



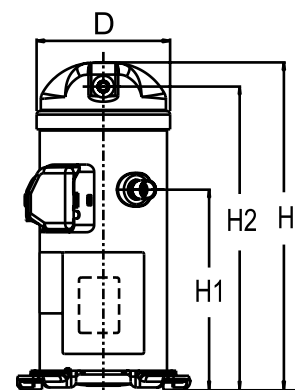
Datasheets

Performer[®] scroll compressors H series



General Characteristics

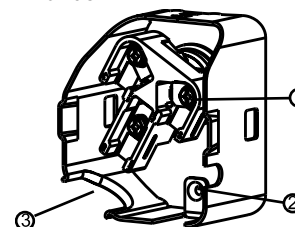
Model number (on compressor nameplate)		HLP072T2LC6
Code number for Singlepack*		120U2903
Code number for Industrial pack**		120U2900
Drawing number		0XR6089B-1
Suction and discharge connections		Brazed
Suction connection		7/8" ODF
Discharge connection		1/2" ODF
Oil sight glass		None
Oil equalization connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume	6.01 in ³ /rev	
Displacement @ Nominal speed	731 cfh @ 3500 rpm	
Net weight		82 lbs
Oil charge		53 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		12 lbs
Approved refrigerants		R407C

Dimensions


D=7.2 inch, H=17.9 inch,
H1=11 inch, H2=16.6 inch

Electrical Characteristics

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 77°F	0.473 Ω
Winding resistance between phases 1-3 +/- 7% at 77°F	0.467 Ω
Winding resistance between phases 2-3 +/- 7% at 77°F	0.477 Ω
Rated Load Amps (RLA)	19.2 A
Maximum Continuous Current (MCC)	33 A
Locked Rotor Amps (LRA)	170 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.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side
Code no.

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Rotolock accessories, sets
Code no.

Solder sleeve adapter set (1-1/4"~7/8"), (1"~1/2")	120Z0127
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.

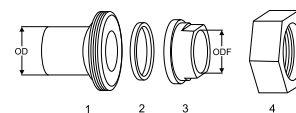
Belt type crankcase heater, 50 W, 230 V, CE mark, UL	120Z0057
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Miscellaneous accessories
Code no.

Acoustic hood	120Z5044
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. HLP072T2

Performance data at 60 Hz, ARI rating conditions

R407C

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

Cooling capacity in Btu/h

90	19 532	26 055	34 060	43 828	55 643	69 787	86 543	95 989	117 193
100	-	23 810	31 257	40 355	51 385	64 631	80 374	89 271	109 291
110	-	21 858	28 656	36 989	47 142	59 395	74 033	82 334	101 078
120	-	-	26 324	33 801	42 982	54 151	67 590	75 249	92 622
130	-	-	-	30 859	38 976	48 967	61 114	68 084	83 995
140	-	-	-	-	35 193	43 913	54 675	60 910	75 266
150	-	-	-	-	-	39 060	48 344	53 797	66 503

Power input in W

90	3 747	3 891	4 003	4 097	4 187	4 288	4 413	4 489	4 677
100	-	4 636	4 660	4 673	4 692	4 729	4 799	4 851	4 997
110	-	5 422	5 358	5 292	5 239	5 213	5 228	5 256	5 360
120	-	-	6 110	5 965	5 841	5 752	5 714	5 717	5 780
130	-	-	-	6 704	6 510	6 359	6 267	6 247	6 268
140	-	-	-	-	7 258	7 046	6 900	6 857	6 837
150	-	-	-	-	-	7 824	7 626	7 559	7 499

Current consumption in A

90	14.72	13.87	13.70	13.99	14.51	15.04	15.35	15.36	14.94
100	-	16.77	16.25	16.24	16.50	16.81	16.96	16.90	16.37
110	-	18.75	17.97	17.73	17.81	18.00	18.06	17.97	17.43
120	-	-	19.40	19.02	19.01	19.15	19.20	19.13	18.65
130	-	-	-	20.68	20.65	20.82	20.95	20.93	20.60
140	-	-	-	-	23.29	23.56	23.86	23.94	23.83
150	-	-	-	-	-	27.95	28.48	28.70	28.89

Mass flow in lbs/h

90	274	360	460	578	718	883	1 076	1 185	1 429
100	-	347	443	558	695	857	1 048	1 155	1 397
110	-	334	426	536	668	826	1 014	1 120	1 358
120	-	-	408	513	640	793	975	1 079	1 313
130	-	-	-	488	609	755	932	1 033	1 261
140	-	-	-	-	576	715	885	983	1 205
150	-	-	-	-	-	673	835	929	1 143

Energy Efficiency Ratio (E.E.R.)

90	5.21	6.70	8.51	10.70	13.29	16.28	19.61	21.38	25.06
100	-	5.14	6.71	8.63	10.95	13.67	16.75	18.40	21.87
110	-	4.03	5.35	6.99	9.00	11.39	14.16	15.66	18.86
120	-	-	4.31	5.67	7.36	9.41	11.83	13.16	16.03
130	-	-	-	4.60	5.99	7.70	9.75	10.90	13.40
140	-	-	-	-	4.85	6.23	7.92	8.88	11.01
150	-	-	-	-	-	4.99	6.34	7.12	8.87

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

Cooling capacity	68 084	Btu/h	Current consumption	20.93	A
Power input	6 247	W	Mass flow	1 033	lbs/h
E.E.R.	10.90				

Pressure switch settings

Maximum HP switch setting	435	psi(g)
Minimum LP switch setting	7	psi(g)
LP pump down setting	15	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

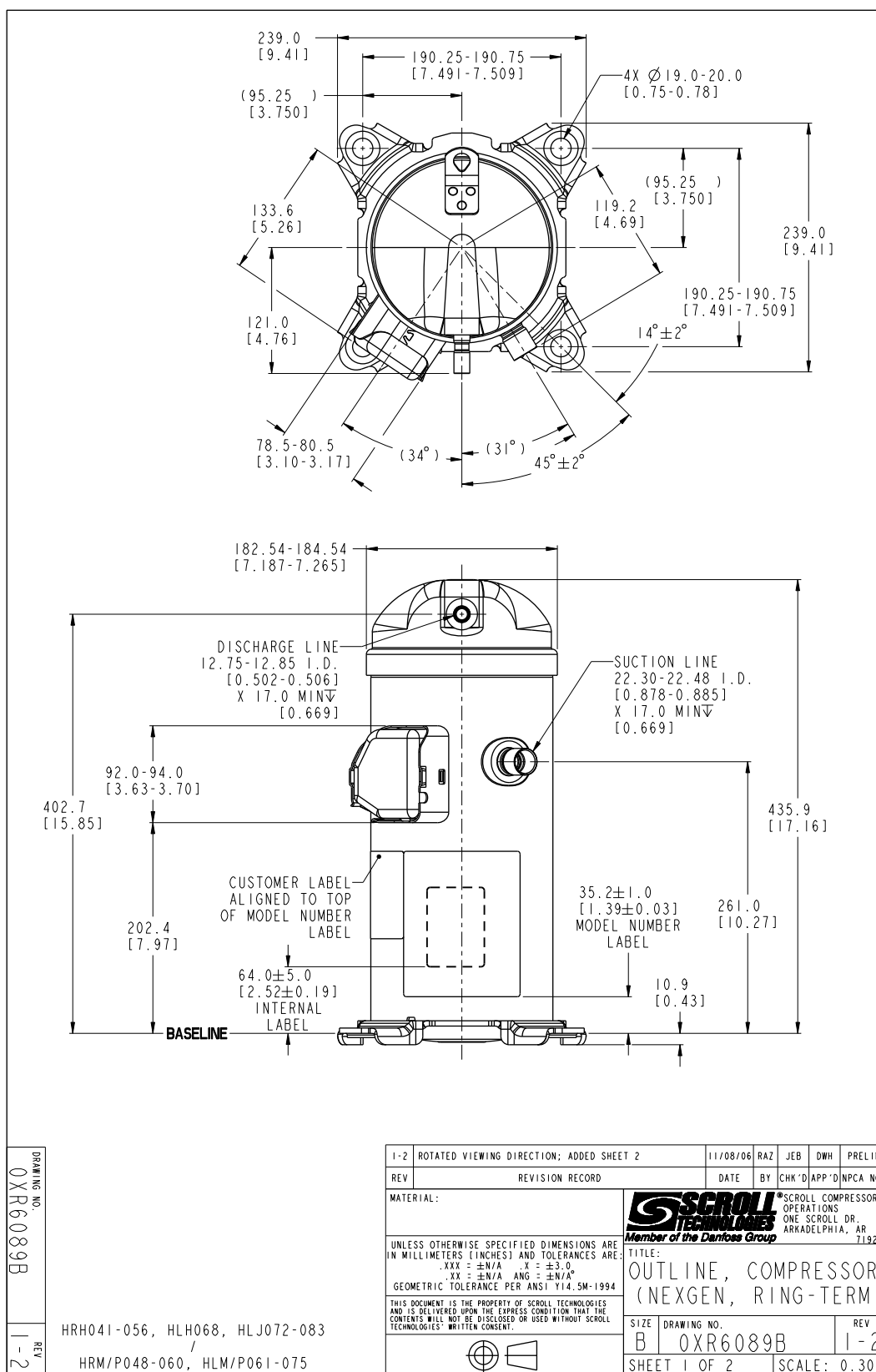
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

All performance data +/- 5%

Sound power data

Sound power level	73	dB(A)
With acoustic hood	68	dB(A)

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