

CCN: 48775563
 Rev.: C ECO 1019110
 Ref.: 9904
 Page: 110
 Date: 16th December 2015
 Cancels: 29th June 2015

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

Model	25-125HA	25-145HA	25-200HA
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GENERAL COMPRESSOR DATA

Capacity (Ref. Intake Cond.) FAD (1)	cfm (m ³ /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)	122 (50)	122 (50)	122 (50)
Minimum Operating Temperature	°F (°C)	36 (2)	36 (2)	36 (2)

SOUND LEVEL (2)

Base mounted Enclosed	dB(A)	69	69	69
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COOLING DATA

Air-cooled (Ambient Temperature 122°F/50°C)

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 ³ /min)	2100 (59.5)	2100 (59.5)	2100 (59.5)
Dryer Fan Air Flow	cfm (m ³ /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)

CONSTRUCTION FOUNDATION AND MOUNTING DATA

Base mounted - see installation drawing	48775159
120 Gal receiver mounted - see installation drawing	48775175
240 Gal receiver mounted - see installation drawing	48775183

PIPING CONNECTIONS

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

COOLANT LUBRICATION DATA

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)

DIMENSIONS

		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

SHIPPING DATA - NET WEIGHTS

		Base Mounted	120 Gal Rec	240 Gal Rec
	lb. (kg)	1290 (586)	1616 (733)	1885 (855)
With Optional Dryer	lb. (kg)	1535 (698)	1861 (846)	2131 (969)

SSR
UP SERIES



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60 HERTZ ENGINEERING DATA

Model		25-125HA	25-145HA	25-200HA
AIREND DATA				
Rotor Diameter (male)	inches	4.21	4.21	4.21
Male Rotor Speed	rpm	3791	3519	3955
Tip Speed	ft/sec	69.68	64.7	64.3

ELECTRICAL DATA - ALL UNITS SSR UP6S-25HA		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
Motor Enclosure						
Nominal Current - Drive Motor (8)	Amps	69.4	65.1	39.4	32.6	26.0
Package Current - maximum pressure	Amps	77.1	72.3	43.7	36.1	28.8
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
Dryer electrical data						
	115-1-60					
Full Load Current	12.3					
Starting Current	48.8					
Electrical Installation						
Mains Supply Cable (8)	Gage	3	3	4	8	10
Suggested Fuse Rating	Amps	125	100	80	50	40
Recommended wire Size - Dryer (8) (13)	14 AWG					

Refrigerated Dryer Data		ISO Class	
Pressure Dew Point ISO Class ⁽¹²⁾	°C (°F)	6	9°C (48°F)
Refrigerant weight of R-134a	Grams / (Oz)	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 ³ (0.5 ppm)		
Pressure Drop data by operating pressure	barG	psig	barG	psig	barG	psig
Dryer Pressure Drop	8.6	125	10.0	145	13.8	200
Primary filter wet pressure drop	0.26	3.8	0.17	2.5	0.15	2.2
Total Pressure Drop ⁽¹¹⁾ For ISO Class 3.6.3 air	0.12	1.7	0.11	1.6	0.10	1.4
	0.38	5.50	0.28	4.10	0.25	3.60

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