

Condensing Unit

Technical Data Sheet

Model CML90FB_N
Voltage 220-240V 50Hz ~1
Refrigerant R404A

APPLICATION

Application	Low Back Pressure
Refrigerant	R404A
Evaporating Temp.	-40,0 °C to -10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 °C

COMPRESSOR

Displacement	8,85 cm ³
Diameter	25,40 mm
Stroke	17,47 mm
Oil type	ISO VG 32 ESTER
Oil charge	345 cm ³

MOTOR

Nominal Power	1/3 hp
Voltage/Frequency	220-240V 50Hz
Voltage range	198-255 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	13,00 A
Max. Cont. Current (MCC)	3,00 A
Main W. resist. at 25°C	8,60 Ω
Start W. resist. at 25°C	27,80 Ω

NOMINAL PERFORMANCE

ASHRAE

Cooling Capacity	419 W
COP	1,18 W/W
EER	1,01 kCal/Wh
Input Power	355 W
Current	1,99 A

TEST CYCLE CONDITIONS

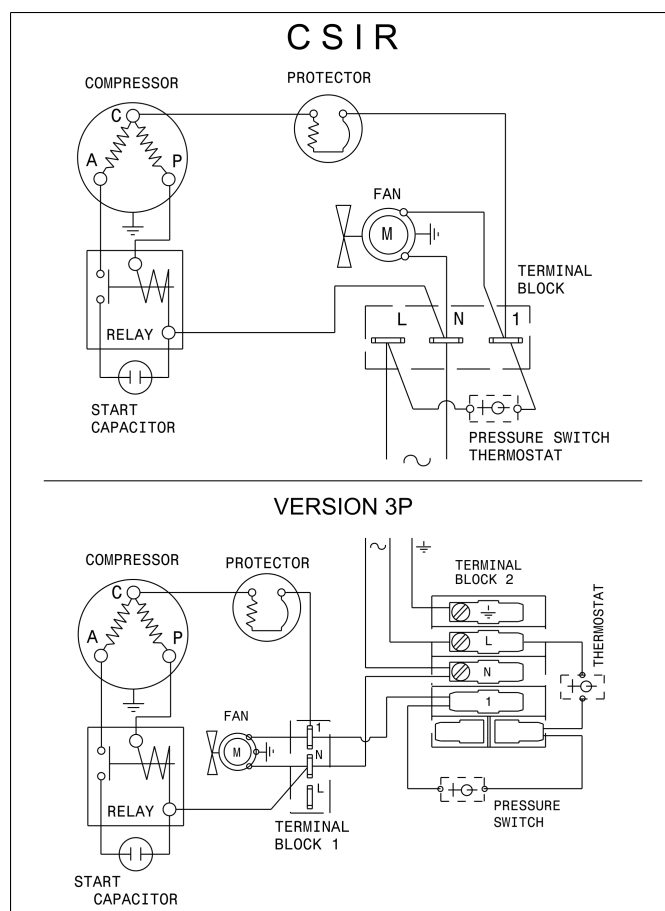
LBP

Evaporating temp. (T _e)	-23,3 °C
Condensing temp. (T _c)	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C
Ambient temp. (T _{amb.})	32,0 °C
Suction temp. (T _{suction})	32,0 °C
Voltage/Frequency	220 V 50 Hz

CONDENSER AND FAN DATA

Condenser type	CU-AL
Condenser model	8T 4R
Fan blade (Ø mm / °)	200 / 28
Fan motor	5W 230V 50/60Hz

WIRING DIAGRAM



REFRIGERATION CAPACITY (W)

Evaporating Temperature (°C)

Model	Motor	-40	-35	-30	-25	-23.3			-10
						W	Winp	A	
CML90FB_N	CSIR	195	257	310	388	419	355	1.99	709

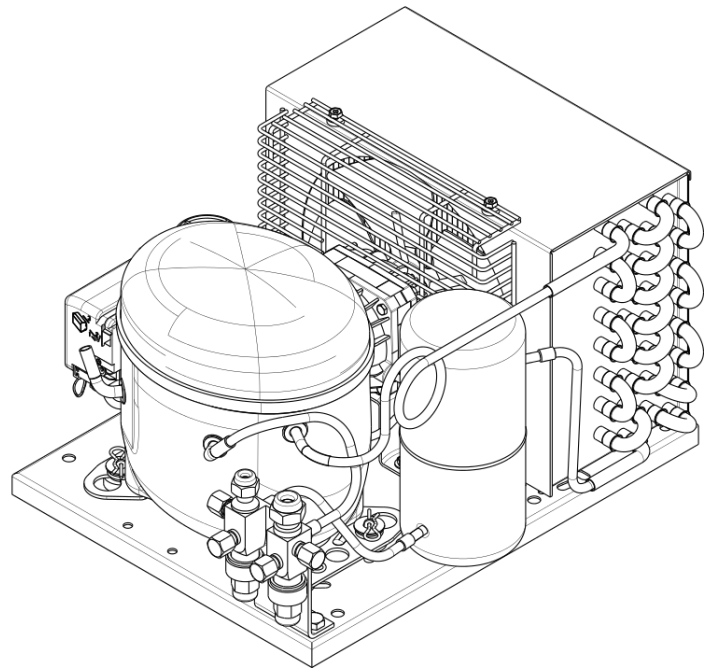
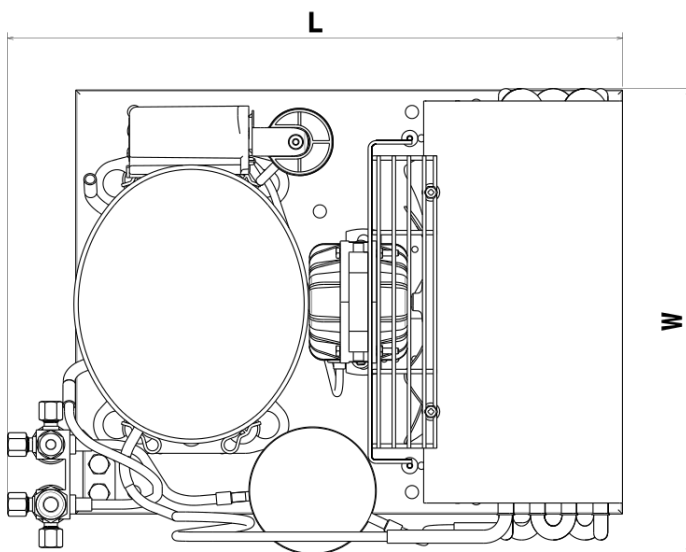
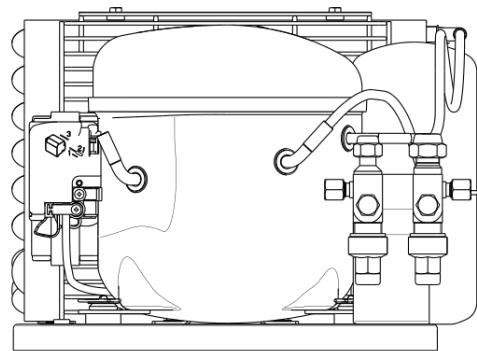
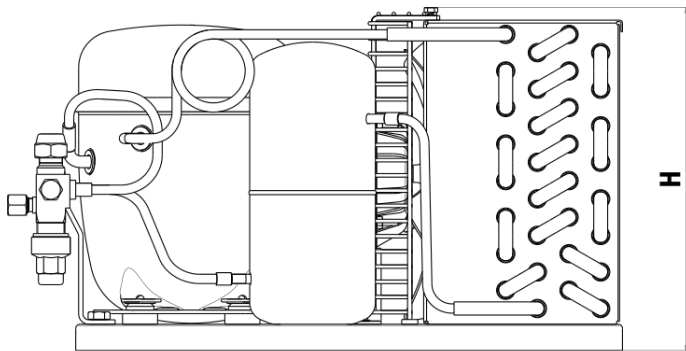
ASHRAE LBP: Condensing temperature: 55°C, Liquid temperature: 32°C, Suction temperature: 32°C, Ambient temperature: 32°C

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VERSIONS

VERSION 1	VERSION 2	VERSION 3	VERSION 3P	VERSION 4
Tube	Service valve	Service valve and receiver	Service valve, receiver, pressure switch	Schrader valve on the service port
Suction tube internal diam.: 6,5 mm Discharge tube internal diam.: 4,9 mm Net Weight: 18,4 Kg	Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 18,9 Kg	Receiver vol.: 0,9 l Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 19,2 Kg	Receiver vol.: 0,9 l Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 20,3 Kg	Suction tube internal diam.: 6,5 mm Discharge tube internal diam.: 4,9 mm Net Weight: 18,4 Kg

DIMENSIONS (Version 3 drawing)



VERSION 1-4 (WxLxH) (mm)	VERSION 2 (WxLxH) (mm)	VERSION 3 (WxLxH) (mm)	VERSION 3P (WxLxH) (mm)
315x385x235	315x425x235	320x425x235	330x435x245