



# ENGINEERING DATA SHEET

## RS260 60Hz

CCN: 47584720001  
 Rev.: D  
 ECN: 1273617  
 Sheet: 1 of 2  
 Date: Nov-2017

Model		RS260I-A110	RS260I-A125	RS260I-A145
<b>GENERAL PERFORMANCE DATA</b>				
Maximum Target Operating Pressure	<sup>(2)</sup> barg (psig)	7.6 (110)	8.6 (125)	10.0 (145)
Rated Discharge Pressure	barg (psig)	6.9 (100)	7.9 (115)	9.3 (135)
Minimum Operating Pressure	barg (psig)	4.5 (65)	4.5 (65)	4.5 (65)
Maximum Operating Ambient Temperature	°C (°F)	46 (115)	46 (115)	46 (115)
Minimum Operating Ambient Temperature	°C (°F)	2 (36)	2 (36)	2 (36)
Maximum System Temperature Setting	°C (°F)	109 (228)	109 (228)	109 (228)
Nominal Power - Main Motor	kW (HP)	261 (350)	261 (350)	261 (350)
Main Motor Efficiency	<sup>(3)</sup> %	96.2%	96.2%	96.2%
Capacity FAD	<sup>(1)</sup> m <sup>3</sup> /min (CFM)	48.2 (1702)	46.4 (1639)	43.0 (1519)
Package Input Power with Fan - Air Cooled	<sup>(4)</sup> kW	279.3	284.1	282.9
Specific Power - Air Cooled	<sup>(4)(5)</sup> kW/m <sup>3</sup> /min (kW/100CFM)	5.8 (16.4)	6.1 (17.3)	6.6 (18.6)
<b>SOUND LEVEL</b>				
Noise Level Standard Package - Air Cooled	<sup>(6)</sup> Sound Pressure - dB(A)	75	75	75
Noise Level Standard Package - Air Cooled	Sound Power - dB(A)	95	95	95
<b>COOLING DATA (@ Maximum Ambient Temperature &amp; Maximum Discharge Pressure)</b>				
Heat Removal (Oil Cooler)	kW (1000 Btu/hr)	223.3 (762)	229.3 (782)	230.7 (787)
Heat Removal (Oil and Aftercooler)	kW (1000 Btu/hr)	294.4 (1005)	298.4 (1018)	295.9 (1010)
Permitted Additional Static Pressure	Pa (in H <sub>2</sub> O)	63 (.25)	63 (.25)	63 (.25)
Fan Air Flow	m <sup>3</sup> /min (CFM)	453 (15998)	453 (15998)	453 (15998)
Fan Motor Nominal Power	kW	8.0	8.0	8.0
Cooling Air Temperature Rise @ 30°C	°C (°F)	30 (54)	31 (55)	31 (55)
Aftercooler CTD	<sup>(7)</sup> °C (°F)	10 (18)	10 (17)	9 (16)
<b>AIR END DATA</b>				
Male Rotor Speed	RPM	1523	1469	1366
Tip Speed Rotor	m/sec	26.48	25.54	23.75
Full Load Shaft Power	kW	259.2	263.8	262.7
<b>COOLANT LUBRICATION DATA</b>				
Total Coolant Capacity - Air Cooled	<sup>(12)</sup> litres (US gal)	95 (25.1)	95 (25.1)	95 (25.1)
<b>PIPING CONNECTIONS</b>				
Air Discharge	<sup>(8)</sup> Inches FLANGE	4.00 (8xM16; 7.5 IN B.C)	4.00 (8xM16; 7.5 IN B.C)	4.00 (8xM16; 7.5 IN B.C)
Package Automatic Condensate Drain	Inches NPT	.38 (FEMALE)	.38 (FEMALE)	.38 (FEMALE)
Coolant Drain - Hose Size	Inches	0.875	0.875	0.875
Diameter of Power Inlet	mm (Inches)	110 (4.3)	110 (4.3)	110 (4.3)
<b>DIMENSIONS AND WEIGHT</b>				
Length, Width, Height	mm (inches)	3752, 2150, 2504 (147.7, 84.6, 98.6)	3752, 2150, 2504 (147.7, 84.6, 98.6)	3752, 2150, 2504 (147.7, 84.6, 98.6)
Net Weight - Air Cooled	kg (lb.)	6620 (14595)	6620 (14595)	6620 (14595)
GA Drawing Number - Air Cooled		47589258	47589258	47589258
<b>ELECTRICAL DATA</b>				
Motor Protection	<sup>(13)</sup>	TEFC, IP55	TEFC, IP55	TEFC, IP55
Full Load Package Current - Air Cooled	<sup>(9)</sup>			
	Amps @ 380V	577	587	584
	Amps @ 460V	477	485	483
	Amps @ 575V	381	388	386
Main Motor Locked Rotor Current	<sup>(14)</sup>			
	Amps @ 380V	4729	4729	4729
	Amps @ 460V	3906	3906	3906
	Amps @ 575V	3350	3350	3350
Package Power Factor		0.81	0.81	0.81
<b>Electrical Installation</b>				
Recommended Supply Cable Size	<sup>(10)</sup>			
	mm <sup>2</sup> /Cu (Kcmil) @ 380V	2x400 (2x700)	2x400 (2x700)	2x400 (2x700)
	mm <sup>2</sup> /Cu (Kcmil) @ 460V	800 (1250)	800 (1250)	800 (1250)
	mm <sup>2</sup> /Cu (Kcmil) @ 575V	400 (750)	400 (750)	400 (750)
Maximum Recommended Fuse Rating	<sup>(10)(11)</sup>			
	Amps @ 380V	900	900	900
	Amps @ 460V	800	800	800
	Amps @ 575V	600	600	600



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**RS260**  
60Hz

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Model		RS260i-A110	RS260i-A125	RS260i-A145
<b>MEDIUM VOLTAGE MODEL - ELECTRICAL DATA</b>				
Motor Protection		IP55	IP55	IP55
Main Motor Current - Air Cooled				
	Amps @ 2300V	99	99	99
	Amps @ 4160V	57	57	57
Main Motor Locked Rotor Current				
	Amps @ 2300V	545	545	545
	Amps @ 4160V	302	302	302
Blower Motor Current - Air Cooled				
	Amps @ 380V	19	19	19
	Amps @ 460V	16	16	16
	Amps @ 575V	13	13	13
<b>DIMENSIONS AND WEIGHT</b>				
Length, Width, Height	mm (inches)	4577, 2150, 2504 (180.2, 84.6, 98.6)	4577, 2150, 2504 (180.2, 84.6, 98.6)	4577, 2150, 2504 (180.2, 84.6, 98.6)
Net Weight - Air Cooled	kg (lb.)	8314 (18329)	8314 (18329)	8314 (18329)
GA Drawing Number - Air Cooled		47589260	47589260	47589260

**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 Hemispherical Method; ducted inlet and outlet, with + 3 dB(A) tolerance
7. CTD based on 100°F/38°C inlet air at 40% 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 procedure
13. 60Hz (±0.5%) motor voltage tolerance: (208)±10% ; (220)±10% ; (230)±10% ; (380)-6/+10% ; (440) ±10% ; (460) ±10% ; (575) -6/+10%
14. Star-Delta starting current inrush is about 33% of direct starting current
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

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