

Condensing Unit Technical Data Sheet

Model CMLY12LAa_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 | 10,70 cm ³ |
| Diameter | 25,40 mm |
| Stroke | 21,11 mm |
| Oil type | ISO VG 32 ESTER |
| Oil charge | 395 cm ³ |

MOTOR

| | |
|--------------------------|---------------|
| Nominal Power | 3/8 hp |
| Voltage/Frequency | 220-240V 50Hz |
| Voltage range | 198-255 V |
| Type | CSIR |
| Phase number | 1 PH |
| Locked Rotor Amps (LRA) | 18,50 A |
| Max. Cont. Current (MCC) | 4,00 A |
| Main W. resist. at 25°C | 5,20 Ω |
| Start W. resist. at 25°C | 16,85 Ω |

NOMINAL PERFORMANCE

| | |
|------------------|--------------|
| Cooling Capacity | 592 W |
| COP | 1,33 W/W |
| EER | 1,14 kCal/Wh |
| Input Power | 446 W |
| Current | 2,51 A |

ASHRAE

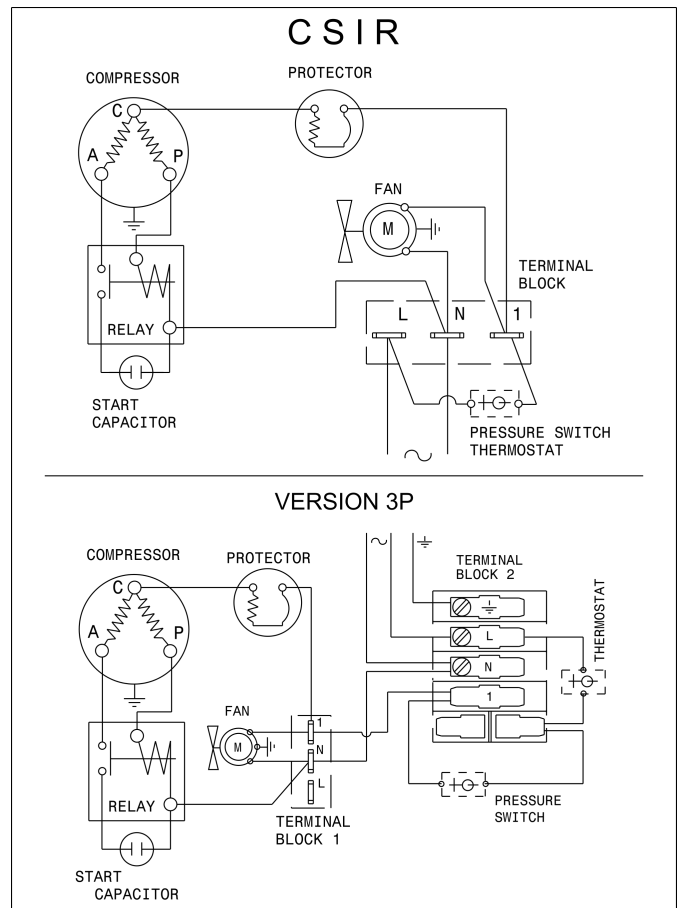
TEST CYCLE CONDITIONS

| | 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 | 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 | |
| CMLY12LAa_N | CSIR | 331 | 437 | 459 | 574 | 592 | 446 | 2.51 | 966 |

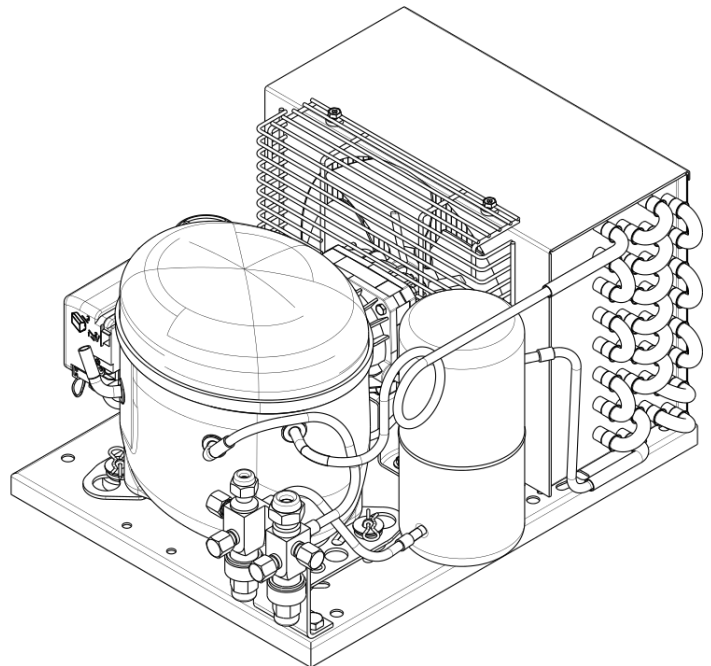
ASHRAE LBP: Condensing temperature: 55°C, Liquid temperature: 32°C, Suction temperature: 32°C, Ambient temperature: 32°C

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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.: 8,1 mm Discharge tube internal diam.: 6,5 mm Net Weight: 19,2 Kg | Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 19,7 Kg | Receiver vol.: 0,9 l Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 20,0 Kg | Receiver vol.: 0,9 l Suction valve: 3/8" Discharge valve: 1/4" Net Weight: 21,1 Kg | Suction tube internal diam.: 8,1 mm Discharge tube internal diam.: 6,5 mm Net Weight: 19,2 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 |