

**CCN:** 49156722  
**Rev.:** B ECO 1019110  
**Ref.:** 9904  
**Page:** 106  
**Date:** 16th December 2015  
**Cancels:** 29th June 2015

Point of Manufacture - Campbellsville, Kentucky USA  
 SSR UP6S-15-125HA , UP6S-15-145HA  
 60 HERTZ ENGINEERING DATA

Model		15-125HA	15-145HA
<b>GENERAL COMPRESSOR DATA</b>			
Capacity (Ref. Intake Cond.) FAD (1)	cfm (m <sup>3</sup> /min)	65 (1.85)	58 (1.64)
Maximum Operating Pressure	psig (barg)	125 (8.5)	145 (10.0)
Minimum Operating Pressure	psig (barg)	65 (4.5)	65 (4.5)
Maximum Operating Temperature	°F ( °C )	122 (50)	122 (50)
Minimum Operating Temperature	°F ( °C )	36 (2)	36 (2)

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

<b>COOLING DATA</b>			
<b>Air-cooled (Ambient Temperature 122°F/50°C)</b>			
Rated Airend Discharge temperature	°F (°C)	199 (93)	196 (91)
A/E Injection Temperature	°F (°C)	180 (82)	180 (82)
Aftercooler - Inlet (3)	°F (°C)	172 (78)	172 (78)
Aftercooler - Outlet	°F (°C)	126 (52)	123 (52)
Heat Removal Oil Cooler	1000 Btu/hr (kW)	32.2 (9.4)	37.9 (11.1)
Heat Removal Oil and Aftercooler	1000 Btu/hr (kW)	42.0 (12.3)	42.0 (12.3)
Heat Removal Dryer Condenser (max)	1000 Btu/hr (kW)	6.3 (1.8)	6.3 (1.8)
Oil Flow	US gpm (lpm)	7.0 (26.5)	9.2 (34.7)
Fan Air Flow	cfm (m <sup>3</sup> /min)	1770 (50.1)	1770 (50.1)
Dryer Fan Air Flow	cfm (m <sup>3</sup> /min)	420 (11.9)	420 (11.9)
Cooling Air CTD	°F (°C)	27 (15)	27 (15)
Aftercooler CTD ( 3 )	°F (°C)	26 (14)	22 (12)

<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
Air Discharge from Receiver	Inches NPT	1.0	1.0
Coolant Drain	Ball Valve -Inch NPT	¼	¼
Power Inlet	Inches	1¼	1¼

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

<b>DIMENSIONS</b>		Base Mounted	120 Gal Rec	240 Gal Rec
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>		Base Mounted	120 Gal Rec	240 Gal Rec
	lb. (kg)	1183 ( 538 )	1510 ( 685 )	1779 ( 807 )
With Optional Dryer	lb. (kg)	1408 (640)	1735 (789)	2004 (911)

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**AIREND DATA**

Rotor Diameter ( male )	inches	4.21	4.21
Male Rotor Speed	rpm	2335	2093
Tip Speed	ft/sec	42.92	38.47

**ELECTRICAL DATA - ALL UNITS SSR UP6S-15HA**

		208v	230v	380v	460v	575v
Nominal Power - Driver	hp	15.0	15.0	15.0	15.0	15.0
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	16.5	16.5	16.5	16.5	16.5
		TEFC	TEFC	TEFC	TEFC	TEFC
<b>Motor Enclosure</b>						
Nominal Current - Drive Motor ( 8 )	Amps	44.9	42.1	25.4	21.0	16.8
Package Current - maximum pressure	Amps	49.9	46.7	28.2	23.3	18.6
Drive Motor RPM		1770-1775	1770-1775	1775	1770-1775	1775
Drive Motor Frame		160 L	160 L	160 L	160 L	160 L
Drive Motor Full Voltage Locked Rotor Amps (star) ( 5 )		140	128	85	70	56
Drive Motor Efficiency ( 10 )		0.917-0.92	0.917-0.92	0.92	0.917-0.92	0.92
Drive Motor Power Factor ( 10 )		0.83-0.80	0.83-0.80	0.80	0.83-0.80	0.80
Test certificate number		TBA	TBA	TBA	TBA	TBA

**Electrical Installation**

Mains Supply Cable ( 8 )	Gage	4	4	10	10	10
Suggested Fuse Rating	Amps	90	80	40	40	35

**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**

	CCN	Particulate		Liquid	
		ISO Class	Filtration	ISO Class	Filtration
Primary filter detail - at 21°C ( 70°F )	85570588	3	0.1 micron	3	0.6 mg/m <sup>3</sup> (0.5 ppm)

**Pressure Drop data by operating pressure**

		barG	psig	barG	psig	barG	psig
Dryer Pressure Drop	barG / (psig)	8.6	125	10.0	145	13.8	200
Primary filter wet pressure drop	barG / (psig)	0.22	3.2	0.14	2.0	0.06	0.8
Total Pressure Drop (11) For ISO Class 3.6.3 air	barG / (psig)	0.10	1.4	0.09	1.3	0.08	1.2
		0.32	4.6	0.23	3.3	0.14	2.0

**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