

CCN: 48775522  
 Rev.: C ECO 1019110  
 Ref.: 9904  
 Page: 102  
 Date: 16th December 2015  
 Cancels: 29th June 2015

Point of Manufacture - Campbellsville, Kentucky USA  
 SSR UP6S-25-125 , UP6S-25-145 , UP6S-25-200  
 60 HERTZ ENGINEERING DATA

Model		25-125	25-145	25-200
<b>GENERAL COMPRESSOR DATA</b>				
Capacity (Ref. Intake Cond.) FAD (1)	cfm (m <sup>3</sup> /min)	98 (2.78)	92 (2.61)	75 (2.12)
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)	206.8 (97)	202.6 (95)	198.4 (92.6)
A/E Injection Temperature	°F (°C)	180 (82)	180 (82)	180 (82)
Aftercooler - Inlet (3)	°F (°C)	191 (88)	191 (88)	191 (88)
Aftercooler - Outlet	°F (°C)	123 (53.3)	121.5 (53.3)	117 (53.3)
Heat Removal Oil Cooler	1000 Btu/hr (kW)	61.4 (18)	62.5 (18.3)	63.8 (18.7)
Heat Removal Oil and Aftercooler	1000 Btu/hr (kW)	70.0 (20.5)	70.0 (20.5)	70.0 (20.5)
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)	29 (16)	29 (16)	29 (16)
Aftercooler CTD ( 3 )	°F (°C)	19 (10.6)	17.5 (9.7)	13 (7.2)

<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>		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)	1203 ( 547 )	1530 ( 694 )	1799 ( 816 )
With Optional Dryer	lb. (kg)	1449 ( 659 )	1776 ( 807 )	2044 ( 929 )

SSR  
UP SERIES



CCN: 48775522  
Rev.: C ECO 1019110  
Ref.: 9904  
Page: 103  
Date: 16th December 2015  
Cancels: 29th June 2015

Point of Manufacture - Campbellsville, Kentucky USA  
SSR UP6S-25-125 , UP6S-25-145 , UP6S-25-200  
60 HERTZ ENGINEERING DATA

Model		25-125	25-145	25-200
<b>AIREND DATA</b>				
Rotor Diameter ( male )	inches	4.21	4.21	4.21
Male Rotor Speed	rpm	3791	3519	2955
Tip Speed	ft/sec	69.68	64.7	64.3

ELECTRICAL DATA - ALL UNITS SSR UP6S-25		208v	230v	380v	460v	575v
Nominal Power - Driver	hp	25.0	25.0	25.0	25.0	25.0
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	27.5	27.5	27.5	27.5	27.5
		TEFC	TEFC	TEFC	TEFC	TEFC
<b>Motor Enclosure</b>						
Nominal Current - Drive Motor ( 8 )	Amps	66.2	61.9	37.5	31.0	24.8
Package Current - maximum pressure	Amps	73.5	68.7	41.6	34.4	27.5
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 115-1-60</b>						
Full Load Current		12.3				
Starting Current		48.8				
<b>Electrical Installation</b>						
Mains Supply Cable ( 8 )	Gage	3	3	4	8	10
Suggested Fuse Rating	Amps	125	100	60	50	40
Recommended wire Size - Dryer (8) (13)		14 AWG				

Refrigerated Dryer Data	ISO Class	
Pressure Dew Point ISO Class (12)	6	9°C (48°F)
Refrigerant weight of R-134a		320/(11.6)

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)		
<b>Pressure Drop data by operating pressure</b>	barG	psig	barG	psig	barG	psig
Dryer Pressure Drop	0.26	3.8	0.17	2.5	0.15	2.2
Primary filter wet pressure drop	0.12	1.7	0.11	1.6	0.10	1.4
Total Pressure Drop <sup>(11)</sup> For ISO Class 3.6.3 air	0.38	5.5	0.28	4.1	0.25	3.6

- 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