

# Condensing Unit Technical Data Sheet

**Model** CNPY12Lab\_N  
**Voltage** 220-240V 50Hz ~1  
**Refrigerant** R290

### APPLICATION

Application	Low Back Pressure
Refrigerant	R290
Evaporating Temp.	-40,0 °C to -10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 °C

### COMPRESSOR

Displacement	12,10 cm <sup>3</sup>
Diameter	27,00 mm
Stroke	21,13 mm
Oil type	ISO VG 32 ESTER
Oil charge	400 cm <sup>3</sup>

### MOTOR

Nominal Power	3/8 hp
Voltage/Frequency	220-240V 50Hz
Voltage range	198-255 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	14,20 A
Max. Cont. Current (MCC)	3,20 A
Main W. resist. at 25°C	6,40 Ω
Start W. resist. at 25°C	10,40 Ω

### NOMINAL PERFORMANCE

Cooling Capacity	588 W
COP	1,42 W/W
EER	1,22 kCal/Wh
Input Power	414 W
Current	2,98 A

### ASHRAE

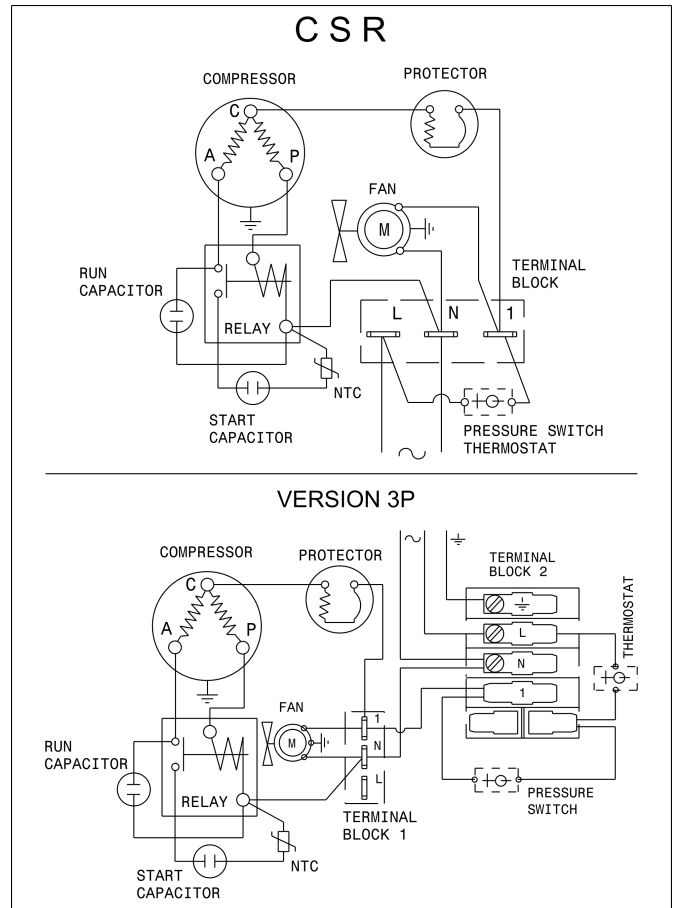
### TEST CYCLE CONDITIONS

	<b>LBP</b>
Evaporating temp. (T <sub>e</sub> )	-23,3 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	32,0 °C
Ambient temp. (T <sub>amb.</sub> )	32,0 °C
Suction temp. (T <sub>suction</sub> )	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	
CNPY12Lab_N	CSR	273	360	455	570	588	414	2.98	870

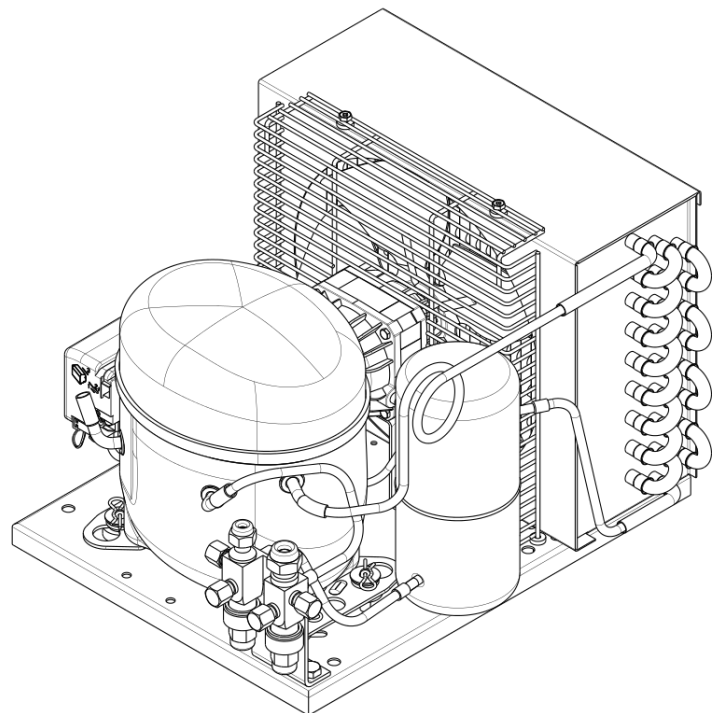
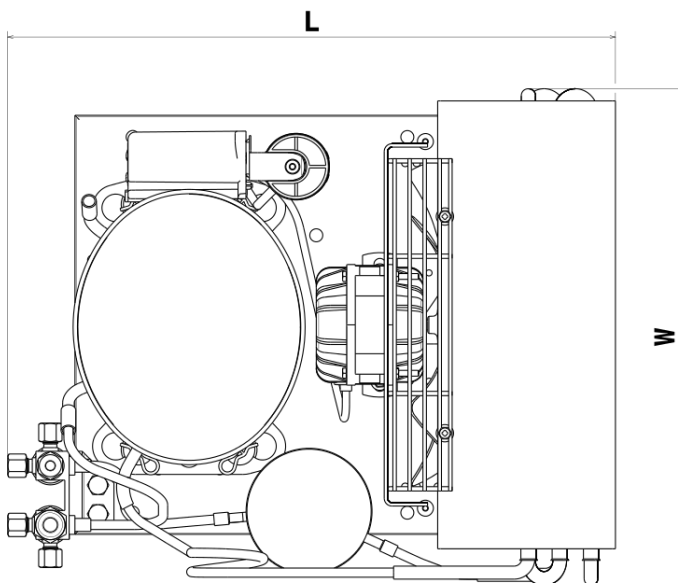
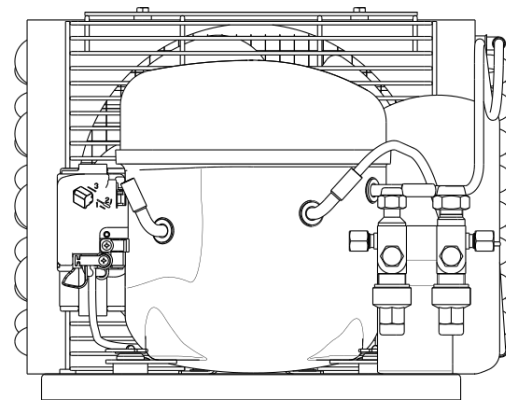
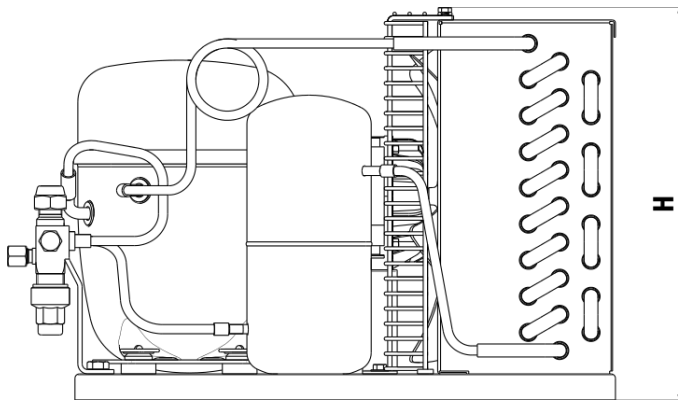
ASHRAE LBP: Condensing temperature: 55°C, Liquid temperature: 32°C, Suction temperature: 32°C, Ambient temperature: 32°C

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## VERSIONS

VERSION 1	VERSION 2	VERSION 3	VERSION 3P	VERSION 4
<b>Tube</b>	<b>Service valve</b>	<b>Service valve and receiver</b>	<b>Service valve, receiver, pressure switch</b>	<b>Schrader valve on the service port</b>
Suction tube internal diam.: 8,1 mm Discharge tube internal diam.: 6,5 mm Net Weight: 22,2 Kg	Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 22,7 Kg	Receiver vol.: 0,9 l Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 23,0 Kg	Receiver vol.: 0,9 l Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 24,1 Kg	Suction tube internal diam.: 8,1 mm Discharge tube internal diam.: 6,5 mm Net Weight: 22,2 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