

# Condensing Unit

## Technical Data Sheet

**Model** CMX18TGa\_N  
**Voltage** 200-220/220-230V 50/60Hz ~1  
**Refrigerant** R404A

### APPLICATION

Application High-Medium Back Pressure  
 Refrigerant R404A  
 Evaporating Temp. -25,0 °C to 10,0 °C  
 Expansion Capillar/Valve  
 Comp. Cooling Fan cooled  
 Max. ambient temp. 43,0 °C

### COMPRESSOR

Displacement 18,40 cm³  
 Diameter 34,93 mm  
 Stroke 19,20 mm  
 Oil type ISO VG 46 ESTER  
 Oil charge 500 cm³

### MOTOR

Nominal Power 7/8 hp  
 Voltage/Frequency 220-230V 60Hz  
 Voltage range 198-253 V  
 Type CSR  
 Phase number 1 PH  
 Locked Rotor Amps (LRA) 30,50 A  
 Max. Cont. Current (MCC) 10,50 A  
 Main W. resist. at 25°C 2,34 Ω  
 Start W. resist. at 25°C 7,22 Ω

### NOMINAL PERFORMANCE

### ASHRAE

|                  |              |
|------------------|--------------|
| Cooling Capacity | 2.605 W      |
| COP              | 1,60 W/W     |
| EER              | 1,38 kCal/Wh |
| Input Power      | 1.628 W      |
| Current          | 6,01 A       |

### TEST CYCLE CONDITIONS

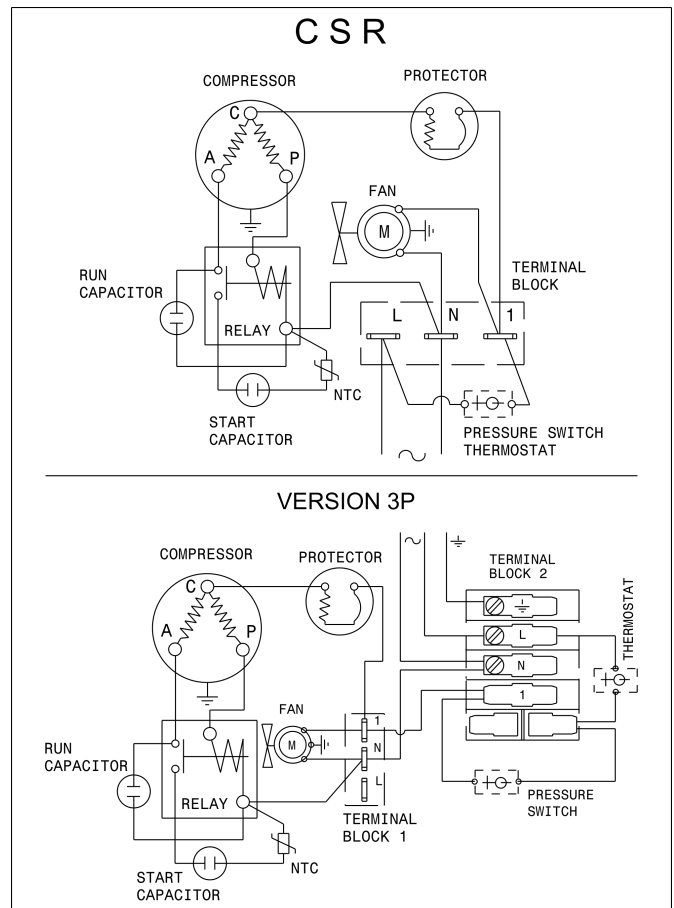
### HMBP

|                                       |             |
|---------------------------------------|-------------|
| 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                     | 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 220V 50/60Hz |

### WIRING DIAGRAM



### REFRIGERATION CAPACITY (W)

Evaporating Temperature (°C)

| Model      | Motor | -25 | -15  | -5   | 5   | 7.2  |      |      | 10   |
|------------|-------|-----|------|------|-----|------|------|------|------|
|            |       |     |      |      |     | W    | Winp | A    |      |
| CMX18TGa_N | CSR   | 850 | 1411 | 1930 | 493 | 2605 | 1628 | 6.01 | 2770 |

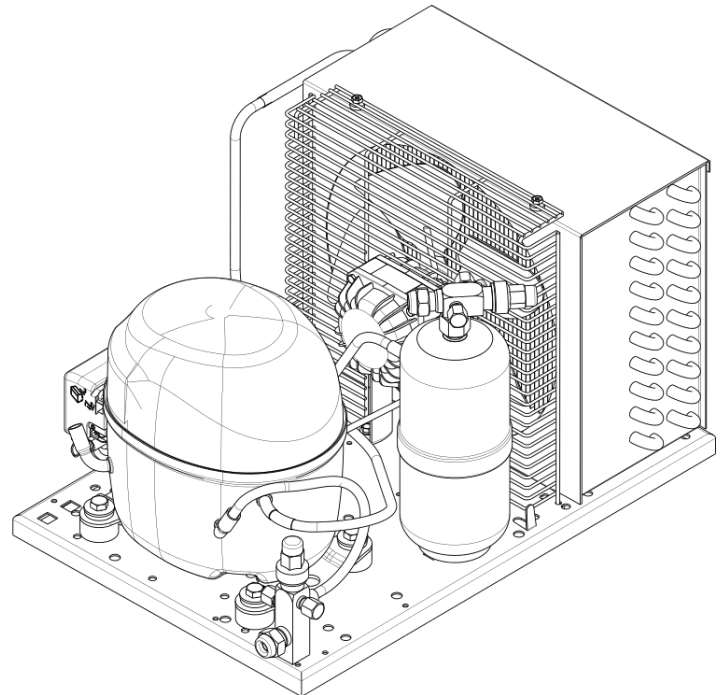
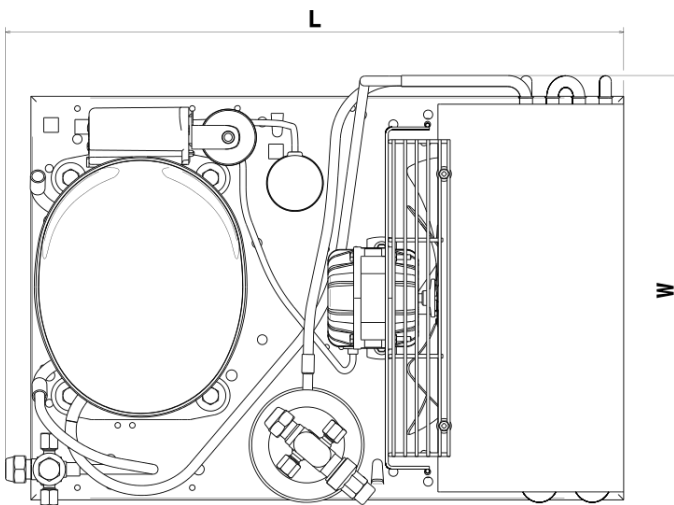
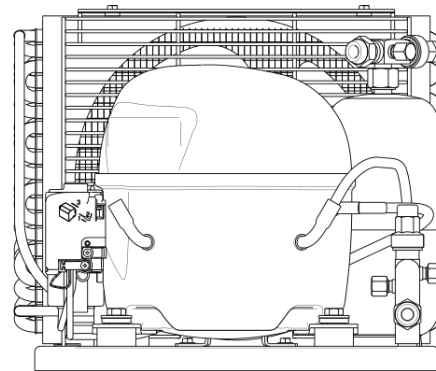
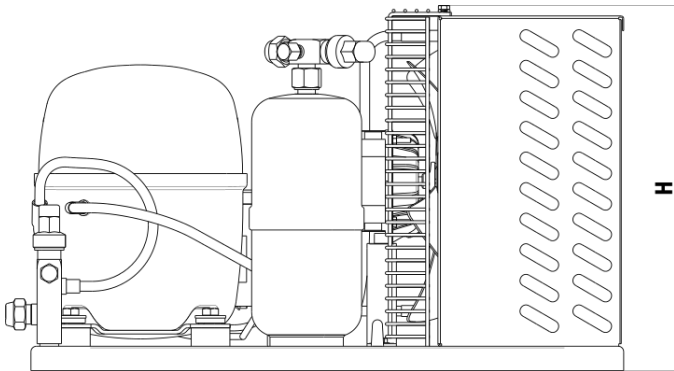
ASHRAE HMBP: Consending temperature: 55°C, Liquid temperature: 46°C, Suction temperature: 35°C, Ambient temperature: 35°C

# Condensing Unit Technical Data Sheet

## 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.: 9,7 mm   | Suction valve: 3/8"   | Receiver vol.: 2,4 l              | Receiver vol.: 2,4 l                            | Suction tube internal diam.: 9,7 mm       |
| Discharge tube internal diam.: 6,5 mm | Discharge valve: 3/8" | Suction valve: 3/8"               | Suction valve: 3/8"                             | Discharge tube internal diam.: 6,5 mm     |
| Net Weight: 31,4 Kg                   | Net Weight: 32,0 Kg   | Discharge valve: 3/8"             | Discharge valve: 3/8"                           | Net Weight: 31,4 Kg                       |
|                                       |                       | Net Weight: 33,7 Kg               | Net Weight: 34,8 Kg                             |                                           |

## DIMENSIONS (Version 3 drawing)



| VERSION 1-4<br>(WxLxH) (mm) | VERSION 2<br>(WxLxH) (mm) | VERSION 3<br>(WxLxH) (mm) | VERSION 3P<br>(WxLxH) (mm) |
|-----------------------------|---------------------------|---------------------------|----------------------------|
| 430x505x355                 | 430x525x355               | 430x525x355               | 430x525x355                |