10)	3 (10)	3 (10)	3 (10)
Maximum Recommended Fuse Rating	<sup>(10)(11)</sup> Amps @ 200V	90	90	90	90
	Amps @ 230V	80	80	80	80
	Amps @ 460V	45	45	45	45
	Amps @ 575V	35	35	35	35

**Notes:**

- FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C
- Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
- IE3 efficiency motor
- Measured at rated capacity and rated pressure
- Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C
- Measured in free field conditions per ISO 2151 using Hemispherical Method; ducted inlet and outlet, with + 3 dB(A) tolerance
- CTD based on 100°F/38°C inlet air at 40% Relative Humidity (For alternate conditions contact Ingersoll Rand)
- BSPT or NPT, depending on regional standard
- Maximum current includes 10% additional current due to fouled filters and elements
- 90°C copper cables. Always apply local electrical codes for sizing cables and system protection
- Time delay fuse recommended. Apply local electrical codes for fuse sizing
- Coolant volumes listed are approximate. See operator manual for coolant fill procedure
- 60Hz (±0.5%) motor voltage tolerance: (208)±10% ; (220)±10% ; (230)±10% ; (380)-6/+10% ; (440) ±10% ; (460) ±10% ; (575) -6/+10%
- Star-Delta starting current inrush is about 33% of direct starting current
- During the Star-Delta open-starting transition, the in-rush current value could instantaneously peak from 1.8 to 2.8 times the noted Locked-Rotor-Amperage (LRA) values

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