

ENGINEERING DATA SHEET

RSa11i

47724922001 CCN: Rev.: ECN: Sheet: Date: C 1491901 1 of 1 Oct-23-2023

Model			RSa11i-A	110	RSa11i-A	125	RSa11i-A	145	
				-		-		-	
GENERAL PERFORMANCE DATA	(2)								
Maximum Target Operating Pressure	(2)	barg (psig)	7.6 (1		8.6 (125)		10.0 (145)		
Rated Discharge Pressure		barg (psig)	6.9 (1		7.9 (115)		9.3 (135)		
Minimum Operating Pressure		barg (psig)	5.2 (7		5.2 (75)		5.2 (7		
Maximum Operating Ambient Temperature		°C (°F)	40 (1		40 (104)		40 (1		
Minimum Operating Ambient Temperature		°C (°F)	2 (3		2 (36)		2 (3		
Maximum System Temperature Setting		°C (°F)	115.5 (2		115.5 (240)		115.5 (2		
Nominal Power - Main Motor		kW (HP)	11.0 (1		11.0 (15)		11.0 (1		
Main Motor Efficiency	(3)	%	91.0%		91.0%		91.09	6	
Capacity FAD	(1)	m³/min (CFM)	1.91 (6		1.76 (62.2)		1.55 (54.7)		
Package Input Power with Fan - Air Cooled	(4)	kW	13.59		13.61		13.40		
Specific Power - Air Cooled	(4)(5)	kW/m ³ /min (kW/100CFM)	7.13 (2	0.19)	7.73 (21	1.88)	8.65 (2	4.49)	
SOUND LEVEL	(6)								
Noise Level Standard Package - Air Cooled		Sound Pressure - dB(A)	70		70		70		
Noise Level Standard Package - Air Cooled		Sound Power - dB(A)	85		85		85		
COOLING DATA (@ Maximum Ambient Temperatur	e & Maxir		44.0 (0	2)	44.4 (0)		44.5.70	0)	
Heat Removal (Oil Cooler)		kW (1000 Btu/hr)	11.3 (3	,	11.4 (39	,	11.5 (39)		
Heat Removal (Oil and Aftercooler)		kW (1000 Btu/hr)	13.6 (4	6)	13.6 (46	6)	13.5 (46)		
Permitted Additional Static Pressure		Pa (in H ₂ O)	40 (.1	6)	40 (.16)		40 (.16)		
Fan Air Flow		m³/min (CFM)	55 (1	942)	55 (1942)		55 (1942)		
Fan Motor Nominal Power	(16)	kW	N/A		N/A		N/A		
Cooling Air Temperature Rise @ 30°C		°C (°F)	12 (2	1)	12 (21)		12 (21)		
Aftercooler CTD	(7)	°C (°F)	8 (1	4)	8 (14)		8 (14)		
AIR END DATA									
Male Rotor Speed		RPM	2974		2777		2499		
Tip Speed Rotor		m/sec	15.73		14.69		13.22		
Full Load Shaft Power		kW	12.4		12.4			12.2	
COOLANT LUBRICATION DATA	(12)								
Total Coolant Capacity - Air Cooled		litres (US gal)	10 (2	.5)	10 (2.5)		10 (2	.5)	
	(8)		,	•	•		•	•	
PIPING CONNECTIONS	(8)		4 01 11011 (22.11.2)						
Air Discharge		Inches NPT	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)		
Coolant Drain - Hose Size		Inches NPT	1/2 INCH (FEMALE)		1/2 INCH (FEMALE)		1/2 INCH (FEMALE)		
Diameter of Power Inlet		mm (Inches)	38 (1	.5)	38 (1.5)		38 (1.5)		
DIMENSIONS AND WEIGHT									
Length, Width, Height (Base Mounted)		mm (inches)	770, 870, 1160 (30.3, 34.3, 45.7)		770, 870, 1160 (30.3, 34.3, 45.7)		770, 870, 1160 (30.3, 34.3, 45.7)		
Net Weight - Air Cooled Base Mounted		kg (lb.)	443 (977)		443 (977)		443 (977)		
GA Drawing Number - Air Cooled			47763591		47763591		47763591		
GA Drawing Number - Air Cooled		Base Mounted Receiver Mounted	477497		47749762		47749762		
ELECTRICAL DATA									
Motor Protection	(13)		TEFC, IP55		TEFC, IP55		TEFC, IP55		
Full Load Package Current - Air Cooled	(9)	Amps @ 200V	50		50	50			
. d., 2000 i donage Outron: - All Cooled		Amps @ 230V	43		43		49 43		
		•							
		Amps @ 460V	22		22		22		
		Amps @ 575V	18		18		17		
Main Motor Locked Rotor Current	(14)	Amps @ 200V	434		434		434		
		Amps @ 230V	503		503		503		
		Amps @ 460V	252		252		252		
		Amps @ 575V	220		220		220		
Package Power Factor		,pa @ 0101	0.88		0.88		0.88		
Electrical Installation	(10)			(4)	00	(4)		(4)	
Recommended Supply Cable Size	(10)	mm²/Cu (AWG) @ 200V mm²/Cu (AWG) @ 230V	22	(4)	22 22	(4)	22 22	(4)	
		111117-00 (AWO) & 230V	22	(4)	22	(4)	22	(4)	
		mm²/Cu (AWG) @ 460V	9	(8)	9	(8)	9	(8)	
		mm²/Cu (AWG) @ 575V	6	(10)	6	(10)	6	(10)	
Maximum Recommended Fuse Rating	(10)(1	1 Amps @ 200V	80		80		80		
maanan nooniinended i de namy		Amps @ 230V	70		70		70		
		Amps @ 460V	35		35		35		
		Amps @ 575V	30		30		30		

- 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. IE3 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 Parallelpiped Method; ducted inlet and outlet, with + 3 dB(A) tolerance

 7. CTD based on 10°P/38°C inlet air at 40°K Relative Humidity (For alternate conditions contact Ingersoll Rand)

 8. BSPT or NPT, depending on regional standard

 9. Maximum current includes 10% additional current due to fouled filters and elements

 10. 90°C copper cables. Always apply local electrical codes for sizing cables and system protection

 11. Time delay fuse recommended. Apply local electrical codes for fuse sizing

 12. Coolant volumes listed are approximate. See operator manual for coolant fill proceedure

 13. 60Hz (40.5%) motor voltage tolerance: (208)±10%; (220)±10%; (320)±10%; (380)-6/+10%; (440)±10%; (460)±10%; (575)-6/+10%

 15. 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

 16. Package cooling fan mounted to main drive motor shaft extension.