



ENGINEERING DATA SHEET

RS260
60Hz

CCN: 47584723001
Rev.: E
ECN: 1293681
Sheet: 1 of 2
Date: May-2018

Model	RS260ie-W110	RS260ie-W125	RS260ie-W145	RS260ie-W200
GENERAL PERFORMANCE DATA				
Maximum Target Operating Pressure	(2) 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) 46 (115)	46 (115)	46 (115)	46 (115)
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) 261 (350)	261 (350)	261 (350)	261 (350)
Main Motor Efficiency	% 96.2%	96.2%	96.2%	96.0%
Capacity FAD	(1) m ³ /min (CFM) 52.1 (1840)	50.4 (1780)	45.9 (1621)	39.6 (1398)
Package Input Power with Fan - Water Cooled	(4) kW 279.7	289.2	285.0	294.1
Specific Power - Water Cooled	(4)(5) kW/m ³ /min (kW/100CFM) 5.4 (15.2)	5.7 (16.2)	6.2 (17.6)	7.4 (21.0)
SOUND LEVEL				
Noise Level Standard Package - Water Cooled	(6) Sound Pressure - dB(A) 75	75	75	75
Noise Level Standard Package - Water Cooled	Sound Power - dB(A) 95	95	95	95
COOLING DATA (@ Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)	kW (1000 Btu/hr) 229.1 (782)	239.5 (817)	238.9 (815)	251.6 (858)
Heat Removal (Oil and Aftercooler)	kW (1000 Btu/hr) 309.5 (1056)	317.3 (1083)	309.7 (1057)	312.7 (1067)
Permitted Additional Static Pressure	Pa (in H ₂ O) 0 (.00)	0 (.00)	0 (.00)	0 (.00)
Fan Air Flow	m ³ /min (CFM) 142 (5015)	142 (5015)	142 (5015)	142 (5015)
Fan Motor Nominal Power	kW 1.1	1.1	1.1	1.1
Cooling Air Temperature Rise @ 30°C	°C (°F) 10 (18)	10 (18)	10 (18)	10 (18)
Cooling Water Temperature Rise @ 30°C	°C (°F) 20 (36)	20 (36)	20 (36)	20 (36)
Cooling Water Flow	(16) l/min (US gal/min)			
@ 10 °C (50 °F)	126.3 (33.4)	130.9 (34.6)	129.9 (34.3)	132.5 (35.0)
@ 20 °C (68 °F)	168.4 (44.5)	174.5 (46.1)	173.2 (45.7)	176.6 (46.7)
@ 30 °C (86 °F)	292.0 (77.1)	283.3 (74.8)	248.9 (65.7)	220.5 (58.3)
@ 40 °C (104 °F)	336.3 (88.8)	328.3 (86.7)	281.7 (74.4)	244.6 (64.6)
@ 46 °C (115 °F)	378.1 (99.9)	370.1 (97.6)	314.4 (83.1)	270.6 (71.5)
Cooling Water Max Pressure	bar (psi) 9 (135)	9 (135)	9 (135)	9 (135)
Cooling Water Min Pressure	bar (psi) 1 (15)	1 (15)	1 (15)	1 (15)
Cooling Water Pressure Drop	bar (psi) 0 (6)	0 (6)	0 (4)	0 (3)
Aftercooler CTD	(7) °C (°F) 8 (15)	8 (15)	8 (15)	8 (15)
AIR END DATA				
STG1 Male Rotor Speed	RPM 1468	1425	1297	1106
STG1 Rotor Tip Speed	m/sec 25.52	24.77	22.55	19.23
STG2 Male Rotor Speed	RPM 1705	1650	1493	1262
STG2 Rotor Tip Speed	m/sec 22.94	22.20	20.09	16.98
Full Load Shaft Power	kW 267.9	277.0	273.0	281.0
COOLANT LUBRICATION DATA				
Total Coolant Capacity - Water Cooled	(12) litres (US gal) 129 (34.1)	129 (34.1)	129 (34.1)	129 (34.1)
PIPING CONNECTIONS				
Air Discharge	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)	4.00 (8xM16; 7.5 IN B.C)
Package Automatic Condensate Drain	Inches NPT .38 (FEMALE)	.38 (FEMALE)	.38 (FEMALE)	.38 (FEMALE)
Coolant Drain - Hose Size	Inches 0.875	0.875	0.875	0.875
Diameter of Power Inlet	mm (Inches) 110 (4.3)	110 (4.3)	110 (4.3)	110 (4.3)
Water Inlet and Outlet Connections	Inches NPT 2.00 (FEMALE)	2.00 (FEMALE)	2.00 (FEMALE)	2.00 (FEMALE)
DIMENSIONS AND WEIGHT				
Length, Width, Height	mm (inches) 4320, 2150, 2504 (170.1, 84.6, 98.6)	4320, 2150, 2504 (170.1, 84.6, 98.6)	4320, 2150, 2504 (170.1, 84.6, 98.6)	4320, 2150, 2504 (170.1, 84.6, 98.6)
Net Weight - Water Cooled	kg (lb.) 7700 (16976)	7700 (16976)	7700 (16976)	7700 (16976)
GA Drawing Number - Water Cooled	47589259	47589259	47589259	47589259
ELECTRICAL DATA				
Motor Protection	(13) TEFC, IP55	TEFC, IP55	TEFC, IP55	TEFC, IP55
Full Load Package Current - Water Cooled	(9)			
	Amps @ 380V 578	597	589	607
	Amps @ 460V 478	494	487	502
	Amps @ 575V 382	395	389	402
Main Motor Locked Rotor Current	(14)			
	Amps @ 380V 4729	4729	4729	4729
	Amps @ 460V 3906	3906	3906	3906
	Amps @ 575V 3350	3350	3350	3350
Package Power Factor	0.81	0.81	0.81	0.81
Electrical Installation				
Recommended Supply Cable Size	(10)			
	mm ² /Cu (Kcmil) @ 380V 2x400 (2x700)	2x400 (2x700)	2x400 (2x700)	2x400 (2x700)
	mm ² /Cu (Kcmil) @ 460V 800 (1250)	800 (1250)	800 (1250)	800 (1250)
	mm ² /Cu (Kcmil) @ 575V 400 (750)	400 (750)	400 (750)	400 (750)
Maximum Recommended Fuse Rating	(10)(11)			
	Amps @ 380V 900	900	900	900
	Amps @ 460V 800	800	800	800
	Amps @ 575V 600	600	600	600



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Model		RS260ie-W110	RS260ie-W125	RS260ie-W145	RS260ie-W200
MEDIUM VOLTAGE MODEL - ELECTRICAL DATA					
Motor Protection		IP55	IP55	IP55	IP55
Main Motor Current - Water Cooled					
	Amps @ 2300V	99	99	99	99
	Amps @ 4160V	57	57	57	57
Main Motor Locked Rotor Current					
	Amps @ 2300V	545	545	545	545
	Amps @ 4160V	302	302	302	302
Fan Motor Current - Water Cooled					
	Amps @ 380V	3	3	3	3
	Amps @ 460V	3	3	3	3
	Amps @ 575V	2	2	2	2
DIMENSIONS AND WEIGHT					
Length, Width, Height	mm (inches)	5140, 2150, 2504 (202.4, 84.6, 98.6)	5140, 2150, 2504 (202.4, 84.6, 98.6)	5140, 2150, 2504 (202.4, 84.6, 98.6)	5140, 2150, 2504 (202.4, 84.6, 98.6)
Net Weight - Water Cooled	kg (lb.)	9403 (20730)	9403 (20730)	9403 (20730)	9403 (20730)
GA Drawing Number - Water Cooled		47589261	47589261	47589261	47589261

- 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.