

Condensing Unit

Technical Data Sheet

Model CMS34FF_N
Voltage 208V 60Hz ~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	34,42 cm³
Diameter	42,86 mm
Stroke	23,85 mm
Oil type	ISO VG 46 ESTER
Oil charge	887 cm³

MOTOR

Nominal Power	1 hp
Voltage/Frequency	208V 60Hz
Voltage range	177-229 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	57,00 A
Max. Cont. Current (MCC)	14,00 A
Main W. resist. at 25°C	0,84 Ω
Start W. resist. at 25°C	3,21 Ω

NOMINAL PERFORMANCE

ASHRAE

Cooling Capacity	2.091 W
COP	1,28 W/W
EER	1,10 kCal/Wh
Input Power	1.632 W
Current	7,91 A

TEST CYCLE CONDITIONS

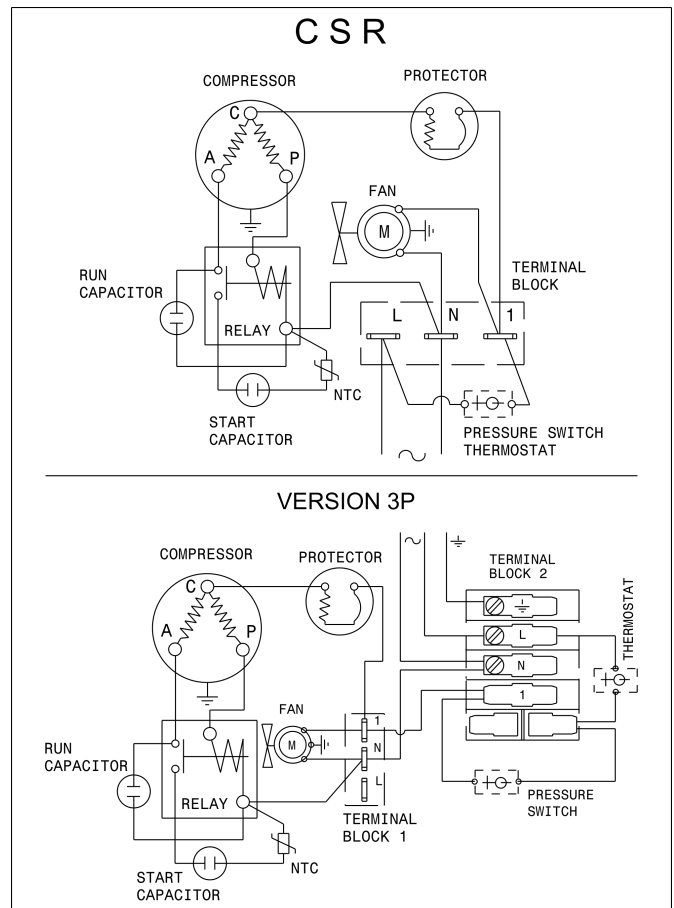
LBP

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	208 V 60 Hz

CONDENSER AND FAN DATA

Condenser type	CU-AL
Condenser model	12T 4R
Fan blade (Ø mm / °)	300 / 19
Fan motor	25W 230V 50/60Hz

WIRING DIAGRAM



REFRIGERATION CAPACITY (W)

Evaporating Temperature (°C)

Model	Motor	-40	-35	-30	-25	-23.3			-10
						W	Winp	A	
CMS34FF_N	CSR	781	980	1535	2979	2091	1632	7.91	3311

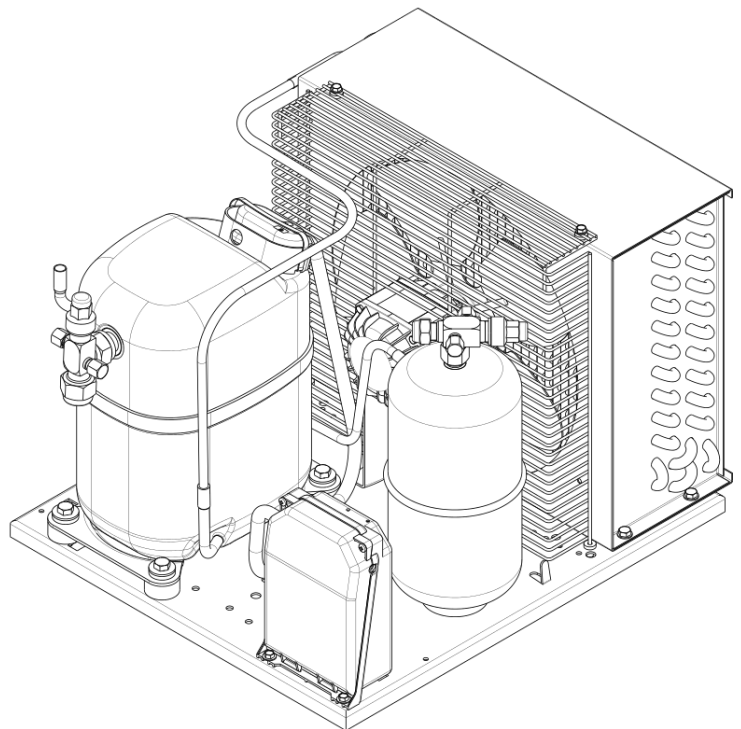
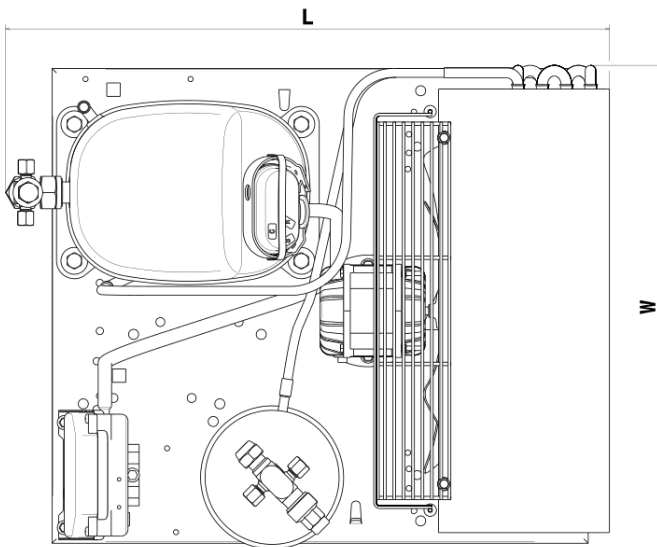
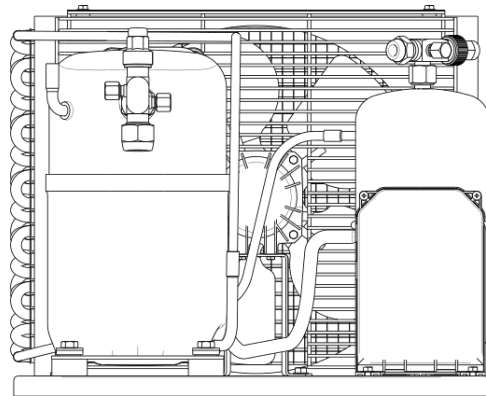
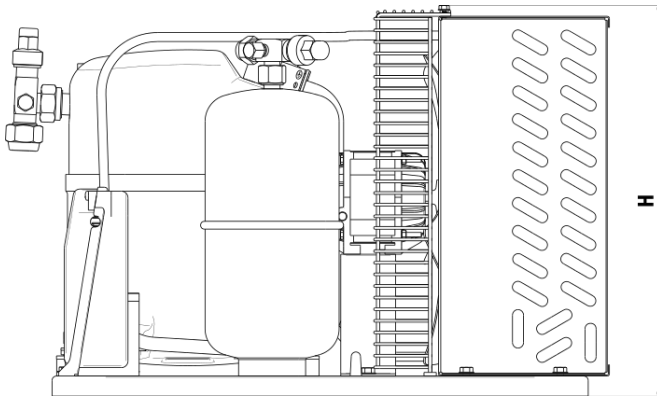
ASHRAE LBP: Condensing temperature: 55°C, Liquid temperature: 32°C, Suction temperature: 32°C, Ambient temperature: 32°C

Condensing Unit Technical Data Sheet

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.: 12,7 mm Discharge tube internal diam.: 8,0 mm Net Weight: 41,5 Kg	Suction valve: 5/8" Discharge valve: 3/8" Net Weight: 42,5 Kg	Receiver vol.: 2,4 l Suction valve: 5/8" Discharge valve: 3/8" Net Weight: 44,0 Kg	Receiver vol.: 2,4 l Suction valve: 5/8" Discharge valve: 3/8" Net Weight: 45,1 Kg	Suction tube internal diam.: 12,7 mm Discharge tube internal diam.: 8,0 mm Net Weight: 41,5 Kg

DIMENSIONS (Version 3 drawing)



VERSION 1-4 (WxLxH) (mm)	VERSION 2 (WxLxH) (mm)	VERSION 3 (WxLxH) (mm)	VERSION 3P (WxLxH) (mm)
430x535x350	430x535x350	435x530x350	435x530x350