ENGINEERING MANUAL

SSR

Small UP SERIES

Point of Manufacture - Campbellsville, USA

60 HERTZ ENGINEERING DATA

Model		**UP6-7-125**	**UP6-7-150**	**UP6-7-210**	
*** DENOTES NOT AVAILABLE IN NORTH AMERICA ***					
GENERAL COMPRESSOR DATA					
Capacity (Ref. Intake Cond.) FAD (1)	m³/min (cfm)	0.74 (26.3)	0.65 (23.1)	0.45 (16)	
Maximum Operating Pressure	barg (psig)	8.6 (125)	10.3 (150)	14.5 (210)	
Minimum Operating Pressure	barg (psig)	4.5 (65)	4.5 (65)	4.5 (65)	
Maximum Operating Temperature	ºC (ºF)	40 (105)	40 (105)	40 (105)	
Minimum Operating Temperature	ºC (ºF)	2 (36)	2 (36)	2 (36)	
SOUND LEVEL (2)					
Base mounted Enclosed	dB(A)	65	65	65	
COOLING DATA					
Air-cooled (Ambient Temperature 40°C/104°F)					
Coolant Discharge temperature	°C(°F)	87 (189)	86 (187)	90 (194)	
A/E Injection Temperature	°C(°F)	79 (174)	79 (174)	79 (174)	
(3) Aftercooler - Inlet	°C(°F)	79 (174)	79 (174)	79 (174)	
Aftercooler - Outlet	°C(°F)	51 (124)	51 (124)	51 (124)	
Heat Removal Oil Cooler	kW (1000 Btu/hr)	5.5 (18.8)	5.5 (18.8)	5.5 (18.8)	
Heat Removal Oil and Aftercooler	kW (1000 Btu/hr)	6.1 (20.8)	6.1 (20.8)	6.1 (20.8)	
Coolant Flow	lpm (UK gpm)	17.0 (3.7)	21.0 (4.6)	32.0 (7.0)	
Fan Air Flow	m³/min (cfm)	20.0 (700)	20.0 (700)	16.0 (565)	
Cooling Air CTD	ºC (ºF)	35 (63)	35 (63)	35 (63)	
Aftercooler CTD (3)	ºC (ºF)	11 (20)	11 (20)	11 (20)	
CONSTRUCTION FOUNDATION AND					
PIPING CONNECTIONS					
Air Discharge Base Mount	Inches BSPT (9)	0.75			
Air Discharge from ASME Receiver	Inches NPT	0.75			
Coolant Drain	Drain Plug	9/16"-SAE			
Power Inlet	Inch	1"			
COOLANT LUBRICATION DATA					
Coolant Sump Capacity	litres (US gal)	3 (.8)			
Total coolant fill capacity	litres (US gal)	4.5 (1.2)			
DIMENSIONS		Basemount	80 gal (20in tank)	80 gal (24in tank)	120 gal
length, width, height	mm	1040/728/936	1737/737/1513	1350/737/1616	1846/737/1616
	Inches	40.9/28.7/36.9	68.4/29.0/59.6	53.2/29.0/63.6	72.7/29.0/63.7
GA Drawing Numbers		22431811	24470304	22431829	22469191
SHIPPING DATA - NET WEIGHTS					
	kg (lb.)	298 (655)	422 (930)	420 (925)	430 (946)

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Model			UP6-7-125	UP6-7-150	UP6-7-210		
AIREND DATA							
Rotor Diameter (male)	mm		74.25	74.25	74.25		
Male Rotor Speed	rpm		3200	2850	2375		
Tip Speed	m/sec		12.44	11.08	9.23		
ELECTRICAL DATA - ALL UNITS SSR UP6-7		**230-1-60**	**200v**	**230v**	**380v**	**460v**	**575v**
*** NOTE BLUE SHADE DENOTES SINGLE PHASE ***							
Nominal Power - Driver	HP	7.5	7.5	7.5	7.5	7.5	7.5
Maximum Applied Power - Package	HP	8.2	8.2	8.2	8.2	8.2	8.2
Drive Motor Protection		TEFC	ODP	ODP	ODP	ODP	ODP
Nominal Current - Drive Motor (8)	Amps	31.0	20.0	17.8	10.5	8.9	7.5
Package Current - maximum pressure	Amps	34.1	22.0	19.6	11.6	9.8	8.3
Drive Motor RPM		3495	3510	3510	3510	3510	3510
Drive Motor Frame		184T	184TZ	184TZ	184TZ	184TZ	184TZ
Drive Motor Locked Rotor (5)	Amps	217.0	159.0	145.0	84.0	73.0	60.0
Drive Motor Efficiency (8)		84	88.5	88.5	88.5	88.5	88.5
Drive Motor Power Factor (8)		0.92	0.90	0.90	0.90	0.90	0.90
Test Certificate Number (4)		BL650710	FD-2016-023195	FD-2016-170821	FDC 086582.2017	FD-2016-170821	FD-2016-171653
Electrical Installation							
Recommended wire size (6)	Awg	6	8	10	12	14	14
Suggested Fuse Rating (7)	Amps	50	35	35	20	15	12

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 PNEUROP/CAGI test codes, with +/- 3 dB(A) tolerance.
(3) 40% Relative Humidity Inlet Air (For alternate conditions refer to SSR toolbox or contact IR)
(4) Motor test certificate
(5) Inrush amps
(6) 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.
(7) Recommended Time delay Fuse. Refer to local code for proper fuse sizing
(8) Measured at nominal motor power
(9) Installation kit will provide flexible connection to NPT or BSPT