



ENGINEERING DATA SHEET

RS200 60Hz

CCN: 47590675001
 Rev.: C
 ECN: 1267546
 Sheet: 1 of 2
 Date: Sep-2017

Model **RS200n-A145**

GENERAL PERFORMANCE DATA

Maximum Target Operating Pressure	(2)	barg (psig)		10.0 (145)						
Rated Discharge Pressure		barg (psig)		10.0 (145)						
Minimum Operating Pressure		barg (psig)		4.5 (65)						
Capacity FAD	(1)		<i>Max RPM</i>	Max	A	B	C	D	Min	<i>Min RPM</i>
@ 10 barg (145 psig)		m ³ /min (CFM)	1394	33.2 (1172)	31.4 (1109)	28.0 (989)	24.1 (851)	20.5 (724)	16.8 (593)	755
@ 9.3 barg (135 psig)		m ³ /min (CFM)	1470	35.1 (1240)	32.6 (1151)	28.7 (1014)	24.7 (872)	20.8 (735)	16.9 (597)	755
@ 8.6 barg (125 psig)		m ³ /min (CFM)	1544	37.0 (1307)	34.7 (1225)	30.2 (1067)	25.6 (904)	21.1 (745)	16.9 (597)	755
@ 7.9 barg (115 psig)		m ³ /min (CFM)	1617	39.1 (1381)	36.3 (1282)	31.5 (1112)	26.6 (939)	21.8 (770)	16.9 (597)	755
@ 7.6 barg (110 psig)		m ³ /min (CFM)	1652	39.8 (1406)	37.2 (1314)	32.1 (1134)	27.0 (953)	21.9 (773)	16.9 (597)	755
@ 6.9 barg (100 psig)		m ³ /min (CFM)	1722	41.6 (1469)	38.5 (1360)	33.1 (1169)	27.7 (978)	22.4 (791)	16.9 (597)	755
Maximum Operating Ambient Temperature		°C (°F)				46 (115)				
Minimum Operating Ambient Temperature		°C (°F)				2 (36)				
Maximum System Temperature Setting		°C (°F)				109 (228)				
Nominal Power - Main Motor		kW (HP)				200 (268)				
Main Motor Efficiency	(3)	%				96.0%				
Main Inverter Drive Efficiency		%				97.0%				
Package Input Power with Fan - Air Cooled	(4)		<i>Max RPM</i>	Max	A	B	C	D	Min	<i>Min RPM</i>
@ 10 barg (145 psig)		kW (HP)	1394	229.2 (307)	217.0 (291)	194.2 (260)	172.1 (231)	148.7 (199)	128.5 (172)	755
@ 9.3 barg (135 psig)		kW (HP)	1470	233.4 (313)	216.6 (291)	191.2 (256)	169.3 (227)	144.6 (194)	123.0 (165)	755
@ 8.6 barg (125 psig)		kW (HP)	1544	236.4 (317)	221.9 (298)	193.0 (259)	167.8 (225)	140.1 (188)	117.7 (158)	755
@ 7.9 barg (115 psig)		kW (HP)	1617	240.2 (322)	222.8 (299)	192.8 (258)	166.5 (223)	137.9 (185)	112.2 (150)	755
@ 7.6 barg (110 psig)		kW (HP)	1652	239.9 (322)	224.0 (300)	192.7 (258)	165.2 (222)	135.4 (182)	109.5 (147)	755
@ 6.9 barg (100 psig)		kW (HP)	1722	240.9 (323)	222.4 (298)	190.2 (255)	161.9 (217)	131.7 (177)	104.3 (140)	755
Specific Power - Air Cooled	(4)(5)		<i>Max RPM</i>	Max	A	B	C	D	Min	<i>Min RPM</i>
@ 10 barg (145 psig)		kW/m ³ /min (kW/100CFM)	1394	6.9 (19.5)	6.9 (19.6)	6.9 (19.6)	7.1 (20.2)	7.3 (20.5)	7.6 (21.7)	755
@ 9.3 barg (135 psig)		kW/m ³ /min (kW/100CFM)	1470	6.6 (18.8)	6.6 (18.8)	6.7 (18.9)	6.9 (19.4)	7.0 (19.7)	7.3 (20.6)	755
@ 8.6 barg (125 psig)		kW/m ³ /min (kW/100CFM)	1544	6.4 (18.1)	6.4 (18.1)	6.4 (18.1)	6.6 (18.6)	6.6 (18.8)	7.0 (19.7)	755
@ 7.9 barg (115 psig)		kW/m ³ /min (kW/100CFM)	1617	6.1 (17.4)	6.1 (17.4)	6.1 (17.3)	6.3 (17.7)	6.3 (17.9)	6.6 (18.8)	755
@ 7.6 barg (110 psig)		kW/m ³ /min (kW/100CFM)	1652	6.0 (17.1)	6.0 (17.1)	6.0 (17.0)	6.1 (17.3)	6.2 (17.5)	6.5 (18.3)	755
@ 6.9 barg (100 psig)		kW/m ³ /min (kW/100CFM)	1722	5.8 (16.4)	5.8 (16.4)	5.7 (16.3)	5.8 (16.5)	5.9 (16.7)	6.2 (17.5)	755

SOUND LEVEL

Noise Level Standard Package - Air Cooled	(6)	Sound Pressure - dB(A)		75
Noise Level Standard Package - Air Cooled		Sound Power - dB(A)		95

COOLING DATA (@ Maximum Ambient Temperature & Maximum Discharge Pressure)

Heat Removal (Oil Cooler)			<i>Max RPM</i>	Max	A	B	C	D	Min	<i>Min RPM</i>
@ 10 barg (145 psig)		kW (1000 Btu/hr)	1394	184.4 (629)	174.4 (595)	155.9 (532)	135.3 (462)	116.5 (398)	98.1 (335)	755
Heat Removal (Oil and Aftercooler)										
@ 10 barg (145 psig)		kW (1000 Btu/hr)	1394	235.3 (803)	222.6 (759)	198.8 (678)	172.3 (588)	147.9 (505)	123.9 (423)	755
Permitted Additional Static Pressure		Pa (in H ₂ O)				63 (.25)				
Fan / Blower Airflow		m ³ /min (CFM)				453 (15998)				
Fan / Blower Motor Nominal Power		kW				8.0				
Cooling Air Temperature Rise @ 30°C		°C (°F)				24 (44)				
Aftercooler CTD	(7)	°C (°F)				10 (18)				

AIR END DATA

Male Rotor Speed		RPM		1062
Tip Speed Rotor		m/sec		18.47
Full Load Shaft Power		kW		209.1



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Model		RS200n-A145
COOLANT LUBRICATION DATA		
Total Coolant Capacity - Air Cooled	litres (US gal)	95.0 (25.1)
PIPING CONNECTIONS		
Air Discharge	Inches Flange	4.00 (8xM16; 7.5 IN B.C)
Package Automatic Condensate Drain	Inches NPT	.38 (FEMALE)
Coolant Drain - Hose Size	Inches	0.875
Diameter of Power Inlet	mm / (inches)	110 (4.3)
DIMENSIONS AND WEIGHT		
Length, Width, Height	mm (inches)	3752, 2150, 2504 (147.7, 84.6, 98.6)
Net Weight - Air Cooled	kg (lb.)	6841 (15082)
GA Drawing Number - Air Cooled		47589258
ELECTRICAL DATA ⁽¹³⁾		
Motor Protection		TEFC, IP55
Motor, Number of Poles		4
Motor Insulation Class / Temperature Rise		Class F, 155 °C
Full Load Package Current - Air Cooled	⁽⁹⁾	
	Amps @ 380V	436
	Amps @ 460V	361
	Amps @ 575V	289
Package Power Factor		0.90
Electrical Installation		
Recommended Supply Cable Size	⁽¹⁰⁾	
	mm ² /Cu (Kcmil) @ 380V	800 (1500)
	mm ² /Cu (Kcmil) @ 460V	500 (900)
	mm ² /Cu (Kcmil) @ 575V	400 (600)
Maximum Recommended Fuse Rating	⁽¹⁰⁾⁽¹¹⁾	
	Amps @ 380V	1000
	Amps @ 460V	1000
	Amps @ 575V	700

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 IE3 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
- 60Hz (±0.5%) motor voltage tolerance: (208)±10% ; (220)±10% ; (230)±10% ; (380)-6/+10% ; (440) ±10% ; (460) ±10% ; (575) -6/+10%

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