

COLUMN-TYPE SPLIT MUCOR-H14 Series

**SAME OUTDOOR UNIT AS THE REST OF
THE H14 SERIES A SINGLE FAN
MODELS 48 and 60: HASTA 15.8 kW**



RG10
Included



OPTIONALS

More information on the optionals available in the "MUNDOCLIMA CONTROL SYSTEMS" section.



IS-IR-KNX-1i
(CL99096)

BMS



M-CHECK
(CL09410)

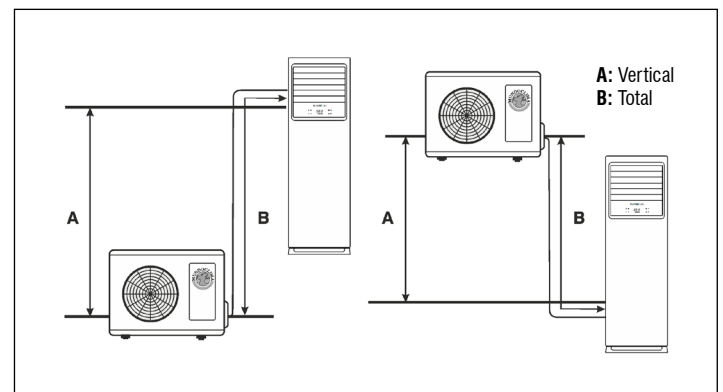
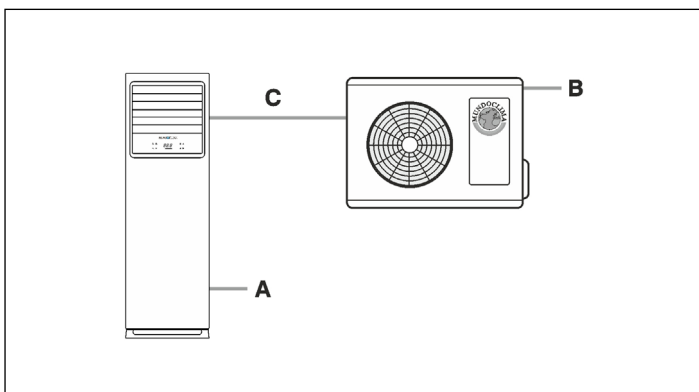
Accessories

ELECTRICAL WIRING

| Model | Power supply (only outdoor unit) | | Interconnection (B) |
|---------------|----------------------------------|--------------------------------|--------------------------------|
| | Type | Section (A) | |
| MUCOR-48-H14 | 230 V (1N~) | 2 x 6 + T (mm ²) | 3 x 1.5 + T (mm ²) |
| MUCOR-48-H14T | 400 V (3N~) | 4 x 2.5 + T (mm ²) | |
| MUCOR-60-H14T | 400 V (3N~) | 4 x 2.5 + T (mm ²) | |

REFRIGERATION PIPES AND ADDITIONAL CHARGE (R-32)

| Model | Piping | | Max. distance | | Additional refrigerant charge | Precharge until |
|---------------|--------|------|---------------|-----------|-------------------------------|-----------------|
| | Liquid | Gas | Vertical (C) | Total (D) | | |
| MUCOR-48-H14 | 3/8" | 5/8" | 30 m | 75 m | 24 g/m | 5 m |
| MUCOR-48-H14T | | | | | | |
| MUCOR-60-H14T | | | | | | |



Note: The communication cable cannot be used to supply neither the indoor unit nor the outdoor one.

SPECIFICATIONS

| Model | | MUCOR-48-H14 | MUCOR-48-H14T | MUCOR-60-H14T | | |
|--------------------------------|---|---|---------------------------|---------------------------|---------------------------|-------|
| Set code | | CL21577 | CL21578 | CL21579 | | |
| EAN set code | | 8432953058968 | 8432953058975 | 8432953144845 | | |
| Cooling | Nominal capacity (min. - max.) | kW | 14.07 (3.52 ~ 16.41) | 14.07 (3.52 ~ 16.12) | 15.83 (4.10 ~ 16.12) | |
| | Nominal consumption (min. - max.) | kW | 4.85 (0.91 ~ 6.50) | 4.85 (0.91 ~ 6.50) | 5.85 (1.00 ~ 6.90) | |
| | Pdesignc (design capacity) | kW | 14.1 | 14.1 | 15.8 | |
| | SEER | W/W | 6.2 | 6.0 | 6.0 | |
| | Energy labeling ⁽¹⁾ | | A++ | A+ | A+ | |
| | Seasonal energy efficiency for space cooling ⁽²⁾ | μs,c (%) | 245.0 | 237.0 | 237.0 | |
| | Annual electricity consumption ⁽¹⁾ | kWh/year | -- | -- | -- | |
| Heating | Nominal capacity (min. - max.) | kW | 15.53 (4.10 ~ 18.76) | 15.53 (4.10 ~ 17.59) | 17.88 (4.40 ~ 18.76) | |
| | Nominal consumption (min. - max.) | kW | 4.65 (0.95 ~ 6.05) | 4.56 (0.95 ~ 5.80) | 6.00 (1.02 ~ 6.40) | |
| | Intermediate climate zone | Pdesignh (design capacity) | kW | 11.5 | 11.3 | 12.2 |
| | | SCOP | W/W | 4.0 | 3.9 | 3.9 |
| | | Energy labeling ⁽¹⁾ | | A+ | A | A |
| | | Seasonal energy efficiency for space heating ⁽²⁾ | μs,h (%) | 157.0 | 153.0 | 153.0 |
| | | Annual electricity consumption ⁽¹⁾ | kWh/year | -- | -- | -- |
| | Warm climate zone | Tbiv (bivalent temperature) | °C | -7 | -7 | -7 |
| | | Pdesignh (design capacity) | kW | 11.8 | 11.8 | 11.7 |
| | | SCOP | W/W | 5.0 | 4.9 | 4.7 |
| | | Energy labeling ⁽¹⁾ | | A++ | A++ | A++ |
| | | Seasonal energy efficiency for space heating ⁽²⁾ | μs,h (%) | 197.0 | 193.0 | 185.0 |
| | Annual electricity consumption ⁽¹⁾ | kWh/year | -- | -- | -- | |
| | Tbiv (bivalent temperature) | °C | 2 | 2 | 2 | |
| | Tol (Operating limited temp.) | °C | -15 | -15 | -15 | |
| Indoor unit | Model | | MUCOR-48/60-H14-I | MUCOR-48/60-H14-I | MUCOR-48/60-H14-I | |
| | Code | | UI21579 | UI21579 | UI21579 | |
| | EAN Code | | 8432953144852 | 8432953144852 | 8432953144852 | |
| | Air flow rate (H / M / L) | m³/h | 2500 / 2300 / 2100 | 2500 / 2300 / 2100 | 2500 / 2300 / 2100 | |
| | Sound pressure (High / Medium / Low / Silence) | dB(A) | 54.5 / 52.0 / 49.5 / 44.0 | 55.0 / 52.5 / 50.0 / 44.5 | 55.0 / 52.5 / 50.0 / 44.5 | |
| | Sound power (High) | dB(A) | 65 | 65 | 66 | |
| | Drainage connection (OD) | mm | Ø16 | Ø16 | Ø16 | |
| | Dimensions (Width x Height x Depth) | mm | 600 x 1934 x 455 | 600 x 1934 x 455 | 600 x 1934 x 455 | |
| | Weight | kg | 54.4 | 54.4 | 54.4 | |
| Outdoor unit | Model | | MUER-48-H14-E | MUER-48-H14T-E | MUER-60-H14T-E | |
| | Code | | UE21547 | UE21548 | UE21549 | |
| | EAN Code | | 8432953059071 | 8432953059088 | 8432953059095 | |
| | Air flow rate (High) | m³/h | 5,600 | 5,600 | 5,600 | |
| | Sound pressure (High) | dB(A) | 63 | 65 | 64.5 | |
| | Sound power (High) | dB(A) | 73 | 74 | 74 | |
| | Compressor (Brand / Model) | | GMCC / KTQ420D1UMU | GMCC / KTQ420D1UMU | GMCC / KTQ420D1UMU | |
| | Dimensions (Width x Height x Depth) | mm | 980 x 975 x 375 | 980 x 975 x 375 | 980 x 975 x 375 | |
| Weight | kg | 82.5 | 90 | 92 | | |
| Refrigerant | Type / GWP | | R32 / 675 | R32 / 675 | R32 / 675 | |
| | Charge | kg | 2.9 | 2.9 | 3.2 | |
| | CO ₂ equivalence | TCO ₂ eq | 1.96 | 1.96 | 2.160 | |
| | Precharge until | m | 5 | 5 | 5 | |
| | Additional charge (from 5 m) | g/m | 24 | 24 | 24 | |
| Refrigerant pipes | Liquid | inches | 3/8" | 3/8" | 3/8" | |
| | Gas | inches | 5/8" | 5/8" | 5/8" | |
| | Maximum length ⁽³⁾ | m | 75 | 75 | 75 | |
| | Max. height difference | m | 30 | 30 | 30 | |
| Electrical data ⁽⁴⁾ | Power supply | V / Hz / Ph | 220-240 ~ / 50, 1N | 380-415 ~ / 50, 3N | 380-415 ~ / 50, 3N | |
| | Maximum consumption | kW | 7.3 | 7.3 | 7.5 | |
| | Max. current | A | 32 | 14 | 14 | |
| | Power cable (outdoor unit) | mm ² | 2 x 6 + T | 4 x 2.5 + T | 4 x 2.5 + T | |
| | Interconnection cable | mm ² | 3 x 1.5 + T | 3 x 1.5 + T | 3 x 1.5 + T | |
| Operating temperature | Indoor (Cooling / Heating) | °C | 17 ~ 32 / 0 ~ 30 | 17 ~ 32 / 0 ~ 30 | 17 ~ 32 / 0 ~ 30 | |
| | Outdoor (Cooling / Heating) | °C | -15 ~ 50 / -15 ~ 24 | -15 ~ 50 / -15 ~ 24 | -15 ~ 50 / -15 ~ 24 | |

Note:

⁽¹⁾ Data for information purposes only, since the energy labeling regulation (EU 626/2011) does not apply to this product as it has a capacity >12kW.

⁽²⁾ According to ecodesign directive "Ecodesign" EU 206/2012.

⁽³⁾ Minimum pipe length 3 m.




⁽⁴⁾ The electrical wiring sections indicated are recommended, but may be higher depending on each installation, these must be adapted to the electrical regulations in force.

* The design and specifications are subject to change without prior notice in order to improve the product.

** The sound level values correspond to values obtained in an anechoic chamber.

Features Description

IMPORTANT: This Features Description is generic, you will find the icons that apply to this data sheet in the header of the first page of the data sheet.

| | | <i>Comfort</i> |
|---|--|--|
|  | WEEKLY TIMER Sets the weekly operation of the unit. |  |
|  | FOLLOW ME FUNCTION (IFEEL) The remote control features an ambient temperature sensor. |  |
|  | AUTOMATIC RESTART Recovery of the adjustments before the electrical cut. |  |
|  | EMERGENCY OPERATION Possibility of manually operating the unit with the button in case of any alarms sounding. |  |
|  | COLD AIR PRECAUTION When heating, the initial fan speed is adjusted according to the battery temperature. |  |
|  | TURBO OPERATION Maximum cooling/heating time reduction. |  |
|  | LOW SOUND LEVEL Thanks to the Silence mode and its new design, the sound level is reduced to a minimum. |  |
|  | TEMPERATURE COMPENSATION The remote control allows you to set the compensation temperature for heating and cooling modes. |  |
|  | FRESH AIR (ION) This equipment incorporates an ionizer to generate OH(-) and thus purify the air by deactivating bacteria, viruses and other pathogens, providing a very pleasant feeling of freshness. |  |
|  | BREEZE AWAY Function that allows diverting the air flow to another location to prevent the equipment from blowing directly on people. |  |
|  | MORE SILENT OUTDOOR UNIT Design optimized of the air exit grill with decrease of the noise up to 3.3 dB (A) in comparison with previous models. | |
|  | WIDE OPERATING TEMPERATURE RANGE Cooling operation until 50 °C and in heating until -15 °C. | |
|  | NIGHT MODE Makes the unit operate according to the preset nighttime temperature curve, which creates an ideal nighttime environment and improves sleep quality. | |
|  | DAILY TIMER The timer can be set to start and stop at any point in a 24-hour period. | |
|  | 360° DESIGN Thanks to the 360° panel design, the air is more evenly distributed. | |
|  | HORIZONTAL AND VERTICAL FLAP ROTATION Better air distribution thanks to the flap's horizontal and vertical automatic swing. | |
|  | GEAR It allows the equipment capacity to be set to 50%, 75% or 100% (default). (In the MUPR-H16 series only through the APP). | |
|  | COLD CATALYST FILTER Incorporates a catalytic filter capable of adsorbing and decomposing formaldehyde and other volatile organic compounds by catalysis at room temperature, without the need for ultraviolet (UV) light. | |
|  | HEPA FILTER It incorporates a HEPA air filter that improves indoor air quality by capturing fine particles, dust and allergens for a cleaner, healthier environment. | |
|  | SPRINT START Like a sprint runner, this function allows the compressor to reach 65 Hz in just 6 s. | |
|  | HUMIDITY CONTROL In dehumidification mode, the relative humidity control can be set between 35% and 85%. | |
|  | VENTILATION FUNCTION It allows operation only with ventilation. | |
|  | THERMOSTAT It allows operation only with ventilation. | |
|  | DEHUMIDIFICATION Humidity reduction helps restoring an optimum temperature in wet areas. | |
|  | DIFFERENT SPEEDS OF THE INDOOR FAN Up to 12 levels of fan speed automatically adjusted if the automatic ventilation is activated. | |
|  | SILENCE This function allows you to select the ultra-quiet speed, so that the sound level of the equipment is very low. | |
|  | WI-FI Possibility for the unit to be controlled via WIFI, through an APP. |  |
|  | CENTRALISED CONTROL Possibility of controlling several units with the same control. | |
|  | ENERGY LABELLING FOR COOLING A+++ |  |
|  | ENERGY LABELLING FOR COOLING A++ |  |
|  | ENERGY LABELLING FOR COOLING A+ | |
|  | ENERGY LABELLING FOR COOLING A | |
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|  | ENERGY LABELLING FOR HEATING A+ | |
|  | ENERGY LABELLING FOR HEATING A | |
|  | R410A Equipment using refrigerant R410A with a GWP of 2088. |  |
|  | R32 Equipment using the most eco-friendly refrigerant R32 with a GWP of 675. In order to install equipment with R32 refrigerant gas, you must check the applicable legislation. |  |
| | | R290 Equipment using the new natural refrigerant R290 which has a GWP of only 3. In order to install equipment with R290 refrigerant gas, you must check the applicable legislation. |
| | | <i>Connectivity</i> |
| | | <i>Energy efficiency</i> |
| | | <i>Refrigerant</i> |

Features Description

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Easy installation and maintenance

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|--|---|--|
| <p> REMOVABLE FILTERS New filter fastening system with tabs to ensure correct fastening without vibrations.</p> <p> OUTSIDE AIR INLET Possibility of supplying outside air directly on the indoor unit.</p> <p> DRAINAGE PUMP Features a drainage pump to facilitate the drainage of the indoor unit.</p> <p> FILTER CLEANING REMINDER The equipment tells you when to clean and/or replace the air filter of the indoor unit.</p> <p> PIPE COMPATIBILITY Possibility of increasing one size over the standard diameter in gas, liquid or both pipes.</p> <p> DIGITAL LED DISPLAY Digital display showing the set temperature during normal operation or the room temperature in ventilation mode.</p> <p> FEWER SCREWS Not only the indoor unit, but also the outdoor unit uses less screws, so the disassembly is going to be easier.</p> <p> REFRIGERANT LEAK DETECTION The unit automatically detects possible refrigerant leaks in the circuit.</p> <p> SELF-CLEANING This function performs a self cleaning on the indoor unit. When the "SELF-CLEANING" function is activated (SelfClean or iClean buttons), the unit initially operates in cooling mode with the fan at low speed. During this period, the condensation water drags the dust from the coil. The unit then switches to heating mode with the fan at low speed, to dry the battery and the inside of the unit. Finally the unit switches to ventilation mode to finish drying completely.</p> <p> ULTRA-REINFORCED MOUNTING PLATE Reinforced mounting plate with measuring range and spirit level included.</p> <p> POWER SUPPLY ONLY TO OUTDOOR UNIT The indoor unit is powered by the same interconnection cable with the outdoor unit.</p> <p> SINGLE-FAN OUTDOOR UNITS Optimize outdoor space thanks to outdoor units with lower height.</p> | <p> HIGH STATIC PRESSURE Wide static pressure range.</p> <p> SET TEMPERATURES RANGE ADJUSTMENT The remote control is able to adjust: Cooling minimum from 16°C to 24°C; Heating maximum from 30°C to 25°C.</p> <p> FEET IN U FORM Thanks to the new rear legs on the outdoor unit, installation is more convenient.</p> <p> LOW-VOLTAGE START The equipment can start up and operate normally up to a supply voltage lower than the nominal voltage.</p> <p> PROBLEM SOLVING Error codes are displayed on the indoor panel, the wall control or on the outdoor PCB.</p> <p> REMOTE SIGNALS (CP) The indoor unit has an ON/OFF input.</p> <p> CONFIGURABLE STATIC PRESSURE From the PCB (or any model with the wireless or wired remote control) the static pressure of the fan can be adjusted, so that the machine can be adapted to each installation.</p> <p> CONFIGURABLE RETURN The air intake can be set up either at the rear or at the bottom of the unit. By default, it is set up at the rear.</p> <p> TWIN FUNCTION (2x1) Two indoor units can be connected to the same outdoor unit. Both indoor units will function identically as if they were one single unit. It is perfect for open rooms.</p> <p> REVERSE ROTATION When the equipment is stopped, the outdoor unit fan rotates backwards to remove leaves or other external elements from the battery.</p> <p> ROTATION & BACK UP This function allows redundant operation in installations with 2 units connected to the same wired control. KJR-120N, in case one machine does not reach the setpoint temperature, the two machines will automatically operate together at 24 °C in the selected mode. At the same time, a rotation in the operation of the 2 machines is carried out so that both machines operate for the same amount of time.</p> | <p> AUTO ROUTING The outdoor unit can assign an address to the indoor units automatically.</p> <p> ENGINEERING MODE Setting of functions and querying of operating parameters by means of the control.</p> <p> EXTRA FLAT DUCT Indoor unit height between 200 and 300 mm.</p> <p> DELIVERY OUTLET TO ADJACENT ROOM The unit has pre-drilled outlets for connecting a small duct to air-condition an adjacent room.</p> <p> AIR DISCHARGE TUBE TO THE OUTSIDE Easy and quick to install, it allows the use of the air conditioner immediately.</p> <p> CONDENSATE REMOVAL Removes condensate water so it is not necessary to connect the air conditioner to a drain. In dehumidification mode and in very humid environments, it is recommended to connect the equipment to a drain.</p> <p> COMPACT PANEL SIZE The trim panel of the cassette type unit measures 600 x 600 mm.</p> <p> GOLDEN FIN Heat exchanger with special treatment, which protects the equipment against atmospheric phenomena and the effects of aggressive environments. It also prevents the proliferation of bacteria and mold.</p> <p> BLUE FIN Heat exchanger with treatment that protects the equipment against corrosion and the growth of bacteria and mold.</p> <p> AUTOMATIC REFRIGERANT REFILL Allows refrigerant gas to be charged to the system automatically without having to perform the additional charge calculation.</p> <p> HORIZONTAL / VERTICAL The equipment can be installed both horizontally and vertically.</p> <p> FUNCTION GOAL Advanced air conditioning technology that optimizes temperature, refrigerant and air flow to save energy and maximize the comfort.</p> <p> NITROGEN The indoor unit is factory pressurized with nitrogen to ensure that there is no leakage prior to installation.</p> |
|--|---|--|

Technology

- | | | |
|---|--|---|
| <p> SUPER DC Equipment that has both DC Inverter compressor and DC fan motors.</p> <p> COOLING IN LOW TEMPERATURES Cooling operation up to -15°C outdoor.</p> <p> HEATING AT LOW TEMPERATURES Heating operation down to -25°C outside.</p> <p> CONSTANT AIR FLOW CONTROL The indoor fan adjusts to the required static pressure to ensure a constant air supply at all times.</p> | <p> DC Unit with DC fan motor, low noise and low-energy consumption.</p> <p> EVI COMPRESSOR High efficiency asymmetric scroll compressor with steam injection technology.</p> <p> INPUT 0 - 10 V Unit with DC fan motor with 0-10 V regulation.</p> <p> SALIDA 0-10V Equipment with 0-10 V output for the control of an auxiliary valve.</p> | <p> 7-SPEED FAN Unit with DC fan motor with 7 speeds.</p> <p> EXTERNAL FAN WITH DIFFERENT SPEEDS Accurate adjustment of fan speed thanks to DC fan.</p> <p> EXV Equipment with electronic expansion valve, adjusts in a more stable way the capacity of the equipment.</p> |
|---|--|---|