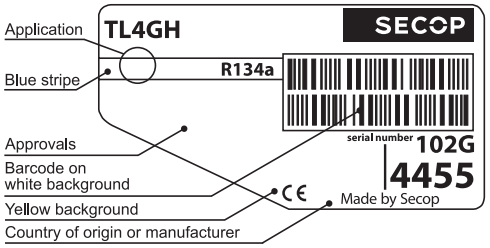
TL4GH
Heat Pump Compressor
R134a
220-240V 50/60Hz





Approval mark

General

Code number	102G4455
Approvals	EN 60335-2-34, UL984
Compressors on pallet	125

Application

Application		HBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-15 to 15	-15 to 15
Voltage range	V	198 - 254	198 - 254
Max. condensing temperature continuous (short)	°C	60 (70)	60 (70)
Max. winding temperature continuous (short)	°C	125 (135)	125 (135)

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		–	–	F_2	–	–	F_2
38°C		–	–	F_2	–	–	F_2
43°C		–	–	F_2	–	–	F_2
Remarks on application:							

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary
SG = Suction gas cooling normally sufficent
– = not applicable in this area

Motor

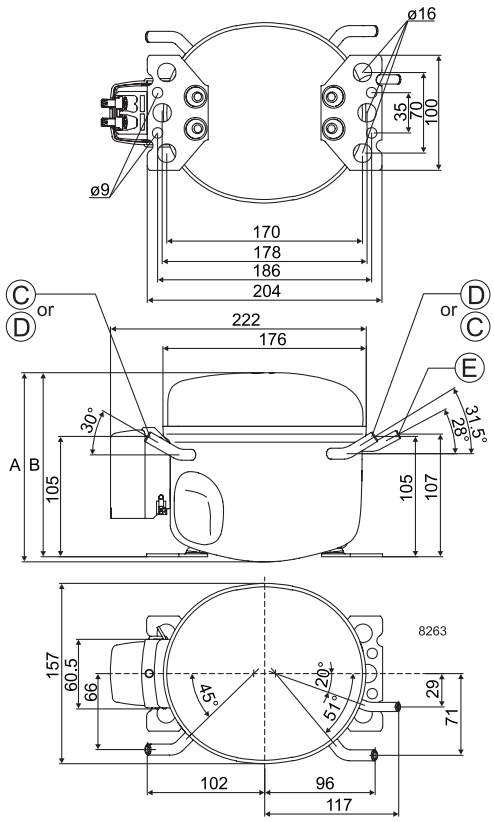
Motor type		CSIR	
LRA (rated after 4 sec. UL984), HST | LST	A	5.7	–
Cut in Current, HST | LST	A	5.7	–
Resistance, main | start winding (25°C)	Ω	14.5	14.8

Design

Displacement	cm^3	3.86
Oil quantity (type)	cm^3	280 (polyolester)
Maximum refrigerant charge	g	600
Free gas volume in compressor	cm^3	1690
Weight without electrical equipment	kg	7.5

Dimensions

Height	mm	A	173
		B	169
		B1	–
		B2	–
Suction connector	location/I.D. mm | angle	C	6.2 | 30°
	material | comment		Copper | Rubber plug
Process connector	location/I.D. mm | angle	D	6.2 | 31.5°
	material | comment		Copper | Rubber plug
Discharge connector	location/I.D. mm | angle	E	5.0 | 28°
	material | comment		Copper | Rubber plug
Oil cooler connector	location/I.D. mm | angle	F	–
	material | comment		–
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20
Remarks:			



EN 12900 Household (CECOMAF) 220V, 50Hz, fan cooling F_2

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								104	140	167	182	230	287	315	353	429	
Power cons. in W								109	121	129	134	146	159	164	171	181	
Current cons. in A								0.97	1.01	1.03	1.05	1.09	1.12	1.14	1.16	1.20	
COP in W/W								0.96	1.16	1.29	1.36	1.57	1.81	1.92	2.07	2.37	

EN 12900 Household (CECOMAF) 220V, 60Hz, fan cooling F_2

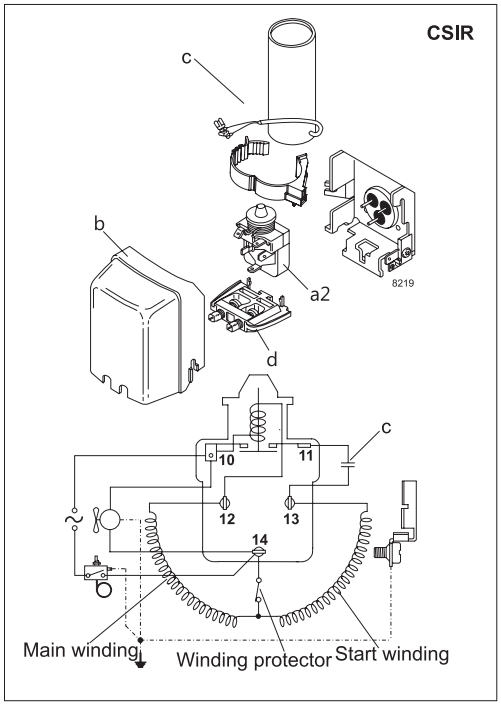
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								118	160	191	208	264	328	360	403	489	
Power cons. in W								123	139	150	156	174	193	202	213	232	
Current cons. in A								0.89	0.95	1.00	1.02	1.09	1.16	1.19	1.23	1.31	
COP in W/W								0.96	1.15	1.27	1.33	1.51	1.70	1.78	1.90	2.11	

ASHRAE HBP 220V, 50Hz, fan cooling F_2

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								129	173	206	225	285	356	391	439	535	
Power cons. in W								109	121	129	134	146	159	164	171	181	
Current cons. in A								0.97	1.01	1.03	1.05	1.09	1.12	1.14	1.16	1.20	
COP in W/W								1.18	1.43	1.60	1.68	1.95	2.24	2.38	2.57	2.95	

ASHRAE HBP 220V, 60Hz, fan cooling F_2

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								146	198	236	257	327	408	447	501	609	
Power cons. in W								123	139	150	156	174	193	202	213	232	
Current cons. in A								0.89	0.95	1.00	1.02	1.09	1.16	1.19	1.23	1.31	
COP in W/W								1.19	1.43	1.57	1.65	1.88	2.11	2.22	2.36	2.63	



Accessories for	TL4GH	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	–
	4.8 mm spade connectors		–
Starting relay	6.3 mm spade connectors	a2	117U6000
Start. capacitor 60 µF	6.3 mm spade connectors	c	117U5014
Cover		b	103N2011
Cord relief		d	103N1010
Protection screen for PTC		g	–

Test conditions	EN 12900/ CECOMAF	ASHRAE HBP
Condensing temperature	55°C	55°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	55°C	32°C

Mounting accessories		Code number
Bolt joint for one comp.	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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