

ENGINEERING DATA SHEET

RSa11i Total Air System ITASI

CCN: 47724926001
Rev.: C
ECN: 1491901
Sheet: 1 of 2
Date: Oct-2023

Model			RSa11i-A103-TAS	RSa11i-A118-TAS	RSa11i-A138-TAS	
CENEDAL DEDECOMANCE DATA						
GENERAL PERFORMANCE DATA Maximum Target Operating Pressure	(2)	hara (neia)	7.1 (103)	8.1 (118)	9.5 (138)	
Rated Discharge Pressure	(-)	barg (psig)	7.1 (103) 6.9 (100)	7.9 (115)	9.5 (138)	
Minimum Operating Pressure		barg (psig) barg (psig)	5.2 (75)	5.2 (75)	5.2 (75)	
Maximum Operating Ambient Temperature		°C (°F)	40 (104)	40 (104)	40 (104)	
Minimum Operating Ambient Temperature		°C (°F)	2 (36)	2 (36)	2 (36)	
Maximum System Temperature Setting		°C (°F)	115.5 (240)	115.5 (240)	115.5 (240)	
Nominal Power - Main Motor		kW (HP)	11 (15)	11 (15)	11 (15)	
Main Motor Efficiency	(3)	%	91.0%	91.0%	91.0%	
Capacity FAD	(1)	m³/min (CFM)	1.91 (67.3)	1.76 (62.2)	1.55 (54.7)	
Package Input Power with Fan - Air Cooled	(4)(17)		13.79	13.81	13.60	
Dryer Input Power with Fan - Air Cooled	(4)	kW	1.23	1.23	1.23	
Specific Power - Air Cooled	(4)(5)(1	7 kW/m³/min (kW/100CFM)	7.24 (20.49)	7.84 (22.21)	8.78 (24.86)	
-		KT//// //IIII (KT/10001 III)	(20.10)			
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)	86	86	86	
COOLING DATA (@ Maximum Ambient Temperature	& Maxim	um Discharge Pressure)				
Heat Removal (Oil Cooler)	₩ maxill	kW (1000 Btu/hr)	11.4 (39)	12.4 (42)	12.4 (42)	
Heat Removal (Oil and Aftercooler)		kW (1000 Btu/hr)	13.8 (47)	13.8 (47)	13.7 (47)	
Heat Removal (Dryer)		kW (1000 Btu/hr)	4.2 (14)	4.2 (14)	4.2 (14)	
Permitted Additional Static Pressure		Pa (in H ₂ O)	40 (.16)	40 (.16)	40 (.16)	
Fan Air Flow (Compressor)		m³/min (CFM)	55 (1942)	55 (1942)	55 (1942)	
Fan Motor Nominal Power	(18)	kW	N/A	N/A	N/A	
Cooling Air Temperature Rise @ 30°C		°C (°F)	12 (22)	12 (22)	12 (21)	
Aftercooler CTD	(7)					
Altercooler CTD	(1)	°C (°F)	8 (14)	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	12.6	12.6	12.4	
COOLANT LUBRICATION DATA	(12)					
Total Coolant Capcity - Air Cooled		litres (US gal)	10 (2.5)	10 (2.5)	10 (2.5)	
			· ·/	· ·/	. ,	
PIPING CONNECTIONS	(8)					
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)	1522, 870, 1160 (59.9, 34.3, 45.7)	1522, 870, 1160 (59.9, 34.3, 45.7)	1522, 870, 1160 (59.9, 34.3, 45.7)	
Net Weight - Air Cooled Base Mounted		kg (lb.)	707 (1559)	707 (1559)	707 (1559)	
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GA Drawing Number - Air Cooled		Base Mounted	47763591	47763591	47763591	
		Receiver Mounted	47749762	47749762	47749762	
ELECTRICAL DATA	(13)					
Motor Protection			TEFC, IP55	TEFC, IP55	TEFC, IP55	
Full Load Package Current - Air Cooled	(9)	Amps @ 200V	50	50	50	
rui Luau rackage Culletti Ali Couleu		Amps @ 230V	44	44	43	
		• • = • •				
		Amps @ 460V	22	22	22	
		Amps @ 575V	18	18	18	
Main Motor Locked Rotor Current	(14)	Amps @ 200V	434	434	434	
Man motor Econog Notor Current		Amps @ 200V Amps @ 230V	503	503	503	
		7.1.1p0 @ 2004	***	***		
		Amps @ 460V	252	252	252	
		Amps @ 575V	220	220	220	
Packaga Power Factor		*	0.88	0.88	0.88	
Package Power Factor		Amno @ 445V	0.88	0.88 18	U.88 18	
Full Load Dryer Current - Air Cooled		Amps @ 115V	10	10	10	
Electrical Installation	(10)		00 (1)	00 (1)	00 ("	
Recommended Supply Cable Size	(10)	mm²/Cu (AWG) @ 200V	22 (4)	22 (4)	22 (4)	
		mm ² /Cu (AWG) @ 230V	22 (4)	22 (4)	22 (4)	
		mm ² /Cu (AWG) @ 460V	9 (8)	9 (8)	9 (8)	
		mm ² /Cu (AWG) @ 460V mm ² /Cu (AWG) @ 575V	9 (8) 6 (10)	9 (8) 6 (10)	9 (8) 6 (10)	
Recommended Supply Cable Size Dryer		mm ² /Cu (AWG) @ 115V	4 (12)	4 (12)	4 (12)	
Maximum Recommended Fuse Rating	(10)(11	Amps @ 200V	80	80	80	
· · · · · · · · · · · · · · · · · · ·		Amps @ 230V	70	70	70	
		Allips @ 230V				
					0.5	
		Amps @ 460V	35	35	35 30	
Maximum recommended Fuse rating dryer					35 30 20	



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RSa11i **Total Air System ITAS** CCN: Rev.: ECN: Sheet: 47724926001 C 1491901 2 of 2 Oct-2023 Date:

Refrigerated Dryer Data Refrigerant Type Refrigerant Quantity Fan Air Flow R134a REFER LABEL R134a R134a REFER LABEL Grams (Ounces) REFER LABEL m³/min (CFM) 23 (800) 23 (800)

Humidity and Liquid Water Total Oil ISO Class Particles (Particles.Humidity and Liquid Water.Oil) Filter Data [0.1 - 0.5 μ m] ≤20000 [0.5 - 1µm] ≤400 [1 - 5µm] ≤10 ≤+7 °C ≤0.1 ISO Class Data

- 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. IS3 efficiency motor
 4. Measured at ratied 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 Parallelipped Method; ducted inlet and outlet, with + 3 dB(A) tolerance
 7. CTD based on 100°F/38°C inlet air at 40°K Relative Humidity (For alternate conditions contact Ingersoil 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. Appl local electrical codes for fuse sizing
 12. Coolant volumes listed are approximate. See operator manual for coolant fill proceedure
 13. 60Hz (±0.5%) motor voltage tolerance: (208)±10%; (220)±10%; (320)±10%; (380)-64·10%; (440)±10%; (450)±10%; (575)-64·10%
 15. During the Star-Della 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
 15. TAS units deliver ISO Class 1-5.2 quality air measured at steady state conditions in accordance with ISO 8573-1:2010, with inlet air to package of 25°C (77°F) and RH of 60%
 17. Dyer power is excluded in calculation.

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