

**CCN:** 48775530  
**Rev.:** C ECO 1019110  
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**Date:** 16th December 2015  
**Cancels:** 29th June 2015

Point of Manufacture - Campbellsville, Kentucky USA  
 SSR UP6S-30-125 , UP6S-30-145 , UP6S-30-200  
 60 HERTZ ENGINEERING DATA

Model		30-125	30-145	30-200
<b>GENERAL COMPRESSOR DATA</b>				
Capacity (Ref. Intake Cond.) FAD (1)	cfm (m <sup>3</sup> /min)	117 (3.31)	112 (3.17)	92 (2.61)
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 )	105 (40)	105 (40)	105 (40)
Minimum Operating Temperature	°F ( °C )	36 (2)	36 (2)	36 (2)

<b>SOUND LEVEL (2)</b>				
Base mounted Enclosed	dB(A)	69	69	69

<b>COOLING DATA</b>				
<b>Air-cooled (Ambient Temperature 40°C/105°F)</b>				
Rated Airend Discharge temperature	°F (°C)	215 (102)	210 (99)	205 (96)
A/E Injection Temperature	°F (°C)	183 (84)	183 (84)	183 (84)
Aftercooler - Inlet (3)	°F (°C)	205 (96)	198 (92)	198 (92)
Aftercooler - Outlet	°F (°C)	130 (54)	126 (52)	124 (51)
Heat Removal Oil Cooler	1000 Btu/hr (kW)	73.3 (21.5)	74.5 (21.8)	76.5 (22.4)
Heat Removal Oil and Aftercooler	1000 Btu/hr (kW)	84.0 (24.6)	84.0 (24.6)	84.0 (24.6)
Heat Removal Dryer Condenser (max)	1000 Btu/hr (kW)	8.9 (2.6)	8.9 (2.6)	8.9 (2.6)
Oil Flow	US gpm (lpm)	9.2 (34.8)	11.1 (42)	14.0 (53)
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)	620 (17.5)	620 (17.5)	620 (17.5)
Cooling Air CTD	°F (°C)	34.5 (19.5)	34.5 (19.5)	34.5 (19.5)
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)	1290 ( 586 )	1616 ( 733 )	1885 ( 855 )
With Optional Dryer	lb. (kg)	1536 ( 698 )	1862 ( 846 )	2130 ( 968 )

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60 HERTZ ENGINEERING DATA

Model		30-125	30-145	30-200
<b>AIREND DATA</b>				
Rotor Diameter ( male )	inches	4.21	4.21	4.21
Male Rotor Speed	rpm	4545	4179	3546
Tip Speed	ft/sec	83.5	76.8	65.2

ELECTRICAL DATA - ALL UNITS SSR UP6S-30		208v	230v	380v	460v	575v
Nominal Power - Driver	hp	30.0	30.0	30.0	30.0	30.0
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	33.0	33.0	33.0	33.0	33.0
		TEFC	TEFC	TEFC	TEFC	TEFC
<b>Motor Enclosure</b>						
Nominal Current - Drive Motor ( 8 )	Amps	79.6	74.5	45.1	37.3	29.8
Package Current - maximum pressure	Amps	88.4	82.7	50.1	41.4	33.1
Drive Motor RPM		1770-1775	1770-1775	1775	1770-1775	1775
Drive Motor Frame		180 L	180 L	180 L	180 L	180 L
Drive Motor Full Voltage Locked Rotor Amps (star) ( 5 )		209	186	126	104	83
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 )		0.83-0.80	0.83-0.80	0.80	0.83-0.80	0.80
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	1	2	4	6	8
Suggested Fuse Rating	Amps	150	125	80	60	50
Recommended wire Size - Dryer (8) (13)	14 AWG					

Refrigerated Dryer Data		ISO Class	
Pressure Dew Point ISO Class <sup>(12)</sup>	°C (°F)	5	7°C (46°F)
Refrigerant weight of R-134a	Grams / (Oz)		500/(18.1)

Filter Data	Particulate		Liquid	
	ISO Class	Filtration	ISO Class	Filtration
Primary filter detail - at 21°C ( 70°F )	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	
		8.6	125	10.0	145	13.8	200		
Dryer Pressure Drop	barG / (psig)	0.22	3.2	0.15	2.1	0.17	2.5		
Primary filter wet pressure drop	barG / (psig)	0.14	2.0	0.13	1.8	0.11	1.6		
Total Pressure Drop <sup>(11)</sup> For ISO Class 3.6.3 air	barG / (psig)	0.36	5.2	0.27	3.9	0.28	4.1		

- 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