

HXK80AT KAPPA Tropical Compressor Superior Efficiency R600a 200-240V 50Hz, 208-230V 60Hz

General

Code number	CDO00135
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

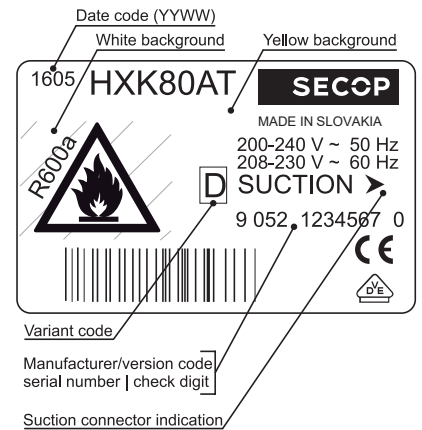
Motor type	RSCR/RSIR		
LRA (rated after 4 sec. UL984), HST LST	A	–	4.0
Cut in Current, HST LST	A	–	12.8
Resistance, main start winding (25°C)	Ω	24.8	14.1

Design

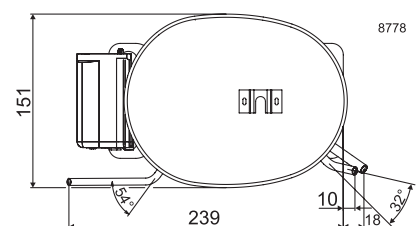
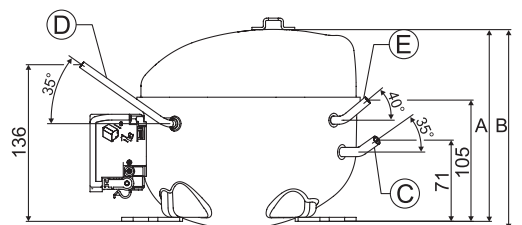
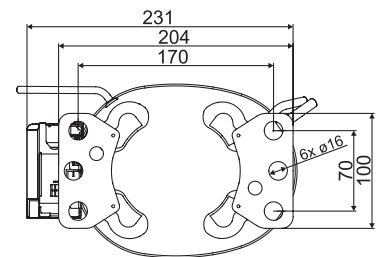
Displacement	cm ³	8.10
Oil quantity (type)	cm ³	165 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1620
Weight without electrical equipment	kg	8.10

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			56.5	78.8	105	115	135	171	211								
Power cons. in W			56.9	68.9	80.2	84	91.6	104	117								
Current cons. in A			0.27	0.33	0.38	0.40	0.44	0.50	0.56								
COP in W/W			0.99	1.14	1.31	1.37	1.48	1.64	1.80								

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			56.5	78.8	105	115	135	171	211								
Power cons. in W			55.8	66.8	76.8	80.2	86.6	96.5	107								
Current cons. in A			0.27	0.32	0.37	0.39	0.42	0.47	0.52								
COP in W/W			1.01	1.18	1.37	1.43	1.56	1.77	1.97								

ASHRAE LBP

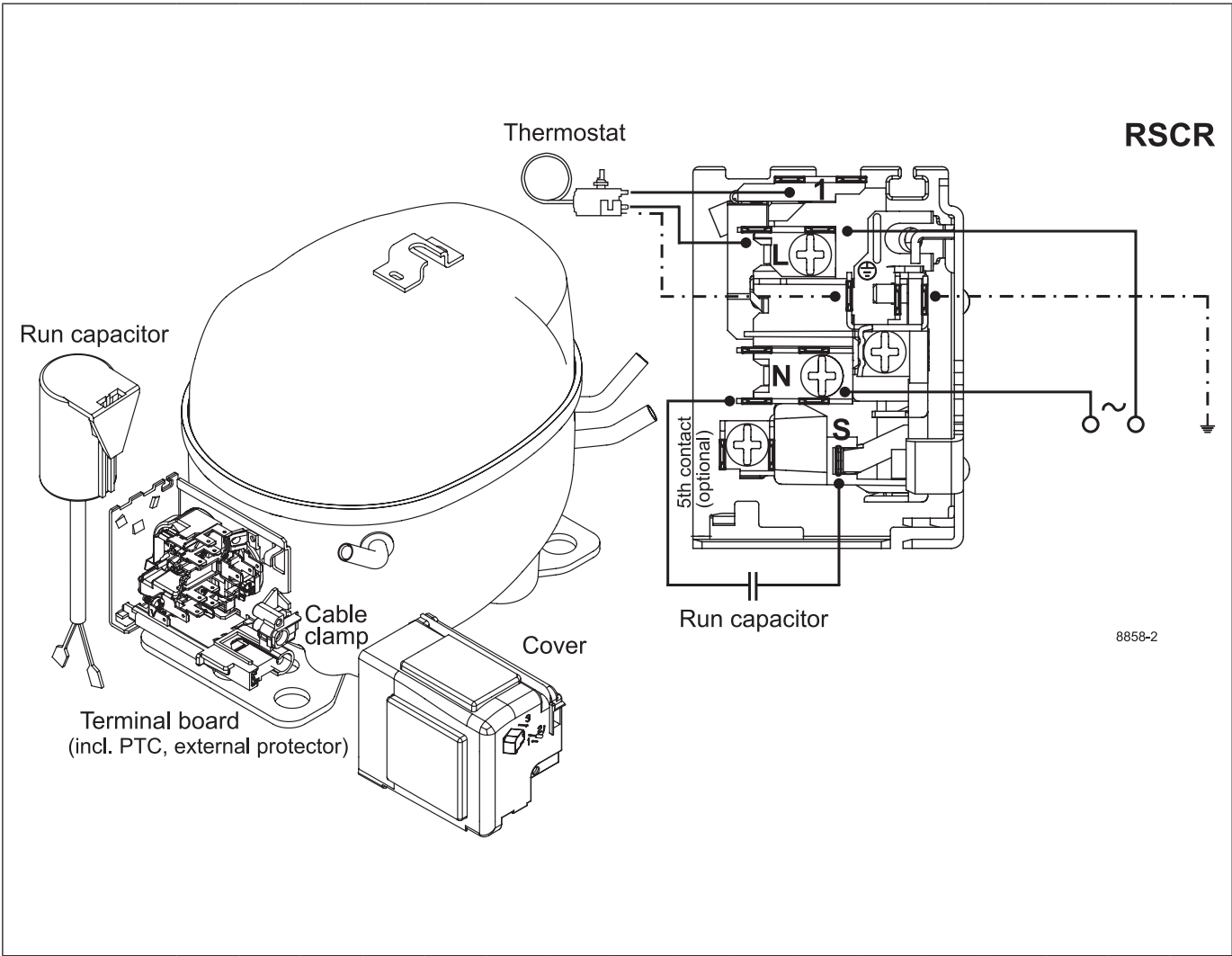
200V, 50Hz, PTC consumption incl., static cooling

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			70.2	96.8	128	140	165	208	258								
Power cons. in W			57.2	68.9	80	83.8	91.2	103	116								
Current cons. in A			0.28	0.33	0.38	0.40	0.44	0.50	0.56								
COP in W/W			1.23	1.41	1.60	1.67	1.81	2.02	2.21								

ASHRAE LBP

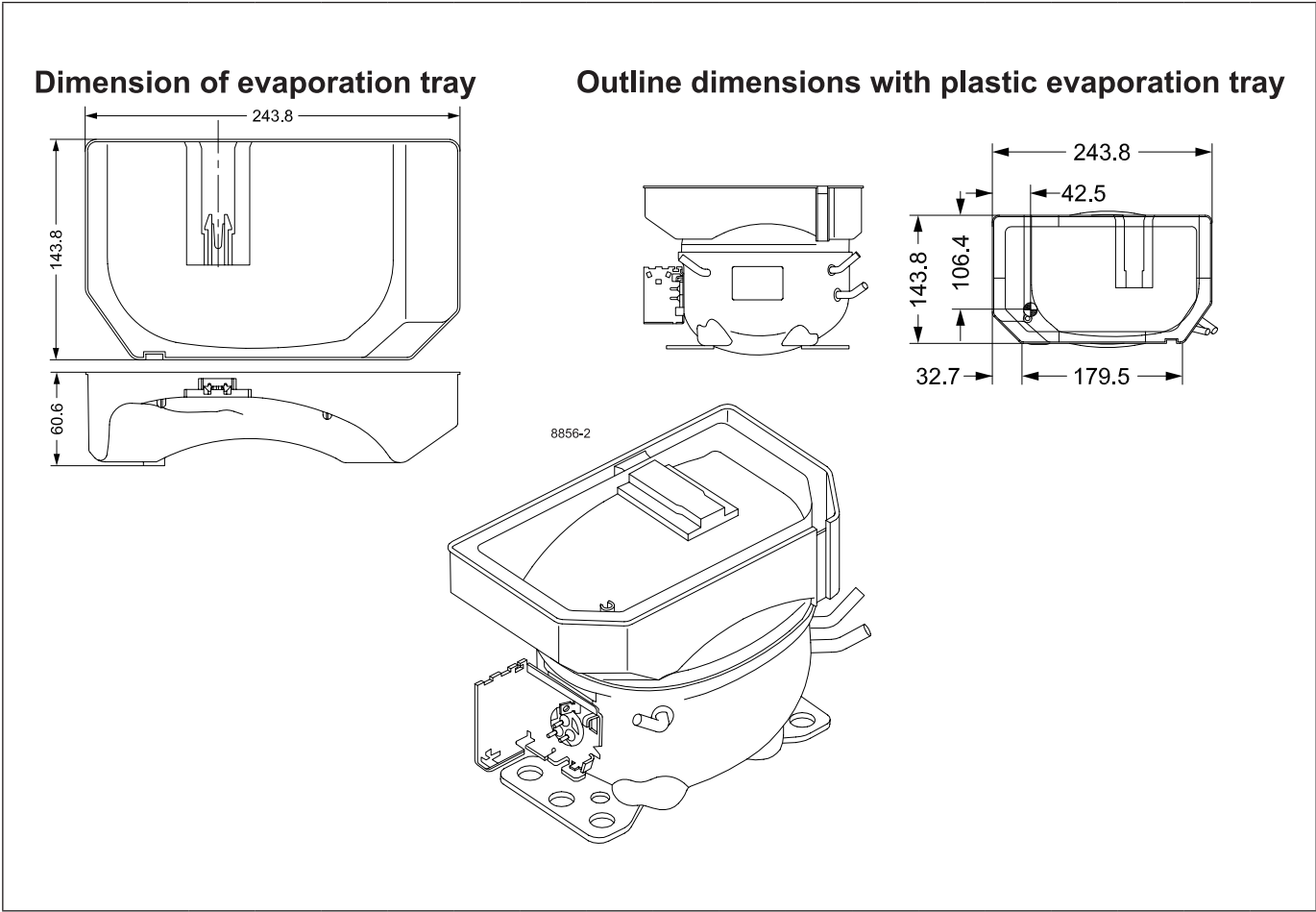
200V, 50Hz, RC 4 µF, PTC consumption incl., static cooling

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			70.2	96.8	128	140	165	208	258								
Power cons. in W			56	66.8	76.7	79.9	86.2	96	107								
Current cons. in A			0.27	0.32	0.37	0.38	0.42	0.47	0.51								
COP in W/W			1.25	1.45	1.67	1.75	1.91	2.17	2.42								



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			68.6	94.9	126	138	162	205	253									
Power cons. in W			64.9	77.8	90.6	95.1	104	118	135									
Current cons. in A			0.31	0.37	0.44	0.46	0.51	0.58	0.65									
COP in W/W			1.06	1.22	1.39	1.45	1.56	1.73	1.88									

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			85.4	117	154	168	198	249	309									
Power cons. in W			65.1	77.8	90.4	94.8	104	118	134									
Current cons. in A			0.31	0.37	0.44	0.46	0.50	0.57	0.64									
COP in W/W			1.31	1.50	1.70	1.77	1.91	2.11	2.31									



Accessories for HXK80AT			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		DCF5	Suction gas temperature	32°C	32°C
(incl. PTC and external protector)				Liquid temperature	no subcooling	32°C
Motor protector	AE 18 FU x		F5			
Evaporation tray (optional)			16299100			
All-in-one equipment, e.g. 4ZN			Code number	Mounting accessories		
Cover / cable clamp + screws / earthing screw			16168000	Code number		
on request, various options available						

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