ENGINEERING DATA SHEET

RS260

60Hz

CCN:	47584722001
Rev.:	D
ECN:	1273617
Sheet:	1 of 2
Date:	Nov-2017

Model			RS260ie-A110	RS260ie-A125	RS260ie-A145	RS260ie-A200
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	(3)	%	96.2%	96.2%	96.2%	96.2%
Capacity FAD	(1)	m^3/min (CFM)	52.1 (1840)	50.4 (1780)	45.9 (1621)	39.6 (1398)
Package Input Power with Fan - Air Cooled	(4)	kW	288.3	297.8	293.6	301.9
Specific Power - Air Cooled	(4)(5)	kW/m^3/min (kW/100CFM)	5.5 (15.7)	5.9 (16.7)	6.4 (18.1)	7.6 (21.6)
SOUND LEVEL	(6)					
Noise Level Standard Package - Air Cooled		Sound Pressure - dB(A)	75	75	75	75
Noise Level Standard Package - Air 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)	311.0 (1061)	318.9 (1088)	311.6 (1063)	314.8 (1074)
Permitted Additional Static Pressure		Pa (in H_2O)	63 (.25)	63 (.25)	63 (.25)	63 (.25)
Fan Air Flow		m^3/min (CFM)	453 (15998)	453 (15998)	453 (15998)	453 (15998)
Fan Motor Nominal Power		kW	8.0	8.0	8.0	8.0
Cooling Air Temperature Rise @ 30°C		°C (°F)	31 (56)	32 (58)	32 (57)	33 (59)
Aftercooler CTD	(7)	°C (°F)	7 (13)	7 (13)	7 (12)	6 (12)
AIR END DATA						
STG1 Male Rotor Speed		RPM	1468	1425	1297	1106
STG1 Rotor Tip Speed		m/sec	26.83	26.04	23.70	20.21
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	(12)					
Total Coolant Capacity - Air Cooled		litres (US gal)	121 (32.0)	121 (32.0)	121 (32.0)	121 (32.0)
PIPING CONNECTIONS	(8)					
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)
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 - Air Cooled		kg (lb.)	7895 (17405)	7895 (17405)	7895 (17405)	7895 (17405)
GA Drawing Number - Air Cooled			47589259	47589259	47589259	47589259
ELECTRICAL DATA	(13)					
Motor Protection			TEFC, IP55	TEFC, IP55	TEFC, IP55	TEFC, IP55
Full Load Package Current - Air Cooled	(9)					
		Amps @ 380V	595	615	606	623
		Amps @ 460V	492	508	501	515
		Amps @ 575V	394	407	401	412
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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MEDIUM VOLTAGE MODEL - ELECTRICAL DATA					
Motor Protection		IP55	IP55	IP55	IP55
Main Motor Current - Air 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
Blower Motor Current - Air Cooled					
	Amps @ 380V	19	19	19	19
	Amps @ 460V	16	16	16	16
	Amps @ 575V	13	13	13	13
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 - Air Cooled	kg (lb.)	9598 (21160)	9598 (21160)	9598 (21160)	9598 (21160)
GA Drawing Number - Air Cooled		47589261	47589261	47589261	47589261

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 Canada, CTD of CRN Cooler is 12.5°C (22°F) (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 (±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