

HXD45MA DELTA LBP/MBP Compressor Superior Efficiency R600a 220-240V 50Hz

General

Code number (pre-assembled RSIR start equipment)	CDO00084
Approvals	EN 60335-2-34 w. Annex AA
Compressors on pallet	168

Application

Application		LBP/MBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to 10	—
Voltage range	V	187 to 254	—
Max. condensing temperature continuous (short)	°C	65 (75)	—
Max. winding temperature continuous (short)	°C	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

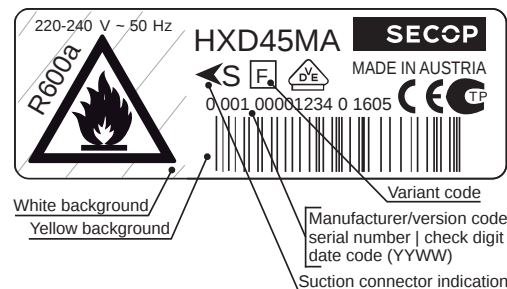
Motor type		RSCR/RSIR	
LRA (rated after 4 sec. UL984), HST LST	A	—	2.1
Cut in Current, HST LST	A	—	5.6
Resistance, main start winding (25°C)	Ω	38.9	50.8

Design

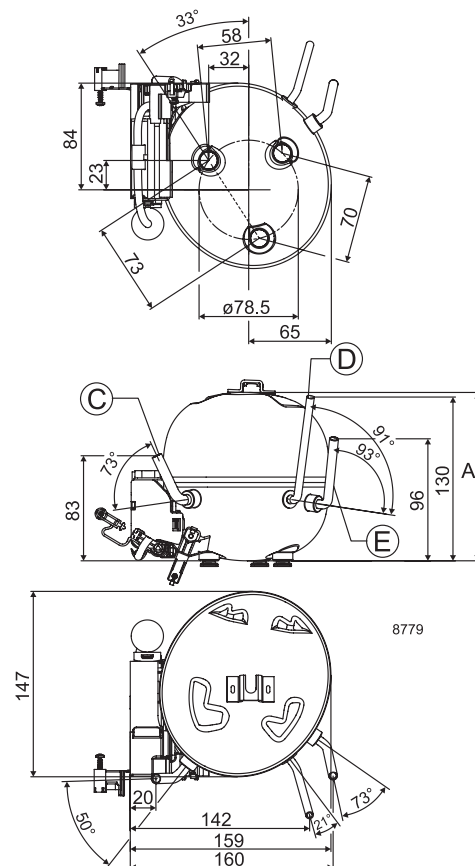
Displacement	cm ³	4.80
Oil quantity (type)	cm ³	84 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	837
Weight without electrical equipment	kg	3.8

Dimensions

Height	mm	A	133
		B	—
Suction connector	location/I.D. mm angle	C	6.2 73°
	material comment		Copper Rubber plug
Process connector	location/O.D. mm angle	D	6.0 91°
	material comment		Copper Rubber plug
Discharge connector	location/I.D. mm angle	E	5.0 93°
	material comment		Cu-plated steel Rubber plug
Oil cooler connector	location/I.D. mm angle	F	—
	material comment		—
Connector tolerance	I.D. mm		±0.1
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 MBP

220V, 50Hz, RC 2µF, ePTC 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			38.3	52.0	69.0	75.6	89.7	115	144	166	178	218	263	285	315		
Power cons. in W			38.6	43.3	48.5	50.3	53.9	59.6	65.5	69.5	71.6	77.7	83.9	86.6	90.0		
Current cons. in A			0.22	0.24	0.25	0.26	0.27	0.30	0.32	0.34	0.35	0.37	0.40	0.41	0.43		
COP in W/W			0.99	1.20	1.42	1.50	1.66	1.92	2.19	2.39	2.49	2.80	3.14	3.29	3.50		

ASHRAE LBP

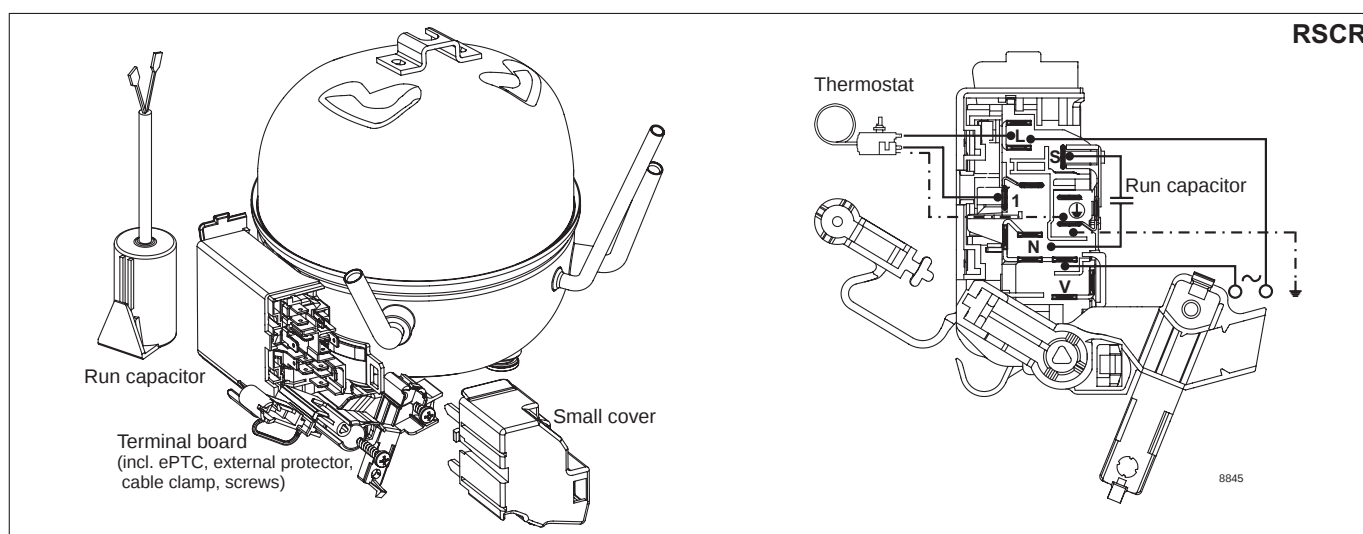
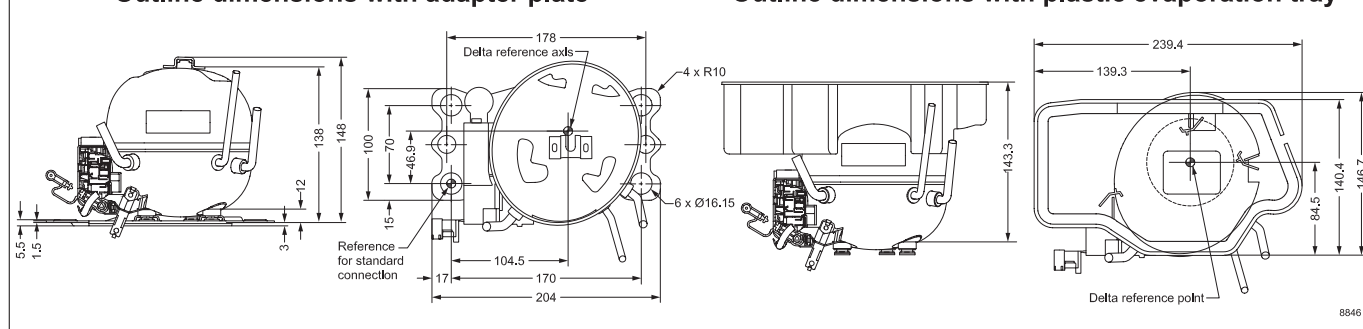
220V, 50Hz, RC 2µF, ePTC consumption incl., static cooling

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			37.1	54.1	74.2	81.9	98	126	158	182	196	239	288	312	344		
Power cons. in W			36.1	42.1	48.4	50.5	54.7	61.2	67.7	72.0	74.2	80.6	86.9	89.6	92.9		
Current cons. in A			0.22	0.24	0.26	0.27	0.29	0.31	0.34	0.36	0.37	0.40	0.43	0.44	0.45		
COP in W/W			1.03	1.28	1.54	1.62	1.79	2.06	2.34	2.53	2.64	2.96	3.32	3.48	3.70		

ASHRAE MBP

220V, 50Hz, RC 2µF, ePTC 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			33.3	48.7	66.8	73.6	88.1	113	142	164	176	214	259	280	309		
Power cons. in W			35.8	41.7	47.9	50.0	54.2	60.6	67.0	71.3	73.4	79.8	85.9	88.6	91.9		
Current cons. in A			0.22	0.24	0.26	0.27	0.29	0.31	0.34	0.36	0.37	0.40	0.43	0.44	0.45		
COP in W/W			0.93	1.17	1.39	1.47	1.62	1.87	2.12	2.30	2.39	2.69	3.01	3.16	3.36		

**Outline dimensions with adapter plate****Outline dimensions with plastic evaporation tray**

Accessories for	HXD45MA	Code number	Test conditions	EN 12900	ASHRAE	
				MBP	LBP	MBP
Run capacitor (optional)	4.8 mm spade connectors	2 µF	Condensing temperature	45°C	54.4°C	54.4°C
Small cover (compulsory, delivered separately)		160943_	Ambient temperature	32°C	32.2°C	35°C
Adapter plate		157008_	Suction gas temperature	20°C	32.2°C	35°C
Evaporator tray		162531_	Liquid temperature	no subcooling	32.2°C	46.1°C

Spare parts for HXD45MA		Code number	Mounting accessories (for adapter plate)		Code number
Terminal board	4.8 mm spade connectors	BX E4	Bolt joint for one comp.	Ø: 16 mm	118-1917
(incl. ePTC, external protector, cable clamp, screws)			Bolt joint in quantities	Ø: 16 mm	118-1918
Motor protector	AE23FLS	E4	Snap-on in quantities	Ø: 16 mm	118-1919

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