



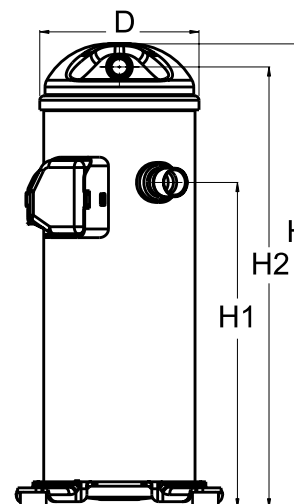
Datasheets

Performer[®] scroll compressors H series



General Characteristics

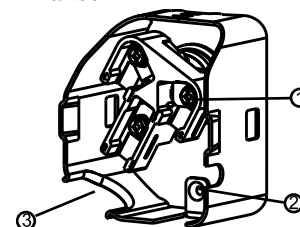
Model number (on compressor nameplate)		HCJ105T4LC6
Code number for Singlepack*		120U2322
Code number for Industrial pack**		120U2319
Drawing number		0SR7596B
Suction and discharge connections		Brazed
Suction connection		1-1/8 " ODF
Discharge connection		7/8 " ODF
Oil sight glass		None
Oil equalization connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume	6.2 in3/rev	
Displacement @ Nominal speed	624 cfh @ 2900 rpm - 753 cfh @ 3500 rpm	
Net weight	100 lbs	
Oil charge	90 oz, PVE - -	
Maximum system test pressure Low Side / High side	- psi / - psi	
Maximum differential test pressure	- psi	
Maximum number of starts per hour	-	
Refrigerant charge limit	16 lbs	
Approved refrigerants	R410A	

Dimensions


D=7.2 inch, H=21.1 inch,
H1=14.8 inch, H2=20.1 inch

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 77°F	1.29 #
Winding resistance between phases 1-3 +/- 7% at 77°F	1.28 #
Winding resistance between phases 2-3 +/- 7% at 77°F	1.33 #
Rated Load Amps (RLA)	16.0 A
Maximum Continuous Current (MCC)	25.0 A
Locked Rotor Amps (LRA)	110.0 A
Motor protection	Internal overload protector

Terminal box


IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	0 ft.lbs
Power connections / Earth connection	2 ft.lbs / 1 ft.lbs

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side
Code no.

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets
Code no.

Solder sleeve adapter set, 1-1/8" ODF & 7/8" ODF	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants
Code no.

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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Crankcase heaters
Code no.

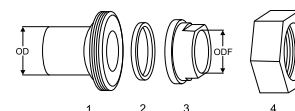
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

Miscellaneous accessories
Code no.

Acoustic hood	120Z5045
Discharge thermostat kit	7750009

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5031

Solder sleeve adapter set


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

Datasheet, performance data

Performer scroll compressor. HCJ105T4

Performance data at 60 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-10	0	10	20	30	40	45	50	55

Cooling capacity in Btu/h

90	41 446	54 370	68 876	85 475	104 677	126 994	139 481	152 937	167 428
100	37 935	50 352	64 204	80 003	98 260	119 485	131 371	144 190	158 007
110	34 302	46 238	59 463	74 490	91 827	111 987	123 286	135 481	148 638
120	-	41 830	54 455	68 734	85 179	104 300	115 024	126 609	139 118
130	-	-	48 977	62 536	78 114	96 223	106 386	117 374	129 249
140	-	-	-	55 695	70 434	87 557	97 172	107 575	118 829
150	-	-	-	-	61 937	78 100	87 181	97 013	107 659

Power input in W

90	5 718	5 814	5 906	6 014	6 161	6 367	6 499	6 655	6 835
100	6 432	6 535	6 621	6 714	6 833	7 001	7 110	7 238	7 390
110	7 228	7 347	7 438	7 524	7 625	7 764	7 854	7 962	8 089
120	-	8 251	8 357	8 446	8 539	8 658	8 734	8 825	8 933
130	-	-	9 379	9 480	9 574	9 684	9 751	9 829	9 922
140	-	-	-	10 628	10 733	10 842	10 904	10 976	11 058
150	-	-	-	-	12 016	12 134	12 196	12 265	12 343

Current consumption in A

90	10.74	10.84	10.92	11.02	11.14	11.29	11.39	11.49	11.61
100	11.39	11.51	11.62	11.72	11.83	11.95	12.02	12.11	12.20
110	12.10	12.28	12.42	12.54	12.65	12.77	12.83	12.89	12.97
120	-	13.14	13.34	13.50	13.64	13.76	13.82	13.88	13.94
130	-	-	14.40	14.61	14.79	14.93	15.00	15.06	15.12
140	-	-	-	15.89	16.13	16.32	16.40	16.47	16.54
150	-	-	-	-	17.66	17.91	18.02	18.11	18.20

Mass flow in lbs/h

90	555	717	895	1 095	1 322	1 585	1 731	1 888	2 057
100	529	691	868	1 065	1 291	1 550	1 695	1 851	2 018
110	501	663	838	1 034	1 257	1 514	1 657	1 811	1 976
120	-	629	803	997	1 219	1 473	1 614	1 766	1 930
130	-	-	760	952	1 171	1 423	1 563	1 713	1 875
140	-	-	-	896	1 113	1 361	1 500	1 649	1 809
150	-	-	-	-	1 039	1 285	1 422	1 570	1 728

Energy Efficiency Ratio (E.E.R.)

90	7.25	9.35	11.66	14.21	16.99	19.95	21.46	22.98	24.49
100	5.90	7.71	9.70	11.92	14.38	17.07	18.48	19.92	21.38
110	4.75	6.29	7.99	9.90	12.04	14.42	15.70	17.02	18.38
120	-	5.07	6.52	8.14	9.98	12.05	13.17	14.35	15.57
130	-	-	5.22	6.60	8.16	9.94	10.91	11.94	13.03
140	-	-	-	5.24	6.56	8.08	8.91	9.80	10.75
150	-	-	-	-	5.15	6.44	7.15	7.91	8.72

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	106 386	Btu/h	Current consumption	15.00	A
Power input	9 751	W	Mass flow	1 563	lbs/h
E.E.R.	10.91				

Pressure switch settings

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

All performance data +/- 5%

Sound power data

Sound power level	76	dB(A)
With acoustic hood	71	dB(A)

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