

HXK87AT KAPPA Tropical Compressor Superior Efficiency R600a 200-240V 50Hz, 208-230V 60Hz

General

Code number	CDO00136
Approvals	EN 60335-2-34 w. Annex AA
Compressors on pallet	100

Application

Application	LBP	
Frequency	Hz	50 60
Evaporating temperature	°C	-35 to -10 -35 to -10
Voltage range	V	170 to 264 198 to 253
Max. condensing temperature continuous (short)	°C	65 (70) 65 (70)
Max. winding temperature continuous (short)	°C	120 (130) 120 (130)

Cooling requirements

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

Motor

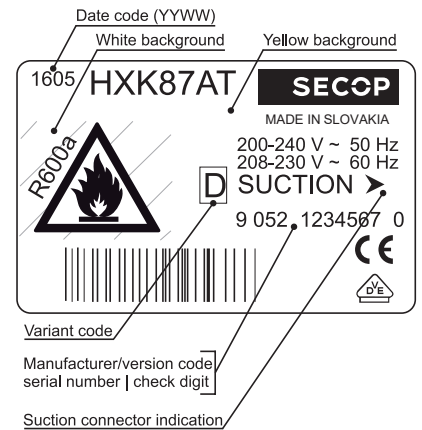
Motor type	RSCR/RSIR		
LRA (rated after 4 sec. UL984), HST LST	A	–	6.6
Cut in Current, HST LST	A	–	12.8
Resistance, main start winding (25°C)	Ω	19.6	11.5

Design

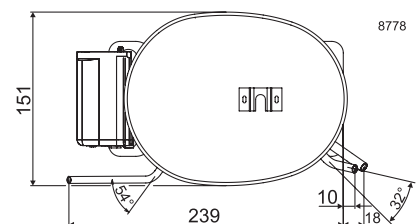
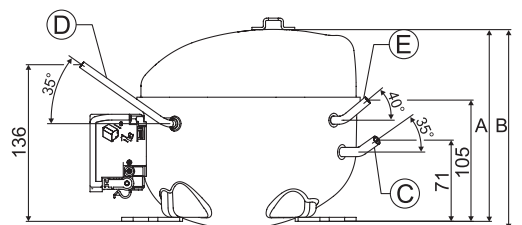
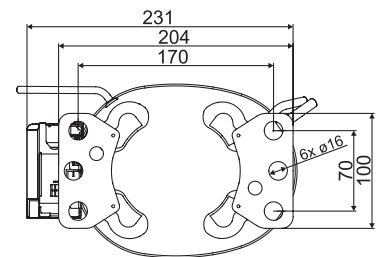
Displacement	cm³	8.80
Oil quantity (type)	cm³	165 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm³	1620
Weight without electrical equipment	kg	8.60

Dimensions

Height	mm	A 167.0
		B 173.5
Suction connector	location/I.D. mm angle	C 6.15 35°
	material comment	Cu-plated steel Rubber plug
Process connector	location/O.D. mm angle	D 6.00 35°
	material comment	Copper Rubber plug
Discharge connector	location/I.D. mm angle	E 5.15 40°
	material comment	Cu-plated steel Rubber plug
Oil cooler connector	location/I.D. mm angle	F –
	material comment	–
Connector tolerance	I.D. mm	±0.05
Remarks:		



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



EN 12900 Household

200V, 50Hz, PTC consumption incl., static cooling

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			72.2	90.1	116	126	149	188	233								
Power cons. in W			70.4	78.7	88.7	92.5	100	112	125								
Current cons. in A			0.26	0.37	0.45	0.48	0.52	0.57	0.62								
COP in W/W			1.03	1.15	1.31	1.37	1.49	1.68	1.87								

EN 12900 Household

200V, 50Hz, RC 4 µF, PTC consumption incl., static cooling

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			72.2	90.1	116	126	149	188	233								
Power cons. in W			67.2	75.1	84.7	88.3	95.6	107	119								
Current cons. in A			0.25	0.36	0.43	0.46	0.49	0.55	0.59								
COP in W/W			1.07	1.20	1.37	1.43	1.56	1.76	1.96								

ASHRAE LBP

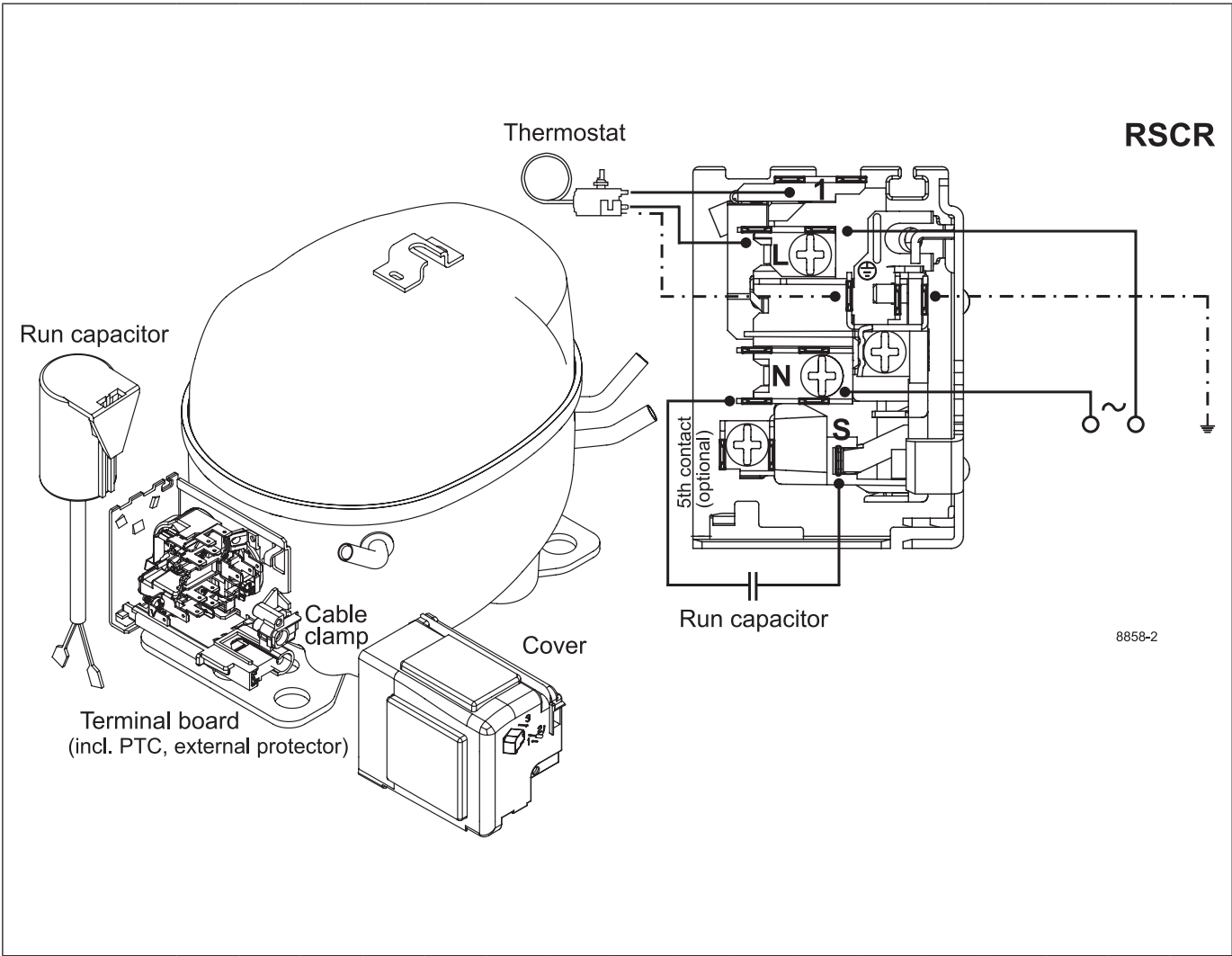
200V, 50Hz, PTC consumption incl., static cooling

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			88.6	110	141	154	181	229	284								
Power cons. in W			70.4	78.6	88.5	92.2	99.7	112	124								
Current cons. in A			0.27	0.37	0.45	0.48	0.52	0.57	0.62								
COP in W/W			1.26	1.40	1.60	1.67	1.82	2.05	2.29								

ASHRAE LBP

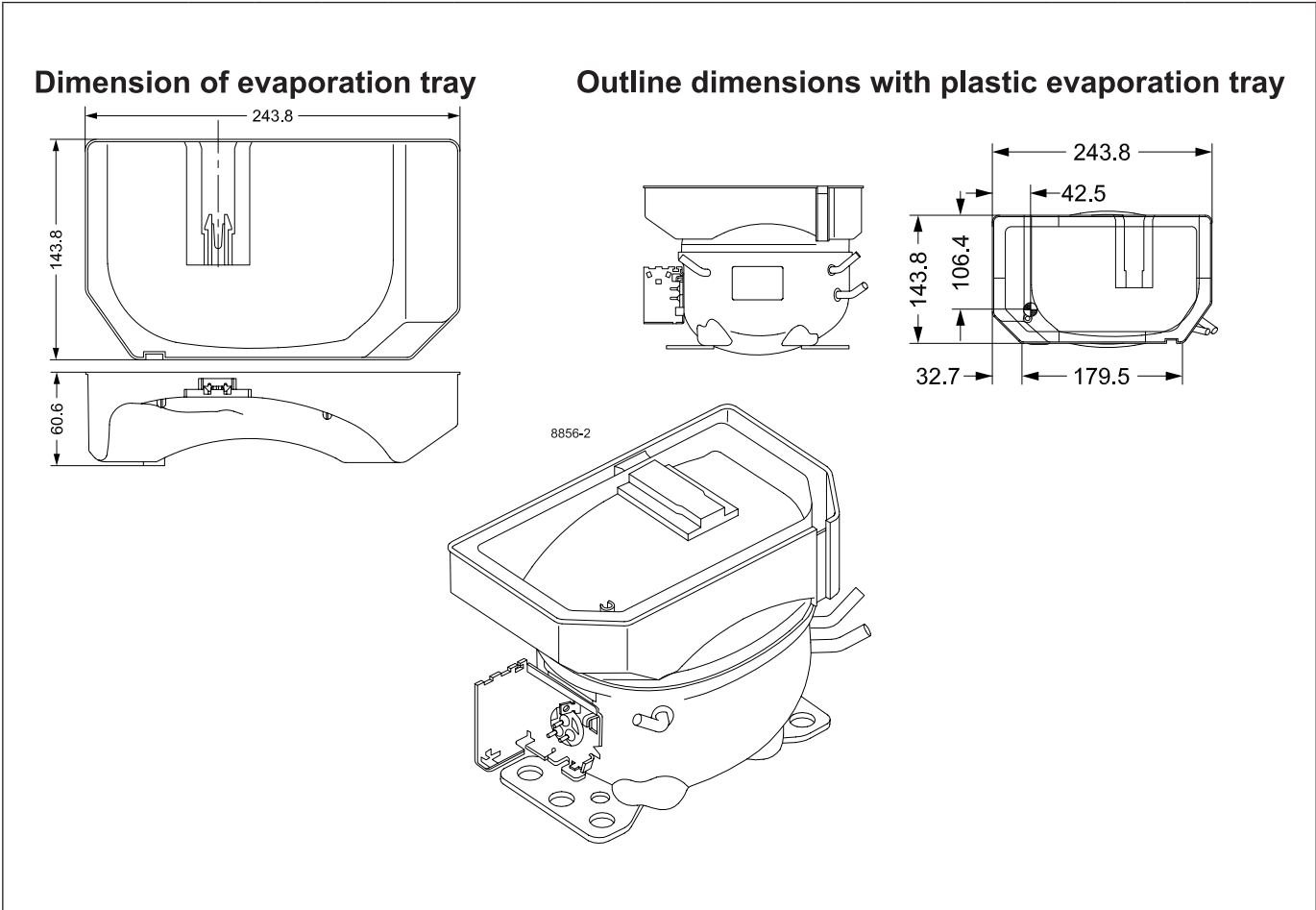
200V, 50Hz, RC 4 µF, PTC consumption incl., static cooling

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			88.6	110	141	154	181	229	284								
Power cons. in W			67.3	75	84.5	88	95.2	107	118								
Current cons. in A			0.25	0.36	0.43	0.45	0.49	0.54	0.59								
COP in W/W			1.32	1.47	1.67	1.75	1.91	2.15	2.40								



EN 12900 Household		220V, 60Hz, RC 4 µF, PTC consumption incl., static cooling															
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			87	108	138	151	178	224	278								
Power cons. in W			79.3	88.7	100	104	113	126	140								
Current cons. in A			0.30	0.42	0.51	0.54	0.58	0.64	0.70								
COP in W/W			1.10	1.22	1.38	1.45	1.57	1.77	1.98								

ASHRAE LBP		220V, 60Hz, RC 4 µF, PTC consumption incl., static cooling															
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			107	132	169	184	216	274	339								
Power cons. in W			79.4	88.6	99.7	104	112	126	140								
Current cons. in A			0.30	0.42	0.51	0.54	0.58	0.64	0.70								
COP in W/W			1.35	1.49	1.69	1.77	1.93	2.17	2.43								



Accessories for HXK87AT			Code number	Test conditions	EN 12900 Household	ASHRAE LBP
50 Hz: run capacitor (optional)	6.3 mm spade connectors		4 µF	Condensing temperature	55°C	54.4°C
60 Hz: run capacitor (compulsory)	6.3 mm spade connectors		4 µF	Ambient temperature	32°C	32°C
Terminal board	6.3 mm spade connectors		DCFC	Suction gas temperature	32°C	32°C
(incl. PTC and external protector)				Liquid temperature	no subcooling	32°C
Motor protector	AE 15 BU x		FC			
Evaporation tray (optional)			16299100	Mounting accessories on request, various options available		
All-in-one equipment, e.g. 4ZN			Code number			
Cover / cable clamp + screws / earthing screw			16168000			

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