

General Information

GENERAL INFORMATION


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SYSTEM DESIGN

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ORDERING INFORMATION

Danfoss scroll compressors are designed and manufactured according to the state of the art and to valid European and US regulations. Particular emphasis has been placed on safety and reliability. Related instructions are highlighted with the following icons:

 This icon indicates instructions to avoid safety risk.

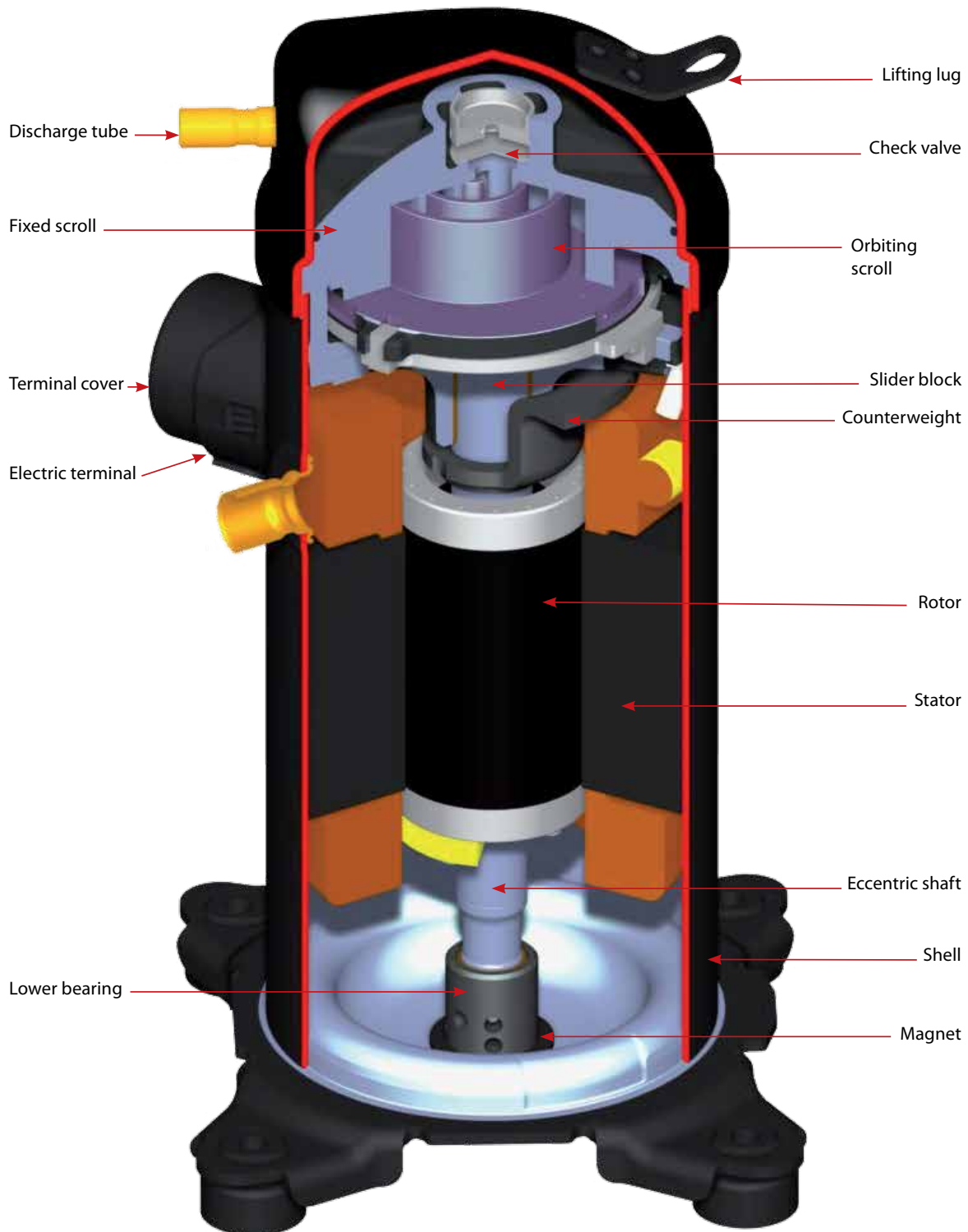
 This icon indicates instructions to avoid reliability risk.

You are strongly advise to follow these instructions. For any deviation from the guidelines, please contact Danfoss Technical Support.

Features

Danfoss H-series scroll compressors are manufactured using the most advanced machining, assembly, and process control techniques. In design of both the compressor and the factory, very high standards of reliability

and process control were first priority. The result is a highly efficient product with the highest reliability obtainable, and a low sound level. The H-series compressors can be black or blue depending on the production site.



Compressor model designation

Danfoss H-series scroll compressor for R22/R407C/R410A is available as single compressor and can be assembled in tandem combinations. The example below presents the compressor

nomenclature which equals the technical reference as shown on the compressor nameplate. Code numbers for ordering are listed section "Ordering information and packaging".

Nomenclature

Type	Size	Motor	Features
HRH	036	U1L	P6

Application: _____
H: high temperature / air conditioning

Family: _____
C: commercial scroll
R: residential scroll
L: light commercial scroll

Refrigerant & lubricant: _____
M: R22, alkylbenzene lubricant
P: R407C, PVE lubricant
H: R410A, PVE lubricant
J: R410A, PVE lubricant


Nominal capacity: _____
 In thousand Btu/h at 60 Hz,
 ARI conditions

Model variation _____
T: design optimized for 45/130°F
U: design optimized for 45/100°F

Other features

	Oil sight glass	Oil equalization	Oil drain	LP gauge port	Gas equalization port
6	None	None	None	None	None
7	Threaded	None	None	None	None
8	None	Brazed	None	None	Brazed
T	None	Screw	Schrader	None	None

Tubing and electrical connections
P: brazed connections, spade terminals
C: brazed connections, screw terminals



Motor protection
L: internal motor protection

Motor voltage code
1: 208-230V/1~/60 Hz
2: 200-220V/3~/50Hz & 208-230V/3~/60 Hz
4: 380-415V/3~/50 Hz & 460V/3~/60 Hz
5: 220-240V/1~/50 Hz
7: 575V/ 3~/60 Hz
9: 380V/3~/60 Hz

Feature Version T compressors are built with a threaded oil equalization port to be used with Danfoss variable speed compressors range VZH series.

Single phase electrical characteristics

Compressor model	LRA	MCC	Max. operating current	Winding resistance (Ohm)		
	A	A	A	Start	Run	
Motor voltage code 5 200-220 V / 1 ph / 50 Hz	HRP032T5	97	23	18.3	1.51	0.69
	HRP034T5	97	25	19.5	1.51	0.69
	HRP038T5	97	25	21.2	1.51	0.69
	HRP040T5	97	25	22.3	1.51	0.69
	HRP042T5	97	27	24.2	1.51	0.69
	HRP045T5	102.5	30	27.9	1.61	0.66
	HRP047T5	102.5	31.2	29.0	1.61	0.66
	HRP054T5	130	40	30.8	1.02	0.39
	HRP058T5	130	42	32.8	1.02	0.39
	HRP060T5	130	40	33.9	1.02	0.39
	HLP068T5	130	40	38.4	1.02	0.39
	HLP072T5	130	40	38.9	1.02	0.39
HLP081T5	130	47	45.8	1.02	0.39	
Motor voltage code 1 208-230 V / 1 ph / 60 Hz	HRP025T1	69	19	13.8	1.74	0.85
	HRP034T1	96.7	24.5	21.4	1.57	0.67
	HRP042T1	115	32.9	26.8	1.47	0.55
	HRP051T1	150	40	31.9	0.86	0.33
	HRP060T1	160	45	37.2	1.76	0.28
	HLP068T1	145	45	38.2	0.84	0.29
	HLP072T1	145	45	40.5	0.84	0.29
HLP081T1	145	45	41.2	0.84	0.29	
Motor voltage code 5 200-220 V / 1 ph / 50 Hz	HRH029U5	97	24	17.9	1.51	0.69
	HRH031U5	97	25	19.2	1.51	0.69
	HRH032U5	97	25	19.8	1.51	0.69
	HRH034U5	97	25.5	21.0	1.51	0.69
	HRH036U5	97	25.5	22.3	1.51	0.69
	HRH038U5	102.5	28	23.8	1.61	0.66
	HRH040U5	102.5	33	26.6	1.61	0.66
	HRH051U5	130	38	31.7	1.02	0.39
	HRH054U5	130	40	38.2	1.02	0.39
	HRH056U5	130	40	38.9	1.02	0.39
	HLH061T5	130	42	44.1	1.02	0.39
	HLH068T5	130	45	41.7	1.02	0.39
HLJ072T5	130	45	48.9	1.02	0.39	
HLJ083T5	130	50	55.7	1.02	0.39	
Motor voltage code 1 208-230 V / 1 ph / 60 Hz	HRH029U1	96.7	27	19.5	1.45	0.72
	HRH031U1	96.7	26.5	20.8	1.57	0.67
	HRH032U1	87.5	26	17.9	1.66	0.67
	HRH034U1	115	31	20.9	1.40	0.53
	HRH036U1	105	34	23.3	1.22	0.54
	HRH038U1	115	33	23.6	1.21	0.54
	HRH039U1	115	31	22.8	1.19	0.53
	HRH040U1	115	32	27.7	1.31	0.53
	HRH041U1	150	36.9	28.2	0.86	0.33
	HRH044U1	150	38	29.9	0.86	0.33
	HRH047U1	135	43	35.3	1.06	0.43
	HRH048U1	135	42	35.6	1.06	0.43
	HRH049U1	150	45	32.4	0.84	0.32
	HRH050U1	135	43	39.3	1.06	0.43
	HRH051U1	150	41	33.6	0.84	0.32
	HRH054U1	145	45	34.1	0.84	0.29
	HRH056U1	145	47	35.9	0.84	0.29
	HLH061T1	145	42	41.8	0.84	0.29
	HLH068T1	145	42	46.1	0.84	0.29
	HLJ072T1	145	42	48.6	0.84	0.29
HLJ083T1	145	42	57.6	0.84	0.29	

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