

HXD55MA DELTA LBP/MBP Compressor Superior Efficiency R600a 220-240V 50Hz

General

Code number (pre-assembled RSIR start equipment)	CDO00080
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

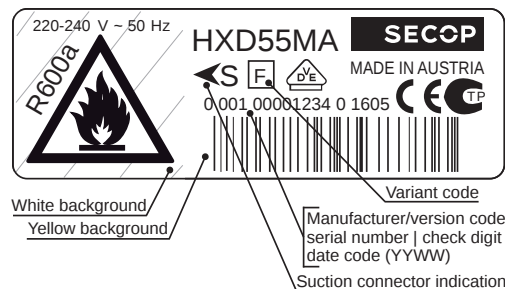
Motor type		RSCR/RSIR	
LRA (rated after 4 sec. UL984), HST LST	A	—	2.4
Cut in Current, HST LST	A	—	7.0
Resistance, main start winding (25°C)	Ω	36.3	32.6

Design

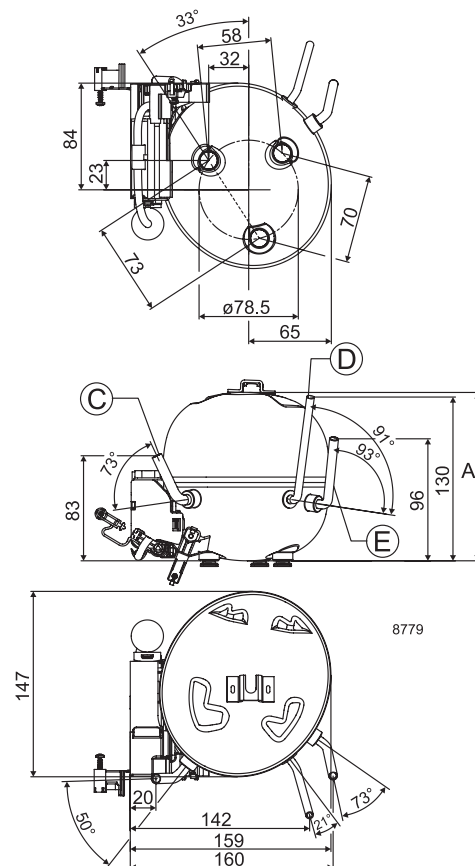
Displacement	cm ³	5.50
Oil quantity (type)	cm ³	84 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	837
Weight without electrical equipment	kg	3.9

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 2.0µF, 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			48.1	62.7	81.7	89.3	106	134	169	194	209	254	307	331	365		
Power cons. in W			47.2	53.5	60.0	62.2	66.6	73.4	80.5	85.2	87.7	95.1	103	106	111		
Current cons. in A			0.31	0.33	0.35	0.35	0.37	0.39	0.42	0.44	0.45	0.48	0.51	0.52	0.54		
COP in W/W			1.02	1.17	1.36	1.43	1.58	1.83	2.10	2.28	2.38	2.67	2.98	3.12	3.29		

ASHRAE LBP

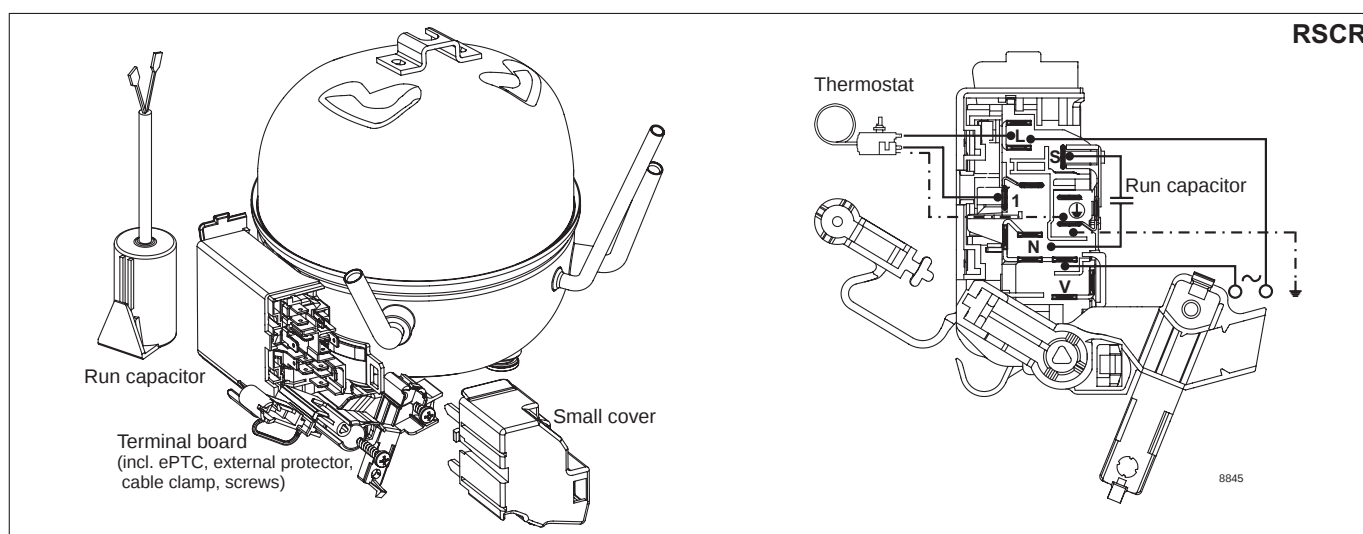
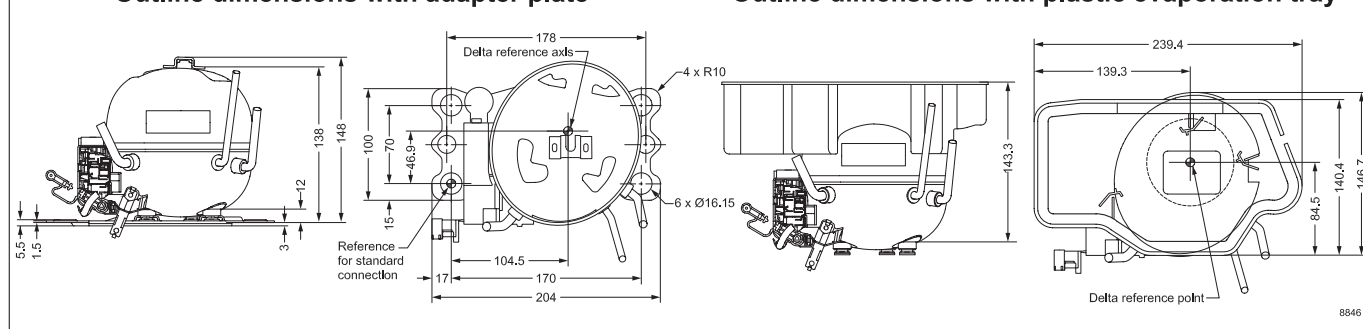
220V, 50Hz, RC 2.0µF, ePTC consumption incl., static cooling

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			51.0	67.3	88.5	96.9	115	147	185	213	229	280	338	365	403		
Power cons. in W			45.3	52.5	59.9	62.4	67.4	75	82.8	88	90.7	98.8	107	111	116		
Current cons. in A			0.31	0.33	0.35	0.36	0.38	0.41	0.44	0.46	0.47	0.51	0.54	0.56	0.58		
COP in W/W			1.13	1.28	1.48	1.55	1.71	1.96	2.23	2.42	2.52	2.83	3.15	3.3	3.49		

ASHRAE MBP

220V, 50Hz, RC 2.0µF, 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			45.9	60.6	79.6	87.1	103	132	166	192	206	251	303	328	361		
Power cons. in W			44.8	52.0	59.3	61.8	66.7	74.3	82.0	87.1	89.8	97.8	106	110	114		
Current cons. in A			0.31	0.33	0.35	0.36	0.38	0.41	0.44	0.46	0.47	0.51	0.54	0.56	0.58		
COP in W/W			1.02	1.16	1.34	1.41	1.55	1.78	2.03	2.20	2.29	2.57	2.86	2.99	3.16		

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

Accessories for	HXD55MA	Code number	Test conditions	EN 12900	ASHRAE	
				MBP	LBP	MBP
Run capacitor (optional)	4.8 mm spade connectors	2.0 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 HXD55MA		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

Nidec GA Compressors accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Nidec GA Compressors reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without substantial changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Nidec Global Appliance Germany GmbH. All rights reserved. www.secop.com