

# Condensing Unit Technical Data Sheet

**Model** CNBC30RA\_N  
**Voltage** 220-240V 50Hz ~1  
**Refrigerant** R290

## APPLICATION

Application High-Medium Back Pressure  
 Refrigerant R290  
 Evaporating Temp. -25,0 °C to 10,0 °C  
 Expansion Capillar/Valve  
 Comp. Cooling Fan cooled  
 Max. ambient temp. 43,0 °C

## COMPRESSOR

Displacement 3,10 cm<sup>3</sup>  
 Diameter 17,20 mm  
 Stroke 13,40 mm  
 Oil type ISO VG 32 ESTER  
 Oil charge 120 cm<sup>3</sup>

## MOTOR

Nominal Power 1/10 hp  
 Voltage/Frequency 220-240V 50Hz  
 Voltage range 187-255 V  
 Type CSIR  
 Phase number 1 PH  
 Locked Rotor Amps (LRA) 6,50 A  
 Max. Cont. Current (MCC) 0,00 A  
 Main W. resist. at 25°C 16,50 Ω  
 Start W. resist. at 25°C 23,60 Ω

## NOMINAL PERFORMANCE

Cooling Capacity	444 W
COP	2,44 W/W
EER	2,10 kCal/Wh
Input Power	182 W
Current	1,15 A

## ASHRAE

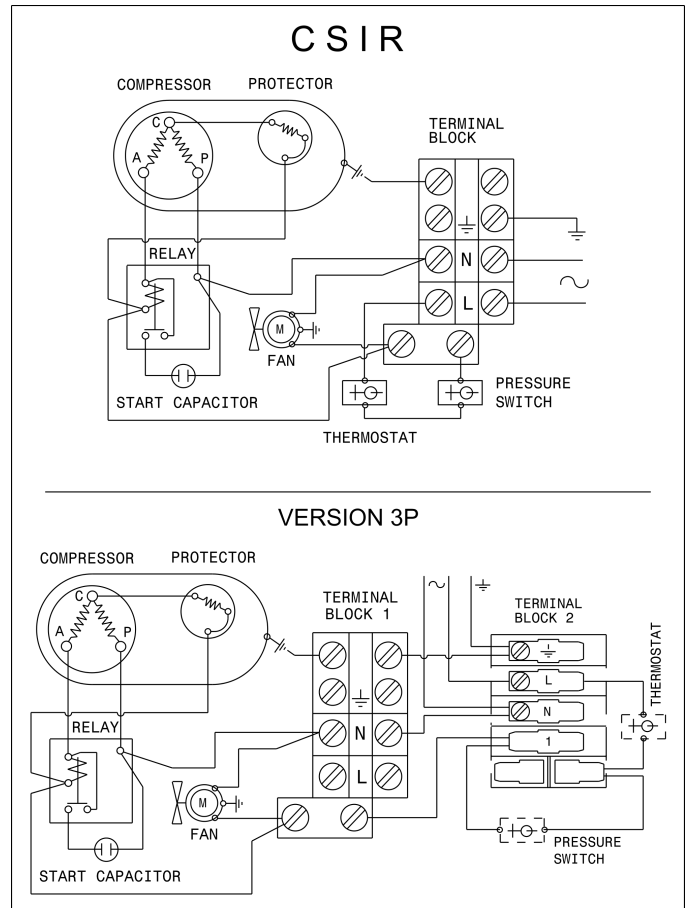
## TEST CYCLE CONDITIONS

	<b>HMBP</b>
Evaporating temp. (T <sub>e</sub> )	7,2 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	46,0 °C
Ambient temp. (T <sub>amb.</sub> )	35,0 °C
Suction temp. (T <sub>suction</sub> )	35,0 °C
Voltage/Frequency	220 V 50 Hz

## CONDENSER AND FAN DATA

Condenser type	CU-AL
Condenser model	12118
Fan blade (Ø mm / °)	172 / 28
Fan motor	5W 230V 50/60Hz

## WIRING DIAGRAM



## REFRIGERATION CAPACITY (W) Evaporating Temperature (°C)

Model	Motor	-25	-15	-5	5	7.2			10
						W	Winp	A	
CNBC30RA_N	CSIR	148	217	316	445	444	182	1.15	520

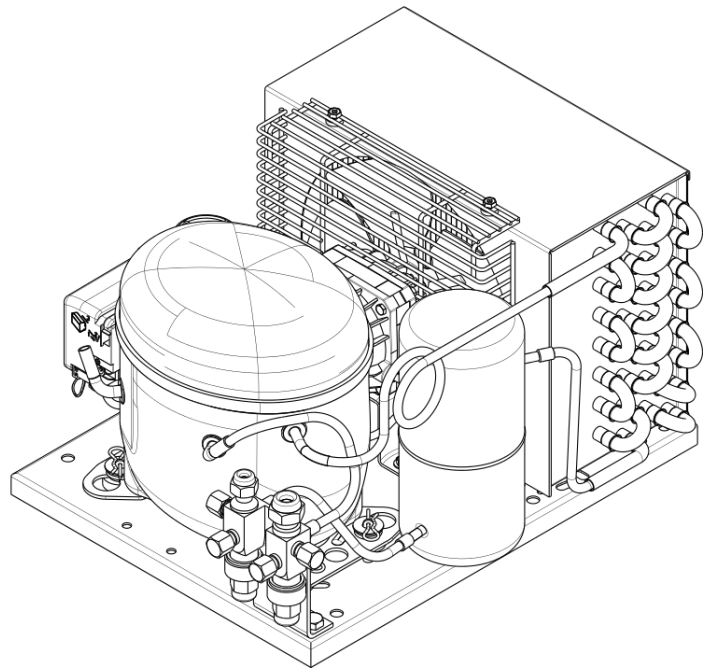
ASHRAE HMBP: Condensing temperature: 55°C, Liquid temperature: 46°C, Suction temperature: 35°C, Ambient temperature: 35°C

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## VERSIONS

VERSION 1	VERSION 2	VERSION 3	VERSION 3P	VERSION 4
<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.: 6,1 mm Discharge tube internal diam.: 5,1 mm Net Weight: 0,0 Kg	Suction valve: 1/2" Discharge valve: 1/4" Net Weight: 0,0 Kg	Receiver vol.: 0,9 l Suction valve: 1/2" Discharge valve: 1/4" Net Weight: 0,0 Kg	Receiver vol.: 0,9 l Suction valve: 1/2" Discharge valve: 1/4" Net Weight: 0,0 Kg	Suction tube internal diam.: 6,1 mm Discharge tube internal diam.: 5,1 mm Net Weight: 0,0 Kg

## DIMENSIONS (Version 3 drawing)



VERSION 1-4 (WxLxH) (mm)	VERSION 2 (WxLxH) (mm)	VERSION 3 (WxLxH) (mm)	VERSION 3P (WxLxH) (mm)
255x330x205	315x425x205	320x425x205	335x430x240