

# MORE FTA-e

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# RBM SpA

## A family history

### Made in Italy

RBM SpA, a historic company in the production of plumbing and heating components and systems, was founded seventy years ago in Lumezzane (province of Brescia), an area with a centuries-old tradition of metallurgy and fine mechanics. Over time, it has grown to become a leader in its field.

### Quality

Today, thanks to the skills acquired over the generations, RBM can afford to reduce its reliance on outsourcing, thus guaranteeing its customers maximum quality control.

### The group

RBM SpA boasts four production plants in Italy (2 dedicated to the production of brass components and 2 for the processing of plastics), 5 subsidiaries worldwide (France, Belgium, Australia, Romania and China) and more than 300 total employees.

### Research and development

RBM produces all components for the construction and operation of a modern plumbing system. Thanks to constant research activity, evidenced by more than 50 proprietary patents, the product range is constantly expanding, often anticipating the needs of users, designers and installers.



# MORE

### Mission

We design and build customized and efficient solutions for climate wellbeing.

**WE IMPROVE PEOPLE'S LIVES**

### Promise

Thanks to the range of invisible and silent systems, MORE ensures maximum living comfort.

**WELLBEING**

### Values

- People at the center
- Comfort and efficiency
- Technological innovation that anticipates the needs of users, designers, and installers.



# Constantly growing

5 MANUFACTURING  
PLANTS IN ITALY

2 EUROPEAN  
BRANCH OFFICES  
FRANCE  
BELGIUM

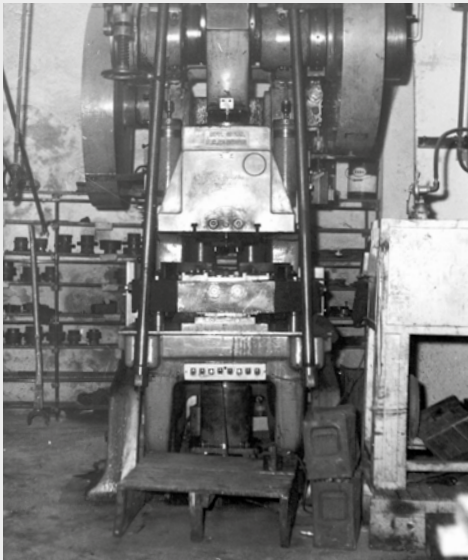
3 SALES BRANCHES  
WORLDWIDE  
NETHERLANDS  
AUSTRALIA  
CHINA

2 REPRESENTATIVE  
OFFICES  
ROMANIA  
POLAND

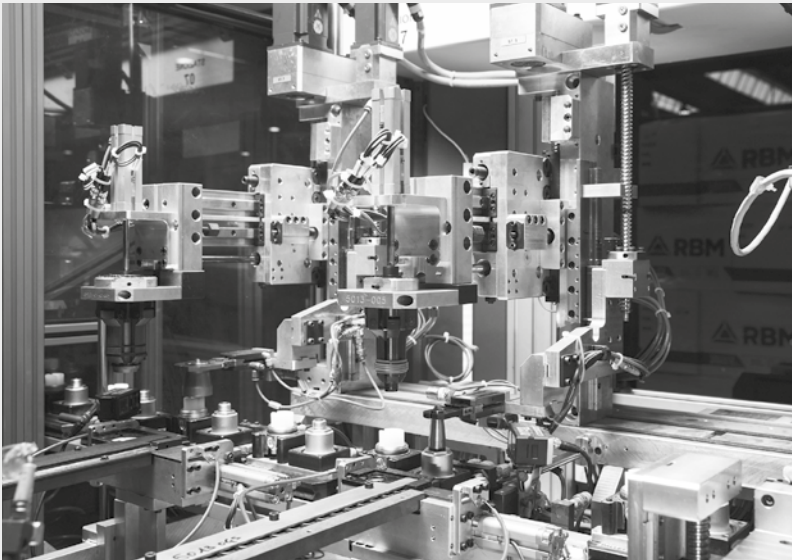
EXPERIENTIAL SHOWROOMS  
IN EUROPE  
BRESCIA  
MILAN  
ROME  
CORTINA  
GENK (BELGIUM)  
AIX-EN-PROVENCE (FRANCE)  
...

MORE THAN 300 EMPLOYEES  
AND COLLABORATORS IN TOTAL

+ 50 PATENTS



1959



2024



1962



2024

**RBM**  
**POLAVENO PLANT**  
Industrial Street, 23  
S. Giovanni Polaveno (BS)

**RBM**  
**NAVE PLANT**  
Via S. Giuseppe, 1  
Nave (BS)

A revolutionary modular electric radiant floor heating system for non-standard spaces, suitable for integrated installations and platform installation.

**MORE FTA-e**

MORE FTA-e is the innovative electric-powered, low-thickness, low-inertia, high-efficiency, prefabricated and modular underfloor heating system, ideal for creating fixed or temporary platforms to be placed on the existing floor.





# MORE FTA-e integrated installation

## APPLICATIONS

- Spaces with a smooth, level subfloor featuring glued-down or floating heated flooring

# MORE FTA-e platform installation

## APPLICATIONS

- Outdoor areas with existing flooring, featuring the installation of an overlaid floating platform





# What is MORE FTA-e?

The MORE FTA-e electric radiant heating system is an innovative, high-efficiency, low-profile radiant heating system that can be installed on the floor and equipped with self-regulating heating cables. The absorbed power is self-regulating depending on the room, ensuring high efficiency and low energy consumption. It can be dry-installed against existing flooring and can be completed with floating surface finishes.

It is particularly suitable for the temporary heating of large unconventional buildings, where heating of the entire volume is not required, or for heating emergency structures or closed but uninsulated outdoor environments.







MAXIMUM SURFACE TEMPERATURE 40°C

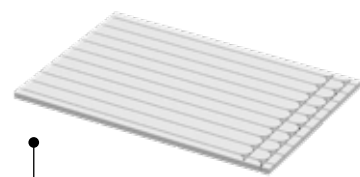


# Why MORE FTA-e?

**MORE FTA-e** is a revolutionary radiant panel, characterized by its extremely compact overall dimensions, which allows for the installation of systems as thin as 24 mm, including the flooring. Quick installation and immediate walkability are the distinctive features of MORE FTA-e. Furthermore, the panel is supplied fully assembled, further reducing installation time.

A key feature of the MORE FTA-e panel is the thermal insulation beneath the semiconductor technopolymer, which limits heat loss. Thanks to its design and high mechanical strength, the panel allows flooring to be installed directly on top of it, ensuring complete reversibility and full restoration of the original condition of the space. Thanks to its IPX7 protection rating (protection against temporary submersion up to 1 meter deep for 30 minutes), the MORE FTA-e system is capable of operating in adverse conditions without compromising its performance. This water resistance provides additional safety in environments subject to humidity or precipitation.

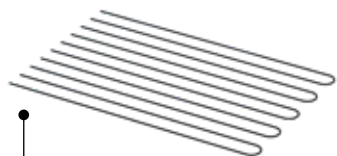
The FTA-e system consists of a pre-formed EPS 300 panel complete with housing for electric heating cable, with integrated 1/10 aluminum heat spreader and dual-core heating cable with full shielding and 230V AC power supply.



PRE-SHAPED  
INSULATING PANEL



ALUMINUM HEAT  
SPREADER



DOUBLE CONDUCTOR  
HEATING CABLE



LVT OR LAMINATE SURFACE  
FINISH

## STRATIGRAPHY



# How does it work?

**MORE FTA-e** is a radiant-type electric floor heating system consisting of a modular insulation and heat exchange system integrated with a low-voltage, resistive-type electric heating system with high specific power. The MORE FTA-e system is complete with a specific temperature control system that enables modulation of the heat load according to floor temperature and room temperature.

# Advantages

ADVANTAGES

|                               |                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Energy Saving                 | Reduced energy and operating costs compared with other systems operating under the same environmental conditions due to continuous modulation of the heat load supplied to the floor |
| Safety                        | No tripping hazards or clutter in the room, no open flames, no risk of burns, no issues with managing LPG gas cylinders, and no concerns related to increased fire risk              |
| Architectural integration     | No environmental impact, aesthetic compatibility, and complete reversibility with disassembly and restoration of the site to its original condition                                  |
| Heating speed                 | Very fast response times thanks to low thermal inertia and high heat output                                                                                                          |
| Comfort                       | Maximum surface temperature 40°C                                                                                                                                                     |
| Ease of installation          | Reduced installation time, minimal disruption, and uninterrupted use of the space                                                                                                    |
| Thermal efficiency            | Higher heating capacity than similar underfloor heating systems                                                                                                                      |
| Energy efficiency             | No hot air stratification responsible for energy loss                                                                                                                                |
| Safety                        | Electric heating system with IPX7 "temporary submersion" protection rating                                                                                                           |
| No maintenance                | No maintenance required                                                                                                                                                              |
| Quietness                     | No noise emission                                                                                                                                                                    |
| Indoor air quality            | No air movement. Does not contribute to the circulation of dust, pollen, and particulate matter. No combustion gas emissions into the room                                           |
| Electromagnetic compatibility | The system does not generate significant electromagnetic emissions during operation                                                                                                  |

CONTROL SYSTEMS

|                    |                                                                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Integrated control | Temperature control system with room temperature and radiant surface control, with an independent safety temperature limiter                                                                                                |
| Remote control     | Remote control and monitoring via smartphone through an internet connection                                                                                                                                                 |
| Snow removal       | When in operation, the MORE FTA-e system contributes to roof de-icing. When combined with the MORE DEFROST system, it enables automatic management even when the MORE FTA-e is off, allowing it to turn on only when needed |



# Versatility of application

The MORE FTA-e radiant heating system has been developed for environments where improved thermal comfort is required during the winter season:

- In non-residential spaces, generally very poorly insulated, where the user stays temporarily while wearing “outdoor” clothing (perimeter-enclosed outdoor areas)
- In unheated rooms used on an occasional basis (places of worship)
- In poorly heated rooms where only limited areas (workstations) need to be treated
- Heating of emergency facilities
- Heating of museum routes

# MORE FTA-e integrated thermoregulation system

## MORE FTA-e: ELECTRICAL PANEL

To simplify installation, the MORE FTA-e electric radiant heating system is offered in combination with **the power, management, and control panel for the MORE REG modulating thermoregulation system.**

## MORE REG

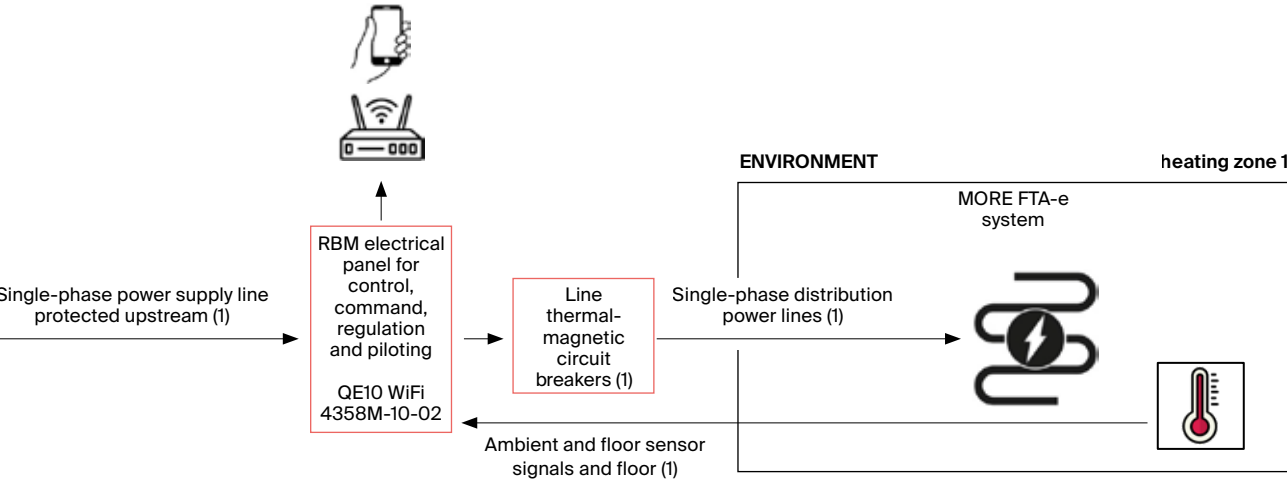
The thermoregulation system allows the management of:

- Operating times or manual ON/OFF override
- Room and floor temperature control
- Local control via the 7” touch display
- Remote control, via APP on smartphone, in the presence of a Wi-Fi network
- Modulation of the power output according to the desired room temperature
- Minimum floor temperature control to maintain comfort even when the room temperature setpoint has been reached
- Diagnostics and alarm history
- System performance monitoring through downloadable graphs that can be viewed and downloaded in Excel format
- Control of minimum, maximum, and anti-freeze temperature limits

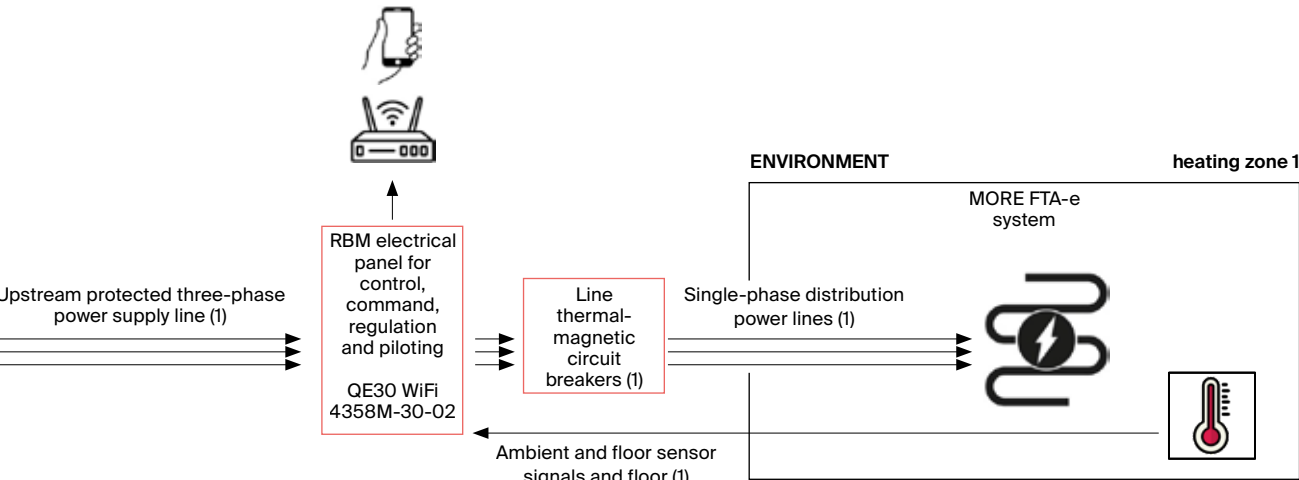


The following diagrams illustrate the different control system architectures, depending on the size of the outdoor area and the available voltage.

**CONFIGURATION 1**  
Maximum nominal power 10 kW  
Active area 25 m<sup>2</sup>



**CONFIGURATION 2**  
Maximum nominal power 30 kW  
Active area 75 m<sup>2</sup>

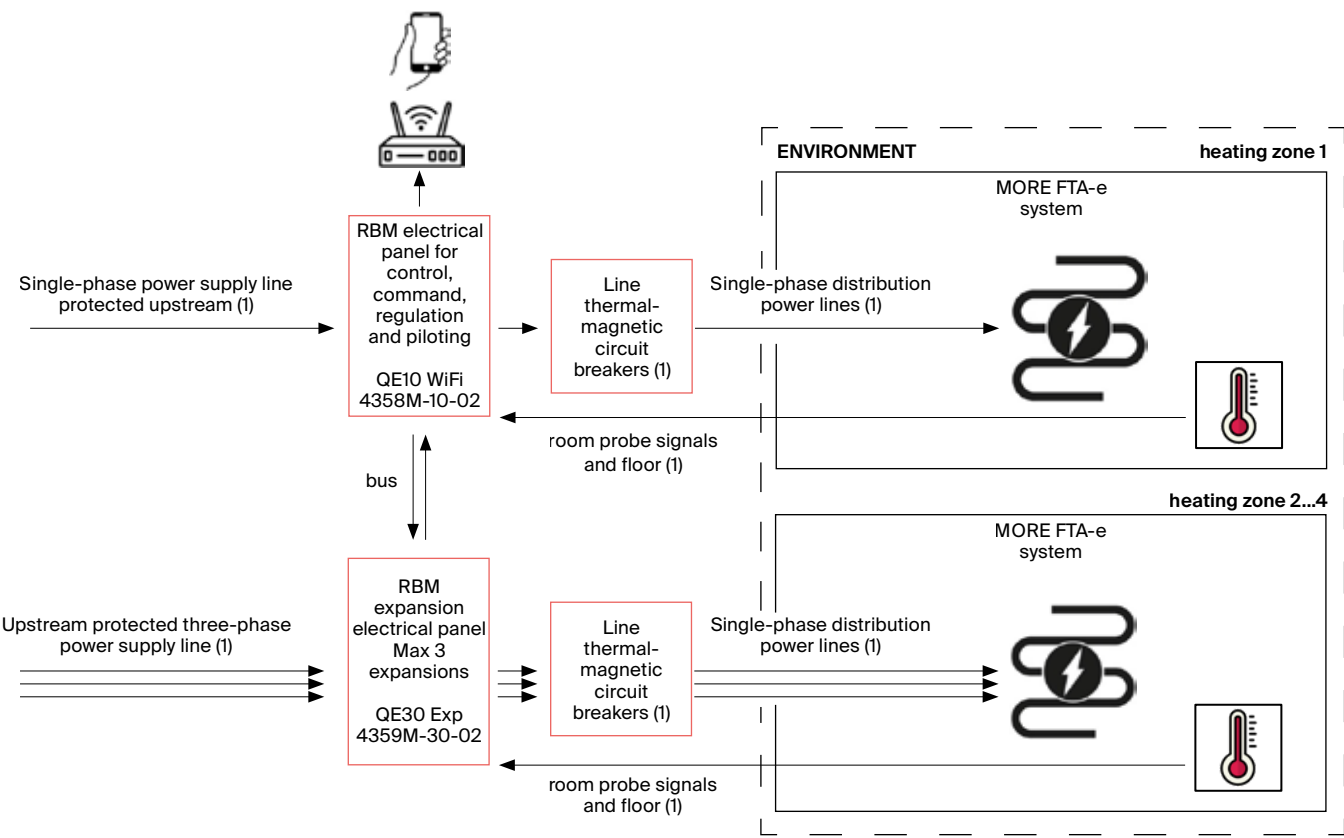


- (1) the following activities must be carried out by the electrical installer (1):
- Electrical panel installation MORE
  - Sizing, supply and installation of the electrical panel power supply line MORE
  - Sizing, supply and installation of the protection panel to be placed downstream of the MORE electrical panel; the protections must include the position switch whose contact must be supplied to the MORE electrical panel to diagnose the alarm in the event of intervention of one of the protections
  - Sizing, supply and installation of the electrical power supply, from the protection panel to the outdoor area
  - Electrical connection of heating circuits, room and floor temperature probes and maximum temperature microthermostats



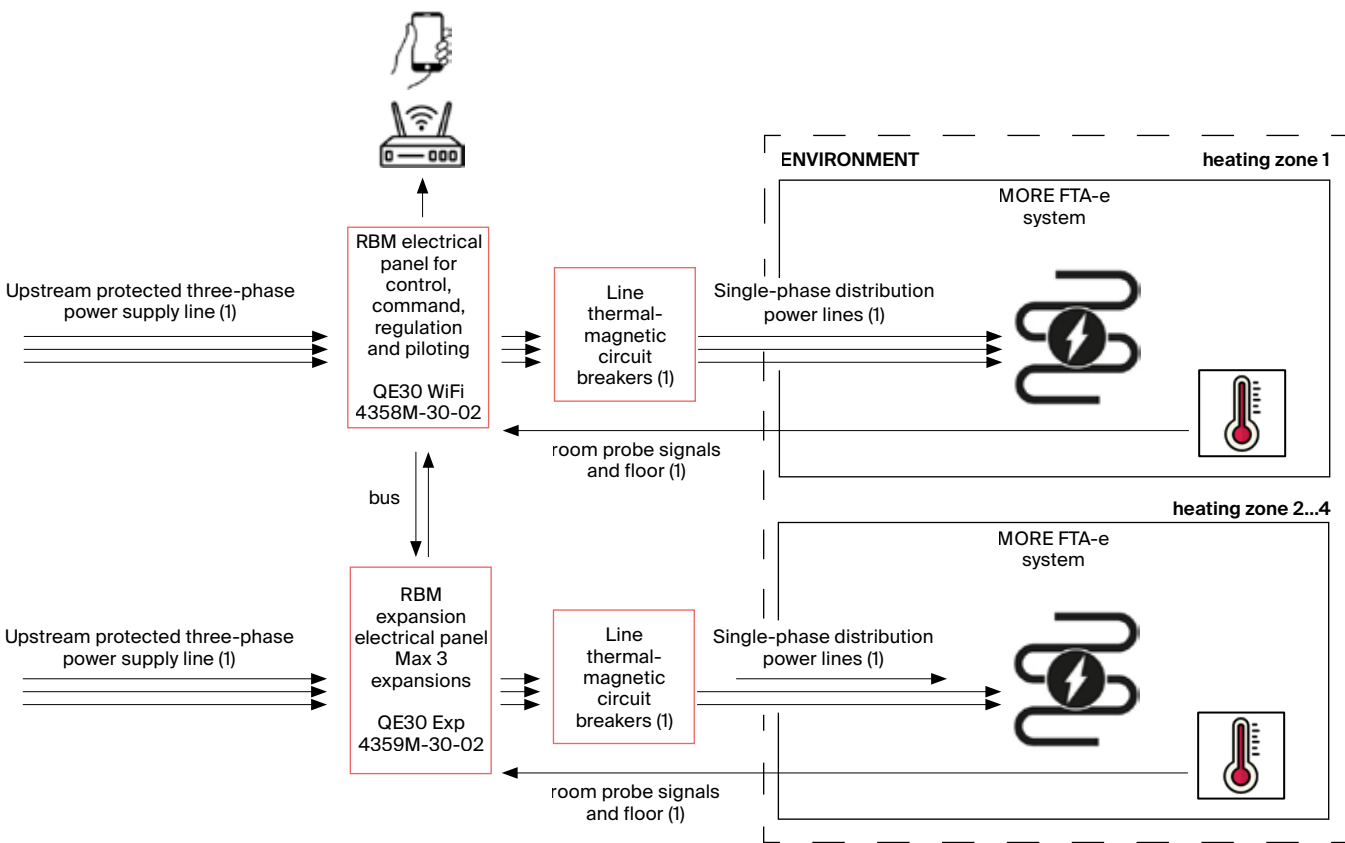
CONFIGURATION 3

Maximum nominal power 10 kW master panel  
Max expansion of 3 panels with a nominal 30 kW  
Active area max 260 m²



CONFIGURATION 4

Maximum nominal power 30 kW master panel  
Max expansion of 3 panels with a nominal 30 kW  
Active area max 310 m²



(1) the following activities must be carried out by the electrical installer (1):

- Electrical panel installation MORE
- Sizing, supply and installation of the electrical panel power supply line MORE
- Sizing, supply and installation of the protection panel to be placed downstream of the MORE electrical panel; the protections must include the position switch whose contact must be supplied to the MORE electrical panel to diagnose the alarm in the event of intervention of one of the protections
- Sizing, supply and installation of the electrical power supply, from the protection panel to the outdoor area
- Electrical connection of heating circuits, room and floor temperature probes and maximum temperature microthermostats

OUTDOOR: ADDITIONAL SERVICES

Outdoor areas can be equipped with their own dedicated general power supply for services related to the structure’s functionality, such as:

- Motorization for opening/closing the cover or slats
- External blind motorization
- Indoor/outdoor ambient lighting

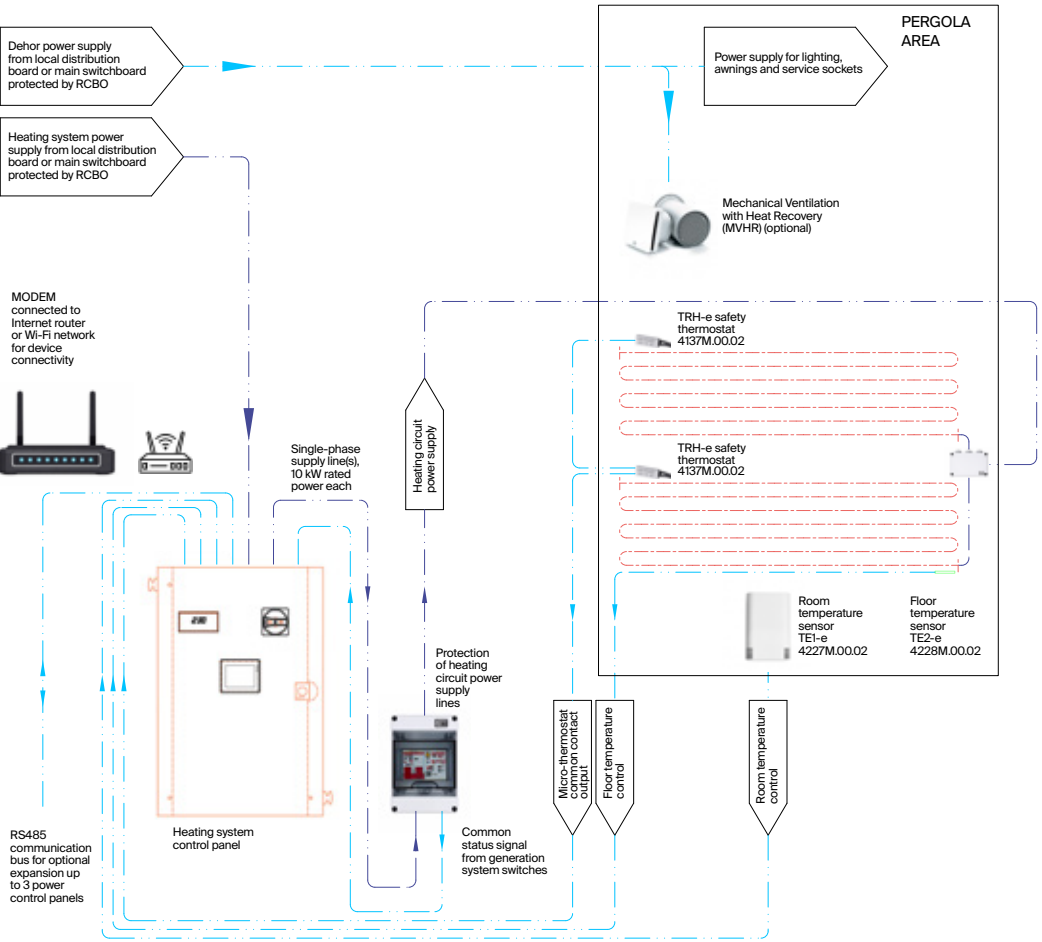
The additional services provided by winter air conditioning can be powered as follows:

FTA-e radiant heating

- It is preferable that the power supply for the MORE FTA-e system be dedicated, separate from the general power supply for the outdoor area’s services
- The power supply line must be adequately protected with a residual current device
- When using the MORE QE10 WIFI, QE30 WIFI, or QE30 EXP control panels, the power lines for the radiant circuits must be adequately protected by the installer against possible short circuits and overloads; the sizing of this protection will depend, among other factors, on the distance between the control panel and the load

Controlled Mechanical Ventilation

- The power supply can be derived directly from the general power line for the outdoor area's utilities; operational modes will be managed via the supplied remote control

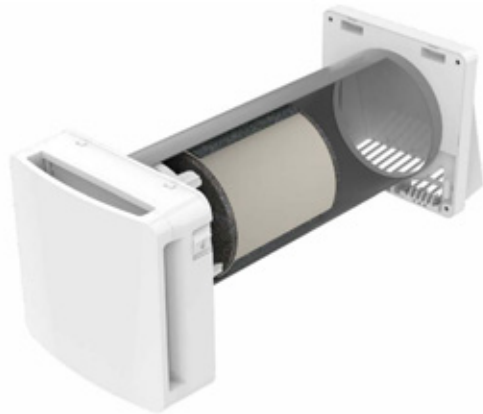


# How can condensation be prevented?

During the winter season, in fully enclosed pergolas, high levels of air humidity can occur, which, upon contact with cold surfaces, cause condensation that can lead to living discomfort, mold and mildew growth, damage to materials and furnishings, unpleasant odors, and potential health issues.

MORE VMC: AIR HANDLING SYSTEM

The MORE VMC controlled mechanical ventilation system is the ideal solution to help prevent condensation on surfaces. Thanks to the continuous renewal of indoor air through the introduction of filtered outdoor air, whose temperature is regulated by an integrated heat recovery unit, MORE VMC ensures a healthy and comfortable environment. MORE VMC is a decentralized heat recovery ventilation unit featuring a ceramic heat exchanger and alternating airflow.



For a pergola with a nominal surface of 25 m², MORE VMC is able to ensure, in automatic operation, an air renewal of approximately half the room volume within one hour.

# How can you reduce the risk of snow accumulation on the roof of your outdoor seating area?

In most European climates, the heaviest snowfall generally occurs when air temperatures range between **+2°C and -4°C**.

As the outdoor temperature drops, the likelihood of heavy snowfall decreases; the snow is very dry and light, is easily carried by the wind, and has a lower tendency to adhere to protrusions and rough surfaces.

Conversely, snow that falls when the air temperature is close to 0°C is very compact and heavy, with a high tendency to accumulate on surfaces at the same temperature as the air.



## SNOW REMOVAL

The desired effect is the same as that typically observed near a road inspection manhole exposed to heat radiation from the ground, the sewer system, or the groundwater. In the case of the pergola, however, there is no natural heat source, so a dedicated heating system must be used to radiate heat toward the roof in order to melt the snow effectively.

## INDIRECT SNOW MELTING WITH MORE FTA-e AND MORE DEFROST

If the outdoor area is equipped with the MORE FTA-e radiant heating system, the radiation directed toward the underside of the canopy facilitates the snow-melting process.

Up to an outside temperature of -5°C, the aluminum slat roofing of the pergolas can reach an average temperature of approximately 3.5°C with an internal operating temperature in the outdoor area of approximately 20°C. Therefore, the use of the MORE FTA-e system helps reduce the risk of the pergola roofing becoming overloaded by snow accumulation.

Indirect snow melting of the outdoor area's canopy can be managed using the **MORE DEFROST** system in combination with the MORE FTA-e radiant heating system. If the MORE FTA-e electric heating system is in standby mode, the MORE DEFROST system controller will override it and take control of snow removal operations. To reduce warm-up times and allow the pergola to respond more quickly in the event of snowfall, it is advisable to avoid letting the ambient temperature drop below a certain threshold.

For example, during periods with adverse weather forecasts, it is advisable to set an anti-freeze temperature of 10/12 °C on the REG2 controller of the MORE FTA-e system.





# Technical column

If the MORE FTA-e electric radiant heating system is to be installed in freestanding pergolas not adjacent to a wall and/or when the MORE VMC controlled mechanical ventilation unit is included, the pergola structure must be equipped with a technical column capable of housing electrical equipment, power supplies, and temperature sensors.

\* MORE VMC

TECHNICAL  
COLUMN

MORE  
PROBE TE1-e



\* The technical column is designed to support a maximum of two MORE VMC units

# Installed power

POWER kW

| PERGOLA<br>WIDTH [m] | PERGOLA LENGTH [m] |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                      | 2                  | 2.5 | 3    | 3.5  | 4    | 4.5  | 5    | 5.5  | 6    | 6.5  | 7    | 7.5  | 8    | 8.5  | 9    | 9.5  | 10   |
| 2                    | 1.4                | 1.8 | 2.1  | 2.5  | 2.8  | 3.2  | 3.6  | 3.9  | 4.3  | 4.6  | 5.0  | 5.3  | 5.7  | 6.0  | 6.4  | 6.7  | 7.1  |
| 2.5                  | 1.8                | 2.2 | 2.7  | 3.1  | 3.6  | 4.0  | 4.4  | 4.9  | 5.3  | 5.8  | 6.2  | 6.7  | 7.1  | 7.5  | 8.0  | 8.4  | 8.9  |
| 3                    | 2.1                | 2.7 | 3.2  | 3.7  | 4.3  | 4.8  | 5.3  | 5.9  | 6.4  | 6.9  | 7.5  | 8.0  | 8.5  | 9.1  | 9.6  | 10.1 | 10.7 |
| 3.5                  | 2.5                | 3.1 | 3.7  | 4.3  | 5.0  | 5.6  | 6.2  | 6.8  | 7.5  | 8.1  | 8.7  | 9.3  | 9.9  | 10.6 | 11.2 | 11.8 | 12.4 |
| 4                    | 2.8                | 3.6 | 4.3  | 5.0  | 5.7  | 6.4  | 7.1  | 7.8  | 8.5  | 9.2  | 9.9  | 10.7 | 11.4 | 12.1 | 12.8 | 13.5 | 14.2 |
| 4.5                  | 3.2                | 4.0 | 4.8  | 5.6  | 6.4  | 7.2  | 8.0  | 8.8  | 9.6  | 10.4 | 11.2 | 12.0 | 12.8 | 13.6 | 14.4 | 15.2 | 16.0 |
| 5                    | 3.6                | 4.4 | 5.3  | 6.2  | 7.1  | 8.0  | 8.9  | 9.8  | 10.7 | 11.5 | 12.4 | 13.3 | 14.2 | 15.1 | 16.0 | 16.9 | 17.8 |
| 5.5                  | 3.9                | 4.9 | 5.9  | 6.8  | 7.8  | 8.8  | 9.8  | 10.7 | 11.7 | 12.7 | 13.7 | 14.6 | 15.6 | 16.6 | 17.6 | 18.5 | 19.5 |
| 6                    | 4.3                | 5.3 | 6.4  | 7.5  | 8.5  | 9.6  | 10.7 | 11.7 | 12.8 | 13.8 | 14.9 | 16.0 | 17.0 | 18.1 | 19.2 | 20.2 | 21.3 |
| 6.5                  | 4.6                | 5.8 | 6.9  | 8.1  | 9.2  | 10.4 | 11.5 | 12.7 | 13.8 | 15.0 | 16.2 | 17.3 | 18.5 | 19.6 | 20.8 | 21.9 | 23.1 |
| 7                    | 5.0                | 6.2 | 7.5  | 8.7  | 9.9  | 11.2 | 12.4 | 13.7 | 14.9 | 16.2 | 17.4 | 18.6 | 19.9 | 21.1 | 22.4 | 23.6 | 24.9 |
| 7.5                  | 5.3                | 6.7 | 8.0  | 9.3  | 10.7 | 12.0 | 13.3 | 14.6 | 16.0 | 17.3 | 18.6 | 20.0 | 21.3 | 22.6 | 24.0 | 25.3 | 26.6 |
| 8                    | 5.7                | 7.1 | 8.5  | 9.9  | 11.4 | 12.8 | 14.2 | 15.6 | 17.0 | 18.5 | 19.9 | 21.3 | 22.7 | 24.1 | 25.6 | 27.0 | 28.4 |
| 8.5                  | 6.0                | 7.5 | 9.1  | 10.6 | 12.1 | 13.6 | 15.1 | 16.6 | 18.1 | 19.6 | 21.1 | 22.6 | 24.1 | 25.6 | 27.2 | 28.7 | 30.2 |
| 9                    | 6.4                | 8.0 | 9.6  | 11.2 | 12.8 | 14.4 | 16.0 | 17.6 | 19.2 | 20.8 | 22.4 | 24.0 | 25.6 | 27.2 | 28.8 | 30.4 | 32.0 |
| 9.5                  | 6.7                | 8.4 | 10.1 | 11.8 | 13.5 | 15.2 | 16.9 | 18.5 | 20.2 | 21.9 | 23.6 | 25.3 | 27.0 | 28.7 | 30.4 | 32.0 | 33.7 |
| 10                   | 7.1                | 8.9 | 10.7 | 12.4 | 14.2 | 16.0 | 17.8 | 19.5 | 21.3 | 23.1 | 24.9 | 26.6 | 28.4 | 30.2 | 32.0 | 33.7 | 35.5 |

|  |                                                                   |
|--|-------------------------------------------------------------------|
|  | outdoor areas with installed electrical power up to 10 kW nominal |
|  | outdoor areas with installed electrical power up to 30 kW nominal |
|  | outdoor areas with installed electrical power over 30 kW nominal  |

# Thermal performance

Theoretical outdoor temperatures at which it is possible to maintain thermal performance inside the outdoor area

RANGE °C  
°C VALUE / °C VALUE (1)

| PERGOLA<br>WIDTH [m] | PERGOLA LENGTH [m] |         |         |          |          |          |          |          |          |          |          |          |           |           |           |           |           |
|----------------------|--------------------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
|                      | 2                  | 2.5     | 3       | 3.5      | 4        | 4.5      | 5        | 5.5      | 6        | 6.5      | 7        | 7.5      | 8         | 8.5       | 9         | 9.5       | 10        |
| 2                    | 8 / 14             | 7 / 13  | 5 / 11  | 4 / 10   | 3 / 9    | 2 / 8    | 1 / 7    | 1 / 7    | 0 / 6    | -1 / 5   | -1 / 5   | -2 / 4   | -3 / 3    | -3 / 3    | -4 / 2    | -4 / 2    | -5 / 1    |
| 2.5                  | 7 / 13             | 5 / 11  | 3 / 10  | 3 / 9    | 1 / 7    | 0 / 6    | 0 / 6    | -1 / 5   | -2 / 4   | -3 / 3   | -4 / 2   | -4 / 2   | -5 / 1    | -5 / 1    | -6 / 0    | -6 / 0    | -7 / -1   |
| 3                    | 5 / 11             | 3 / 10  | 2 / 8   | 1 / 7    | 0 / 6    | -1 / 3   | -2 / 4   | -3 / 3   | -4 / 2   | -5 / 1   | -5 / 1   | -6 / 0   | -6 / 0    | -7 / -1   | -7 / -1   | -8 / -2   | -8 / -2   |
| 3.5                  | 4 / 10             | 3 / 9   | 1 / 7   | 0 / 6    | -1 / 5   | -3 / 3   | -4 / 2   | -4 / 2   | -5 / 1   | -6 / 0   | -7 / -1  | -7 / -1  | -8 / -2   | -8 / -2   | -9 / -3   | -9 / -3   | -10 / -4  |
| 4                    | 3 / 9              | 1 / 7   | 0 / 6   | -1 / 5   | -3 / 3   | -4 / 2   | -5 / 1   | -6 / 0   | -6 / 0   | -7 / -1  | -8 / -2  | -8 / -2  | -9 / -3   | -9 / -3   | -10 / -4  | -10 / -4  | -11 / -5  |
| 4.5                  | 2 / 8              | 0 / 6   | -1 / 3  | -3 / 3   | -4 / 2   | -5 / 1   | -6 / 0   | -7 / -1  | -7 / -1  | -8 / -2  | -9 / -3  | -9 / -3  | -10 / -4  | -10 / -4  | -11 / -5  | -11 / -5  | -12 / -6  |
| 5                    | 1 / 7              | 0 / 6   | -2 / 4  | -4 / 2   | -5 / 1   | -6 / 0   | -7 / -1  | -8 / -2  | -8 / -2  | -9 / -3  | -10 / -4 | -10 / -4 | -11 / -5  | -11 / -5  | -12 / -6  | -12 / -6  | -12 / -7  |
| 5.5                  | 1 / 7              | -1 / 5  | -3 / 3  | -4 / 2   | -6 / 0   | -7 / -1  | -8 / -2  | -8 / -2  | -9 / -3  | -10 / -4 | -10 / -4 | -11 / -4 | -12 / -6  | -12 / -6  | -12 / -6  | -13 / -7  | -13 / -7  |
| 6                    | 0 / 6              | -2 / 4  | -4 / 2  | -5 / 1   | -6 / 0   | -7 / -1  | -8 / -2  | -9 / -3  | -10 / -4 | -11 / -5 | -11 / -5 | -12 / -6 | -12 / -6  | -12 / -6  | -13 / -7  | -13 / -7  | -14 / -8  |
| 6.5                  | -1 / 5             | -3 / 3  | -5 / 1  | -6 / 0   | -7 / -1  | -8 / -2  | -9 / -3  | -10 / -4 | -11 / -5 | -11 / -5 | -12 / -6 | -12 / -6 | -13 / -7  | -13 / -7  | -14 / -8  | -14 / -8  | -14 / -8  |
| 7                    | -1 / 5             | -4 / 2  | -5 / 1  | -7 / -1  | -8 / -2  | -9 / -3  | -10 / -4 | -10 / -4 | -11 / -5 | -12 / -6 | -12 / -6 | -13 / -7 | -13 / -7  | -14 / -8  | -14 / -8  | -14 / -8  | -15 / -9  |
| 7.5                  | -2 / 4             | -4 / 2  | -6 / 0  | -7 / -1  | -8 / -2  | -9 / -3  | -10 / -4 | -11 / -4 | -12 / -6 | -12 / -6 | -13 / -7 | -13 / -7 | -14 / -8  | -14 / -8  | -15 / -9  | -15 / -9  | -15 / -9  |
| 8                    | -3 / 3             | -5 / 1  | -6 / 0  | -8 / -2  | -9 / -3  | -10 / -4 | -11 / -5 | -12 / -6 | -12 / -6 | -13 / -7 | -13 / -7 | -14 / -8 | -14 / -8  | -15 / -9  | -15 / -9  | -15 / -9  | -16 / -10 |
| 8.5                  | -3 / 3             | -5 / 1  | -7 / -1 | -8 / -2  | -9 / -3  | -10 / -4 | -11 / -5 | -12 / -6 | -12 / -6 | -13 / -7 | -14 / -8 | -14 / -8 | -15 / -9  | -15 / -9  | -15 / -9  | -16 / -10 | -16 / -10 |
| 9                    | -4 / 2             | -6 / 0  | -7 / -1 | -9 / -3  | -10 / -4 | -11 / -5 | -12 / -6 | -12 / -6 | -13 / -7 | -14 / -8 | -14 / -8 | -15 / -9 | -15 / -9  | -15 / -9  | -16 / -10 | -16 / -10 | -16 / -10 |
| 9.5                  | -4 / 2             | -6 / 0  | -8 / -2 | -9 / -3  | -10 / -4 | -11 / -5 | -12 / -6 | -13 / -7 | -13 / -7 | -14 / -8 | -14 / -8 | -15 / -9 | -15 / -9  | -16 / -10 | -16 / -10 | -16 / -10 | -16 / -10 |
| 10                   | -5 / 1             | -7 / -1 | -8 / -2 | -10 / -4 | -11 / -5 | -12 / -6 | -12 / -7 | -13 / -7 | -14 / -8 | -14 / -8 | -15 / -9 | -15 / -9 | -16 / -10 | -16 / -10 | -16 / -10 | -16 / -10 | -17 / -11 |

Notes:

(1) The table shows the theoretical performance limits achievable in a glazed outdoor area without windows or thermal insulation, featuring an aluminum slat roof. Each cell contains two temperature values.

- The value on the left represents the minimum external temperature at which it is possible to maintain the ambient air temperature of approximately 14°C (operating temp. approximately 18°C);
- The value on the right represents the minimum external temperature at which it is possible to maintain the ambient air temperature of approximately 20°C (operating temp. approximately 22°C);
- The “purple” cells refer to environments where, while maintaining the air temperature at 14°C and 20°C respectively, the operating temperature cannot be guaranteed. The declared performance refers to the maximum extension of the radiant system over the entire internal surface of the pergola.



# MORE VMC system for Residential applications

Number of units required

| PERGOLA<br>WIDTH [m] | PERGOLA LENGTH [m] |     |   |     |   |     |   |     |   |     |   |     |   |     |   |     |    |
|----------------------|--------------------|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|----|
|                      | 2                  | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
| 2                    | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1  |
| 2.5                  | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1  |
| 3                    | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 2  |
| 3.5                  | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2  |
| 4                    | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2  |
| 4.5                  | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2  |
| 5                    | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2  |
| 5.5                  | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2  |
| 6                    | 1                  | 1   | 1 | 1   | 1 | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 3  |
| 6.5                  | 1                  | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3  |
| 7                    | 1                  | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3  |
| 7.5                  | 1                  | 1   | 1 | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 3  |
| 8                    | 1                  | 1   | 1 | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3 | 3   | 3  |
| 8.5                  | 1                  | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 3 | 3   | 3  |
| 9                    | 1                  | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3 | 3   | 3 | 3   | 4  |
| 9.5                  | 1                  | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3 | 3   | 3 | 4   | 4  |
| 10                   | 1                  | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 3 | 3   | 4 | 4   | 4  |

|  |                   |
|--|-------------------|
|  | 1 unit installed  |
|  | 2 units installed |
|  | 3 units installed |
|  | 4 units installed |

# MORE VMC system for Commercial applications

Number of units required

| PERGOLA<br>WIDTH [m] | PERGOLA LENGTH [m] |     |   |     |   |     |   |     |   |     |   |     |   |     |   |     |    |
|----------------------|--------------------|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|----|
|                      | 2                  | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
| 2                    | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2  |
| 2.5                  | 1                  | 1   | 1 | 1   | 1 | 1   | 1 | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2  |
| 3                    | 1                  | 1   | 1 | 1   | 1 | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 3  |
| 3.5                  | 1                  | 1   | 1 | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3  |
| 4                    | 1                  | 1   | 1 | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3 | 3   | 3  |
| 4.5                  | 1                  | 1   | 1 | 2   | 2 | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 3 | 3   | 4  |
| 5                    | 1                  | 1   | 2 | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 3 | 3   | 4 | 4   | 4  |
| 5.5                  | 1                  | 1   | 2 | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3 | 3   | 3 | 4   | 4 | 4   | 4  |
| 6                    | 1                  | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 3 | 4   | 4 | 4   | 4 | 4   | 5  |
| 6.5                  | 1                  | 2   | 2 | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 4 | 4   | 4 | 4   | 4 | 5   | 5  |
| 7                    | 1                  | 2   | 2 | 2   | 2 | 3   | 3 | 3   | 3 | 4   | 4 | 4   | 4 | 5   | 5 | 5   | 5  |
| 7.5                  | 2                  | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 4 | 4   | 4 | 4   | 5 | 5   | 5 | 5   | 6  |
| 8                    | 2                  | 2   | 2 | 2   | 3 | 3   | 3 | 3   | 4 | 4   | 4 | 5   | 5 | 5   | 5 | 6   | 6  |
| 8.5                  | 2                  | 2   | 2 | 3   | 3 | 3   | 3 | 4   | 4 | 4   | 5 | 5   | 5 | 5   | 6 | 6   | 6  |
| 9                    | 2                  | 2   | 2 | 3   | 3 | 3   | 4 | 4   | 4 | 4   | 5 | 5   | 5 | 6   | 6 | 6   | 7  |
| 9.5                  | 2                  | 2   | 2 | 3   | 3 | 3   | 4 | 4   | 4 | 5   | 5 | 5   | 6 | 6   | 6 | 7   | 7  |
| 10                   | 2                  | 2   | 3 | 3   | 3 | 4   | 4 | 4   | 5 | 5   | 5 | 6   | 6 | 6   | 7 | 7   | 7  |

|  |                   |
|--|-------------------|
|  | 1 unit installed  |
|  | 2 units installed |
|  | 3 units installed |
|  | 4 units installed |

|  |                   |
|--|-------------------|
|  | 5 units installed |
|  | 6 units installed |
|  | 7 units installed |

# Data sheet



Frame the Qr code  
to consult the data  
sheet

# Installation

The system does not require masonry work and, for this reason, can be used to cover valuable or historically valuable floors without damaging them.

MORE FTA-e is designed to provide thermal comfort in a flexible and practical way in various contexts, from residences to commercial spaces or temporary events.



Frame the Qr code  
to consult the  
installation manual



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