

Condensing Unit

Technical Data Sheet

Compressor model **CNST30NG_N**
Voltage **200-220/220-230V 50/60Hz ~1**
Refrigerant **R290**
Compressor status

APPLICATION

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

COMPRESSOR

Displacement 29,95 cm³
Diameter 39,98 mm
Stroke 23,85 mm
Oil type ISO VG 46 ESTER
Oil charge 700 cm³
HP 1 hp

MOTOR

Voltage/Frequency 220-230V 60Hz
Voltage range 198-253 V
Type CSR
Phase number 1 PH
Locked Rotor Amps (LRA) 39,10 A
Max. Cont. Current (MCC) 10,30 A
Main W. resist. at 25°C 2,45 Ω
Start W. resist. at 25°C 5,77 Ω

NOMINAL PERFORMANCE

ASHRAE

Cooling Capacity	1.425 W
COP	1,23 W/W
EER	1,06 kCal/Wh
Input Power	1.155 W
Current	4,56 A

TEST CYCLE CONDITIONS

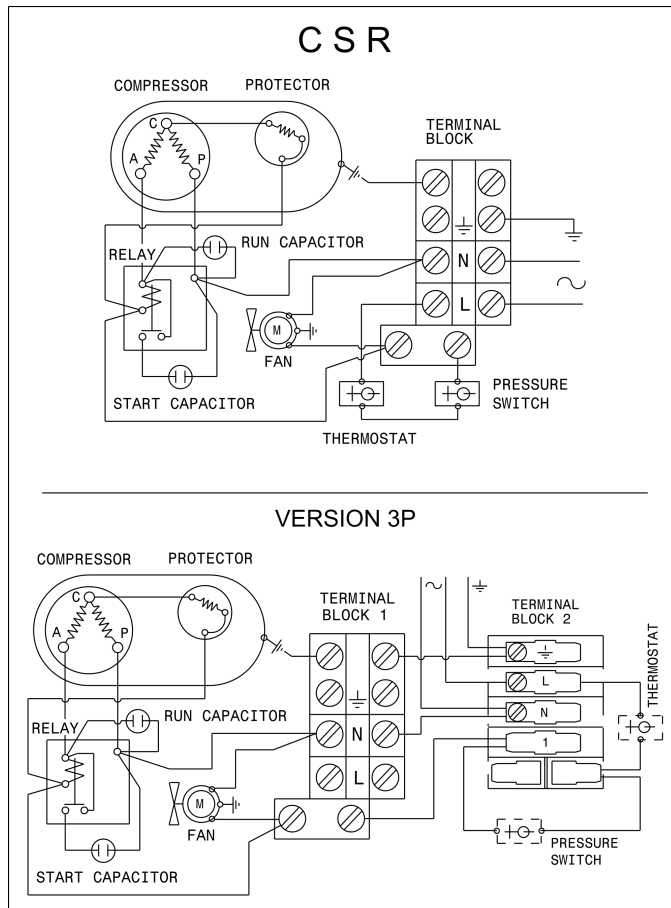
LMBP

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	230 V 60 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	-40	-35	-30	-25	-23.3			-10
						W	Winp	A	
CNST30NG_N	CSR	442	650	932	1287	1425	1155	4.56	2803

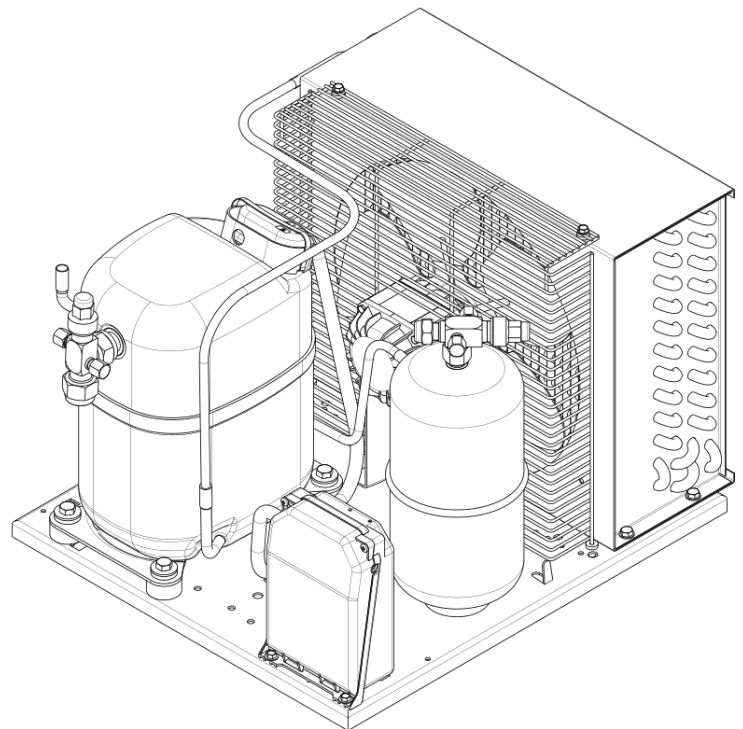
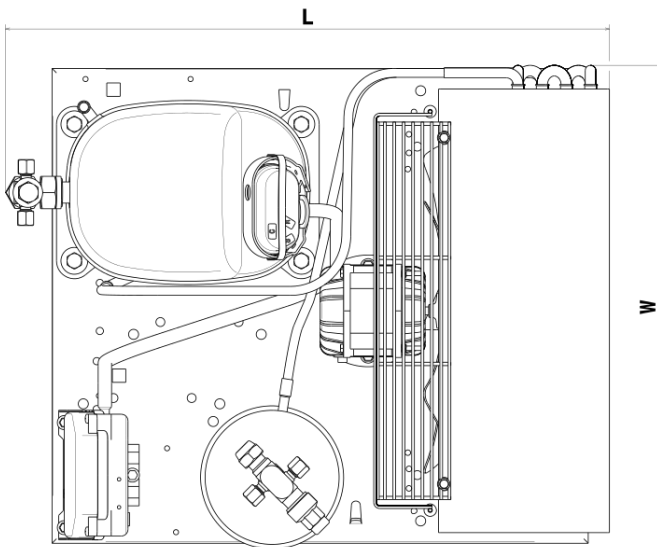
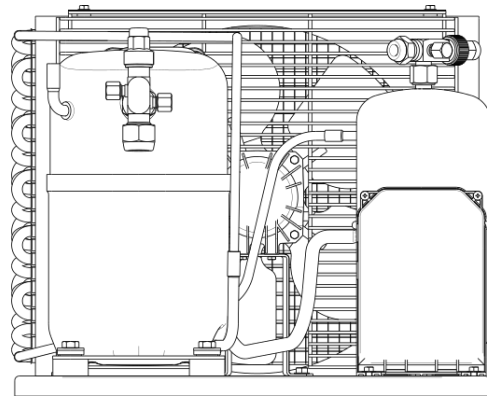
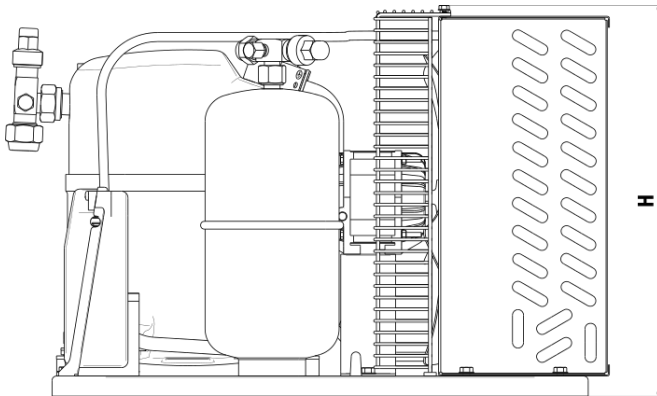
ASHRAE LMBP: Condensing temperature: 55°C, Liquid temperature: 32°C, Suction temperature: 32°C, Ambient temperature: 32°C

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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.: 12,7 mm Discharge tube internal diam.: 8,0 mm Net Weight: 36,0 Kg	Suction valve: 5/8" Discharge valve: 3/8" Net Weight: 37,0 Kg	Receiver vol.: 2,4 l Suction valve: 5/8" □□□: 3/8" Net Weight: 38,5 Kg	Receiver vol.: 2,4 l Suction valve: 5/8" Discharge valve: 3/8" Net Weight: 39,6 Kg	Suction tube internal diam.: 12,7 mm Discharge tube internal diam.: 8,0 mm Net Weight: 36,0 Kg

DIMENSIONS (Version 3 drawing)



VERSION 1-4 (WxLxH) (mm)	VERSION 2 (WxLxH) (mm)	VERSION 3 (WxLxH) (mm)	VERSION 3P (WxLxH) (mm)
430x505x350	430x535x350	435x535x350	435x535x350