



CCN: 47843178
Rev.: D
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Model	RM111ne_A14 TAT									
GENERAL PERFORMANCE DATA										
Maximum Target Operating Pressure	(7)	barg (psig)							14.0 (203)	
Rated Discharge Pressure		barg (psig)							14.0 (203)	
Minimum Operating Pressure		barg (psig)							8.0 (116)	
Capacity FAD	(1)		Max RPM	Max	A	B	C	D	Min	Min RPM
@ 14 barg (203 psig)		m³/min (CFM)	3930	1.2 (43)	1.0 (36)	0.8 (30)	0.7 (23)	0.5 (17)	0.5 (17)	1985
@ 12.5 barg (181 psig)		m³/min (CFM)	4260	1.4 (48)	1.2 (41)	1.0 (34)	0.8 (27)	0.6 (20)	0.5 (18)	1985
@ 10 barg (145 psig)		m³/min (CFM)	4755	1.6 (57)	1.4 (48)	1.1 (40)	0.9 (31)	0.6 (23)	0.6 (20)	1985
Maximum Operating Ambient Temperature		°C (°F)				40 (104)				
Minimum Operating Ambient Temperature		°C (°F)				2 (36)				
Maximum System Temperature Setting		°C (°F)				109 (228)				
Nominal Power - Main Motor		kW (HP)				11 (15)				
Main Motor Efficiency	(3)	%				94.0%				
Main Inverter Drive Efficiency		%				97%				
Package Input Power with Fan - Air Cooled	(4)		Max RPM	Max	A	B	C	D	Min	Min RPM
@ 14 barg (203 psig)		kW (HP)	3930	13.1 (18)	11.7 (16)	10.2 (14)	8.8 (12)	7.4 (10)	7.2 (10)	1985
@ 12.5 barg (181 psig)		kW (HP)	4260	13.3 (18)	11.9 (16)	10.3 (14)	8.7 (12)	7.1 (10)	6.7 (9)	1985
@ 10 barg (145 psig)		kW (HP)	4755	13.2 (18)	11.7 (16)	9.9 (13)	8.3 (11)	6.7 (9)	5.9 (6)	1985
Specific Power - Air Cooled	(4)(5)		Max RPM	Max	A	B	C	D	Min	Min RPM
@ 14 barg (203 psig)		kW/m³/min (kW/100CFM)	3930	10.8 (30.7)	11.5 (32.5)	12.1 (34.3)	13.3 (37.7)	15.2 (43.0)	15.3 (43.4)	1985
@ 12.5 barg (181 psig)		kW/m³/min (kW/100CFM)	4260	9.8 (27.6)	10.2 (28.9)	10.7 (30.2)	11.5 (32.5)	12.9 (36.4)	13.0 (36.8)	1985
@ 10 barg (145 psig)		kW/m³/min (kW/100CFM)	4755	8.2 (23.4)	8.6 (24.3)	8.8 (24.9)	9.3 (26.4)	10.3 (29.3)	10.5 (29.9)	1985
SOUND LEVEL										
Noise Level Standard Package - Air Cooled	(6)	Sound Pressure - dB(A)				68				
Noise Level Standard Package - Air Cooled		Sound Power - dB(A)				83				
COOLING DATA (@ Maximum Ambient Temperature & Maximum Discharge Pressure)										
Heat Removal (Oil Cooler)			Max RPM	Max	A	B	C	D	Min	Min RPM
@ 14 barg (203 psig)		kW (1000 Btu/hr)	3930	10.9 (37)	9.8 (34)	8.5 (29)	7.5 (26)	6.4 (22)	6.2 (21)	1985
Heat Removal (Oil and Aftercooler)										
@ 14 barg (203 psig)		kW (1000 Btu/hr)	3930	12.0 (41)	10.8 (37)	9.4 (32)	8.1 (28)	6.8 (23)	6.7 (23)	1985
Permitted Additional Static Pressure		Pa (in H ₂ O)				0 (.00)				
Fan / Blower Airflow		m³/min (CFM)				25 (883)				
Fan / Blower Motor Nominal Power		kW				0.3				
Cooling Air Temperature Rise @ 30°C		°C (°F)				25 (45)				
Aftercooler CTD	(7)	°C (°F)				15 (27.0)				
AIR END DATA										
Male Rotor Speed		RPM				3930				
Tip Speed Rotor		m/sec				15.84				
Full Load Shaft Power		kW				11.9				



ENGINEERING DATA SHEET

RM11ne

50Hz

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Model		RM11ne_A14 TAS				
COOLANT LUBRICATION DATA						
Total Coolant Capacity - Air Cooled	litres (US gal)	6.0 (1.6)				
PIPING CONNECTIONS						
Air Discharge	Inches BSPT	0.75 INCH (FEMALE)				
Package Automatic Condensate Drain	Inches BSPT	0.375 INCH (FEMALE)				
Coolant Drain - Hose Size	Inches	0.375				
Diameter of Power Inlet	mm / (inch)	50 (2)				
DIMENSIONS AND WEIGHT						
Length, Width, Height	mm (inches)	970*719*995 (38.2*28.3*39.2)				
Net Weight - Air Cooled	kg (lb.)	246 (542)				
GA Drawing Number - Air Cooled		Base Mounted: 47841881/Receiver Mounted:47841883				
ELECTRICAL DATA						
Motor Protection	(13)	TEFC, IP66				
Motor, Number of Poles		8				
Motor Insulation Class / Temperature Rise		Class H, 180 °C				
Full Load Package Current - Air Cooled	(9)					
	Amps @ 380V	26				
	Amps @ 400V	25				
	Amps @ 415V	24				
Package Power Factor		0.85				
Electrical Installation						
Recommended Supply Cable Size	(10)					
	mm²/Cu (Kcmil) @ 380V	10 (20)				
	mm²/Cu (Kcmil) @ 400V	10 (20)				
	mm²/Cu (Kcmil) @ 415V	10 (20)				
Maximum Recommended Fuse Rating	(10)(11)					
	Amps @ 380V	63				
	Amps @ 400V	63				
	Amps @ 415V	63				
Refrigerated Dryer Data						
Refrigerant Type		R134a(Domestic)				
Refrigerant Quantity	Grams (Ounces)	250 (9)				
Fan Air Flow	m³/min (CFM)	19 (671)				
Filter Data						
ISO Class Data	ISO Class (Particles,Humidity and Liquid Water,Oil)	[0.1 - 0.5µm]	Particles [0.5 - 1µm]	[1 - 5µm]	Humidity and Liquid Water	Total Oil mg/m3
	1.4.1	≤20000	≤400	≤10	≤+3 °C	≤0.01

Notes :

- FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex E
- Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
- Equivalent to IES efficiency motor
- Measured at rated capacity and rated pressure
- Specific power guaranteed in accordance with ISO 1217 : 2009 Annex E
- 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
- Fast acting Class-J, T or semiconductor type, current limiting, and Interrupt rating-200,000 Amps RMS. Apply local electrical codes for fuse sizing.
- Coolant volumes listed are approximate. See operator manual for coolant fill procedure
- 50Hz (±2%) motor voltage tolerance: (230)±10% ; (380)-6/+10% ; (400) ±10% ; (415)-10/+6%
- TAS units deliver ISO Class 1-4-1 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%

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