

Condensing Unit Technical Data Sheet

Model CMX21FBa_N
Voltage 220-240V 50Hz ~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 20,72 cm³
 Diameter 34,93 mm
 Stroke 21,62 mm
 Oil type ISO VG 32 ESTER
 Oil charge 650 cm³

MOTOR

Nominal Power 3/4 hp
 Voltage/Frequency 220-240V 50Hz
 Voltage range 187-255 V
 Type CSR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 24,00 A
 Max. Cont. Current (MCC) 6,50 A
 Main W. resist. at 25°C 3,04 Ω
 Start W. resist. at 25°C 7,10 Ω

NOMINAL PERFORMANCE

| | |
|------------------|--------------|
| Cooling Capacity | 1.062 W |
| COP | 1,49 W/W |
| EER | 1,28 kCal/Wh |
| Input Power | 712 W |
| Current | 2,98 A |

ASHRAE

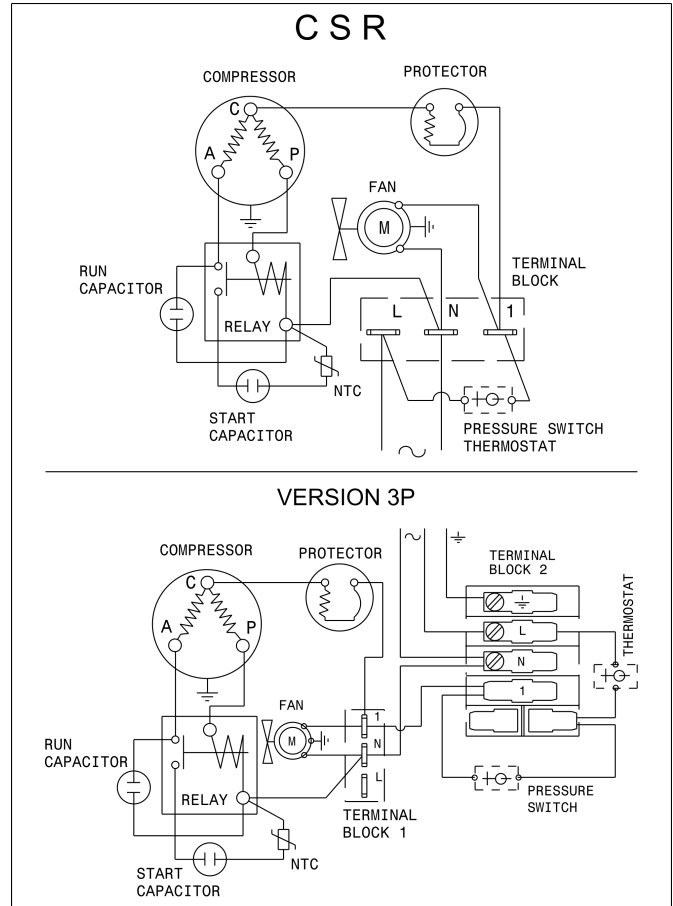
TEST CYCLE CONDITIONS

| | 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 | 220 V 50 Hz |

CONDENSER AND FAN DATA

| | |
|----------------------|------------------|
| Condenser type | CU-AL |
| Condenser model | 10T 4R |
| Fan blade (Ø mm / °) | 230 / 28 |
| Fan motor | 10W 230V 50/60Hz |

WIRING DIAGRAM



REFRIGERATION CAPACITY (W) Evaporating Temperature (°C)

| Model | Motor | -40 | -35 | -30 | -25 | -23.3 | | | -10 |
|------------|-------|-----|-----|-----|------|-------|------|------|------|
| | | | | | | W | Winp | A | |
| CMX21FBa_N | CSR | 544 | 718 | 840 | 1052 | 1062 | 712 | 2.98 | 1560 |

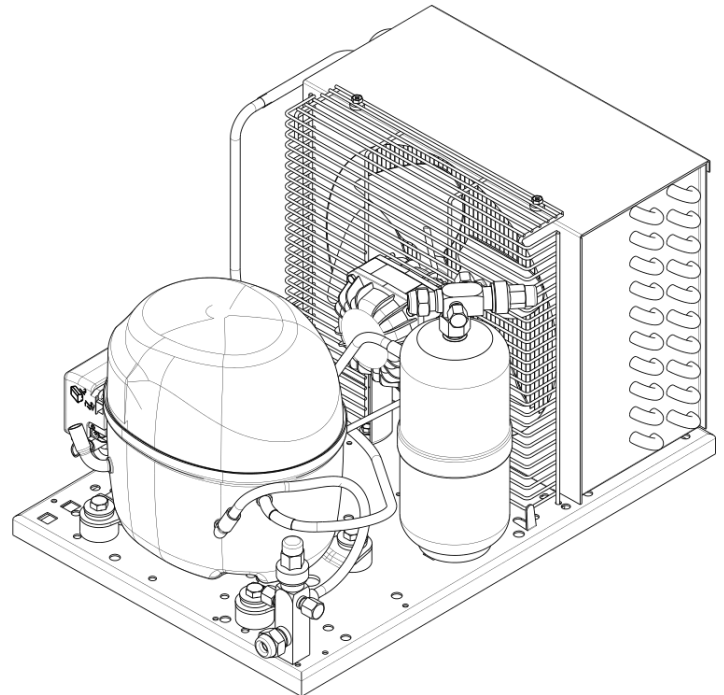
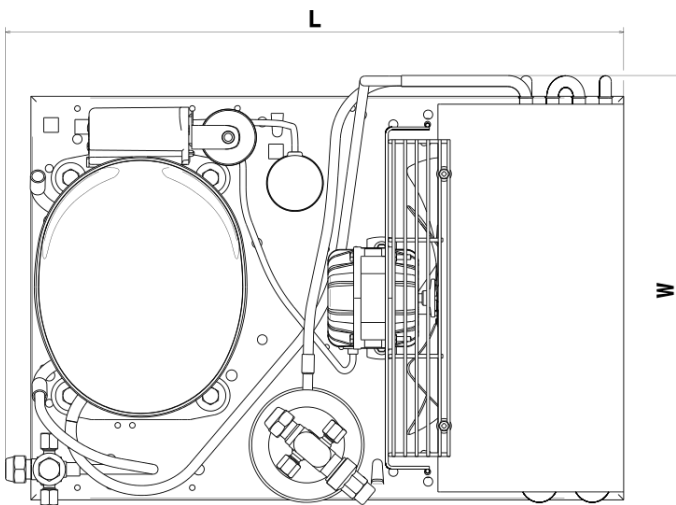
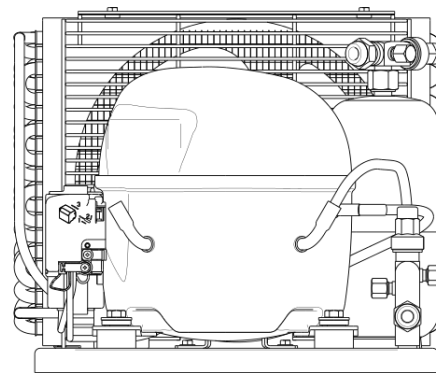
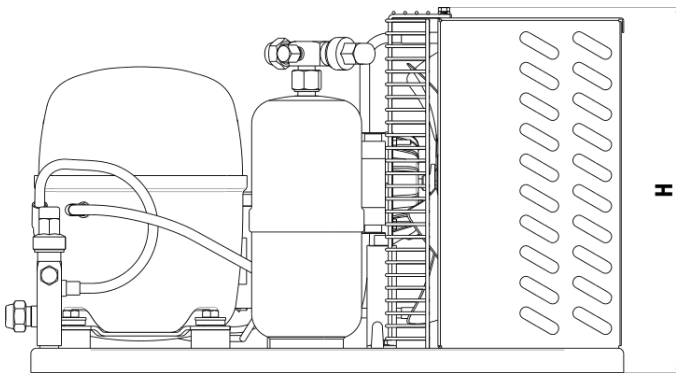
ASHRAE LBP: Condensing temperature: 55°C, Liquid temperature: 32°C, Suction temperature: 32°C, Ambient temperature: 32°C

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VERSIONS

| VERSION 1 | VERSION 2 | VERSION 3 | VERSION 3P | VERSION 4 |
|---|---|---|---|---|
| Tube | Service valve | Service valve and receiver | Service valve, receiver, pressure switch | Schrader valve on the service port |
| Suction tube internal diam.: 9,7 mm Discharge tube internal diam.: 6,5 mm Net Weight: 27,6 Kg | Suction valve: 3/8" Discharge valve: 3/8" Net Weight: 28,0 Kg | Receiver vol.: 1,1 l Suction valve: 3/8" Discharge valve: 3/8" Net Weight: 29,8 Kg | Receiver vol.: 1,1 l Suction valve: 3/8" Discharge valve: 3/8" Net Weight: 30,9 Kg | Suction tube internal diam.: 9,7 mm Discharge tube internal diam.: 6,5 mm Net Weight: 27,6 Kg |

DIMENSIONS (Version 3 drawing)



| VERSION 1-4 (WxLxH) (mm) | VERSION 2 (WxLxH) (mm) | VERSION 3 (WxLxH) (mm) | VERSION 3P (WxLxH) (mm) |
|-----------------------------|---------------------------|---------------------------|----------------------------|
| 350x490x300 | 355x510x300 | 355x510x300 | 355x540x300 |