

**CCN:** 48775555  
**Rev.:** C ECO 1019110  
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**Date:** 16th December 2015  
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**Point of Manufacture - Campbellsville, Kentucky USA**  
**SSR UP6S-20-125HA , UP6S-20-145HA , UP6S-20-200HA**  
**60 HERTZ ENGINEERING DATA**

Model		20-125HA	20-145HA	20-200HA
<b>GENERAL COMPRESSOR DATA</b>				
Capacity (Ref. Intake Cond.) FAD (1)	cfm (m <sup>3</sup> /min)	77 (2.1)	67 (1.9)	58 (1.64)
Maximum Operating Pressure	psig (barg)	125 (8.5)	145 (10.0)	200 (13.8)
Minimum Operating Pressure	psig (barg)	65 (4.5)	65 (4.5)	65 (4.5)
Maximum Operating Temperature	°F (°C)	122 (50)	122 (50)	122 (50)
Minimum Operating Temperature	°F (°C)	36 (2)	36 (2)	36 (2)

<b>SOUND LEVEL (2)</b>				
Base mounted Enclosed	dB(A)	68	68	68

<b>COOLING DATA</b>				
<b>Air-cooled (Ambient Temperature 122°F/50°C)</b>				
Rated Airend Discharge temperature	°F (°C)	205 (96)	202 (94)	197 (92)
A/E Injection Temperature	°F (°C)	180 (82)	180 (82)	180 (82)
Aftercooler - Inlet (3)	°F (°C)	182 (83)	179 (82)	179 (82)
Aftercooler - Outlet	°F (°C)	130 (53.3)	126 (53.3)	124 (53.3)
Heat Removal Oil Cooler	1000 Btu/hr (kW)	41.8 (12.3)	49.6 (14.5)	51.3 (15)
Heat Removal Oil and Aftercooler	1000 Btu/hr (kW)	56.0 (16.4)	56.0 (16.4)	56.0 (16.4)
Heat Removal Dryer Condenser (max)	1000 Btu/hr (kW)	6.3 (1.8)	6.3 (1.8)	6.3 (1.8)
Oil Flow	US gpm (lpm)	7.0 (26.5)	9.2 (34.7)	12.2 (46.1)
Fan Air Flow	cfm (m <sup>3</sup> /min)	2100 (59.5)	2100 (59.5)	2100 (59.5)
Dryer Fan Air Flow	cfm (m <sup>3</sup> /min)	420 (11.9)	420 (11.9)	420 (11.9)
Cooling Air CTD	°F (°C)	24 (13)	24 (13)	24 (13)
Aftercooler CTD ( 3 )	°F (°C)	26 (14)	22 (12)	20 (11)

<b>CONSTRUCTION FOUNDATION AND MOUNTING DATA</b>		
Base mounted - see installation drawing		48775159
120 Gal receiver mounted - see installation drawing		48775175
240 Gal receiver mounted - see installation drawing		48775183

<b>PIPING CONNECTIONS</b>				
Air Discharge Base Mount	Inches NPT	1.0	1.0	1.0
Air Discharge from Receiver	Inches NPT	1.0	1.0	1.0
Coolant Drain	Ball Valve -Inch NPT	¼	¼	¼
Power Inlet	Inches	1¼	1¼	1¼
Package Condensate Drain	Inches	¼	¼	¼

<b>COOLANT LUBRICATION DATA</b>				
Coolant Sump Capacity	US Gal	1.82 ( 7.0 )	1.82 ( 7.0 )	1.82 ( 7.0 )
Total coolant fill capacity	US Gal	3.38 ( 13.0 )	3.38 ( 13.0 )	3.38 ( 13.0 )

<b>DIMENSIONS</b>		<b>Base Mounted</b>	<b>120 Gal Rec</b>	<b>240 Gal Rec</b>
length, width, height	Inches	52 / 36 / 42.5	77.5 / 36 / 71	94 / 36 / 76.5
	mm	1321/ 914/ 1080	1962/ 914/ 1796	2390/ 914/ 1940
With Optional Dryer	Inches	67 / 36 / 42.5	77.5 / 36 / 72	95 / 36 / 76.5
	mm	1702/ 914/ 1080	1962/ 914/ 1797	2390/ 914/ 1941

<b>SHIPPING DATA - NET WEIGHTS</b>		<b>Base Mounted</b>	<b>120 Gal Rec</b>	<b>240 Gal Rec</b>
	lb. (kg)	1203 ( 547 )	1530 ( 694 )	1799 ( 816 )
With Optional Dryer	lb. (kg)	1428 ( 649 )	1755 ( 798 )	2025 ( 920 )

SSR  
UP SERIES



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AIREND DATA

Rotor Diameter ( male )	inches	4.21	4.21	4.21
Male Rotor Speed	rpm	3114	2826	2337
Tip Speed	ft/sec	57.2	51.9	43

ELECTRICAL DATA - ALL UNITS SSR UP6S-20HA

		208v	230v	380v	460v	575v
Nominal Power - Driver	hp	20.0	20.0	20.0	20.0	20.0
Rated Power - Fan	hp	Main Motor Driven	Main Motor Driven	Main Motor Driven	Main Motor Driven	Main Motor Driven
Applied Power at maximum pressure - Full Package	hp	22.0	22.0	22.0	22.0	22.0
		TEFC	TEFC	TEFC	TEFC	TEFC
<b>Motor Enclosure</b>						
Nominal Current - Drive Motor ( 8 )	Amps	56.5	53.0	31.9	26.3	21.2
Package Current - maximum pressure	Amps	62.7	58.8	35.4	29.2	23.5
Drive Motor RPM		1770-1775	1770-1775	1775	1770-1775	1775
Drive Motor Frame		180 M	180 M	180 M	180 M	180 M
Drive Motor Full Voltage Locked Rotor Amps (star) ( 5 )		165	150	100	83	66
Drive Motor Efficiency ( 10 )		0.924-0.926	0.924-0.926	0.926	0.924-0.926	0.926
Drive Motor Power Factor ( 10 )		0.84-0.81	0.84-0.81	0.81	0.84-0.81	0.81
Test certificate number		TBA	TBA	TBA	TBA	TBA
<b>Dryer electrical data</b>						
Full Load Current	115-1-60					
Starting Current	12.3					
	48.8					
<b>Electrical Installation</b>						
Mains Supply Cable ( 8 )	Gage	4	4	6	10	10
Suggested Fuse Rating	Amps	90	80	50	40	35
Recommended wire Size - Dryer (8) (13)	14 AWG					

Refrigerated Dryer Data

		ISO Class	
Pressure Dew Point ISO Class (12)	°C (°F)	6	8°C (46°F)
Refrigerant weight of R-134a	Grams / (Oz)		320/(11.6)

Filter Data

Primary filter detail - at 21°C ( 70°F )	Particulate		Liquid	
	ISO Class	Filtration	ISO Class	Filtration
	3	0.1 micron	3	0.6 mg/m <sup>3</sup> (0.5 ppm)

Pressure Drop data by operating pressure

	barG / (psig)	8.6	125	10.0	145	13.8	200
Dryer Pressure Drop	barG / (psig)	0.23	3.3	0.15	2.2	0.07	1
Primary filter wet pressure drop	barG / (psig)	0.11	1.5	0.10	1.4	0.09	1.2
Total Pressure Drop (11) For ISO Class 3.6.3 air	barG / (psig)	0.34	4.80	0.25	3.60	0.16	2.20

Notes :

- ( 1 ) FAD ( Free Air Delivery ) is full package performance including all losses. Tested in accordance with ISO 1217 : 1996 Annex C.
- ( 2 ) Measured in free field conditions in accordance with ISO 2151; 2004 annex C, with + 3 dB(A) tolerance.
- ( 3 ) 40% Relative Humidity Inlet Air
- ( 4 ) Predicted CAT cell data at rated discharge pressure.
- ( 5 ) Star Delta Inrush excluding transient spike.
- ( 8 ) This is a minimum requirement based on 90°C wire - It may be necessary to use larger cables to comply with local regulations or if the voltage drop exceeds 5% of the nominal voltage.
- ( 10 ) Measured at nominal motor power
- ( 11 ) Total package including compressor, integral dryer with pre and final compressed air filters
- ( 12 ) Dew point measured in accordance with ISO 8573-1:2001. With inlet air to package of 25°C (77 °F) and RH at 60%
- ( 13 ) Always apply local electrical codes for sizing cables and fusing