mark

building climate technology

# MISTRAL MDX

## air-to-air heat pump system with R32 refrigerant

Sustainable heating and cooling with the Mark Mistral MDX 30 and 60.

Dedicated to people.

## Sustainable heating and cooling with the Mark MISTRAL MDX

The Mistral MDX is specially developed for energy-efficient heating and cooling of large spaces. The combination of an air-to-air heat pump (outdoor unit) with a compact air heater/cooler (indoor unit) ensures excellent performance and a versatile, energy-efficient climate solution.

## More environmentally friendly and flexible

Thanks to the use of R32 as a refrigerant, this new generation MDX is a more environmentally friendly climate solution. The long available pipe length and the wide temperature range make the Mistral MDX versatile. Because the Mistral MDX has been specifically developed for industrial use, it is extremely suitable for heating and cooling e.g. garages, warehouses, workshops, distribution centres and showrooms.

**Product Features**

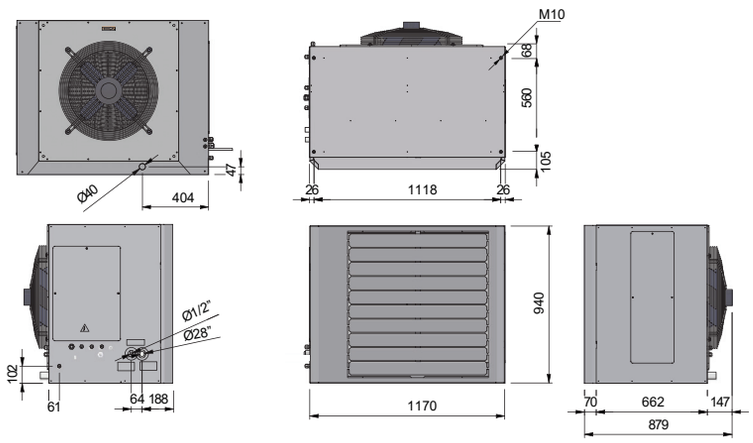
- Available in capacities of 24 kW (MDX 30) and 48 kW (MDX 60)
- Robust design
- Very easy to maintain
- Runs on R32, energy-efficient and more environmentally friendly
- Air-to-air heat pump
- Cooling and heating
- Large temperature range
- Indoor unit equipped with EC fan
- Suitable for hybrid setup with gas-fired or electric heaters
- Optional integrated condensate pump
- Pipe lengths up to 60 m
- Refilling not necessary up to 30 m
- Isolator switch pre-assembled on indoor unit
- Ambient temperature range indoor unit
  - Cooling: 17°C (80%) to 41°C (25%)
  - Heating: 7°C to 24°C

## Hybrid-ready: flexible and cost-saving

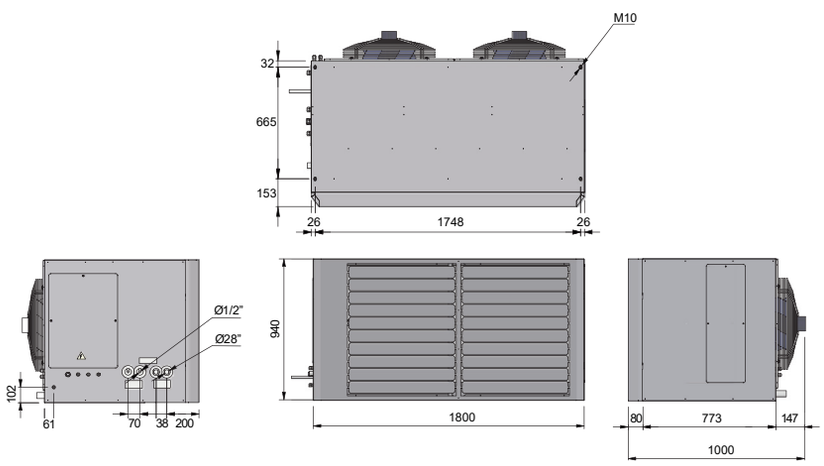
The hybrid preparation ensures that the system works seamlessly with new or existing gas-fired air heaters. This means that the installed capacity of the Mistral MDX can remain lower, because the gas-fired units provide the required capacity in severe cold.

The Mistral MDX 30 and MDX 60 are flexible climate solutions that provide significant savings on energy costs. Contact us for the possibilities.

## Dimensions - indoor unit



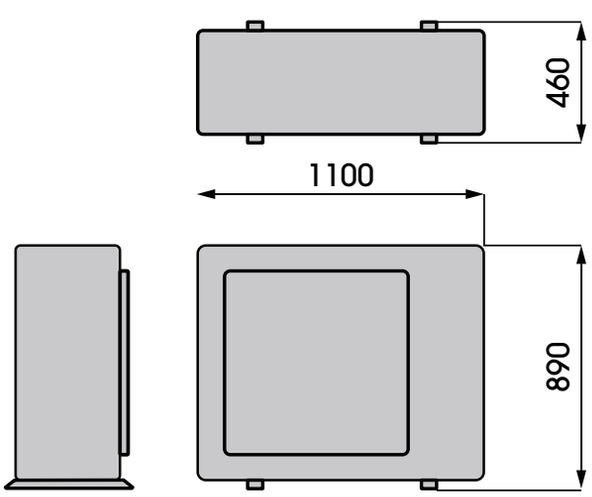

**MDX 30**




**MDX 60**

## Dimensions - outdoor unit

**MDX 30 (1x) and MDX 60 (2x)**

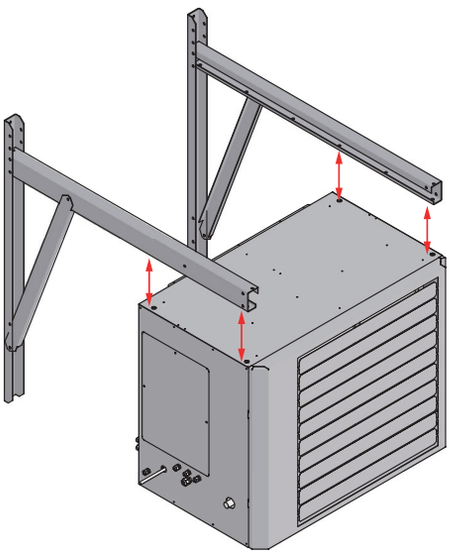


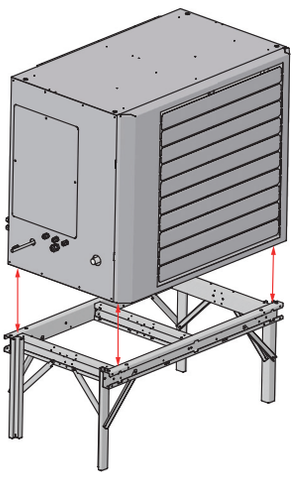
# Technical information

| | Type | | | MDX 30 | MDX 60 |
|---|---|---|---|---|---|
| | **Power** | | **HP** | | |
| heating | Nominal capacity | | kW | 24 | 48 |
| heating | Power range | | kW | 4,6-28 | 9,2-56 |
| heating | Nominal capacity at -10°C | | kW | 19,8 | 39,6 |
| heating | SCOP | | | 5,03 | |
| cooling | Nominal capacity | | kW | 22,5 | 45 |
| cooling | Power range | | kW | 4,6 -25 | 9,2-50 |
| cooling | SEER | | | 6,21 | |
| | **Electrical data** | | | | |
| | Power supply | | Ph/V/Hz | 3/400/50 | |
| | Nominal Consumed current | | A | 11,9 | 2 x 11,9 |
| | Maximum current | | A | 23,0 | 2 x 23,0 |
| | Fuse | | A | 3 x 25 | 2 x 3x25 |
| | **Refrigerant features** | | | | |
| | Refrigerant | | | R32 | |
| | Refrigerant content | | kg | 5 | 2 x 5 |
| | DC Inverter compressor | | no. / type | Hermetic compressor | |
| | Pipe connections | Liquid | Ø inch | 1/2" | 2 x 1/2" |
| | | Gas | Ø mm | 28,6(1 1/8") | 2 x 28,6(1 1/8") |
| | Distance indoor and outdoor unit | min | m | 5 | |
| | | max | m | 30/60* | |
| | Maximum height difference | | m | 30 | |
| | **Specifications outdoor unit** | | | | |
| | Dimensions (LxHxW) | | mm | 890 x 1100 x 460 | 2 x 890 x 1100 x 460 |
| | Net weight | | kg | 117 | 2 x 117 |
| | Sound pressure level (5 mtr.) | max | dB(A) | 53/55 | |
| | Air flow | max | $m^3/h$ | 7600 | 2 x 7600 |
| | Operating limits (outside temperature) | Cooling | °C | 46 to -20 | |
| | | Heating | °C | 15 to -27 | |
| | **Specifications indoor unit** | | | | |
| | Weight | | kg | 112 | 176 |
| | Air flow | max | $m^3/h$ | 5400 | 11200 |
| | Sound pressure level (5 mtr.) at max air flow | | dB(A) | 51 | 56 |
| | Throw | | m | 17 | 22 |
| | Pipe connections | Liquid | Ø mm (inch) | 12,7 (1/2") | 2 x 12,7 (1/2") |
| | | Gas | Ø mm | 28,6(1 1/8") | 2 x 28,6(1 1/8") |
| | Power supply | | Ph/V(Hz)/kW | 1/230(50)/0,24 | 1/230V(50)/0,48 |
| | Temperature range | Cooling | °C | 17°C (80%) - 41°C(25%) | |
| | | Heating | °C | 7°C - 24°C | |

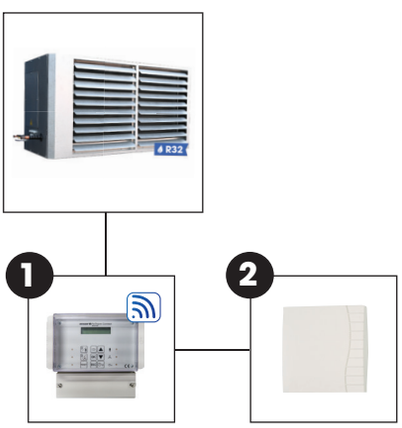
* <30 m without refilling, 30-60 m refilling necessary.

## Assembly/location suggestions





## Controls




| Control combination options |
|---|
| Mistral MDX + 1 + 2 |

1 = Pintherm Mistral (0629110)
2 = Room sensor required for 0629110 (0629086)

# Prices MARK MISTRAL MDX 30/60

| PRODUCT - MISTRAL MDX HEAT PUMP SYSTEM (R32) | | | |
|---|---|---|---|
| **Code nr.** | **Description** | **Price** | |
| 5992702 | Mistral MDX 30 (indoor- + outdoor unit, excl. condensate pump) | € | 19867 |
| 5992706 | Mistral MDX 60 (indoor- + 2 pieces outdoor unit, excl. condensate pump) | € | 33754 |
| 5992712 | Mistral MDX 30 (indoor- + outdoor unit, incl. condensate pump) | € | 20675 |
| 5992716 | Mistral MDX 60 (indoor- + 2 pieces outdoor unit, incl. condensate pump) | € | 34562 |

| ACCESSORIES - CONTROL | | | |
|---|---|---|---|
| **Code nr.** | **Description** | **Price** | |
| 1 0629110 | Pintherm Mistral | € | 726 |
| 2 0629086 | Room sensor in combination with 0629110 | € | 93 |
| | Multi controller voor max. 3 pieces Mistral MDX | | On demand |
| | Multi controller voor max. 6 pieces Mistral MDX | | On demand |
| 0631149 | Isolator switch 63A in combination with the external unit(s)* | € | 110 |

* for the MDX 60, two isolator switches should be ordered together.
The indoor units have a pre-mounted isolator switch.

| ACCESSORIES - MOUNTING | | | |
|---|---|---|---|
| **Code nr.** | **Description** | **Price** | |
| 5017595 | Set of wall mounting brackets (2 pieces) | € | 386 |
| 5017597 | Adjustable support frame for outdoor unit Mistral MDX (2 pieces for MDX 60) | € | 1318 |
| 5016840 | Support frame for Mistral MDX 30 indoor unit | € | 396 |
| 5016842 | Support frame for Mistral MDX 60 indoor unit | € | 486 |

| ACCESSORIES - ADDITIONAL SECTIONS - VERTICAL LOUVRES | | | |
|---|---|---|---|
| **Code nr.** | **Description** | **Price** | |
| 5064341 | Vertical louvres for MDX type 30 | € | 227 |
| 5064342 | Vertical louvres for MDX type 60 | € | 401 |

# The MISTRAL MDX

## A pleasant indoor climate

Mark Climate Technology is happy to advise you on a pleasant indoor climate for your project. With free advice (also on site), our own service department and a wide product range, we can serve every customer tailor-made.

markclimate.com

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