

SSR
Small UP SERIES



CCN: 23753676
 Rev.: G CN 1272434
 Ref.: 9902
 Page: 106
 Date: 10th Nov 2017
 Cancels: 15th June 2017

Point of Manufacture - Campbellsville, USA

60 HERTZ ENGINEERING DATA

Model		UP6-15c-125	UP6-15c-150	UP6-15c-210
GENERAL COMPRESSOR DATA				
Capacity (Ref. Intake Cond.) FAD (1)	m ³ /min (cfm)	1.47 (52)	1.33 (47.3)	1.01 (35.9)
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	°C (°F)	40 (105)	40 (105)	40 (105)
Minimum Operating Temperature	°C (°F)	2 (36)	2 (36)	2 (36)
SOUND LEVEL (2)				
Base mounted Enclosed	dB(A)	69	69	69
COOLING DATA				
Air-cooled (Ambient Temperature 40°C/104°F)				
Coolant Discharge temperature	°C(°F)	100 (212)	99 (210)	98 (208)
A/E Injection Temperature	°C(°F)	82 (180)	81 (178)	80 (176)
(3) Aftercooler - Inlet	°C(°F)	90 (194)	89 (192)	89 (192)
Aftercooler - Outlet	°C(°F)	51 (124)	51 (124)	51 (124)
Heat Removal Oil Cooler	kW (1000 Btu/hr)	10.3 (35.1)	10.3 (35.1)	10.3 (35.1)
Heat Removal Oil and Aftercooler	kW (1000 Btu/hr)	12.3 (42.0)	12.3 (42.0)	12.3 (42.0)
Coolant Flow	lpm (UK gpm)	17.0 (3.7)	21.0 (4.6)	32.0 (7.0)
Fan Air Flow	m ³ /min (cfm)	30.0 (1060)	30.0 (1060)	30.0 (1060)
Cooling Air CTD	°C (°F)	40 (72)	40 (72)	40 (72)
Aftercooler CTD (3)	°C (°F)	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				
length, width, height	mm	Basemount 1040/728/936	80 gal 1783/737/1513	120 gal 1900/737/1616
	Inches	40.9/28.7/36.9	70.2/29.0/59.6	74.8/29.0/63.7
GA Drawing Numbers		22431811	24470304	22469191
SHIPPING DATA - NET WEIGHTS				
	kg (lb.)	298 (655)	422 (930)	430 (946)

ENGINEERING MANUAL

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AIREND DATA

Rotor Diameter (male)	mm	74.25	74.25	74.25
Male Rotor Speed	rpm	6250	5700	4675
Tip Speed	m/sec	24.30	22.16	18.17

ELECTRICAL DATA - ALL UNITS SSR UP6-15c

		200v	230v	380v	460v	575v
Nominal Power - Driver	HP	15.0	15.0	15.0	15.0	15.0
Maximum Applied Power - Package	HP	16.5	16.5	16.5	16.5	16.5

Drive Motor Protection		ODP	ODP	ODP	ODP	ODP
Nominal Current - Drive Motor (8)	Amps	39.1	34.0	20.6	17.0	13.7
Package Current - maximum pressure	Amps	43.1	37.4	22.8	18.7	15.1
Drive Motor RPM		3530	3530	3530	3530	3530
Drive Motor Frame		215TZ	215TZ	215TZ	215TZ	215TZ
Drive Motor Locked Rotor (5)	Amps	282.0	256.0	148.0	128.0	104.0
Drive Motor Efficiency (8)		90.2	90.2	90.2	90.2	90.2
Drive Motor Power Factor (8)		0.9	0.9	0.9	0.9	0.9
Test Certificate Number (4)		FD-2016-119463	FD-2016-172404	FDC 086601.2017	FD-2016-172404	FD-2016-172436

Electrical Installation

Recommended wire size (6)	Awg	4	6	8	10	10
Suggested Fuse Rating (7)	Amps	75	65	35	30	25

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