

Condensing Unit Technical Data Sheet

Model CNPY12RAa_N
Voltage 220-240V 50Hz ~1
Refrigerant R290

APPLICATION

Application	High Back Pressure
Refrigerant	R290
Evaporating Temp.	-15,0 °C to 10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 °C

COMPRESSOR

Displacement	12,10 cm³
Diameter	27,00 mm
Stroke	21,13 mm
Oil type	ISO VG 32 ESTER
Oil charge	400 cm³

MOTOR

Nominal Power	1/2 hp
Voltage/Frequency	220-240V 50Hz
Voltage range	198-255 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	20,00 A
Max. Cont. Current (MCC)	5,20 A
Main W. resist. at 25°C	4,50 Ω
Start W. resist. at 25°C	8,70 Ω

NOMINAL PERFORMANCE

Cooling Capacity	1.880 W
COP	3,09 W/W
EER	2,66 kCal/Wh
Input Power	608 W
Current	2,70 A

ASHRAE

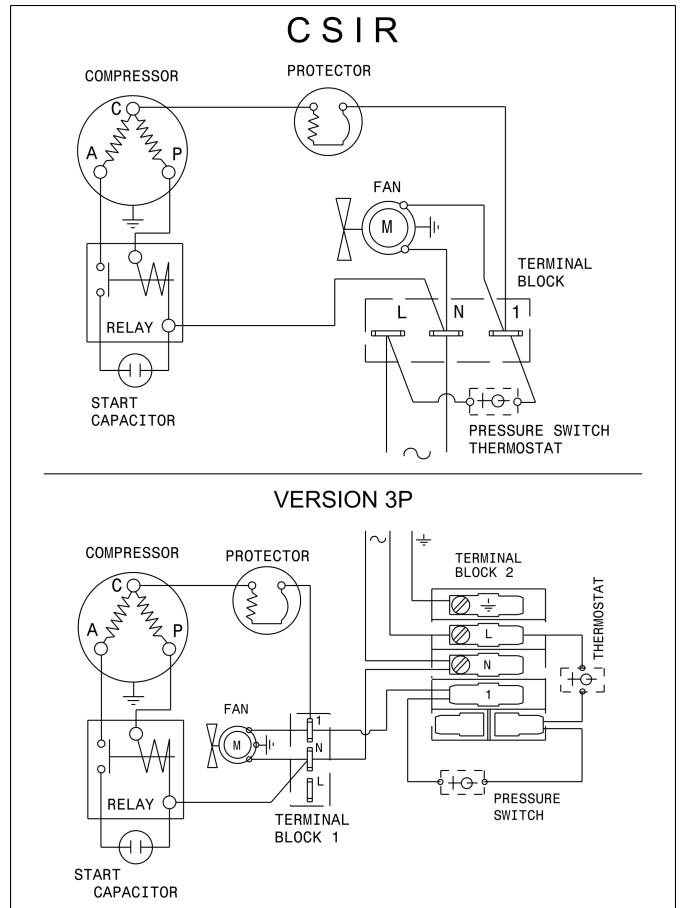
TEST CYCLE CONDITIONS

	HBP
Evaporating temp. (T _e)	7,2 °C
Condensing temp. (T _c)	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C
Ambient temp. (T _{amb.})	35,0 °C
Suction temp. (T _{suction})	35,0 °C
Voltage/Frequency	220 V 50 Hz

CONDENSER AND FAN DATA

Condenser type	CU-AL
Condenser model	12T 3R
Fan blade (Ø mm / °)	300 / 25
Fan motor	25W 220-240V 50/60Hz

WIRING DIAGRAM



REFRIGERATION CAPACITY (W) Evaporating Temperature (°C)

Model	Motor	-25	-15	-5	5	7.2			10
						W	Winp	A	
CNPY12RAa_N	CSIR	-	826	1238	1753	1880	608	2.7	2047

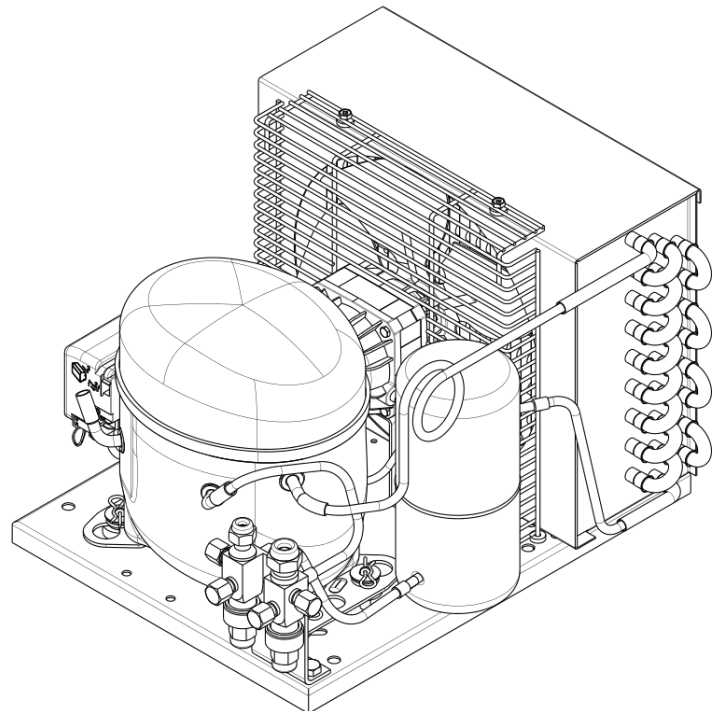
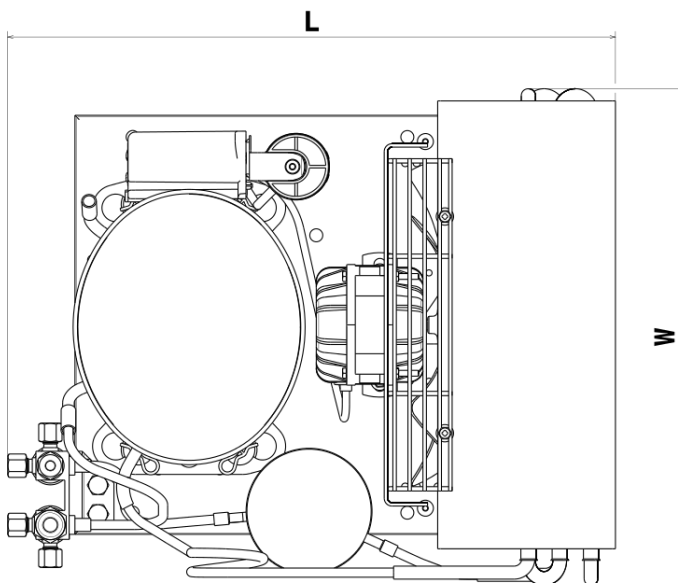
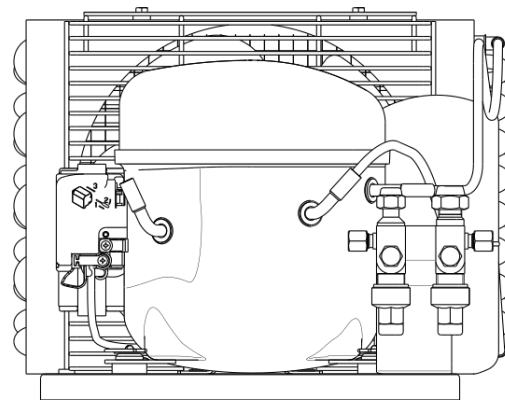
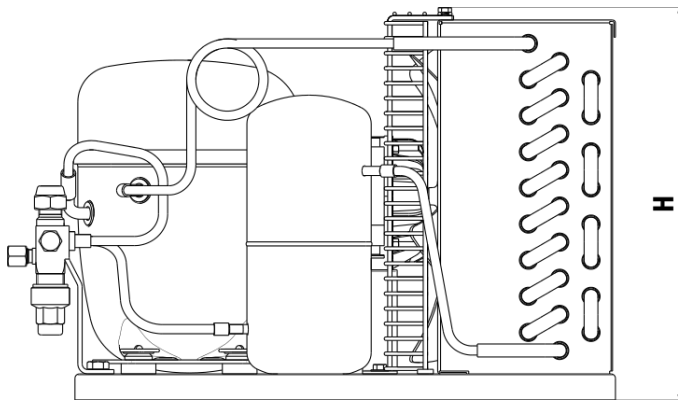
ASHRAE HBP: Condensing temperature: 55°C, Liquid temperature: 46°C, Suction temperature: 35°C, Ambient temperature: 35°C

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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.: 8,1 mm Discharge tube internal diam.: 6,5 mm Net Weight: 27,7 Kg	Suction valve: 3/8" Discharge valve: 3/8" Net Weight: 28,1 Kg	Receiver vol.: 1,1 l Suction valve: 3/8" Discharge valve: 3/8" Net Weight: 28,9 Kg	Receiver vol.: 1,1 l Suction valve: 3/8" Discharge valve: 3/8" Net Weight: 30,0 Kg	Suction tube internal diam.: 8,1 mm Discharge tube internal diam.: 6,5 mm Net Weight: 27,7 Kg

DIMENSIONS (Version 3 drawing)



VERSION 1-4 (WxLxH) (mm)	VERSION 2 (WxLxH) (mm)	VERSION 3 (WxLxH) (mm)	VERSION 3P (WxLxH) (mm)
435x520x350	435x520x350	435x520x350	435x520x350