

DATABOOK

DB_ME_AIRME 3000 - 20000_012024_EN_rev00



AIRME 3000 - 20000

10 - 150 kW

Reversible compact air handling unit,
hydronic or direct expansion



(The photo of the unit is purely indicative and may vary depending on the model and selected accessories)

- ✓ HIGH STANDARDISATION
- ✓ VERSATILE OPERATION

- ✓ HIGH RELIABILITY
- ✓ MODELS AVAILABLE FOR EACH SIZE

Product certifications

- s-AIRME-G07 has been designed in compliance with the following standards and regulations:
- Machine Directive (MD) 2006/42/EC
- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic compatibility (EMC) Command 2014/30/EU
- Regulation EU 2014:1253 (Ecodesign 2009/125/EC)
- Specified Hazardous Substance Restriction (RoHS) Directive 2011/65/EU

Company certifications



Climaveneta S.p.A.:

Quality Management System in compliance with the requirements of UNI EN ISO9001:2008

Environmental Management System in compliance with the requirements of UNI EN ISO14001:2004

Company certifications

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Read this document carefully. All work must be performed, components selected and materials used professionally and in complete accordance with the legislation in force in material in the country concerned, and considering the operating conditions and intended uses of the system, by qualified personnel.

The data contained in this publication may be changed without prior notice.

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GREEN CERTIFICATION RELEVANT

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Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., European leader in high-efficiency centralised air-conditioning systems, recognises and supports the use of energy and environmental impact certification systems as incentives for the construction of buildings with high energy performance and the development of more sustainable and better quality buildings.

Since the introduction of the first certification system in the early 1990s, interest in building certification has grown considerably and has led to the introduction of a large number of standards, rating systems and certification programs. With its strong international presence, Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. has considerable direct experience with many of these certifications and is an active member of GBC Italia.

The commitment of Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. to the development of responsible and sustainable air-conditioning solutions translates into a comprehensive range of energy-efficient products and systems, designed with a focus on improving energy performance and thus the score that can be achieved in the main certification rating systems, such as LEED, BREAM, GREENSTAR, BCA, NABERS, DNGB, HQE and BEAM.

For more information on how Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. products can contribute to improving the energy performance and rating of a building according to the main environmental certifications, please visit:

<https://www.melcohit.com/GLOBAL/Company/Green-Certifications/QR%20code/>



AIRME units are reversible, and compact air handling units, ideal for complete treatment of fresh air, recirculated air only or a mix of the two, in environments characterised by medium volume surfaces, such as shops, small supermarkets, cinemas and theatres, logistics centres or trade fairs.

The range presents an hydronic version (w-AIRME), with a water air treatment coil optimized to work with Mitsubishi Electric chillers or heat pumps, or a direct expansion version (s-AIRME-G07), with an air treatment coil that works with R32 in coupling with Mitsubishi Electric Mr.Slim outdoor units.

For both the versions, the control logic grants the operation at the highest efficiency even in complex systems with several external units, hydronic or direct expansion.

The units can be selected from 3 different versions (**C**, **I** and **B** depending on the desired power) and various configurations, from full recirculation to plate heat exchanger, depending on the design requirements.

AIRME units are designed for both indoor and outdoor installation, in compliance with the requirements of UNI EN 378 in case of s-AIRME-G07.

2.1 Perfect integration with Mitsubishi Electric systems

Both the air treatment coils, hydronic or direct expansion, are designed to work in synergy with Mitsubishi Electric units; in case of s-AIRME-G07, in accordance with the specific guidelines of Mr.Slim outdoor units.



R32 refrigerant gas delivers a significant reduction in environmental impact due to an ODP of 0 and a greatly reduced GWP. It is ideal for next generation systems, ensuring a reduced refrigerant volume per kW due to its high thermal conductivity.

Pressure drops in the refrigerant circuit are also much reduced. R32 is a mono-component gas, easily available and simple to use.

2.2 Precise and efficient control

AIRME units are **plug&play** solutions with a state-of-the-art control system completely developed by MEHITS S.p.a. and able to guarantee a high level of control of ventilation and of heating and cooling capabilities, making the most of the energy coming from the coupled Mitsubishi Electric units.

The unique **IMOUC** protocol, for example, allows to s-AIRME-G07 an optimised operation with multiple outdoor units (if present), while the **KIPLink** interface makes the range AIRME available in BEYELink, a complete MEHITS supervisory system that not only allows display of all MEHITS units, but also **includes communication with the Mitsubishi AE200/POST AE 200 and EW-50 supervisory systems.**

2.3 Simpler installations and versatility of use

AIRME units are extremely compact and ready for use, all the control, regulation and safety components are pretested and already installed in the different cabinets. No further operations are therefore required to connect to Mitsubishi Electric or other units.

Each application has different needs, all of which require an optimum response.

There may be applications where the unit works in integration with other systems or, conversely, where it is the main and only system for air handling and ventilation.

The AIRME range of units offer different air handling configurations, from recirculation only, to 2/3 ways mixing box to work with fresh air portion up to 100% (full fresh air).

Moreover, each of the different functions can be further customised thanks to a wide range of accessories.

3 DESCRIPTION OF UNIT

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3.1 Description

Reversible, configurable, compact air handling unit, for both indoor and outdoor installation, designed for air handling, filtering and change, depending on the chosen configuration.

The air is treated by the air treatment hydronic or direct expansion coil installed in the unit, specifically designed to work in synergy with Mitsubishi Electric units. In case of s-AIRME-G07, the coil respects the Mitsubishi Electric's guidelines for optimal combination with R32 Mr.Slim outdoor units.

For w-AIRME, the coupling with chillers/heat pumps of other producers is anyway allowed..

Depending on the function chosen, the unit can be used to manage thermal and enthalpy free-cooling mode, with supply fan and motorised dampers for fresh air and recirculation.

The AIRME range is within the minimum efficiency limits of Regulation (EU) 1253/2014, implementing European Directive 2009/125/EC in determining the ERP requirements for air handling units.

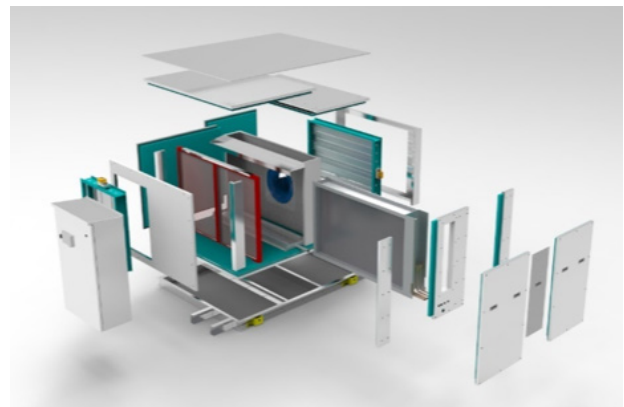
3.1.1 Structure

Self-supporting one-piece structure without aluminium profiles, made from 60 mm thick sandwich panels with thermal break. The panels consist of an external pre-painted metal sheet providing total resistance to atmospheric agents (paint reference RAL 7035), a layer of thermal and acoustic insulation in polyurethane foam with an average density of 45 kg/m³ and Euroclass E reaction to fire according to EN 13501/1 (optional insulation in rock wool with an average density of 90 kg/m³ and Euroclass A1) and an inner galvanised steel sheet.

The panels are declared in RC3 corrosion class according to EN ISO 10169.

Moreover, they are declared with the following classes according to EN 1886:

Description	Class
Thermal transmittance	T2
Thermal bridging factor	TB2
Maximum relative deflection	D1(M)
Casing leakage (+700 Pa)	L1(M)
Casing Leakage (-400 Pa)	L1(M)
Filter bypass	F9(M)



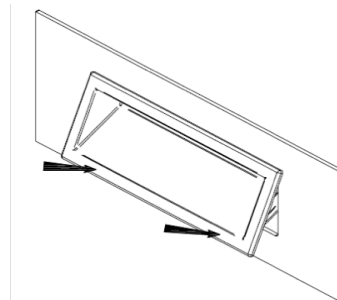
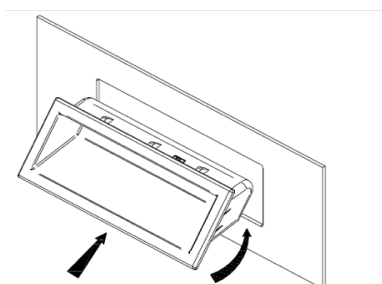
Compared to traditional profile-panel structures, this solution completely eliminates the thermal bridges that occur through aluminium profiles, drastically reducing the structure's thermal break factor and improving the unit's overall performance.

Both the structure and internal counterframe supporting the various components are made of galvanised steel, as is the unit's load-bearing base.

Air and water tightness are guaranteed by a continuous propylene gasket on the panels.

The unit is accessed by removing the access panels, attached to the structure with removable screws.

The panels are handled via snap-out handles, recessed into the panels when closed.



All versions, from full recirculation to the unit with plate heat recovery, are contained in a one-piece structure, considerably simplifying handling and on-site installation of AIRME units.

3.1.2 Filtration

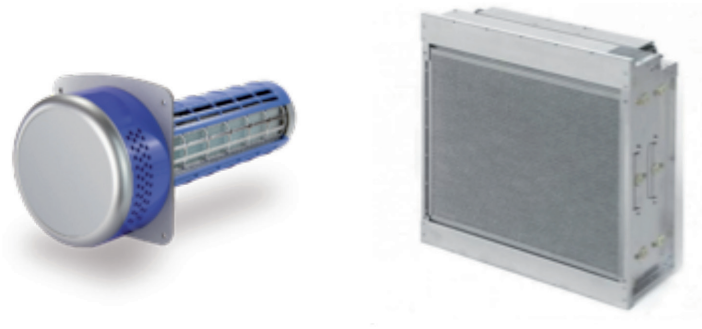
Washable pleated synthetic fibre 98 mm thick panel prefilter, ISO coarse 55% class according to ISO 16890 (G4 according to EN 779).

The filters are positioned on steel guides with easy access for routine maintenance and replacement. As an option, prefilters are available with different degrees of efficiency.

The section downstream of the prefilter includes an ePM01 50% high-efficiency pocket filter (F7 according to EN 779).

As an option, the latter is available with different efficiency classes: ePM10 75% (M6 according to EN 779), ePM01 70% (F8 according to EN 779) and ePM01 80% (F9 according to EN 779).

There are therefore multiple **IAQ** (Indoor Air Quality) solutions, together with **Photocatalytic Oxidation** (PCO) purification lamps and electronic filters for highly purified air, with elimination of pollen, fine dust, mould, smog, viruses and bacteria (see paragraphs 4.2 and 4.3).



Following system commissioning, the filters should be replaced to eliminate any trapped impurities.

3.1.3 Air treatment coil

Air treatment coil, hydronic or direct expansion, designed according to the Mitsubishi Electric standards.

- w-AIRME: water air treatment coil with mechanically expanded copper tubes and corrugated aluminium fins.

In terms of capacity supplied and air flow handled, the geometry is optimized to work with Mitsubishi Electric chillers and heat pumps.

The hydronic kit composed by pipes and 3 ways valve with modulating servomotor, necessary to manage the unit capacity by varying the waterflow entering the coil, is supplied with the unit itself.

- s-AIRME-G07: direct expansion coil with one or more interlaced gas circuits, with mechanically expanded copper tubes and corrugated aluminium fins. The geometry is designed in compliance with Mitsubishi Electric's guidelines for compatibility between capacity supplied and air flow handled, guaranteeing a perfect combination with Mr.Slim outdoor units series.

The speed of the air through the coil is kept below the limit value of 2.7 m/s, including at full flow, to avoid entraining condensate, even in the most extreme temperature-humidity conditions. Galvanised steel condensate collection pan, with sloping bottom and complete with drain attachment.

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3.1.4 Air handling fan module

Supply air plug fan with EC brushless motor. Metal impeller with backward inclined blades, with three-dimensional blade profile optimised for very high efficiency and low noise.

Directly-coupled EC brushless motor, with IP54 protection class, for continuous and precise control of air flow without the adoption of external inverters.

Two types of fans are available: standard fans and, as an option, an enhanced version for higher static pressure.

The fans installed comply with IEC 60335-2-40, sections 22.116 and 22.117, which makes them suitable for operation also in the presence of A2L refrigerant gas.

3.1.5 s-AIRME-G07 - Outdoor units scheme

The direct expansion coils in s-AIRME-G07 units are designed for combination with R32 Mitsubishi Electric Mr.Slim outdoor units (R32 and R410A versions).

They can be combined with both Mr.Slim Standard Inverter and Mr.Slim Power Inverter units, guaranteeing higher efficiency levels and extended operating limits.

For all recirculation (AR) and 2 ways mixing box (MF) versions, the combination scheme is as follows:

		All Recirculation (AR) Mixing & Freecooling (MF)																							
		3000			5000			7500			10000			12500			15000			20000					
Version		C	I	B	C	I	B	C	I	B	C	I	B	C	I	B	C	I	B	C	I	B	C	I	B
Rated/Max Air Flow	[m³/h]	3000			5000			7500			10000			12500			15000			20000					
Min Air Flow	[m³/h]	1000	1500	2000	2000	2500	3500	4000	4000	4600	6000	6000	6000	9000	9000	9000	11000	11000	11000	14000	14000	14000			
"Mr Slim size (R410A / R32)"	100	1		2																					
	125																								
	140		1				1						1												
	200				1		1		2		2		3	1	3	4									
	250					1		1		2		2		1			2	3	4	3	4	5			

The combination scheme for plate recovery (HR-P) units is as follows:

		Heat Recovery - Cross flow																				
		3000			5000			7500			10000			12500			15000					
Version		C	I	B	C	I	B	C	I	B	C	I	B	C	I	B	C	I	B			
Rated/Max Air Flow	[m³/h]	3000			5000			7500			10000			12500			15000					
Min Air Flow	[m³/h]	2000	2300	2800	3250	3950	4550	4250	5900	6500	6200	7850	9100	7850	9100	11350	8450	11750	13600			
"Mr Slim size (R410A / R32)"	100																					
	125				1																	
	140			2																		
	200	1			1	2		1	3	1	2	4		4			2	6				
	250		1				2	1		2	1		4		4	5	2		6			

3.1.6 Power and control electrical panel

Power and control electrical panel built in compliance with EN 60204-1 and IEC 204-1, complete with:

- Control circuit transformer;
- Main door lock disconnect switch;
- Power section with busbars;
- Fuses to protect the loads;
- Spring-loaded terminals on the control circuits;
- PAC-IF 013 boards for managing external condensing units, 1 board for each external unit connected (s-AIRME-G07 only);
- Electrical panel for outdoor installation, with hot galvanised panelling and gaskets;
- Air3000+ microprocessor-based electronic controller
- Operator panel with LCD interface
- Unit power supply voltage: 400V~ ±10% - 50Hz.

The electrical panel has two air grills and its own filter and ventilation system, ensuring continuous ventilation that prevents overheating and reduces the risk of condensation forming on electrical and electronic devices.

3.1.7 s-AIRME-G07 - Safety devices for A2L gas use

s-AIRME-G07 units (R32 refrigerant gas) version using A2L gas (slightly flammable according to ISO 817) need to be equipped with suitable safety devices to prevent the refrigerant gas from concentrating in the area served or inside the unit in the event of leaks.

Therefore the units are **always equipped with a gas sensor** downstream of the air handling coil, as this is the source from which any leak of refrigerant may occur.

Once the leak has been detected, the unit in steady-state operation maintains a minimum level of ventilation to prevent excessive accumulation of gas in the air-conditioned space, diluting it with the conditioned air flow.

If the leak occurs while the machine is off, the alarm stops the unit from starting up.

The unit is also equipped with a "sensor malfunction" alarm, which triggers the same actions as described above if a sensor malfunction is detected.

To support **total environmental safety**, s-AIRME - G07 units may be equipped with "**safety dampers**", a **unique solution** that lends itself especially to spaces with naked flames or in the event of a site blackout.

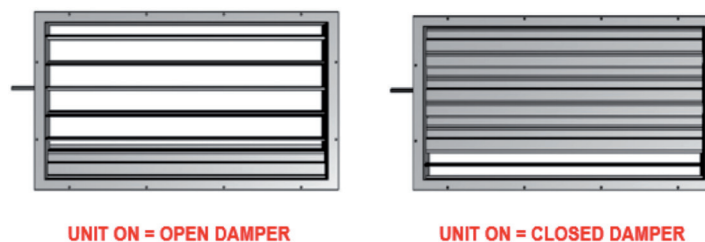
If the unit is required for areas with naked flames (e.g. smoking rooms, kitchens, etc.), the machine is equipped with class 4 dampers (in accordance with EN 1751) on the air supply and return, with the aim of isolating the rooms served in the event of a leak of refrigerant gas. In this case,

the two dampers close, ventilation is stopped and natural ventilation is ensured through the opening of the fresh air intake damper, which allows the evacuation of residual refrigerant.

In addition, to further facilitate refrigerant emptying, the air supply damper is equipped with a counter-rotating blade, which opens outwards when the machine is not in operation, while the remaining blades are closed.

This accessory makes it possible to **keep the unit in communication with the outdoors** at all times, ensuring that any leak of refrigerant can be evacuated.

With the presence of safety dampers, the same type of logic is also applied in cases of **blackout** at the installation site, guaranteeing a maximum level of safety even when the machine is not powered.



If the safety damper accessory is present, care must be taken to channel the air flow supplied by the unit towards the room by excluding the last counter-rotating blade.

3.2 Air3000 + controller

AIR 3000+ The Air3000+ controller features advanced functions and proprietary controls. It comprises a single control PCO for managing both ventilation and heating/cooling. The keypad features function controls and a complete LCD display for viewing data and activating the unit, via a multilevel menu, with settable display language.

- turning the unit on/off
- setting the function (heating or cooling) manually or automatically;
- ventilation and temperature/humidity set points;
- forcing 100% fresh air (not for basic AR version);
- forcing all recirculation

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The temperature control changes according to unit model, which can be hydronic (w-AIRME) or direct expansion (s-AIRME-G07).

In the first case, the capacity is managed by specific algorithms that regulate the waterflow entering the air treatment coil, thanks to the 3 ways valve modulating servomotor included in the hydronic kit.

In case of direct expansion units, the temperature control is provided by the PAC-IF 013 boards interfacing directly with the Mr.Slim outdoor units controllers.

For units fitted with motor-driven fresh air damper (versions MF or HR-P with damper mixing chamber), the controller automatically manages free cooling (or free heating) operation based on the temperature of the fresh air.

When the fresh air temperature is very close to the set point on the return, the unit opens the fresh air intake damper completely, closes recirculation and shuts down all heating devices, delivering the fresh air from outside directly into the room and thus resulting in considerable energy savings.



Optionally, the unit can also manage enthalpy free cooling, activated in certain outside air temperature and humidity conditions.

The ventilation module can work at **constant flow-rate** (standard), **constant pressure** (optional) or **variable flow-rate** in relation to the signal from the CO2 probe (optional). There are 2 modes of variable flow-rate operation, modulating or on 2 levels (max. flow or min. flow).

The controller allows integration and automatic management of various **optional heating devices** (hot water coil, electric heater) for preheating or reheating. It can also regulate the proportion of fresh air in relation to the ppm of CO2 detected by a special probe installed in the unit's intake, duct or directly in the area served (optional).

For direct expansion units, the management of the PAC-IF boards via the proprietary IMOUC protocol allows optimisation of the load distribution on the various external units installed and adoption of an intelligent logic to optimise defrost cycles. The cycles are in fact managed alternately on the various condensing units, requesting more heat power from the units not involved so as to mitigate the impact on the air handled.

During the summer, the **NIGHT PURGE** function, activated by a digital contact, from the service menu, from the BMS, or in relation to specific time slots, allows forcing of free cooling at night-time when the outside air temperature is favourable, enabling activation of auxiliary air conditioning systems to be delayed and thus achieving overall system savings.

Supervision is available with different options, using proprietary devices or by integration into third-party systems using BACnet, BACnet-over-IP, Modbus, Modbus-over-IP and Echelon protocols.

Air3000+ also features an optional innovative **KIPlink (Keyboard In your Pocket, see para. 4.1)** user interface based on WiFi technology, enabling the unit to be operated directly from a smartphone or tablet. KIPlink allows the user to:

- switch the unit on and off;
- change the set points;
- monitor the status of the unit and the various components in detail;
- display and reset any alarms;

The KIPlink interface opens the door to BEYELink, a complete MEHITS supervisory system that not only allows all the MEHITS units equipped with KIPlink to be displayed, but also **includes communication with the Mitsubishi AE200/POST AE 200 and EW-50 supervisory systems**. There is full visibility of the whole system via a single access point (touch panel, PC, etc.), with the possibility of displaying and managing all the units installed.

A **timer** can be used to create an operating profile with up to 4 typical days and 10 different time bands.

3.2.1 s-AIRME-G07 - IMOUC Protocol

IMOUC (Intelligent Multiple Outdoor Unit Control) is an external unit management protocol developed in-house. Via the gateway on which it is loaded, it communicates to each PAC-IF card the power step to be transferred to the respective Mr.Slim connected to the unit.

The main features and advantages are:

- the possibility of connecting and managing simultaneously 6 Mr.Slim units, including with different power ratings;
- the ability to determine and communicate the required power to each Mr.Slim unit connected, prioritising the units working under more favourable conditions (higher efficiencies);
- the possibility of load modulation down to a minimum of 20% of total installed power, a limit not achievable if each Mr.Slim unit worked independently;
- the ability to redistribute and optimise working hours evenly over the various external units connected;
- optimised management of defrost cycles, alternating them between the various Mr.Slim units connected (never all at the same time) and increasing the heat output of those not affected. The impact on the air handled will thus be minimal;
- automatic management of back-up operations, allowing switching to a different Mr.Slim unit when the previous one stops working;
- the NIGHT PURGE function, which forces operation in free cooling during the night when outside air conditions permit, thus achieving high energy savings.

3.3 Certifications

Units compliant with the following directives and corresponding amendments:

- Machinery directive 2006/42/EC.
- Electromagnetic compatibility directive 2014/30/EC.
- Pressure equipment directive 2014/68/EU
- Low voltage directive 2014/35/EC.
- RoHS directive 2011/65/EU (where applicable)
- Gas appliances directive 2016/426/EU (where applicable)
- Regulation (EU) 1253/2014 (implementation of directive 2009/125/EC).

3.4 Versions

For each size and model, AIRME is available in 3 different versions for 3 different power levels:

- Basic C version, suitable for neutral air handling. The air treatment coil is not designed to achieve complete conditioning, but only for recirculation and/or air change;
- Intermediate I version, suitable for air conditioning without dehumidification. The air treatment coil is designed to achieve intermediate conditioning, but are not able to cope with the latent load of a treatment including dehumidification;
- Boosted B version, suitable for air conditioning and dehumidification of the air handled. The air treatment coil is designed to achieve complete air conditioning, capable of supporting both sensible and latent loads, with a treatment including dehumidification.

DESCRIPTION OF THE UNIT

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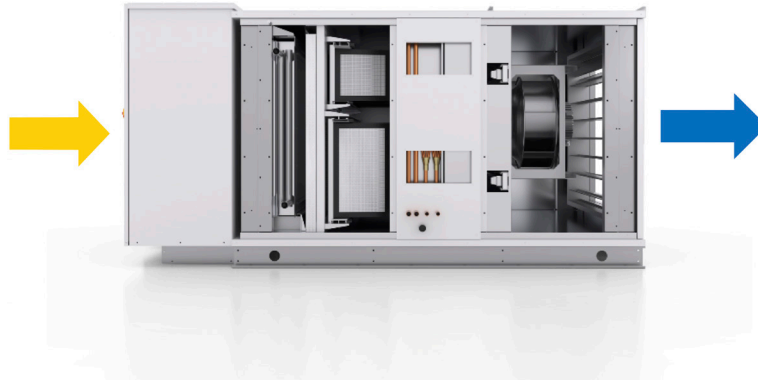
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3.5.1 AR - All Recirculation function

This represents the basic unit in the AIRME range.

The unit is designed for air recirculation only, taking in air from the rooms (yellow arrow) and delivering it back after conditioning through the direct expansion coil (blue arrow).

Air exhaust and fresh air intake must be managed using systems that are separate from the unit. A unit configured in this way is an ideal product for replacing obsolete units in existing installations that already have a dedicated air change system.



3.5.2 MF - Mixing and Free Cooling function

Compared to the basic version, this unit has two opposing motor-driven dampers managed by the unit's controller for operation with recirculated air only, mixtures and free cooling.

This function allows the recirculated air taken from the rooms (yellow arrow) to be mixed with some fresh air (red arrow), either at a fixed percentage set on the controller or, as an option, using an air quality probe (CO2 reading).

Free cooling is managed by the controller, which opens the dampers to create a mixture of fresh air and recirculated air requiring less energy to air-condition, based on the outside temperature, indoor temperature and set point. During this function one or more cooling devices are deactivated and are completely switched off with free cooling operation only.

The supply fans guarantee the design flow-rate; indoor air exhaust must be managed using systems that are separate from the unit.

This function is preferred when the amount of fresh air to be delivered into the rooms is low, and when the pressure drop in the intake ducts is not too high and the building is not very air tight (old buildings).



3.5.3 HR-P - Heat Recovery Plate function (return fan and plate heat recovery exchanger)

The HR-P function uses a plate heat exchanger for energy recovery between the fresh air intake and return air. The recuperator is included within the structure of the unit together with the supply and return EC plug fans and is placed upstream of the air handling coil.

Filtration is provided on the fresh air upstream of the recuperator itself, to ensure protection against excessive fouling.

This function is useful in new buildings with high air change requirements (such as cinemas, theatres, auditoriums, exhibition centres and shopping centres).

Thermodynamic principle: the flow of fresh air (red arrow) flows across a plate heat exchanger, where it is either heated or cooled by the flow of return air (yellow arrow). The two air flows remain completely separate, being in sealed sections between the aluminium plates. Heat is transferred due to the temperature difference between the two air flows. The efficiency of energy recovery increases the higher the temperature difference between the two air flows, making this solution particularly suitable in extreme climates.



Benefits:

- Complete separation between the two air flows (exhaust and fresh air), with no risk of contamination.
- High reliability and safe operation;
- Easy cleaning and minimum maintenance;
- Optimum performance in extreme climates;
- Extends unit operating limits;
- Suitable for operation with high outside air flow-rates;
- Aluminium heat exchanger to improve heat exchange;
- Low pressure drop ensured by the large heat exchange surfaces;
- Thanks to the by-pass damper, the return air bypasses the heat recuperator in free cooling operation, resulting in less power consumption by the corresponding fan.

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During **free cooling** operation, automatically activated according to the outside, room and set-point temperature and humidity, the unit's controller commands the progressive shutdown of all heating devices present, up to complete exclusion in the case of total free cooling. In this way, the heat and humidity conditions of the outside air are directly exploited to air condition the room, resulting in substantial energy and economic savings.

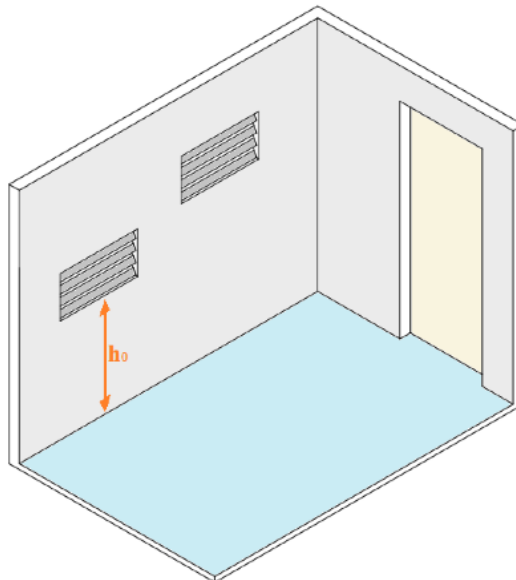
For this operating mode, the unit is equipped with bypass dampers on the plate heat recuperator in the return air flow, to avoid heat exchange with the fresh air inside the heat exchanger when this is not useful.

3.6 s-AIRME-G07 - Minimum installation area for R32 units

Using R32 refrigerant gas, classified as A2L (low flammability according to ISO 817), the unit must be selected according to the minimum surface area indicated in the tables below, considering that the unit itself cannot be considered as a safety element for the indoor environment and that the installer is fully responsible for its correct installation and for making safe the rooms served by the unit.

For installations that do not comply with the table, the area must be adapted in accordance with EN378-3 with regard to the chapters on additional safety systems and applicable local standards.

The minimum surface areas to be observed are given for each size, referring to the smallest room served by the unit at the installation site.



DESCRIPTION OF THE UNIT

Data Book

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s-AIRME 3000 AR/MF			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	306	306	306
1	110	110	110
1,8	34	34	34
2,2	23	23	23

s-AIRME 3000 HR-P			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	338	394	306
1	122	142	110
1,8	38	44	34
2,2	25	29	23

s-AIRME 5000 AR/MF			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	338	394	338
1	122	142	122
1,8	38	44	38
2,2	25	29	25

s-AIRME 5000 HR-P			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	338	338	338
1	122	122	142
1,8	38	38	44
2,2	25	25	29

s-AIRME 7500 AR/MF			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	394	338	394
1	142	122	142
1,8	44	38	44
2,2	29	25	29

s-AIRME 7500 HR-P			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	394	338	394
1	142	122	142
1,8	44	38	44
2,2	29	25	29

s-AIRME 10000 AR/MF			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	338	394	338
1	122	142	122
1,8	38	44	38
2,2	25	29	25

s-AIRME 10000 HR-P			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	394	338	394
1	142	122	142
1,8	44	38	44
2,2	29	25	29

s-AIRME 12500 AR/MF			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	394	338	338
1	142	122	122
1,8	44	38	38
2,2	29	25	25

s-AIRME 12500 HR-P			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	338	394	394
1	122	142	142
1,8	38	44	44
2,2	25	29	29

s-AIRME 15000 AR/MF			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	394	394	394
1	142	142	142
1,8	44	44	44
2,2	29	29	29

s-AIRME 15000 HR-P			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	394	338	394
1	142	122	142
1,8	44	38	44
2,2	29	25	29

s-AIRME 20000 AR/MF			
Height of the appliances's ports (<i>h₀</i> in EN 378-1, Annex C.2)	Amin [m ²] vers. C	Amin [m ²] vers. I	Amin [m ²] vers. B
0,6	394	394	394
1	142	142	142
1,8	44	44	44
2,2	29	29	29

Note:

The reference height “*h₀*” should be considered by taking the height from the floor to the lowest outlet in the room (see image).

The minimum areas indicated above are calculated according to EN378-1:2016, with reference to Chapter 5:

- Location classification: II
- Access category: a.

Where no minimum surface area is given (“-”), additional safety systems are required in accordance with EN378-3 and applicable local standards.

All the restrictions mentioned apply not only to new installations but also to relocations and layout changes. For specific situations other than those mentioned above, contact the office.

4 STANDARD CONFIGURATION AND ACCESSORIES AVAILABLE

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4.1 Standard configuration

The configuration of a standard unit in **AR** or **MF** configuration includes:

- 1061 - Unit compliant with 2018 ErP directive
- 2960 - Water connections on RH side
- A55A- Power supply 400V/3ph/50Hz
- 381 - Numbered electrical panel cables
- 4468 - Sandwich panels with polyurethane
- B861 - Supply prefilter ISO COARSE 55% (G4)
- 2521 - POCKET FILTERS ePM1 50% (F7)
- B650 - Supply temperature control
- B502 - Available static supply pressure STD
- 1862 - Constant flow-rate
- 970 - Standard internal coil Cu/Al
- 9971 - In view packaging

HR-P version standard units include:

- 1061 - Unit compliant with 2018 ErP directive
- 2960 - Water connections on RH side
- A55A- Power supply 400V/3ph/50Hz
- 381 - Numbered electrical panel cables
- 4468 - Sandwich panels with polyurethane
- B861 - Supply prefilter ISO COARSE 55% (G4)
- 2521 - POCKET FILTERS ePM1 50% (F7)
- B871 - Return prefilter ISO COARSE 55% (G4)
- B650 - Supply temperature control
- B502 - Available static supply pressure STD
- B512 - Available static return pressure STD
- 1862 - Constant flow-rate
- 970 - Standard internal coil Cu/Al
- 9971 - In view packaging

4.2 Accessories available

CODE	ACCESSORY NAME	DESCRIPTION	BENEFITS
B485	Electrical panel supplied	Choice of electrical panel supplied disassembled from the unit and shipped with it. For the 15,000 and 20,000 sizes of the AR and MF versions and the 12,500 and 15,000 sizes of the HR-P version, the electrical panel is supplied disassembled as standard.	Allows greater configuration versatility, facilitating installation on site.
2960 ÷ 2963	Water connection configuration	Choice of pipe connection side, valid for both the direct expansion coil and other optional water coils.	Allows greater configuration versatility, facilitating installation on site.
383	Numbered cables plus colouring for UK	In addition to supplying numbered cables for the electrical panels, these are supplied in colours according to the UK standard.	

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B841	Public application safety package	<p>The package includes some accessories to detect smoke inside the unit, compliant with the French ERP regulation.</p> <p>The accessories included are:</p> <ul style="list-style-type: none"> - D.A.D. (NF S 61961 certified); - Smoke detector (NF S 61961 certified); - smoke alarm management according to ERP standard; - Spring-loaded dampers (if envisaged by the unit's chosen function); - If there are electric heaters, they will be equipped with an automatic reset thermostat set at 90°C and a manual reset thermostat set at 120°C. 	Necessary in order to meet the specifications required by the ERP regulation (établissements recevant du public).
B833	Metal supply and return fans	<p>The standard fans on the units have metal blades and plastic nozzles. With this option, there is a choice of fans with all-metal impellers, including the blades and nozzle.</p>	Necessary in order to meet the specifications required by the ERP regulation (établissements recevant du public).
4468 ÷ 4486A	Air handling section panelling	<p>Self-supporting sandwich panels available with insulation in polyurethane foam (density 45 kg/m³) or mineral wool (density 90 kg/m³).</p>	Both solutions give the structure excellent mechanical resistance and the mineral wool thermal insulation is also class A1 reaction to fire according to EN13501-1.
B851	PCO purification system	<p>Active purification system with photocatalytic oxidation.</p> <p>It is a purification system that allows a process of photocatalytic oxidation thanks to the combination of a special UV lamp and a honeycomb catalyst structure made of titanium dioxide (TiO₂).</p>	The process generates hydroxyl radicals (-OH) and hydrogen peroxide (H ₂ O ₂) in quantities of no more than 0.02 PPM, which, when released into the air flow, enable a very effective reduction of microbial load (such as bacteria, moulds, allergens, odours, organic and volatile compounds, and ultra-fine dust).
B861 ÷ B864	Air supply prefilters	<p>A 55% ISO coarse class filter (ISO 16890 - G4 according to EN779) is provided in the standard units. Prefilters of different efficiencies are available (M6 and F7 in accordance with EN779).</p>	It guarantees a pre-filtering of the air in order to reduce fouling of the main filter and the remaining components.

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2521 ÷ 2521C	High efficiency pocket filters	In addition to the standard prefilters, rigid pocket filters with different efficiencies are also available: ePM01 50% (ISO 16890, F7 in accordance with EN 779), ePM01 70% (ISO 16890, F8 in accordance with EN 779), ePM01 80% (ISO 16890, F9 in accordance with EN779), with Class 1 resistance to fire. Easy access from the outside thanks to the large inspection panels and sliding on steel grills to allow simple removal for cleaning or replacement.	Housed at the inlet of the air handling coil, they guarantee fine filtration of the air actually delivered into the room.
2524	Electronic filters	These are housed at the inlet of the air handling coil and are intended to replace the high-efficiency mechanical pocket filters. The electrostatic precipitation process forming the basis of the operating principle consists of three key stages: transfer of an electric charge to the particles suspended in the air, capture of the particles and removal of the captured particles. The particles are charged by means of a discharge ionisation device.	For use in applications that require high filtering efficiency (efficiencies of 99%) to remove dust particles in the micrometre range, combined with low pressure drops resulting in savings in fan power. Electrostatic filters are designed for a very long working life and have very low maintenance requirements, except for periodic cleaning which is automatically signalled by the filter itself. Use of these filters also reduces pathogens that are harmful to health. High efficiency combined with a long working life means that the initial cost of the investment is offset by the much reduced management and maintenance costs.
2529	Activated carbon filters	In addition to the standard prefilters, rigid pocket filters with ePM01 50% efficiency (ISO 16890, F7 according to EN 779) with activated carbon for deodorising action are also available.	Housed at the inlet of the air handling coil, they guarantee not only fine filtration of the air actually delivered into the room, but also guarantee complete deodorisation.
A911	Absolute filters	In addition to the high-efficiency pocket filters, an additional module with a HEPA class H14 absolute filter with small pleats, consisting of a galvanised steel frame and glass fibre paper filter media, can also be selected.	Downstream of the air handling section, these filters ensure extremely fine filtration of the air delivered into the room. Suitable for healthcare applications.
B871 ÷ B874	Return air prefilters	A 55% ISO coarse class filter (ISO 16890 - G4 according to EN779) is provided in the standard units. Prefilters of different efficiencies are available (M6 and F7 in accordance with EN779).	It guarantees pre-filtering of the air in order to reduce fouling of the main filter and the remaining components.

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C031	M1 filters according to EN 13501	Filters with class M1 reaction to fire according to EN 13501 can also be mounted in the unit.	Necessary in order to meet the specifications required by the ERP regulation (établissements recevant du public).
B650 ÷ B651	Supply/return control	The unit modulates the devices according to the probes positioned in either the supply or return of the unit.	The temperature/humidity set point to be set can therefore be for either the supply or return according to the configured option.
B503 ÷ B504	Supply fan management	There is a choice of 2 types of supply fan motor, MM1 or MM2.	They increase the available static pressure at the supply fan opening.
B513 ÷ B514	Return fan management	There is a choice of 2 types of return fan motors, MM1 or MM2.	They increase the available static pressure at the supply fan opening.
1862	Constant air-flow regulation	Fan speed is controlled in order to maintain a constant flow-rate.	The unit is able to maintain the flow-rate value processed by the fans constant, even as the filters become progressively fouled.
1863	Constant pressure regulation	Fan speed is controlled in order to maintain constant available static pressure in the system.	Fan speed is controlled in such a way as to maintain a constant available static pressure in the system's air distribution plenum. This is useful for variable air volume (VAV) air distribution systems.
971	Copper/copper indoor coil	Indoor air handling coil with copper pipes and fins. Caution: this accessory applies to the air handling coil only. Contact the office if you want to apply this accessory to other optional coils (e.g. reheating coil).	It provides good corrosion resistance.
974	Indoor coil with "Fin Guard Silver" treatment	Indoor air handling coil with epoxy treatment. Caution: this accessory applies to the air handling coil only. Contact the office if you want to apply this accessory to other optional coils (e.g. reheating coil).	It provides excellent corrosion resistance in very aggressive environments or marine atmospheres.
975	Indoor coil with pre-coated fins	Indoor air handling coil with painted surface. Caution: this accessory applies to the air handling coil only. Contact the office if you want to apply this accessory to other optional coils (e.g. reheating coil).	It provides resistance in environments with medium levels of air pollution.

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976	Indoor coil with "Electrofin" treatment	The indoor coil is given an electro-deposition coating by total immersion at the factory. Caution: this accessory applies to the air handling coil only. Contact the office if you want to apply this accessory to other optional coils (e.g. reheating coil).	It provides excellent corrosion resistance in very aggressive environments or marine atmospheres.
4181	MODBUS protocol board	Serial interface board.	Integration into supervisory systems using MODBUS protocol.
4184	BACNET MS/TP RS485 board	Serial interface board.	Integration into supervisory systems using BACNET protocol.
4185	BACNET OVER IP board	Serial interface board.	Integration into supervisory systems using BACNET protocol connected via IP networks.
4188	MOD-BUS TCP/IP serial board	Serial interface board.	Integration into supervisory systems using MODBUS protocol connected via IP networks (MODBUS OVER IP).
1441	KIPLink	KIPLink is the innovative user interface based on WiFi technology, which also allows the unit to be reached via LAN.	Real-time control of the unit is possible via the MEHITS app, within WiFi range or via the building's LAN.
B901	Display Air3000 Touch+	It is an additional display for controlling the unit supplied, for installation in the air conditioned area.	It shows all the functions available on the display fitted on the unit, plus: - It can be installed in the room; - 4.3" colour touch screen display - Temperature and humidity probes - User friendly; - It can be installed in a public space, as the menu is protected by a password; - Display language can be changed.
5924	Mains analyser for BMS	The option requires installation of the following devices on the unit: - mains analyser with display and MODBUS interface over RS485 (without MID certification); - current transformers.	This accessory makes it possible to gather data on the unit's energy consumption, it shows this data on the display and communicates it via RS485 serial bus to the BMS for energy measurement.

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B531	Electrical preheating coil	Electric heater positioned before the air handling coil.	The electric heater can be provided to supplement winter operation of the unit. It can also be activated during defrost cycles.
B532	Water preheating coil	Water heating coil positioned before the air handling coil.	The coil can be used as a heating device to supplement winter operation of the unit. Frost protection function via 3-way valve opening.
1331	Water reheating coil	Water heating coil positioned after the air handling coil.	The coil can be used as a heating device to supplement winter operation of the unit or to provide reheating after dehumidification during summer operation (B-OU version only). It can also be activated during defrost cycles.
1333	Electrical reheating coil	Electric heater positioned after the air handling coil.	The electric heater can be provided to supplement winter operation of the unit or to provide reheating after dehumidification during summer operation (B-OU version only). It can also be activated during defrost cycles.
C010	Silencer	Silencer consisting of sound-absorbing baffles made from 90 kg/m ³ rock wool 200 mm thick (100 mm for the first and last baffle, attached to the inner walls of the air handling unit) with air passages of 100±10 mm. Installed in the supply flow.	They reduce noise in ventilation systems.
B941	ON/OFF signal for humidifier control	The unit provides a digital signal to the outside to operate a humidifier, thanks to the reading from the humidity probe positioned on the return.	Increases ambient humidity. Only works in heating mode. Contact the office for special configurations.
P051	Dehumidification function	With a humidity probe positioned on the return, this function allows the air to be dehumidified during cooling operation, reducing excess humidity in the rooms.	Enthalpy control to bring the ambient humidity within the set point values. A heating device is recommended for the reheating in order to adjust the intake temperature during the dehumidification stages.

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A511	Smoke sensor	Smoke sensor that forces the unit to switch off when smoke is detected. Option not available if already fitted with opt. "B841 Public application safety package".	Safety device that, in the event smoke is detected, prevents air from entering the room served, which could feed a potential fire.
B594	Humidifier	The unit provides a signal to operate a humidifier supplied with the unit, thanks to the reading from the humidity probe positioned on the return.	Increases ambient humidity. Only works in heating mode. Contact the office for special configurations.
B601	3 damper mixing chamber	The unit is supplied with a 3 damper mixing chamber module, motorised and controlled by the controller, positioned upstream of the unit near the fresh air intake and exhaust. Only available for the HR-P version unit.	Allows the flow of air fresh air to be regulated with air taken from the room, with either a fixed percentage set on the controller or using a CO2 air quality probe (optional).
B541	One-piece unit protective roof	Aluminium protective roof for outdoor installation.	The roof gives the unit solid protection from weather (rain, hail, etc.)
C021	Safety dampers	Class 4 dampers (in accordance with EN 751) on the air supply and air return which isolate the rooms served in the event of a leak of refrigerant gas. The outlet damper is equipped with a counter-rotating blade (paragraph 3.1.8).	This accessory makes it possible to keep the unit in communication with the outdoors at all times, ensuring that any leak of refrigerant can be evacuated.
B551	Fresh air intake damper	100 mm pitch damper, with aluminium frame and blades, double gasket on blades and an additional gasket on the side edges.	It guarantees a high level of tightness against air leaks with the damper closed, making it possible to achieve class 2 according to EN 1751.
B561	Supply damper	100 mm pitch damper, with aluminium frame and blades, double gasket on blades and an additional gasket on the side edges.	It guarantees a high level of tightness against air leaks with the damper closed, making it possible to achieve class 2 according to EN 1751.
B571	Return damper	100 mm pitch damper, with aluminium frame and blades, double gasket on blades and an additional gasket on the side edges.	It guarantees a high level of tightness against air leaks with the damper closed, making it possible to achieve class 2 according to EN 1751.
B581	Exhaust damper	100 mm pitch damper, with aluminium frame and blades, double gasket on blades and an additional gasket on the side edges.	It guarantees a high level of tightness against air leaks with the damper closed, making it possible to achieve class 2 according to EN 1751.

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B931	Night purge	Function allowing free cooling to be forced at night.	Makes it possible to take advantage of favourable night-time outside air conditions, delaying activation of auxiliary air conditioning systems and thus achieving an overall system saving.
B631	Two speed system	Function dividing unit operation in 2 airflow levels, maximum or minimum, to be activated by an external signal..	Allows the unit to operate at maximum airflow according to specific requirements (e.g. high ppm CO2), working at the minimum airflow in the other cases and reducing the overall unit consumption.
3591	Fan operating signal	Auxiliary contactors providing a voltage-free contact.	Remote signalling of activation of unit fans and control of any auxiliary loads present.
B611	Variable air flow CO2 probe	Probe for managing air quality inside the rooms. The signal processed by the controller enables the air flow-rate to be progressively modulated, increasing or decreasing it in relation to the ppm of CO2 measured by the return probe. This option can only be chosen if option 1865 was previously configured.	Automatic management of air flow makes it possible to obtain the exact flow-rate necessary for the occupants' comfort, guaranteeing both compliance with regulations and a reduction in the unit's overall consumption.
B613	CO2 probe for 2 damper mixing chamber	Probe for managing air quality inside the rooms. The signal is processed by the controller to adjust the flow of fresh air (opening of fresh air intake damper).	Automatic management of the fresh air flow-rate allows fresh air to be treated only when needed, guaranteeing compliance with relevant standards and occupant comfort.
B621	Grill + netting for fresh air intake	Aluminium protection grill positioned on the fresh air intake.	Prevents the introduction of external elements (e.g. leaves, birds) into the unit.
3422	Electrical panel lighting + socket	Installation of LED lights and a 230V CEE 7/3 socket (Schuko) on the electrical panel. The maximum available capacity is 500VA.	Internal lighting simplifies maintenance operations and work on the electrical panel, the socket can be used to power small electrical/electronic devices (lights, notebooks, tablets, etc.). Not compatible with option B841.
9970	Type of packaging	As standard, the unit is supplied without packaging. Nylon packaging or packaging for containers (nylon + slides) is available as an option.	

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4.3 Opt. 1441: KIPlink - Air3000 link+

Based on WiFi technology, KIPlink allows the user to operate the unit directly from their mobile device (smartphone, tablet, notebook) via the MEHITS app.

It allows the user to monitor each component, to display and change all the parameters, with user-friendly screens with command descriptions for 'help' messages to reset alarms and troubleshooting.

It monitors the parameters of the refrigerant circuit, the status of the air dampers, any CO2 probes, etc., and displays graphics of the main operating variables in real time.

It also has a data logger function, which allows the user to:

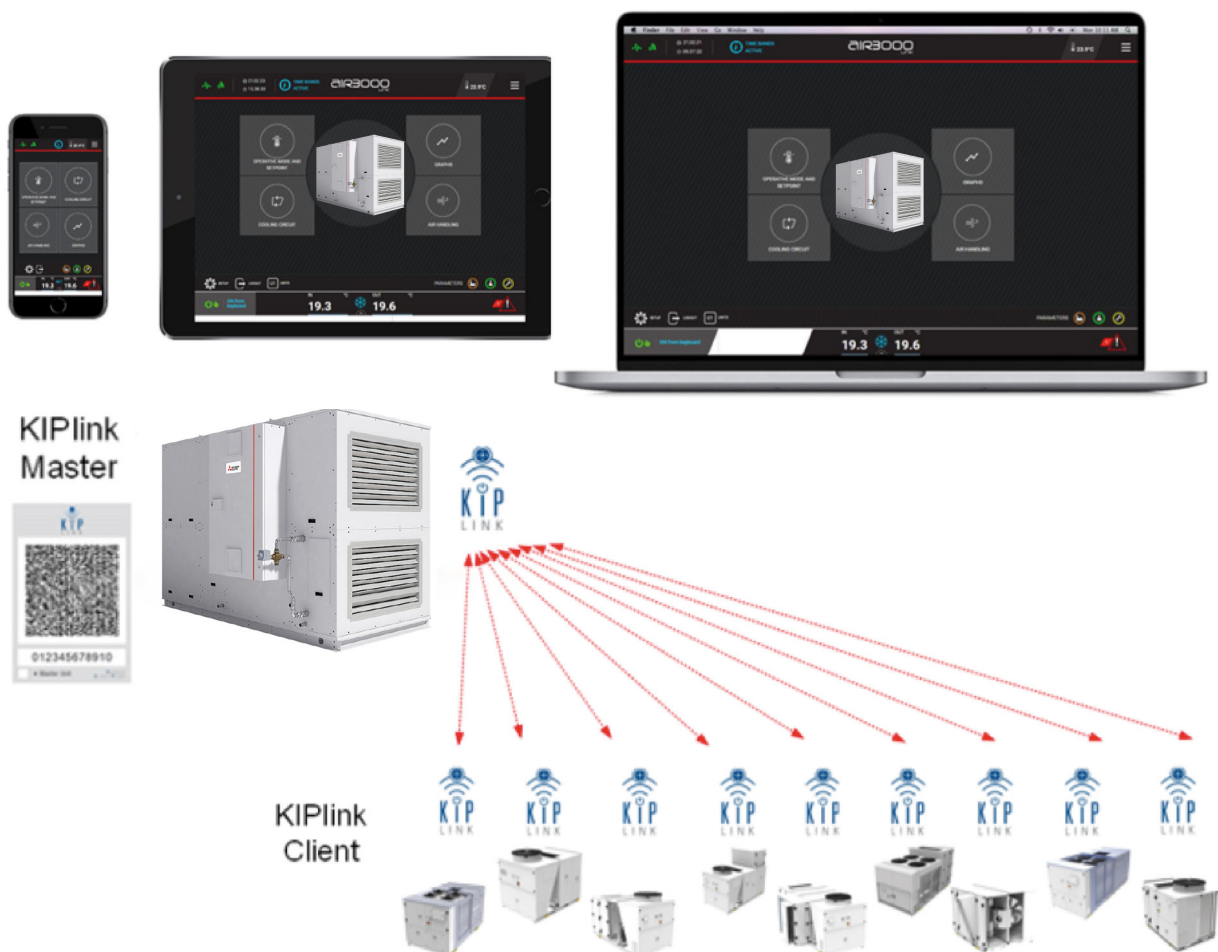
- View graphics of the main operating variables in real time;
- Improve diagnostics with data and graphics from 10 minutes before and after each alarm;
- Download all the data for detailed analysis.

It is also possible to connect the KIPlink hardware, via its ethernet port, to the building's LAN, so that the unit can be monitored from a LAN device (such as a PC, laptop or mobile phone) with a simple web browser connected to the IP address of the KIPlink.

KIPlink is also an **authentic supervisory system**.

In a system with several units (maximum 10), the information on each of them can be displayed and overwritten through access to just one machine, recognised as group master.

In addition, the KIPlink interface enables connection to BEYELink, a single supervisory system entirely developed by MEHITS which, from a single touch panel, allows the parameters of both MEHITS units and MELCO units to be displayed and overwritten, integrating all the information from AE200, post AE200 and EW50.



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4.4 Opt. B901: Display Air3000 Touch+

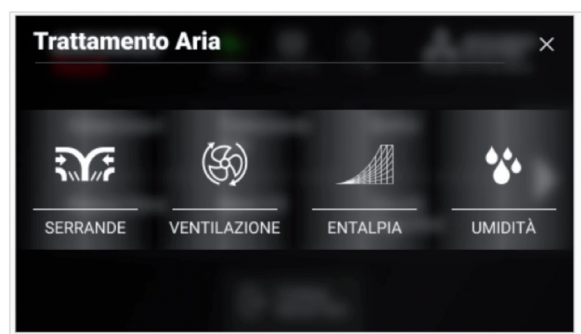
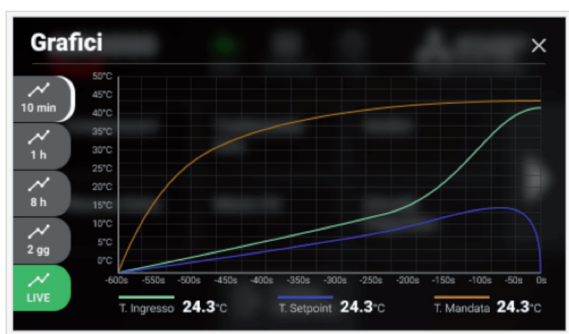
It is an additional display for controlling the air handling unit and is installed directly in the air conditioned area. It shows all the functions that are already available in the display fitted on the machine, plus:

- it can be installed directly in the air conditioned area;
- 4.3" touch screen display;
- equipped with temperature and humidity probes;
- user friendly;
- can also be installed in a public space, thanks to the possibility of entering a password to lock the menu;
- multi-language menu.

Air3000touch+ is connected to the unit via an AWG 20-22 cable (maximum distance 500m) and is supplied together with the unit itself.

The 230VDC 24VAC power supply is included (maximum distance between the power supply and display is 300m).

Two installations are possible - flush-mounted or surface-mounted - and both boxes are supplied.



4.5 Opt. B851: PCO purification system

This is a purification system that triggers a process of photocatalytic oxidation (PCO), thanks to the combination of:

- UV-C rays;
- Honeycomb catalytic structure made of titanium dioxide (TiO₂);
- Water vapour contained in the conditioned air flow (relative humidity above 20%).

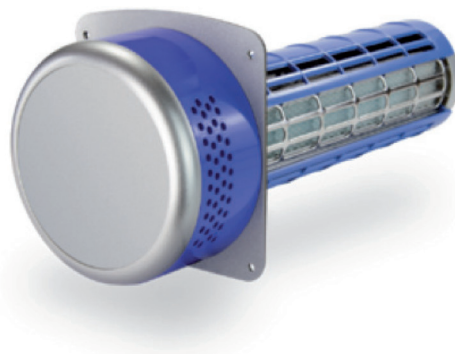
The process generates -OH ions and **hydrogen peroxide** (H₂O₂) which, when released into the conditioned air flow, purify the air of bacteria, viruses, moulds, odours and organic volatile compounds.

In addition, the ions generated are transported by the air flow itself and sanitise the surfaces with which they come into contact. This is why the technology is also referred to as an **active purification** system.

There are many advantages to photocatalytic oxidation lamps:

- Significant reduction of bacterial loads contained in the air flow and deposited on the surfaces with which they come into contact;
- Continuous purification;
- Odour reduction;
- High capacities (up to 4,000 m³/h per lamp);
- Halved maintenance compared to traditional UV- C lamps: considering a continuous operation, the replacement of the UV- C modules is required every 2 years;
- Overall improvement in air quality.

American university laboratories have demonstrated how photocatalytic oxidation is truly effective in eliminating the bacterial load in a given space: by recirculating and purifying the same air for a duration of 24 hours, it was seen that the bacterial load is reduced overall by 99%, regardless of the type of bacteria.



**Higher
hygiene**



**Reduced
contamination**



**Reduced
maintenance**



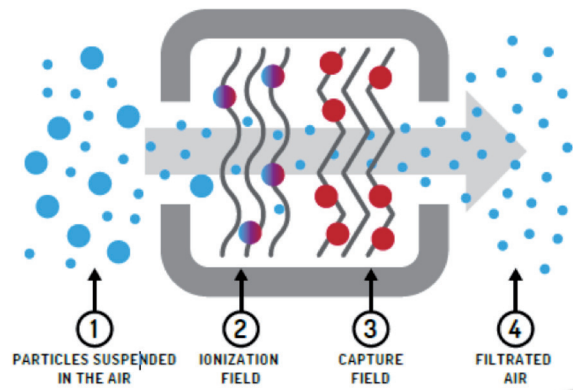
**Better air
quality
(IAQ)**

4.6 Opt. 2524: Electronic filters

Electrostatic filter technology is based on the **electrostatic precipitation** process.

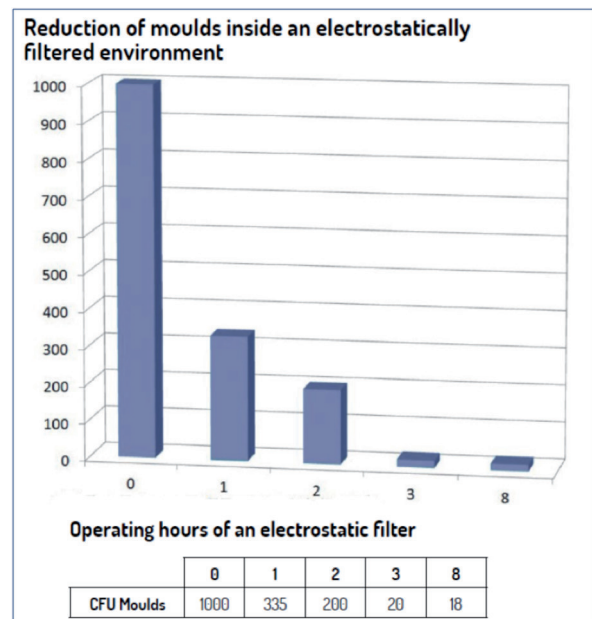
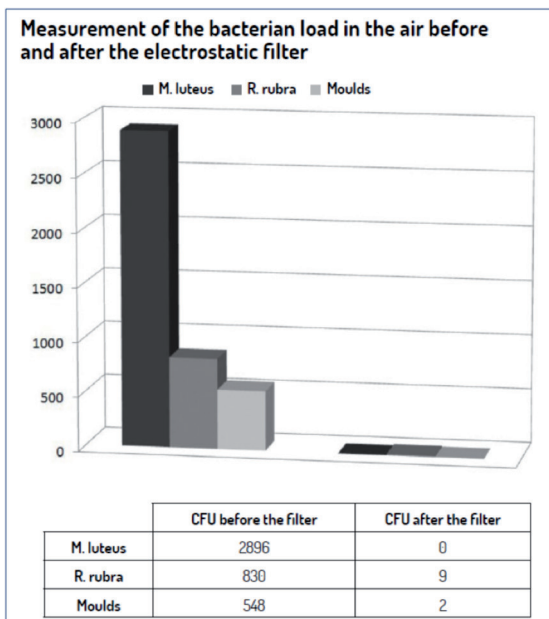
By passing through the filter, the air flow is subject to 2 treatments:

1. Passing through a high-voltage electric field ionises the air flow, with a negative charge, including particulate matter and contained impurities;
2. Then it passes through a "capture field" consisting of positively charged metal plates, which attract the impurities contained in the flow.



QWhen the filter is not active, the particles remain trapped in the capture plates.

Numerous tests have been conducted on this technology, which has proven to be particularly effective both after a single pass through the filter and when a volume of air is air-conditioned over a fixed period of time:





Once the filter is saturated, it just needs to be regenerated by washing the plates with water and an alkaline detergent. This phase is completely safe in comfort applications since, when the air flow contacts the capture plates, any bacteria or micro-organisms are immediately destroyed and are not therefore released, which could happen in the case of traditional pocket filters.

4.7 Remote keypad



The unit's display is located on the electrical panel door and is connected directly to the Air3000 + controller. The unit can also be connected to a remote keypad, choosing between different configurations:

- Code C9261063. Remote keypad kit up to 200 m (K200), being the distance between the last unit and the remote keypad. The kit includes a second keypad/display and two T-junction boards: one to be fitted near the controller, the other near the remote keypad. The maximum length possible is 200 m.
- Code C9261064. Remote keypad kit up to 500 m (K500), being the distance between the last unit and the remote keypad. The kit includes a second keypad/display and two T-junction boards: one to be fitted near the first controller in the LAN, the other near the remote keypad. The kit also includes an AC/DC power supply for the remote keypad, to be placed near the keypad. The maximum length possible is 500 m.

The same remote keypad can display up to 8 units, exploiting the LAN connection.

After having correctly completed the connections, the remote keypad can switch from interfacing to one unit to the next, following the procedure shown in the user manual.

5 GENERAL TECHNICAL SPECIFICATIONS

Data Book
DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / AR / C									
SIZE			3000	5000	7500	10000	12500	15000	20000
Cooling operation									
w-AIRME									
Cooling capacity	(1)	kW	9,74	22,40	24,00	42,90	44,60	49,90	71,20
Sensible capacity	(1)	kW	8,97	18,90	22,10	36,70	40,60	45,30	64,90
Water flow	(1)	m³/h	1,67	3,85	4,12	7,37	7,68	8,58	12,20
Water flow pressure drops	(1)	kPa	5,66	9,81	7,97	9,85	8,25	9,54	8,28
s-AIRME-G07 (Internal + outdoor unit)									
Cooling capacity	(1)	kW	10,00	20,10	25,00	40,70	45,00	50,00	75,20
Sensible capacity	(1)	kW	8,76	15,10	18,10	30,40	32,70	35,50	55,80
Total power consumption	(1)	kW	3,72	6,73	6,47	11,90	12,50	13,30	18,90
EER	(1)	-	2,70	2,98	3,86	3,42	3,62	3,77	3,97
Heating operation									
w-AIRME									
Heating capacity	(2)	kW	13,10	27,60	31,60	53,00	59,80	65,40	95,30
Water flow	(2)	m³/h	2,25	4,75	5,44	9,12	10,30	11,30	16,40
Water flow pressure drops	(2)	kPa	7,69	11,40	10,50	11,50	11,10	12,40	11,10
s-AIRME-G07 (Internal + outdoor unit)									
Potenza termica	(2)	kW	11,20	22,40	26,90	44,80	49,40	53,80	81,00
Potenza assorbita totale	(2)	kW	3,74	6,48	6,07	11,50	11,60	12,20	17,50
COP	(2)	-	3,00	3,46	4,42	3,89	4,27	4,40	4,62
Supply fans									
Type		-	Radial fan (Plug fan) - EC motor with built-in controller						
Number		n°	1	1	1	1	1	1	2
Supply airflow		m³/h	3000	5000	7500	10000	12500	15000	20000
External static pressure	(3)	Pa	300	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units									
Size			ZM 100	ZM 200	ZM 250	ZM 200	ZM 200 + ZM 250	ZM 250	ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	1	1	1	2	2	2	3
No. Circuits per unit		n°	1	1	1	1	1	1	1
Sound power (internal unit)									
Supply fans	(4)	dB(A)	78	87	73	75	78	81	79
Weight and dimension (internal unit)									
Length	(5)	mm	2435	2435	2435	2535	2535	2535	2535
Width	(5)	mm	1025	1425	1525	1825	2025	2225	2525
Height	(5)	mm	965	965	1180	1235	1320	1430	1510
Standard unit operating weight	(5)	kg	310	410	460	490	650	730	840

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 0% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 0% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / AR / I									
SIZE			3000	5000	7500	10000	12500	15000	20000
Cooling operation									
w-AIRME									
Cooling capacity	(1)	kW	15,40	27,30	36,40	46,90	60,30	67,50	96,10
Sensible capacity	(1)	kW	12,50	21,60	30,20	39,50	50,20	56,70	80,10
Water flow	(1)	m ³ /h	2,65	4,70	6,26	8,06	10,40	11,60	16,50
Water flow pressure drops	(1)	kPa	9,52	9,11	8,15	8,32	8,56	9,28	8,50
s-AIRME-G07 (Internal + outdoor unit)									
Cooling capacity	(1)	kW	14,00	25,10	40,30	50,20	60,10	75,10	100,00
Sensible capacity	(1)	kW	9,66	16,00	27,30	33,60	43,50	48,60	66,50
Total power consumption	(1)	kW	3,60	6,75	10,60	12,00	17,60	18,40	24,20
EER	(1)	-	3,90	3,72	3,79	4,16	3,41	4,08	4,13
Heating operation									
w-AIRME									
Heating capacity	(2)	kW	18,50	31,70	44,60	58,90	74,40	82,80	119,00
Water flow	(2)	m ³ /h	3,18	5,46	7,68	10,10	12,80	14,20	20,50
Water flow pressure drops	(2)	kPa	10,50	9,52	9,37	10,00	9,95	10,70	9,96
s-AIRME-G07 (Internal + outdoor unit)									
Potenza termica	(2)	kW	16,10	27,00	44,80	54,00	67,20	80,80	108,00
Potenza assorbita totale	(2)	kW	3,66	6,18	11,20	11,50	16,40	21,80	25,30
COP	(2)	-	4,41	4,38	4,02	4,69	4,09	3,71	4,27
Supply fans									
Type		-	Radial fan (Plug fan) - EC motor with built-in controller						
Number		n°	1	1	1	1	1	1	2
Supply airflow		m ³ /h	3000	5000	7500	10000	12500	15000	20000
External static pressure	(3)	Pa	300	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units									
Size			ZM 140	ZM 250	ZM 200	ZM 250	ZM 200	ZM 250	ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	1	1	2	2	3	3	4
No. Circuits per unit		n°	1	1	1	1	1	1	1
Sound power (internal unit)									
Supply fans	(4)	dB(A)	78	88	73	76	78	81	79
Weight and dimension (internal unit)									
Length	(5)	mm	2435	2435	2435	2535	2535	2535	2535
Width	(5)	mm	1025	1425	1525	1825	2025	2225	2525
Height	(5)	mm	965	965	1180	1235	1320	1430	1510
Standard unit operating weight	(5)	kg	315	420	470	500	660	760	870

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 0% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 0% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / AR / B									
SIZE			3000	5000	7500	10000	12500	15000	20000
Cooling operation									
w-AIRME									
Cooling capacity	(1)	kW	18,60	31,90	47,30	57,40	73,70	91,50	125,00
Sensible capacity	(1)	kW	14,10	23,80	35,50	44,90	57,00	69,70	93,90
Water flow	(1)	m ³ /h	3,20	5,49	8,14	9,88	12,70	15,70	21,40
Water flow pressure drops	(1)	kPa	10,20	10,60	10,20	9,08	9,13	9,55	10,20
s-AIRME-G07 (Internal + outdoor unit)									
Cooling capacity	(1)	kW	20,10	34,00	50,10	60,10	80,10	100,00	125,00
Sensible capacity	(1)	kW	14,10	21,60	29,40	40,50	53,70	58,60	75,20
Total power consumption	(1)	kW	6,64	9,72	11,60	17,10	22,70	28,30	35,60
EER	(1)	-	3,03	3,50	4,30	3,51	3,52	3,54	3,51
Heating operation									
w-AIRME									
Heating capacity	(2)	kW	20,80	34,80	52,00	66,00	84,70	102,00	136,00
Water flow	(2)	m ³ /h	3,59	5,98	8,94	11,40	14,60	17,60	23,50
Water flow pressure drops	(2)	kPa	9,95	9,91	9,62	9,31	9,37	9,31	9,54
s-AIRME-G07 (Internal + outdoor unit)									
Potenza termica	(2)	kW	22,40	38,40	54,10	67,20	89,60	108,00	135,00
Potenza assorbita totale	(2)	kW	7,48	9,75	12,40	16,40	22,30	26,10	32,20
COP	(2)	-	3,00	3,94	4,37	4,10	4,03	4,14	4,19
Supply fans									
Type		-	Radial fan (Plug fan) - EC motor with built-in controller						
Number		n°	1	1	1	1	1	1	2
Supply airflow		m ³ /h	3000	5000	7500	10000	12500	15000	20000
External static pressure	(3)	Pa	300	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units									
Size			ZM 100	ZM 200 + ZM 140	ZM 250	ZM 200	ZM 200	ZM 250	ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	2	2	2	3	4	4	5
No. Circuits per unit		n°	1	1	1	1	1	1	1
Sound power (internal unit)									
Supply fans	(4)	dB(A)	79	88	74	76	78	81	79
Weight and dimension (internal unit)									
Length	(5)	mm	2435	2435	2435	2535	2535	2535	2535
Width	(5)	mm	1025	1425	1525	1825	2025	2225	2525
Height	(5)	mm	965	965	1180	1235	1320	1430	1510
Standard unit operating weight	(5)	kg	320	430	480	510	670	790	890

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 0% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 0% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / MF / C									
SIZE			3000	5000	7500	10000	12500	15000	20000
Cooling operation									
w-AIRME									
Cooling capacity	(1)	kW	19,40	44,40	47,10	84,50	88,20	98,30	140,00
Sensible capacity	(1)	kW	12,50	26,20	30,50	50,80	56,40	62,50	89,70
Water flow	(1)	m³/h	3,34	7,63	8,11	14,50	15,20	16,90	24,00
Water flow pressure drops	(1)	kPa	19,40	33,10	26,60	32,90	27,70	31,90	27,50
s-AIRME-G07 (Internal + outdoor unit)									
Cooling capacity	(1)	kW	12,10	24,00	29,50	48,50	53,50	59,00	87,70
Sensible capacity	(1)	kW	9,93	17,20	20,90	34,60	37,50	41,10	64,60
Total power consumption	(1)	kW	3,77	6,76	6,49	12,00	12,50	13,30	19,00
EER	(1)	-	3,21	3,55	4,54	4,05	4,27	4,43	4,62
Heating operation									
w-AIRME									
Heating capacity	(2)	kW	21,10	44,30	52,00	86,30	96,30	106,00	154,00
Water flow	(2)	m³/h	3,63	7,62	8,94	14,80	16,60	18,20	26,50
Water flow pressure drops	(2)	kPa	18,00	26,40	25,30	27,40	25,90	29,00	26,20
s-AIRME-G07 (Internal + outdoor unit)									
Potenza termica	(2)	kW	11,50	23,00	27,60	45,90	50,60	55,30	83,30
Potenza assorbita totale	(2)	kW	3,09	5,37	4,92	9,28	9,40	9,95	14,10
COP	(2)	-	3,71	4,27	5,61	4,94	5,38	5,56	5,92
Supply fans									
Type		-	Radial fan (Plug fan) - EC motor with built-in controller						
Number		n°	1	1	1	1	1	1	2
Supply airflow		m³/h	3000	5000	7500	10000	12500	15000	20000
External static pressure	(3)	Pa	300	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units									
Size			ZM 100	ZM 200	ZM 250	ZM 200	ZM 200 + ZM 250	ZM 250	ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	1	1	1	2	2	2	3
No. Circuits per unit		n°	1	1	1	1	1	1	1
Sound power (internal unit)									
Supply fans	(4)	dB(A)	78	87	73	75	78	81	79
Weight and dimension (internal unit)									
Length	(5)	mm	2510	2510	2510	2610	2610	2610	2610
Width	(5)	mm	1025	1425	1525	1825	2025	2225	2525
Height	(5)	mm	965	965	1180	1235	1320	1430	1510
Standard unit operating weight	(5)	kg	340	440	500	530	700	790	900

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 100% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 100% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / MF / I									
SIZE			3000	5000	7500	10000	12500	15000	20000
Cooling operation									
w-AIRME									
Cooling capacity	(1)	kW	31,00	54,30	73,10	93,40	120,00	135,00	192,00
Sensible capacity	(1)	kW	17,50	30,10	42,20	55,10	70,20	79,10	112,00
Water flow	(1)	m ³ /h	5,32	9,34	12,60	16,10	20,70	23,20	33,00
Water flow pressure drops	(1)	kPa	32,90	31,00	28,20	28,40	29,30	31,70	29,20
s-AIRME-G07 (Internal + outdoor unit)									
Cooling capacity	(1)	kW	16,80	29,90	48,90	59,30	72,40	89,00	118,00
Sensible capacity	(1)	kW	11,00	18,30	31,00	38,50	49,40	55,50	76,10
Total power consumption	(1)	kW	3,62	6,77	10,70	12,10	17,70	18,40	24,30
EER	(1)	-	4,64	4,42	4,57	4,91	4,09	4,83	4,87
Heating operation									
w-AIRME									
Heating capacity	(2)	kW	29,70	50,00	72,40	93,40	120,00	133,00	191,00
Water flow	(2)	m ³ /h	5,11	8,60	12,50	16,10	20,60	22,90	32,90
Water flow pressure drops	(2)	kPa	24,50	21,40	22,20	22,70	23,30	24,90	23,20
s-AIRME-G07 (Internal + outdoor unit)									
Potenza termica	(2)	kW	16,50	27,70	45,90	55,50	68,90	82,90	111,00
Potenza assorbita totale	(2)	kW	2,99	5,10	8,93	9,11	13,10	17,30	19,90
COP	(2)	-	5,53	5,44	5,13	6,09	5,24	4,8	5,56
Supply fans									
Type		-	Radial fan (Plug fan) - EC motor with built-in controller						
Number		n°	1	1	1	1	1	1	2
Supply airflow		m ³ /h	3000	5000	7500	10000	12500	15000	20000
External static pressure	(3)	Pa	300	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units									
Size			ZM 140	ZM 250	ZM 200	ZM 250	ZM 200	ZM 250	ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	1	1	2	2	3	3	4
No. Circuits per unit		n°	1	1	1	1	1	1	1
Sound power (internal unit)									
Supply fans	(4)	dB(A)	78	88	73	76	78	81	79
Weight and dimension (internal unit)									
Lenght	(5)	mm	2510	2510	2510	2610	2610	2610	2610
Width	(5)	mm	1025	1425	1525	1825	2025	2225	2525
Height	(5)	mm	965	965	1180	1235	1320	1430	1510
Standard unit operating weight	(5)	kg	345	450	510	540	710	820	930

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 100% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 100% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / MF / B									
SIZE			3000	5000	7500	10000	12500	15000	20000
Cooling operation									
w-AIRME									
Cooling capacity	(1)	kW	37,20	62,70	93,30	114,00	147,00	181,00	246,00
Sensible capacity	(1)	kW	19,70	33,20	49,50	62,20	79,20	97,00	131,00
Water flow	(1)	m ³ /h	6,40	10,80	16,00	19,70	25,20	31,20	42,30
Water flow pressure drops	(1)	kPa	34,80	35,40	34,10	30,90	31,10	32,30	34,00
s-AIRME-G07 (Internal + outdoor unit)									
Cooling capacity	(1)	kW	24,60	41,40	60,30	73,10	97,50	120,00	150,00
Sensible capacity	(1)	kW	15,50	24,30	33,40	45,80	60,60	66,60	85,60
Total power consumption	(1)	kW	6,69	9,76	11,70	17,20	22,90	28,40	35,80
EER	(1)	-	3,68	4,24	5,16	4,25	4,26	4,24	4,20
Heating operation									
w-AIRME									
Heating capacity	(2)	kW	32,90	54,90	82,00	106,00	133,00	163,00	217,00
Water flow	(2)	m ³ /h	5,66	9,44	14,10	18,30	22,90	28,10	37,40
Water flow pressure drops	(2)	kPa	22,40	22,30	21,70	21,80	20,90	21,50	21,80
s-AIRME-G07 (Internal + outdoor unit)									
Potenza termica	(2)	kW	22,80	39,30	55,40	68,80	91,70	111,00	139,00
Potenza assorbita totale	(2)	kW	6,10	7,97	9,76	13,10	17,80	20,60	25,30
COP	(2)	-	3,75	4,93	5,68	5,27	5,16	5,37	5,48
Supply fans									
Type		-	Radial fan (Plug fan) - EC motor with built-in controller						
Number		n°	1	1	1	1	1	1	2
Supply airflow		m ³ /h	3000	5000	7500	10000	12500	15000	20000
External static pressure	(3)	Pa	300	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units									
Size			ZM 100	ZM 200 + ZM 140	ZM 250	ZM 200	ZM 200	ZM 250	ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	2	2	2	3	4	4	5
No. Circuits per unit		n°	1	1	1	1	1	1	1
Sound power (internal unit)									
Supply fans	(4)	dB(A)	79	88	74	76	78	81	79
Weight and dimension (internal unit)									
Length	(5)	mm	2510	2510	2510	2610	2610	2610	2610
Width	(5)	mm	1025	1425	1525	1825	2025	2225	2525
Height	(5)	mm	965	965	1180	1235	1320	1430	1510
Standard unit operating weight	(5)	kg	350	460	520	560	720	840	950

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 100% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 100% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / HR-P / C								
SIZE			3000	5000	7500	10000	12500	15000
Cooling operation								
w-AIRME								
Cooling capacity	(1)	kW	26,90	42,70	61,10	101,00	111,00	138,00
Sensible capacity	(1)	kW	15,80	25,70	37,50	57,00	65,50	80,30
Water flow	(1)	m³/h	3,61	5,66	7,90	13,90	14,80	18,70
Water flow pressure drops	(1)	kPa	43,10	34,10	19,40	57,80	24,00	27,20
s-AIRME-G07 (Internal + outdoor unit)								
Cooling capacity	(1)	kW	25,90	42,00	59,70	84,90	105,00	119,00
Sensible capacity	(1)	kW	15,80	26,30	35,90	50,20	64,70	71,60
Total power consumption	(1)	kW	6,62	11,60	13,60	19,20	25,70	26,30
EER	(1)	-	3,90	3,61	4,39	4,42	4,07	4,53
Heating operation								
w-AIRME								
Heating capacity	(2)	kW	27,20	44,50	65,60	96,50	112,00	136,00
Water flow	(2)	m³/h	3,05	4,93	7,08	11,00	12,40	14,50
Water flow pressure drops	(2)	kPa	25,60	21,30	12,70	30,60	13,90	13,80
s-AIRME-G07 (Internal + outdoor unit)								
Heating capacity	(2)	kW	52,40	73,80	104,00	130,00	150,00	53,80
Total power consumption	(2)	kW	11,90	13,00	19,10	26,40	25,70	12,20
COP	(2)	-	4,39	5,68	5,46	4,91	5,85	4,40
Supply fans								
Type		-	Radial fan (Plug fan) - EC motor with built-in controller					
Number		n°	1	1	1	1	1	2
Supply airflow		m³/h	3000	5000	7500	10000	12500	15000
External static pressure	(3)	Pa	300	300	300	300	300	300
Return fans								
Type		-	Radial fan (Plug fan) - EC motor with built-in controller					
Number		n°	1	1	1	1	1	2
Return airflow		m³/h	3000	5000	7500	10000	12500	15000
External static pressure	(3)	Pa	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units								
Size			ZM 200	ZM 200 + ZM 125	ZM 200 + ZM 250	2x ZM 200 + ZM 250	ZM 200	2x ZM 200 + 2x ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	1	2	2	3	4	4
No. Circuits per unit		n°	1	1	1	1	1	1
Sound power (internal unit)								
Supply fans	(4)	dB(A)	81	89	76	77	80	78
Return fans	(4)	dB(A)	78	88	73	75	78	75
Weight and dimension (internal unit)								
Lenght	(5)	mm	2950	2950	3200	3650	3775	3946
Width	(5)	mm	1385	1785	1885	2185	2385	2585
Height	(5)	mm	1675	1675	2200	2280	2480	2480
Standard unit operating weight	(5)	kg	750	950	1250	1600	1750	2100

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 100% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 100% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / HR-P / I								
SIZE			3000	5000	7500	10000	12500	15000
Cooling operation								
w-AIRME								
Cooling capacity	(1)	kW	34,30	54,40	82,70	109,00	131,00	162,00
Sensible capacity	(1)	kW	18,70	30,20	45,60	60,10	73,20	89,80
Water flow	(1)	m ³ /h	4,88	7,66	11,60	15,30	18,20	22,80
Water flow pressure drops	(1)	kPa	47,60	33,30	47,50	43,70	19,20	24,00
s-AIRME-G07 (Internal + outdoor unit)								
Cooling capacity	(1)	kW	30,80	49,50	75,00	99,50	124,00	148,00
Sensible capacity	(1)	kW	16,10	29,20	44,10	58,40	65,40	87,50
Total power consumption	(1)	kW	6,64	13,80	18,70	24,40	25,80	36,50
EER	(1)	-	4,64	3,59	4,01	4,08	4,81	4,07
Heating operation								
w-AIRME								
Heating capacity	(2)	kW	31,30	50,90	76,50	99,50	124,00	150,00
Water flow	(2)	m ³ /h	3,74	6,03	8,96	11,60	14,40	16,90
Water flow pressure drops	(2)	kPa	23,70	17,40	23,90	21,20	10,10	11,30
s-AIRME-G07 (Internal + outdoor unit)								
Heating capacity	(2)	kW	36,80	60,70	91,90	122,00	148,00	186,00
Total power consumption	(2)	kW	6,17	14,30	19,10	25,50	24,80	38,00
COP	(2)	-	5,97	4,24	4,82	4,78	5,97	4,89
Supply fans								
Type		-	Radial fan (Plug fan) - EC motor with built-in controller					
Number		n°	1	1	1	1	1	2
Supply airflow		m ³ /h	3000	5000	7500	10000	12500	15000
External static pressure	(3)	Pa	300	300	300	300	300	300
Return fans								
Type		-	Radial fan (Plug fan) - EC motor with built-in controller					
Number		n°	1	1	1	1	1	2
Return airflow		m ³ /h	3000	5000	7500	10000	12500	15000
External static pressure	(3)	Pa	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units								
Size			ZM 250	ZM 200	ZM 200	ZM 200	ZM 250	ZM 200
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	1	2	3	4	4	6
No. Circuits per unit		n°	1	1	1	1	1	1
Sound power (internal unit)								
Supply fans	(4)	dB(A)	81	89	76	78	80	78
Return fans	(4)	dB(A)	78	88	73	75	78	75
Weight and dimension (internal unit)								
Length	(5)	mm	2950	2950	3200	3650	3775	3946
Width	(5)	mm	1385	1785	1885	2185	2385	2585
Height	(5)	mm	1675	1675	2200	2280	2480	2480
Standard unit operating weight	(5)	kg	755	960	1260	1620	1770	2130

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 100% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 100% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / HR-P / B								
SIZE			3000	5000	7500	10000	12500	15000
Cooling operation								
w-AIRME								
Cooling capacity	(1)	kW	39,90	63,20	86,10	122,00	150,00	183,00
Sensible capacity	(1)	kW	20,80	33,50	46,90	65,20	80,30	97,80
Water flow	(1)	m ³ /h	5,84	9,18	12,20	17,60	21,50	26,40
Water flow pressure drops	(1)	kPa	45,80	30,00	25,80	33,70	32,60	21,20
s-AIRME-G07 (Internal + outdoor unit)								
Cooling capacity	(1)	kW	33,70	60,10	84,50	119,00	149,00	178,00
Sensible capacity	(1)	kW	18,20	29,60	43,80	58,80	73,90	88,50
Total power consumption	(1)	kW	7,57	13,90	18,70	24,40	31,00	36,70
EER	(1)	-	4,45	4,33	4,51	4,89	4,80	4,85
Heating operation								
w-AIRME								
Heating capacity	(2)	kW	33,50	55,60	78,40	107,00	130,00	161,00
Water flow	(2)	m ³ /h	4,12	6,83	9,28	12,80	15,50	18,80
Water flow pressure drops	(2)	kPa	19,70	14,20	12,60	15,40	14,60	9,29
s-AIRME-G07 (Internal + outdoor unit)								
Heating capacity	(2)	kW	42,10	70,00	101,00	141,00	175,00	214,00
Total power consumption	(2)	kW	7,75	13,40	18,50	24,00	30,30	36,40
COP	(2)	-	5,44	5,22	5,45	5,87	5,77	5,87
Supply fans								
Type		-	Radial fan (Plug fan) - EC motor with built-in controller					
Number		n°	1	1	1	1	1	2
Supply airflow		m ³ /h	3000	5000	7500	10000	12500	15000
External static pressure	(3)	Pa	300	300	300	300	300	300
Return fans								
Type		-	Radial fan (Plug fan) - EC motor with built-in controller					
Number		n°	1	1	1	1	1	2
Return airflow		m ³ /h	3000	5000	7500	10000	12500	15000
External static pressure	(3)	Pa	300	300	300	300	300	300
s-AIRME-G07 - Outdoor units								
Size			ZM 140	ZM 250	ZM 200 + 2x ZM 250	ZM 250	ZM 250	ZM 250
Model			Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32	Mr. Slim R32
Number		n°	2	2	3	4	5	6
No. Circuits per unit		n°	1	1	1	1	1	1
Sound power (internal unit)								
Supply fans	(4)	dB(A)	81	89	76	78	80	78
Return fans	(4)	dB(A)	78	88	73	75	78	75
Weight and dimension (internal unit)								
Length	(5)	mm	2950	2950	3200	3650	3775	3946
Width	(5)	mm	1385	1785	1885	2185	2385	2585
Height	(5)	mm	1675	1675	2200	2280	2480	2480
Standard unit operating weight	(5)	kg	760	970	1270	1630	1800	2150

Note:

- (1) Cooling: Outside 35°C 50% RH / Inside 27°C 50% RH / Mix 100% / Water 7-12°C (w-AIRME only).
- (2) Heating: Outside 7°C 85% RH / Inside 20°C 50% RH / Mix 100% / Water 45-40°C (w-AIRME only).
- (3) Available static pressure for standard configuration (pressure drops resulting from any available accessories not included).
- (4) Sound power based on measurements performed in accordance with ISO 3744. For complete sound data, consult Elca World.
- (5) The weight and dimensions given refer to the standard unit without accessories. Any additional modules are not considered.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

PERFORMANCE IN ACCORDANCE WITH EN 1253/2014

AIRME / AR C-I-B / MF C-I-B								
SIZE		3000	5000	7500	10000	12500	15000	20000
NON-RESIDENTIAL application								
Type of fan unit	-	single flow	single flow	single flow	single flow	single flow	single flow	single flow
Supply air flow-rate	m ³ /h	3000	5000	7500	10000	12500	15000	20000
Correction factor F	-	0	0	0	0	0	0	0
Internal SFP limit	W/m ³ /s	230	230	230	230	230	230	230
Internal SFP	W/m ³ /s	225	225	225	225	225	225	225
Supply fan static efficiency - Reg. (EU) N. 327/2011	%	54,8	53,7	70,6	71,8	67,6	70,5	71,8

AIRME / HR-P C-I-B							
SIZE		3000	5000	7500	10000	12500	15000
NON-RESIDENTIAL application							
Type of fan unit	-	double flow	double flow	double flow	double flow	double flow	double flow
Supply air flow-rate	m ³ /h	3000	5000	7500	10000	12500	15000
ErP efficiency of recuperator	%	73,2	73,2	74,6	73,8	73,5	73,3
Efficiency bonus E	-	0	0	60,0	30,0	30,0	30,0
Correction factor F	-	0	0	0	0	0	0
Internal SFP limit	W/m ³ /s	1035	940	848	824	815	806
Internal SFP	W/m ³ /s	1010	936	830	810	810	780
Supply fan static efficiency - Reg. (EU) N. 327/2011	%	53,9	53,9	68,9	56,9	63,6	68,90
Return fan static efficiency - Reg. (EU) N. 327/2011	%	55,1	53,9	70,4	71,8	67,1	70,50

Note:

The above data are valid for the standard unit only, with no accessories selected.

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

SUPPLY FANS

AIRME / AR C-I-B / MF C-I-B													
Sizes		3000			5000			7500			10000		
w-AIRME		C	I	B	C	I	B	C	I	B	C	I	B
Maximum flow-rate	m³/h	3000	3000	3000	5000	5000	5000	7500	7500	7500	10000	10000	10000
Minimum flow-rate	m³/h	1000	1000	1000	2000	2000	2000	4000	4000	4000	5000	5000	5000
s-AIRME-G07		C	I	B	C	I	B	C	I	B	C	I	B
Maximum flow-rate	m³/h	3000	3000	3000	5000	5000	5000	7500	7500	7500	10000	10000	10000
Minimum flow-rate	m³/h	1000	1500	2000	2000	2500	3500	4000	4000	4600	6000	6000	6000
Sizes		12500			15000			20000					
w-AIRME		C	I	B	C	I	B	C	I	B			
Maximum flow-rate	m³/h	12500	12500	12500	15000	15000	15000	20000	20000	20000			
Minimum flow-rate	m³/h	6000	6000	6000	8000	8000	8000	10000	10000	10000			
s-AIRME-G07		C	I	B	C	I	B	C	I	B			
Maximum flow-rate	m³/h	12500	12500	12500	15000	15000	15000	20000	20000	20000			
Minimum flow-rate	m³/h	9000	9000	9000	11000	11000	11000	14000	14000	14000			

AIRME / AR C-I-B / MF C-I-B									
Type	Code		3000	5000	7500	10000	12500	15000	20000
Standard EC plug fan	B502	FLI	2,5	2,5	4,2	4,2	4,2	4,2	8,4
		FLA	4,1	4,1	6,75	6,75	6,75	6,75	13,5
	Number	Nr.	1	1	1	1	1	1	2
EC plug fan, higher rating (MM1)	B503	FLI	2,5	4,1	4,2	4,2	8,4	8,4	8,4
		FLA	4,1	6,5	6,75	6,75	13,5	13,5	13,5
	Number	Nr.	1	1	1	1	2	2	2

Note:

The electrical data shown are total values

FLI Power consumption in max. admissible conditions. [kW]

FLA Current draw in max. admissible conditions. [A]

Unit in the standard configuration, without accessories

Limit flow-rate to ensure a maximum coil flow-through speed of 2.7 m/s

For detailed specifications contact Elca World

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

AIRME / HR-P C-I-B										
Sizes		3000			5000			7500		
w-AIRME		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m ³ /h	3000	3000	3000	5000	5000	5000	7500	7500	7500
Minimum flow-rate	m ³ /h	1000	1000	1000	2000	2000	2000	4000	4000	4000
s-AIRME-G07		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m ³ /h	3000	3000	3000	5000	5000	5000	7500	7500	7500
Minimum flow-rate	m ³ /h	2000	2300	2800	3250	3950	4550	4250	5900	6500
Sizes		10000			12500			15000		
w-AIRME		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m ³ /h	10000	10000	10000	12500	12500	12500	15000	15000	15000
Minimum flow-rate	m ³ /h	5000	5000	5000	6000	6000	6000	8000	8000	8000
s-AIRME-G07		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m ³ /h	10000	10000	10000	12500	12500	12500	15000	15000	15000
Minimum flow-rate	m ³ /h	6200	7850	9100	7850	9100	11350	8450	11750	13600

AIRME / HR-P C-I-B								
Type	Code	3000	5000	7500	10000	12500	15000	
Standard EC plug fan	B502	FLI	2,5	2,5	4,2	4,2	4,2	8,4
		FLA	4,1	4,1	6,75	6,75	6,75	13,5
	Number	Nr.	1	1	1	1	1	2
EC plug fan, higher rating (MM1)	B503	FLI	2,5	4,1	4,2	8,4	8,4	8,4
		FLA	4,1	6,5	6,75	13,5	13,5	13,5
	Number	Nr.	1	1	1	2	2	2

Note:

The electrical data shown are total values

FLI Power consumption in max. admissible conditions. [kW]

FLA Current draw in max. admissible conditions. [A]

Unit in the standard configuration, without accessories

Limit flow-rate to ensure a maximum coil flow-through speed of 2.7 m/s

For detailed specifications contact Elca World

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

RETURN FANS

AIRME / HR-P C-I-B										
Sizes		3000			5000			7500		
w-AIRME		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m³/h	3000	3000	3000	5000	5000	5000	7500	7500	7500
Minimum flow-rate	m³/h	1000	1000	1000	2000	2000	2000	4000	4000	4000
s-AIRME-G07		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m³/h	3000	3000	3000	5000	5000	5000	7500	7500	7500
Minimum flow-rate	m³/h	2000	2300	2800	3250	3950	4550	4250	5900	6500
Sizes		10000			12500			15000		
w-AIRME		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m³/h	10000	10000	10000	12500	12500	12500	15000	15000	15000
Minimum flow-rate	m³/h	5000	5000	5000	6000	6000	6000	8000	8000	8000
s-AIRME-G07		C	I	B	C	I	B	C	I	B
Maximum flow-rate	m³/h	10000	10000	10000	12500	12500	12500	15000	15000	15000
Minimum flow-rate	m³/h	6200	7850	9100	7850	9100	11350	8450	11750	13600

AIRME / HR-P C-I-B								
Type	Code		3000	5000	7500	10000	12500	15000
Standard EC plug fan	B502	FLI	2,5	2,5	4,2	4,2	4,2	8,4
		FLA	4,1	4,1	6,75	6,75	6,75	13,5
	Number	Nr.	1	1	1	1	1	2
EC plug fan, higher rating (MM1)	B503	FLI	2,5	4,1	4,2	4,2	8,4	8,4
		FLA	4,1	6,5	6,75	6,75	13,5	13,5
	Number	Nr.	1	1	1	1	2	2

Note:

The electrical data shown are total values

FLI Power consumption in max. admissible conditions. [kW]

FLA Current draw in max. admissible conditions. [A]

Unit in the standard configuration, without accessories

Limit flow-rate to ensure a maximum coil flow-through speed of 2.7 m/s

For detailed specifications contact Elca World

ACCESSORIES

ELECTRIC PREHEAT/REHEAT COILS

Sizes			3000	5000	7500	10000	12500	15000	20000
Preheating	Heating capacity	[kW]	5	8	12	16	20	24	32
	Current draw	[A]	7	12	17	23	29	35	46
Reheating	Heating capacity	[kW]	5	8	12	16	20	24	32
	Current draw	[A]	7	12	17	23	29	35	46
	Additional module length	[mm]	550	550	550	550	550	550	550

Note:

Resistive capacity calculated with $\Delta T=5^{\circ}\text{C}$

Construction specifications:

- No. of stages = 3
- IP55 protection class according to EN 60529
- Galvanised steel frame
- Automatic reset thermostat set at 90°C
- Manual reset thermostat set at 100°C

WATER PREHEAT/REHEAT COIL

Sizes			3000	5000	7500	10000	12500	15000	20000
Preheating (1)	Heating capacity	[kW]	5,1	8,6	12,8	17,1	21,4	25,7	34,2
	Water flow-rate	[l/h]	979	1631	2447	3262	4078	4893	6524
	Water side pressure drop	[kPa]	28	23	23	14	22	22	29
Reheating (2)	Heating capacity	[kW]	5,2	8,7	13,1	17,4	21,8	26,1	34,8
	Water flow-rate	[l/h]	898	1497	2246	2995	3744	4492	5990
	Water side pressure drop	[kPa]	17	14	14	8	13	13	18
	Additional module length	[mm]	550	550	550	550	550	550	550

Note:

(1) Preheating: T water IN/OUT $45/40^{\circ}\text{C}$, T air IN/OUT $-15/-10^{\circ}\text{C}$

(2) Reheating: T water IN/OUT $45/40^{\circ}\text{C}$, T air IN/OUT $+16/+21^{\circ}\text{C}$

STEAM HUMIDIFIER

Size	Rated steam production	Power consumption	Current draw	Additional module length
	[kg/h]	[kW]	[A]	[mm]
3000	8	6	8,7	1100
5000	15	11,3	16,2	1100
7500	18	13,5	19,5	1100
10000	25	18,7	27,0	1100
12500	35	26,2	37,8	1100
15000	45	33,7	48,6	1100
20000	65	48,7	70.3	1500

Note:

- Immersed electrode steam generator
- Additional section with structure and panelling same as basic unit
- Additional section containing: steam generator, steam distributor, condensate collection pan

GENERAL TECHNICAL SPECIFICATIONS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

ELECTRICAL DATA

Sizes	Supply fans			Auxiliary		Total	
	No.	FLI	FLA	FLI	FLA	FLI	FLA
		[kW]	[A]	[kW]	[A]	[kW]	[A]
3000	1	2,5	4,1	0,5	1,25	3,0	5,35
5000	1	2,5	4,1	0,5	1,25	3,0	5,35
7500	1	4,2	6,75	0,5	1,25	4,7	8,00
10000	1	4,2	6,75	0,5	1,25	4,7	8,00
12500	1	4,2	6,75	0,5	1,25	4,7	8,00
15000	1	4,2	6,75	0,5	1,25	4,7	8,00
20000	2	8,4	13,5	0,5	1,25	8,9	14,75

HR-P VERSION

Sizes	Supply fans			Return fans			Auxiliary		Total	
	No.	FLI	FLA	No.	FLI	FLA	FLI	FLA	FLI	FLA
		[kW]	[A]		[kW]	[A]	[kW]	[A]	[kW]	[A]
3000	1	2,5	4,1	1	2,5	4,1	0,5	1,25	5,5	9,45
5000	1	2,5	4,1	1	2,5	4,1	0,5	1,25	5,5	9,45
7500	1	4,2	6,75	1	4,2	6,75	0,5	1,25	8,9	14,75
10000	1	4,2	6,75	1	4,2	6,75	0,5	1,25	8,9	14,75
12500	1	4,2	6,75	1	4,2	6,75	0,5	1,25	8,9	14,75
15000	2	8,4	13,5	2	8,4	13,5	0,5	1,25	17,3	28,25

Note:

The electrical data shown are total values

FLI Power consumption in max. admissible conditions. [kW]

FLA Current draw in max. admissible conditions. [A]

Power supply:

- 400/3/50 NO NEUTRAL

- Permissible voltage variation 10%

- Maximum voltage imbalance between phases 3%

6. OPERATING LIMITS

OPERATING LIMITS CALCULATED AS FOLLOWS

- Unit installed and used in accordance with the instructions given in the Installation, Use and Maintenance Manual.
- Unit operating in steady conditions.

Warning:

1. When the unit is required to work in cooling mode with an outside temperature of less than 5°C, it is recommended to use the option B531/B532 Electric / Water pre-heating coil.
2. For detailed operating limits, reference should be made to the Elca World selection software.



Note:

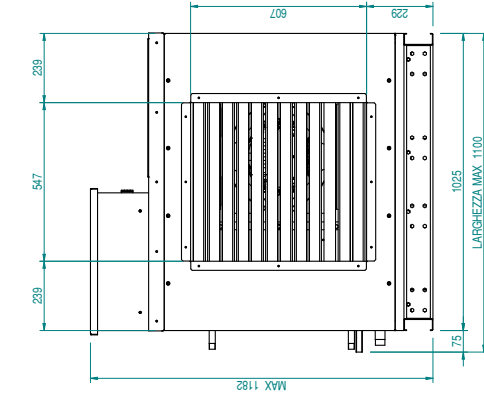
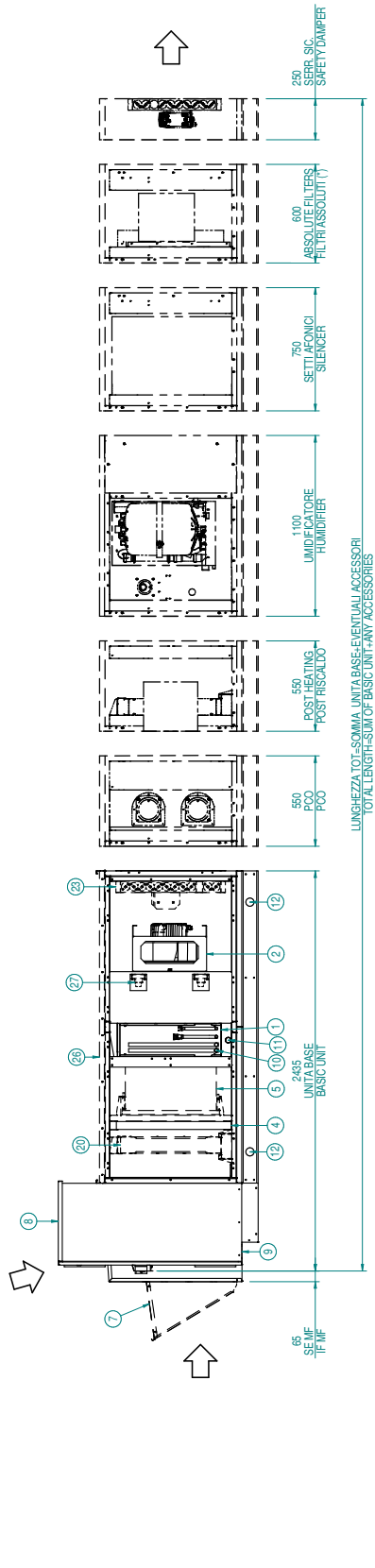
Minimum heat pump operating limit equal to -20°C without additional heating devices.
To verify performance, reference should be made to the Elca World selection software.

7 DIMENSIONAL DRAWINGS

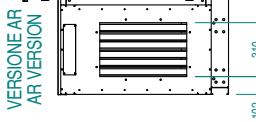
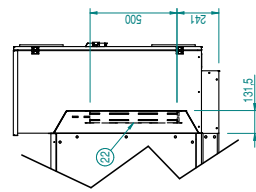
Data Book

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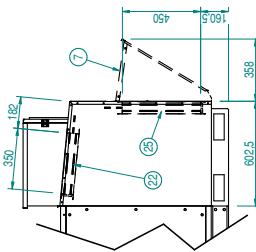
	Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING		Umidificatore a vapore Steam humidifier (kg)	Setti afonici Silencer (kg)	Filtri assoluti Absolute filters (kg)	Serranda di sicurezza Safety damper (kg)	Camera di miscelazione a 3 vie 3-ways mixing chamber
	C (kg)	B (kg)	Pco (kg)	Post riscaldamento ad acqua Water post-heating (kg)					
S-AIRME 3000 AR	309	317	79	89	125	92	91	42	150
S-AIRME 3000 MF	338	346	65						



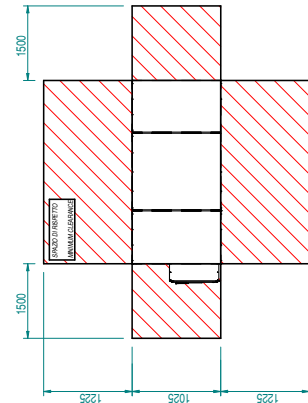
VISTA LATO MANDATA
DELIVERY SIDE VIEW



VERSIONE AR
AR VERSION



VERSIONE MF
MF VERSION



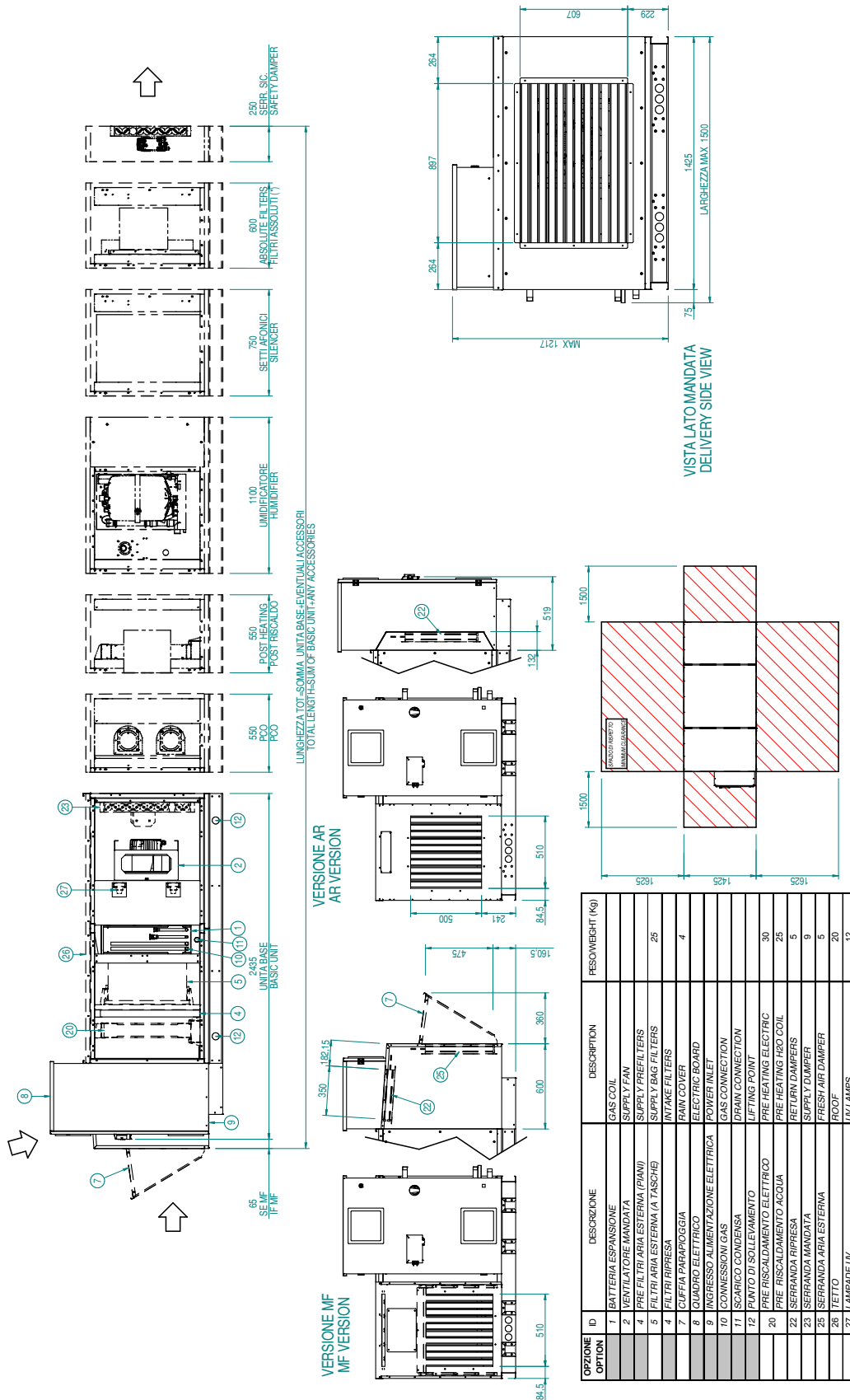
OPZIONE / OPTION	ID	DESCRIZIONE / DESCRIPTION	PESO / WEIGHT (kg)
	1	BATTERIA ESPANSIONE / GAS COIL	
	2	VENTILATORE MANDATA / SUPPLY FAN	
	4	PRE FILTRI ARIA ESTERNA (PIANI) / SUPPLY PREFILTERS	
	5	FILTRI ARIA ESTERNA (A TASCHE) / SUPPLY BAG FILTERS	14
	4	FILTRI RIPRESA / INTAKE FILTERS	
	7	CUFFIA PARAPIOGGIA / RAIN COVER	4
	8	QUADRO ELETTRICO / ELECTRIC BOARD	
	9	INGRESSO ALIMENTAZIONE ELETTRICA / POWER INLET	
	10	CONNESSIONI GAS / GAS CONNECTION	
	11	SCARICO CONDENSATA / DRAIN CONNECTION	
	12	PIANTO DI SOLLEVAMENTO / LIFTING POINT	
	20	PRE RISCALDAMENTO ELETTRICO / PRE HEATING ELECTRIC	20
	19	PRE RISCALDAMENTO ACQUA / PRE HEATING P20 COIL	15
	4	SERRANDA RIPRESA / PRE TURIN DAMPERS	
	7	SERRANDA MANDATA / SUPPLY DAMPER	
	4	SERRANDA ARIA ESTERNA / FRESH AIR DAMPER	
	26	TEGOLINO / ROOF	14
	8	LAMPADINE UV / UV LAMPS	8

DIMENSIONAL DRAWINGS

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	Unità Base/Basic unit (Kg)		POST RISCALDO/POST HEATING		Umidificatore a vapore Steam humidifier (Kg)	Setti acustici Silencer (Kg)	Filtri assoluti Absolute filters (Kg)	Serranda di sicurezza Safety damper (Kg)	Camera di miscelazione a 3 vie 3-ways mixing chamber
	C (Kg)	I (Kg)	P-co (Kg)	B (Kg)					
S-AIRME 5000 AR	407	417	100	116	160	122	129	51	200
S-AIRME 5000 MF	439	449	78						



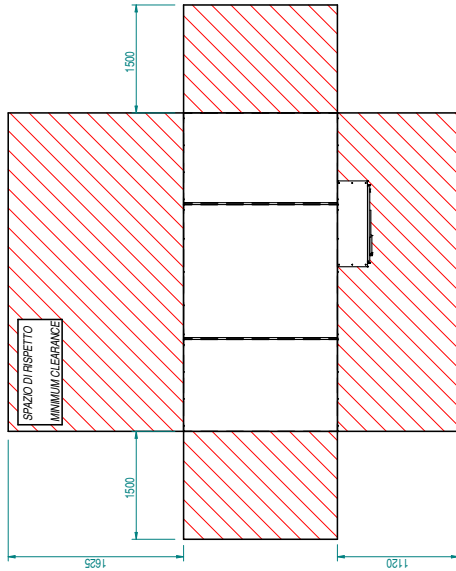
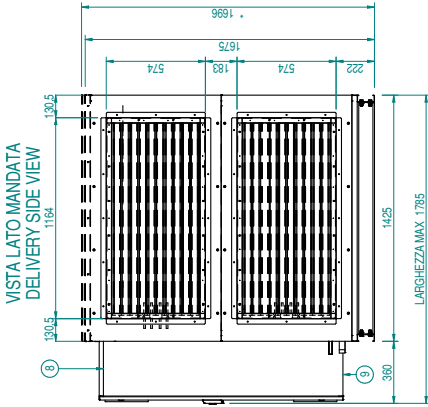
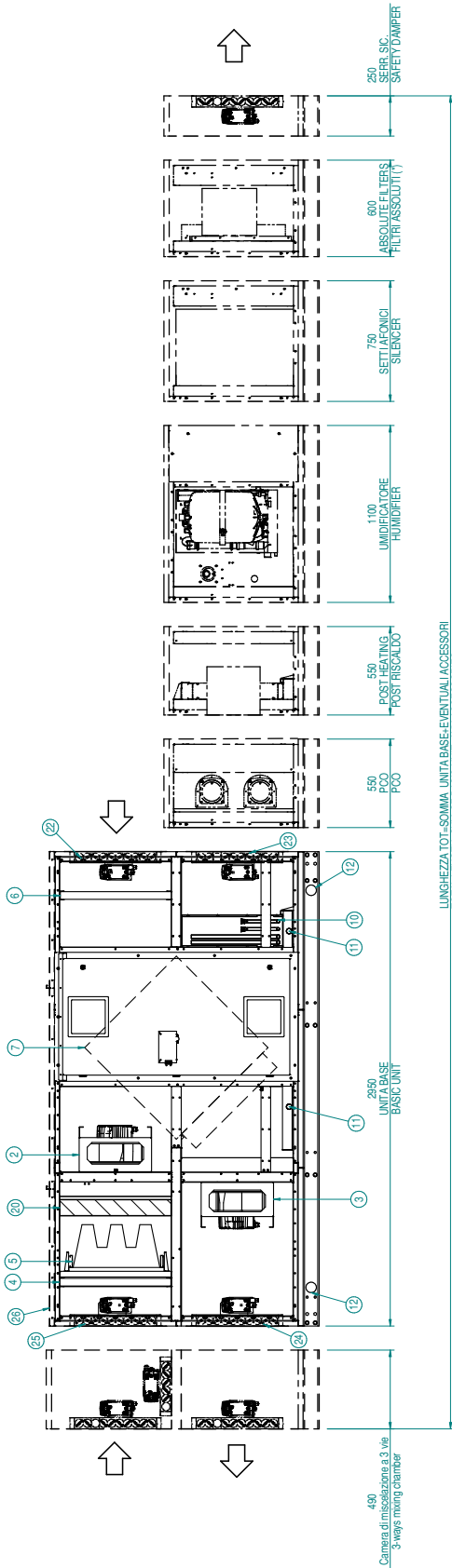
OPZIONE OPTION	DESCRIZIONE DESCRIPTION	DESCRIZIONE DESCRIPTION	PESSO (Kg) WEIGHT (Kg)
1	BATTERIA ESPANSIONE	GAS COIL	
2	VENTILATORE MANDATA	SUPPLY FAN	
4	PRE FILTRI ARIA ESTERNA (PIANI)	SUPPLY PRE-FILTERS	
5	FILTRI ARIA ESTERNA (A TASCHE)	SUPPLY BAG FILTERS	25
4	FILTRI RIPRESA	INTAKE FILTERS	
8	CUFFIA PARAPIOGGIA	RAIN COVER	4
9	QUADRO ALIMENTAZIONE ELETTRICA	ELECTRIC BOARD	
10	CONNESSIONI GAS	GAS CONNECTION	
11	SCARICO CONDENZA	DRAIN CONNECTION	
12	PUNTO DI SOLLEVAMENTO	LIFTING POINT	
20	PRE RISCALDAMENTO ELETTRICO	PRE HEATING ELECTRIC	30
25	PRE RISCALDAMENTO ACQUA	PRE HEATING H2O COIL	25
5	SERRANDA RIPRESA	RETURN DAMPERS	5
9	SERRANDA MANDATA	SUPPLY DAMPER	9
5	SERRANDA ARIA ESTERNA	FRESH AIR DAMPER	5
20	TETTO	ROOF	20
12	LAMPADE UV	UV LAMPS	12

DIMENSIONAL DRAWINGS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

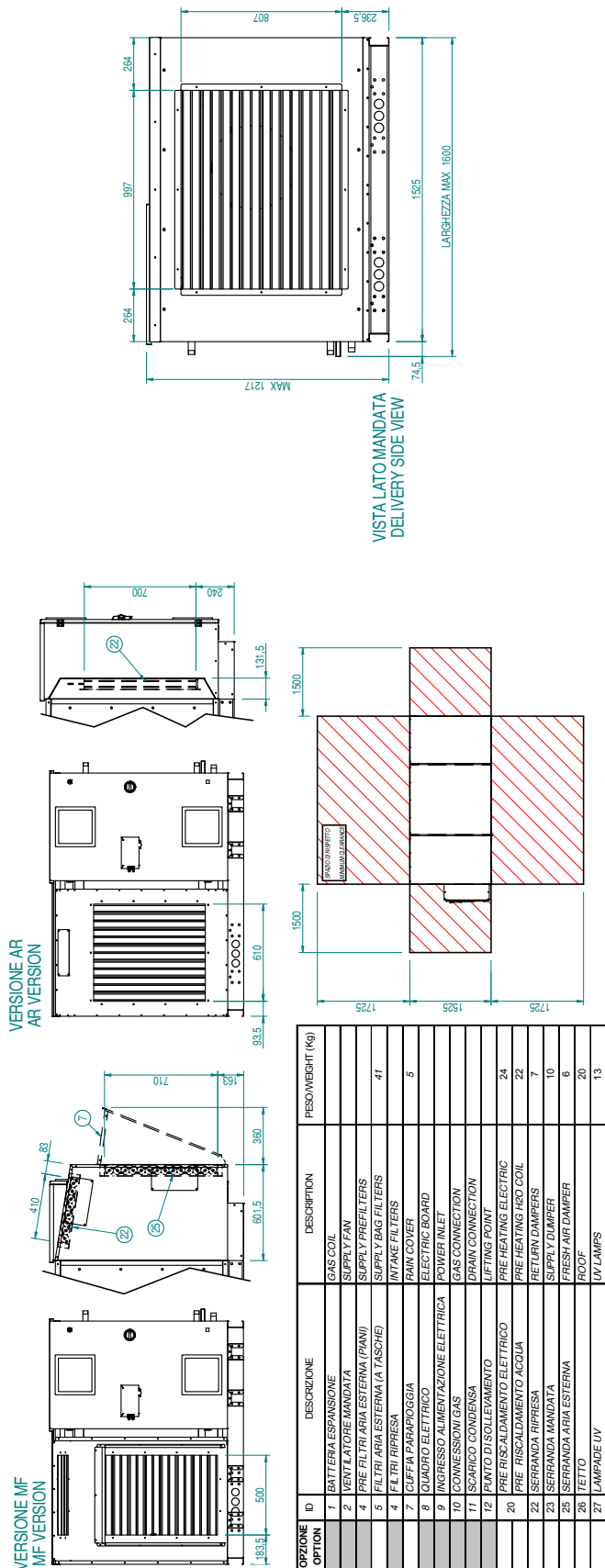
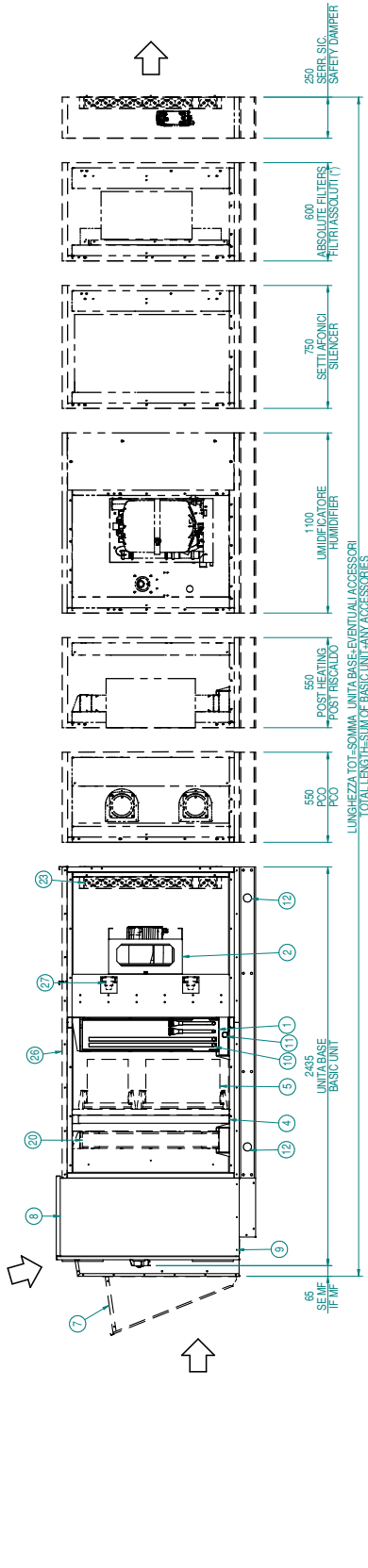
		POST RISCALDO/POST HEATING								
	Unità Base/Basic unit (kg)	B (kg)	Pco (kg)	Post riscaldamento elettrico Electric post-heating (kg)	Post riscaldamento ad acqua Water post-heating (kg)	Umidificatore a vapore Steam humidifier (kg)	Setti afonici Silencer (kg)	Filtri assoluti Absolute filters (kg)	Serranda di sicurezza Safety damper (kg)	Camera di miscelazione a 3 vie 3-ways mixing chamber
S-AIRME 5000 HR-P	950	960	78	100	116	160	122	129	51	200



NOTE:
* DIMENSIONI CON KIT TETTO (SU RICHIESTA)
* DIMENSIONS WITH ROOF KIT (ON REQUEST)

OPZIONE OPTION	ID	DESCRIZIONE	DESCRIZIONE	PESO/WEIGHT (kg)
	1	BATTERIA ESPANSIONE	GAS COIL	
	2	VENTILATORE MANDATA	SUPPLY FAN	
	3	PRE FILTRI ARIA ESPULSIONE	INTAKE FAN	
	4	FILTRI ARIA ESTERNA (PIANI)	SUPPLY PRE-FILTERS	
	5	FILTRI ARIA ESTERNA (A TASCHE)	SUPPLY BAG FILTERS	25
	6	FILTRI RIPPRESA	INTAKE FILTERS	
	7	RECUPERO A PIASTRE	PLATES RECOVERY	
	8	QUADRO ELETTRICO	ELECTRIC BOARD	
	9	INGRESSO ALIMENTAZIONE ELETTRICA	POWER INLET	
	10	CONNESSIONI GAS	GAS CONNECTION	
	11	SCARICO CONDENZA	DRAIN CONNECTION	
	12	PIANTO DI SOLLEVAMENTO	LIFTING POINT	
	20	PRE RISCALDAMENTO ELETTRICO	PRE HEATING ELECTRIC	30
	21	PRE RISCALDAMENTO ACQUA	PRE HEATING H2O COIL	25
	22	SERRANDA RIPPRESA	RETURN DAMPERS	9
	23	SERRANDA MANDATA	SUPPLY DAMPER	9
	24	SERRANDA ESPULSIONE	EXHAUST AIR DAMPER	9
	25	SERRANDA ARIA ESTERNA	FRESH AIR DAMPER	9
	26	TETTO	ROOF	30

	Unità Base/Basic unit (Kg)		POST RISCALDO/POST HEATING		Serranda di sicurezza Safety damper (Kg)	Filtri assoluti Absolute filters (Kg)	Setti fonici Silencer (Kg)	Umidificatore a vapore Steam humidifier (Kg)	Setti fonici Silencer (Kg)	Filtri assoluti Absolute filters (Kg)	Serranda di miscelazione a 3 vie 3-ways mixing chamber
	C (Kg)	I (Kg)	B (Kg)	Pco (Kg)							
S-AIRME 7500 AR	457	468	479	88	78	142	143	178	143	142	270
S-AIRME 7500 MF	493	504	515	88	119	114	119	119	119	119	119



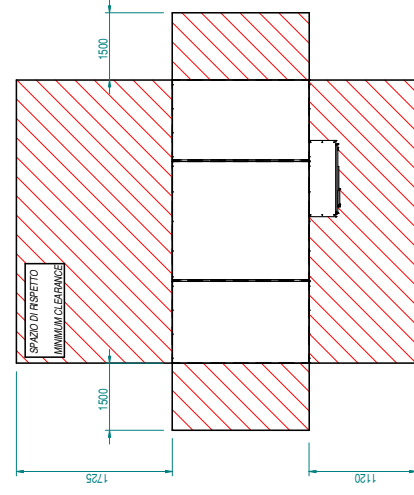
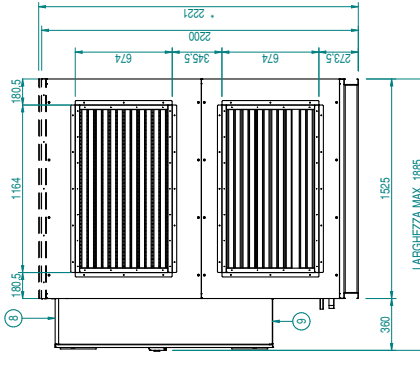
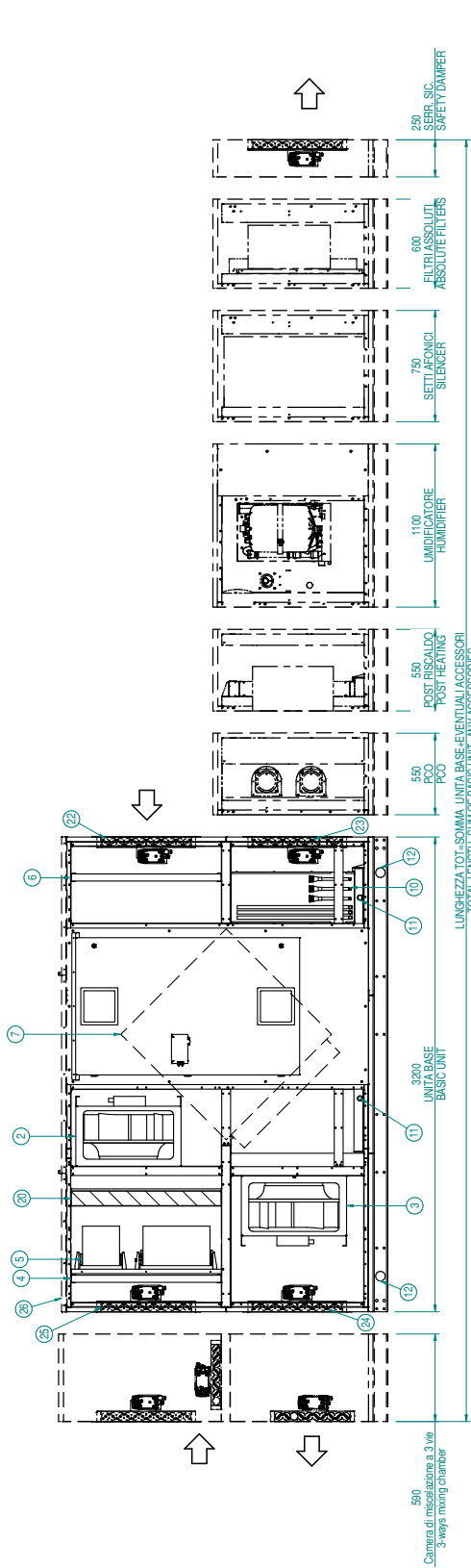
OPZIONE OPTION	ID	DESCRIZIONE	DESCRIZIONE	PESO/WEIGHT (Kg)
	1	BATTERIA ESPANSIONE	GAS COIL	
	2	VENTILATORE MANDATA	SUPPLY FAN	
	4	PRE FILTRI ARIA ESTERNA (PIANI)	SUPPLY PRE-FILTERS	
	5	FILTRI ARIA ESTERNA (A TASCHE)	SUPPLY BAG FILTERS	41
	4	FILTRI RIPRESA	INTAKE FILTERS	
	7	CUFFIA A PARAPIOGGIA	RAIN COVER	
	8	QUADRO ELETTRICO	ELECTRIC BOARD	5
	9	INGRESSO ALIMENTAZIONE ELETTRICA	POWER INLET	
	10	CONNESSIONI GAS	GAS CONNECTION	
	11	SCARICO CONDENZA	DRAIN CONNECTION	
	12	PUNTO DI SOLLEVAMENTO	LIFTING POINT	
	20	PRE RISCALDAMENTO ELETTRICO	PRE HEATING ELECTRIC	24
	22	PRE RISCALDAMENTO ACQUA	PRE HEATING P20 COIL	22
	7	SERRANDA RIPRESA	RETURN DAMPERS	
	23	SERRANDA MANDATA	SUPPLY DAMPER	10
	6	SERRANDA ARIA ESTERNA	FRESH AIR DAMPER	
	26	TEITO	ROOF	20
	27	LAMPADINE LV	LV LAMPS	13

DIMENSIONAL DRAWINGS

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Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING		Camera di miscelazione a 3 vie 3-ways mixing chamber	
C (kg)	I (kg)	B (kg)	Pco (kg)	Post riscaldamento elettrico Electric post-heating (kg)	Water post-heating (kg)
1250	1260	1270	88	114	119
				178	142
				143	78
				178	270



NOTE:
 * DIMENSIONI CON KIT TETTO (SU RICHIESTA)
 * DIMENSIONS WITH ROOF KIT (ON REQUEST)

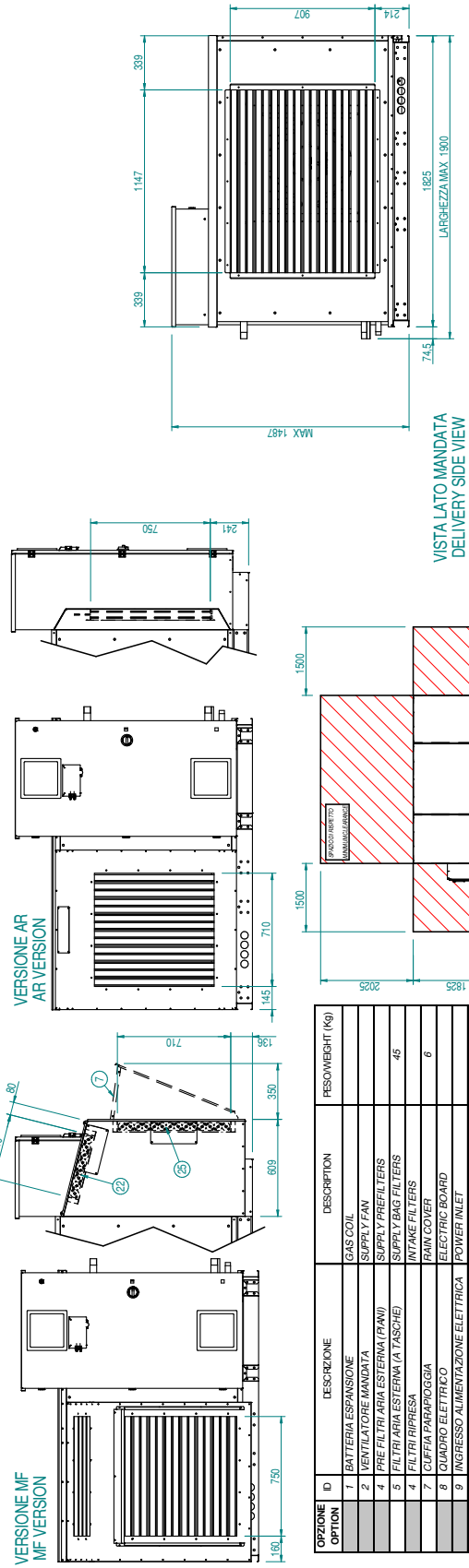
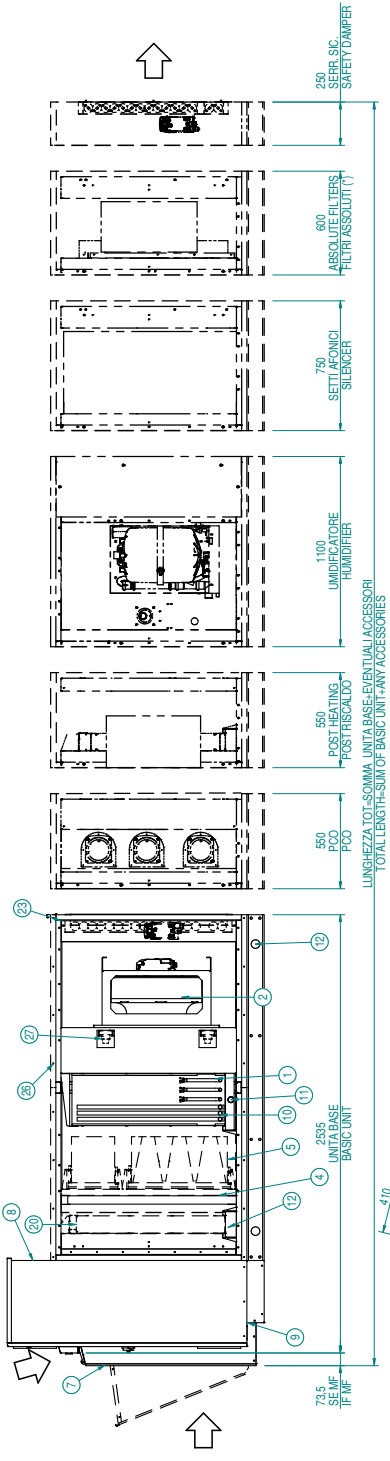
OPZIONE OPTION	ID	DESCRIZIONE	DESCRIZIONE	PESO/WEIGHT (kg)
	1	BATTERIA ESPANSIONE	GAS COIL	
	2	VENTILATORE MANDATA	SUPPLY FAN	
	3	VENTILATORE ESPULSIONE	INTAKE FAN	
	4	PRE FILTRI ARIA ESTERNA (PIANI)	SUPPLY PRE-FILTERS	
	5	FILTRI ARIA ESTERNA (A TASCHE)	SUPPLY BAG FILTERS	41
	6	FILTRI RIPRESA	INTAKE FILTERS	
	7	RECUPERO A PIASTRE	PLATES RECOVERY	
	8	QUADRO ELETTRICO	ELECTRIC BOARD	
	9	INGRESSO ALIMENTAZIONE ELETTRICA	POWER INLET	
	10	CONNESSIONI GAS	GAS CONNECTION	
	11	SCARICO CONDENSA	DRAIN CONNECTION	
	12	PIANTO DI SOLLEVAMENTO	LIFTING POINT	
	20	PRE RISCALDAMENTO ELETTRICO	PRE HEATING ELECTRIC	24
	21	PRE RISCALDAMENTO ACQUA	PRE HEATING H2O COIL	22
	22	SERRANDA RIPRESA	RETURN DAMPERS	10
	23	SERRANDA MANDATA	SUPPLY DAMPER	10
	24	SERRANDA ESPULSIONE	EXHAUST AIR DAMPER	10
	25	SERRANDA ARIA ESTERNA	FRESH AIR DAMPER	10
	26	TETTO	ROOF	35

DIMENSIONAL DRAWINGS

Data Book

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		Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING		Camera di miscelazione a 3 vie 3-ways mixing chamber									
OPZIONE OPTION	ID	C (kg)	I (kg)	B (kg)	Pco (kg)	Post riscaldamento ad acqua Water post-heating (kg)	Serranda di sicurezza Safety damper (kg)	Filtri assoluti Absolute filters (kg)	Setti acustici Silencer (kg)	Umidificatore a vapore Steam humidifier (kg)	205	159	167	86	340
S-AIRME 10000 AR		485	497,5	510	100	134									
S-AIRME 10000 MF		530	542,5	555											

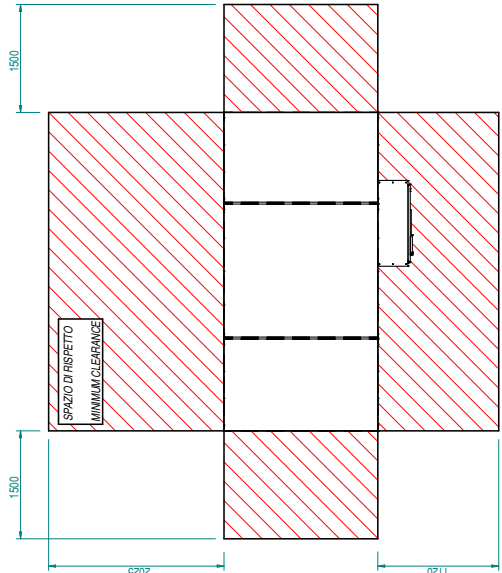
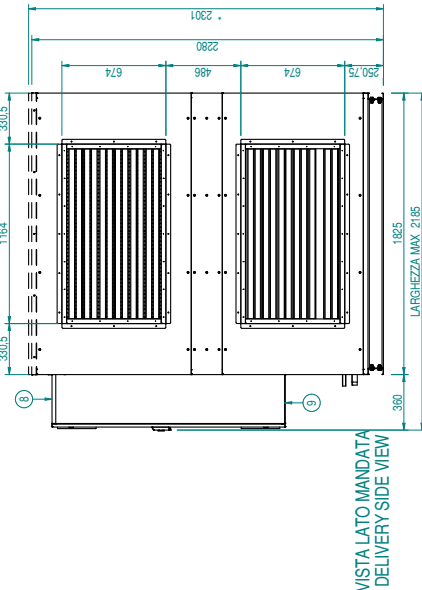
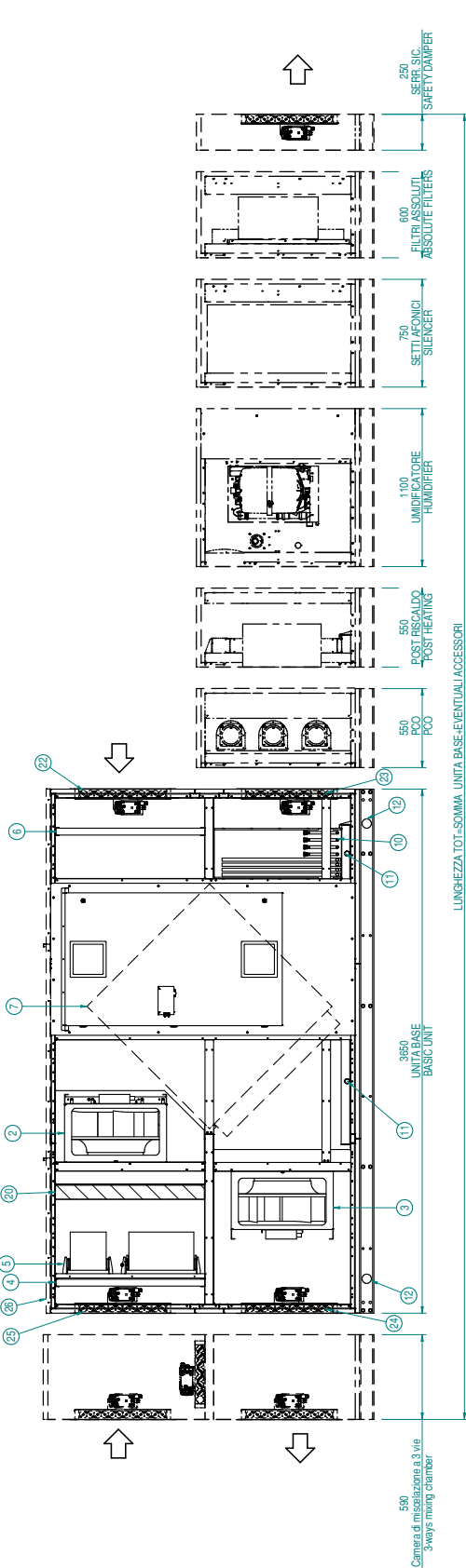


OPZIONE OPTION	ID	DESCRIZIONE DESCRIPTION	PESO (kg) WEIGHT (kg)
	1	BATTERIA ESPANSIONE GAS COIL	
	2	VENTILATORE MANDATA SUPPLY FAN	
	4	PRE FILTRI ARIA ESTERNA (PAMI) SUPPLY BAG FILTERS	45
	5	FILTRI ARIA ESTERNA (A TASCHE) INTAKE FILTERS	6
	7	FILTRI RIPRESA RAIN COVER	
	8	CUFFIA PARAPIOGGIA ELECTRIC BOARD	
	9	QUADRO ELETTRICO POWER INLET	
	10	INGRESSO ALIMENTAZIONE ELETTRICA GAS CONNECTION	
	11	SCARICO CONDENZA DRAIN CONNECTION	
	12	PIANTO DI SOLLEVAMENTO LIFTING POINT	
	20	PRE RISCALDAMENTO ELETTRICO PRE HEATING ELECTRIC	30
	21	PRE RISCALDAMENTO ACQUA PRE HEATING H2O COIL	28
	22	SERRANDA RIPRESA RETURN DAMPERS	8
	23	SERRANDA MANDATA SUPPLY DAMPER	12
	25	SERRANDA ARIA ESTERNA FRESH AIR DAMPER	6
	26	TETTO ROOF	25
	27	LAMPADINE UV UV LAMPS	15



DIMENSIONAL DRAWINGS

S-AIRME 10000 HR-P	Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING		580 UNITÀ BASE BASIC UNIT	550 POST RISCALDO POST HEATING	100 Pco (kg)	1630 B (kg)	1620 I (kg)	1600 C (kg)	130 Post riscaldamento elettrico Electric post-heating (kg)	134 Post riscaldamento ad acqua Water post-heating (kg)	205 Umidificatore a vapore Steam humidifier (kg)	159 Setti fonici Silencer (kg)	167 Filtri assoluti Absolute filters (kg)	86 Serranda di sicurezza Safety damper (kg)	340 Camera di miscelazione a 3 vie 3-ways mixing chamber
	1630	1620	1600	130													



NOTE:
* DIMENSIONI CON KIT TETTO (SU RICHIESTA)
* DIMENSIONS WITH ROOF KIT (ON REQUEST)

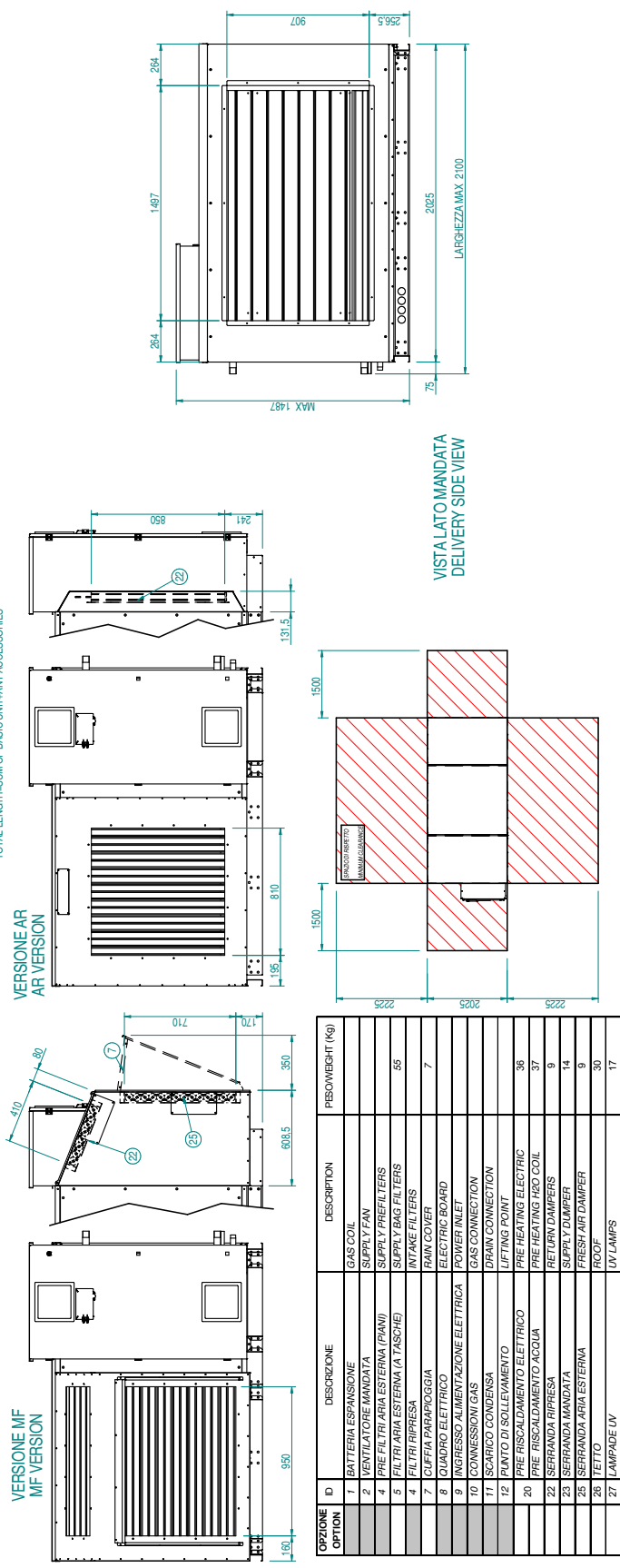
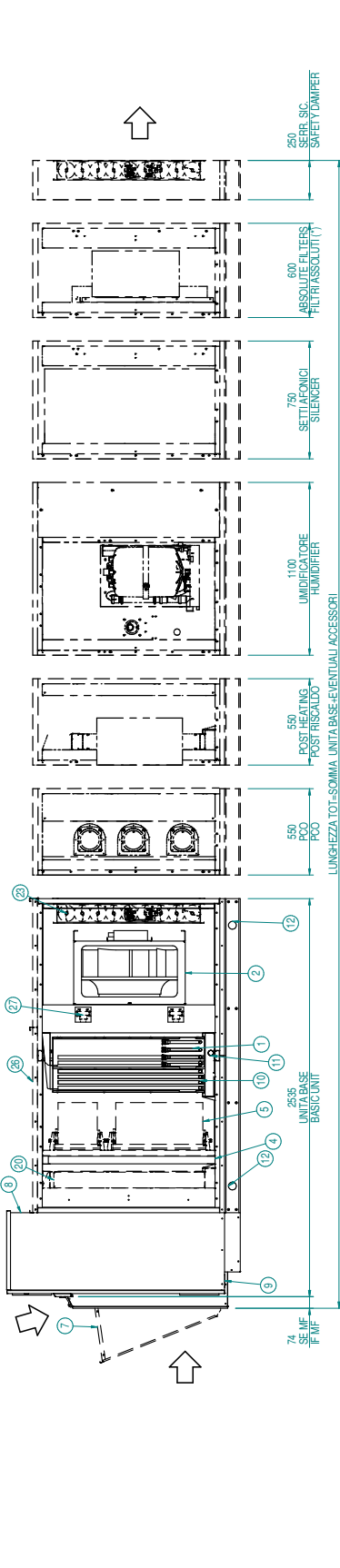
OPZIONE / OPTION	D	DESCRIZIONE / DESCRIPTION	DESCRIZIONE / DESCRIPTION	DESCRIZIONE / DESCRIPTION	DESCRIZIONE / DESCRIPTION	WEIGHT (kg)
	1	BATTERIA ESPANSIONE	GAS COIL			
	2	VENTILATORE MANDATA	SUPPLY FAN			
	3	VENTILATORE ESERUZIONE	INTAKE FAN			
	4	PRE-FILTRI ARIA ESTERNA (PIANI)	SUPPLY BAG FILTERS			
	5	FILTRI ARIA ESTERNA (A TASCHE)	SUPPLY BAG FILTERS			45
	6	FILTRI RIPRESA	INTAKE FILTERS			
	7	RECUPERO A PASTRE	PLATES RECOVERY			
	8	QUADRO ELETTRICO	ELECTRIC BOARD			
	9	INGRESSO ALIMENTAZIONE ELETTRICA	POWER INLET			
	10	CONNESSIONI GAS	GAS CONNECTION			
	11	SCARICO CONDENZA	DRAIN CONNECTION			
	12	PUNTO DI SOLLEVAMENTO	LIFTING POINT			
	20	PRE-RISCALDAMENTO ELETTRICO	PRE-HEATING ELECTRIC			30
		PRE-RISCALDAMENTO A COIL	PRE-HEATING HAO COIL			29
	22	SERRANDA RIPRESA	RETURN DAMPERS			10
	23	SERRANDA MANDATA	SUPPLY DAMPERS			10
	24	SERRANDA ESERUZIONE	EXHAUST AIR DAMPER			10
	25	SERRANDA ARIA ESTERNA	FRESH AIR DAMPER			46
	26	TETTO	ROOF			

DIMENSIONAL DRAWINGS

Data Book

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	Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING		Umidificatore a vapore Steam humidifier (kg)	Setti afonici Silencer (kg)	Filtri assoluti Absolute filters (kg)	Serranda di sicurezza Safety damper (kg)	Camera di miscelazione a 3 vie 3-ways mixing chamber	
	C (kg)	I (kg)	B (kg)	Pco (kg)						
S-AIRME 12500 AR	644	656	667	109	170	230	185	195	99	380
S-AIRME 12500 MF	695	706	718	147	170	230	185	195	99	380

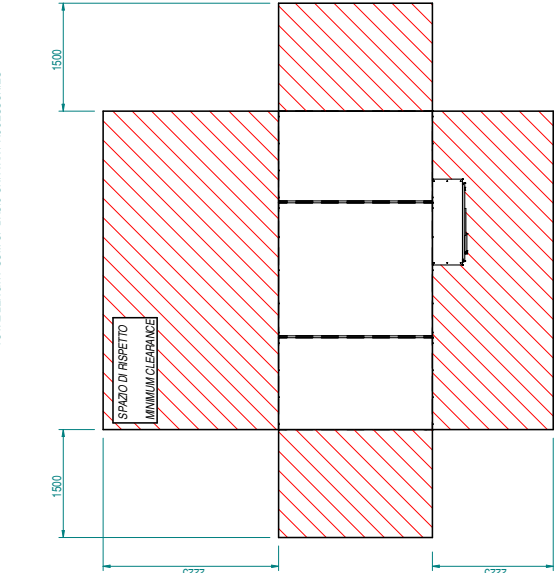
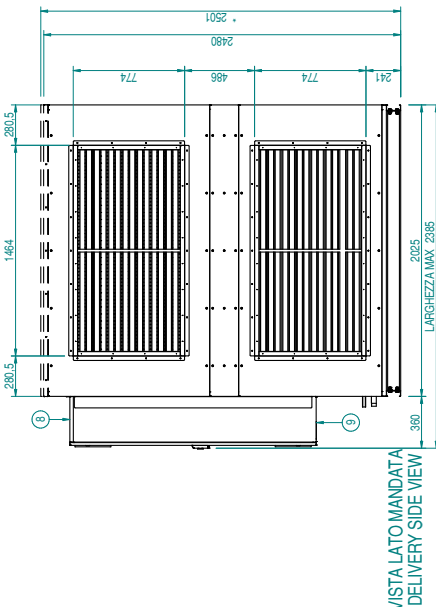
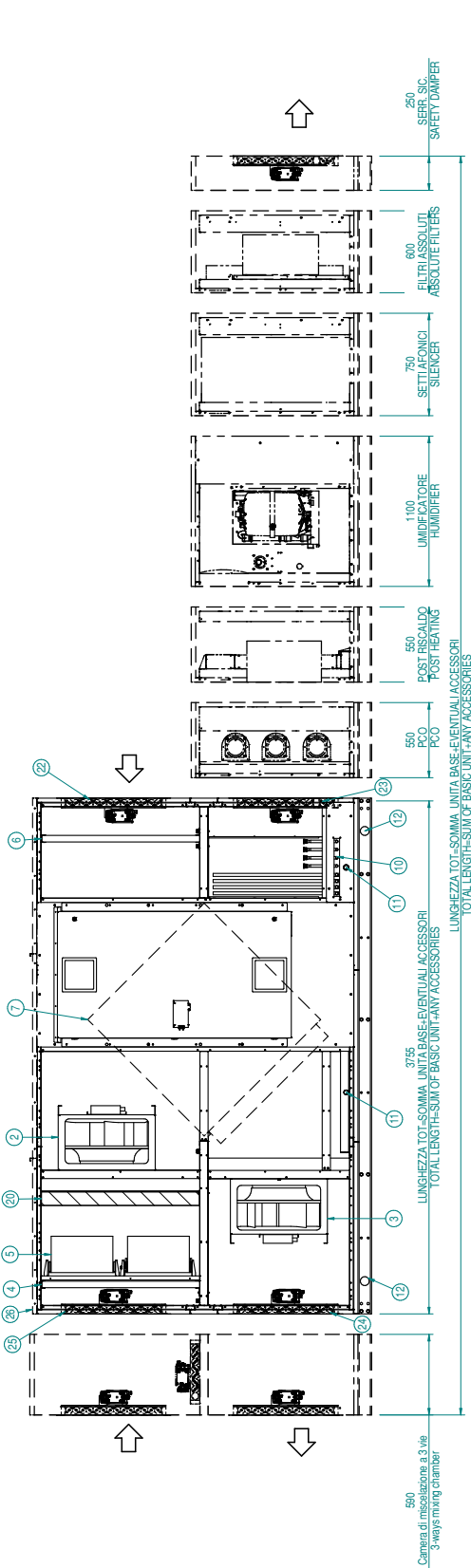


DIMENSIONAL DRAWINGS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

S-AIRME 12500 HR-P	Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING			Umidificatore a vapore		Filtri assoluti		Serranda di sicurezza		Camera di miscelazione a 3 vie	
	C (kg)	I (kg)	B (kg)	Pco (kg)	Post riscaldamento elettrico	Water post-heating (Kg)	Steam humidifier (kg)	Silencer (kg)	Absolute filters (kg)	Safety damper (kg)	3-ways mixing chamber		
	1750	1770	1800	109	147	170	230	185	195	99			380



NOTE:
* DIMENSIONI CON KIT TETTO (SU RICHIESTA)
* DIMENSIONS WITH ROOF KIT (ON REQUEST)

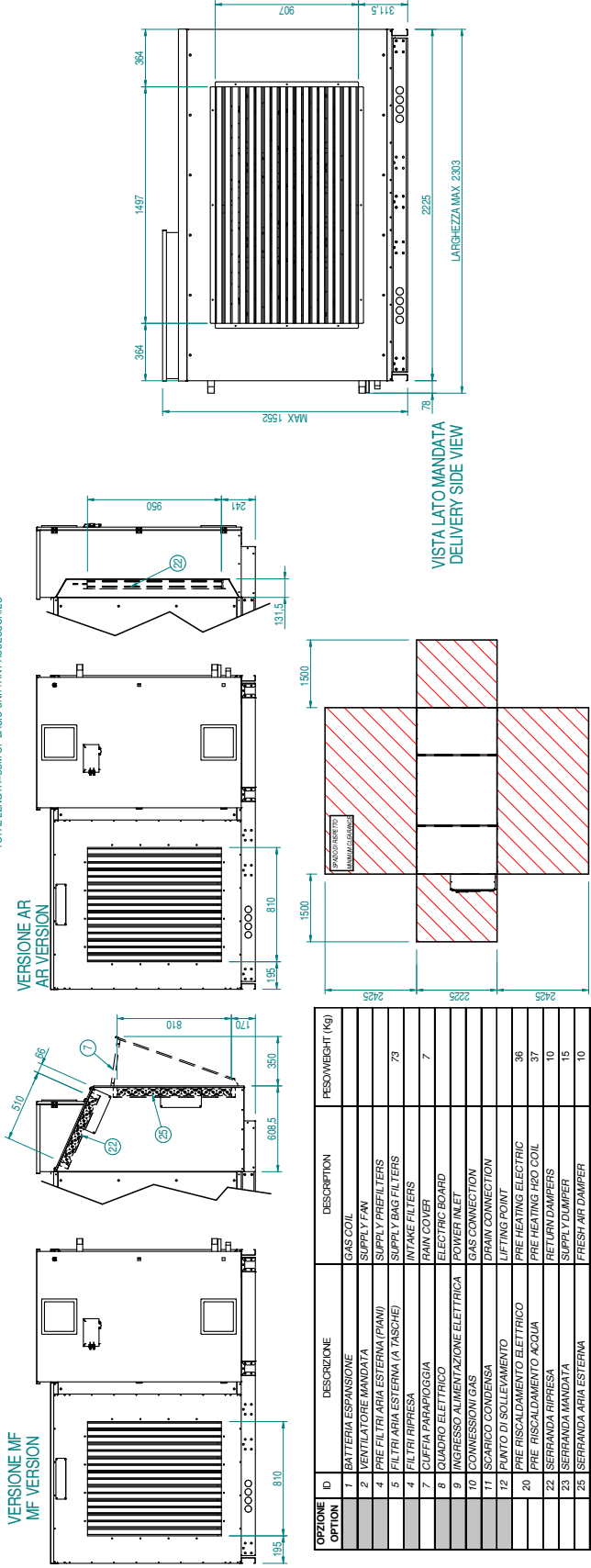
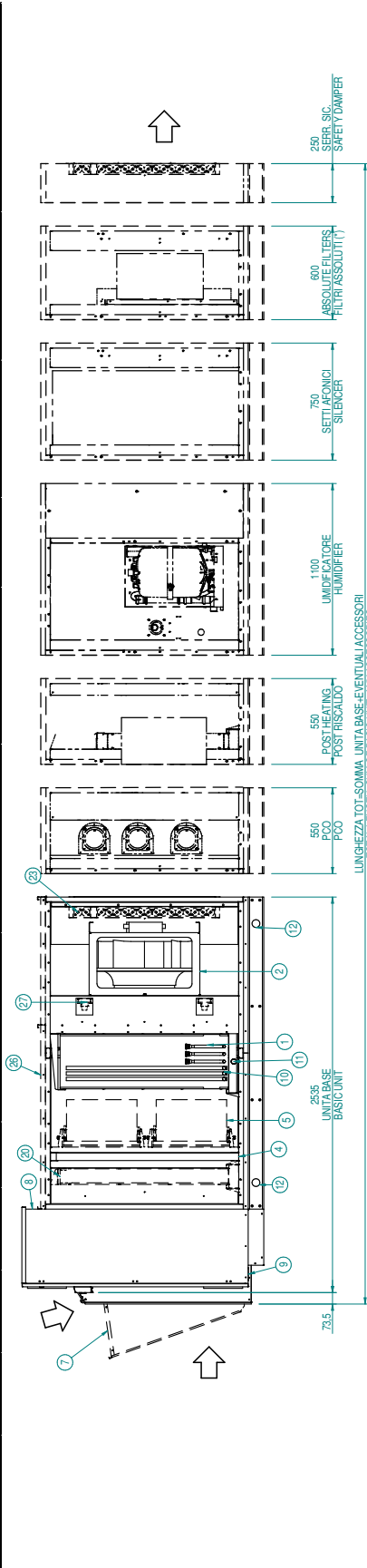
OPZIONE OPTION	D	DESCRIZIONE DESCRIPTION	PESOWEIGHT (kg)
	1	BATTERIA ESPANSIONE	
	2	VENTILATORE MANDATA	
	3	PRE-FILTRARIA ESTERNA	
	4	PRE-FILTRARIA ESTERNA (PIANI)	
	5	FILTRI ARIA ESTERNA (A TASCHE)	50
	6	FILTRI RIFRESA	
	7	RECUPERO A PASTRE	
	8	QUADRO ELETTRICO	
	9	INGRESSO ALIMENTAZIONE ELETTRICA	
	10	CONNESSIONI GAS	
	11	SCARICO CONDENZA	
	12	PUNTO DI SOLLEVAMENTO	
	20	PRE RISCALDAMENTO ELETTRICO	33
	21	PRE RISCALDAMENTO ACQUA	33
	22	SERRANDA RIPRESA	15
	23	SERRANDA MANDATA	15
	24	SERRANDA ESPULSIONE	15
	25	SERRANDA ARIA ESTERNA	15
	26	TETTO	55

DIMENSIONAL DRAWINGS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

	Unità Base/Basic unit (Kg)		POST RISCALDO/POST HEATING			Camera di miscelazione a 3 vie 3-ways mixing chamber
	C (Kg)	I (Kg)	Post riscaldamento elettrico Electric post-heating (kg)	Post riscaldamento ad acqua Water post-heating (Kg)	Umidificatore a vapore Steam humidifier (Kg)	
S-AIRME 15000 AR	730	758	172	188	266	420
S-AIRME 15000 MF	784	812	119		206	



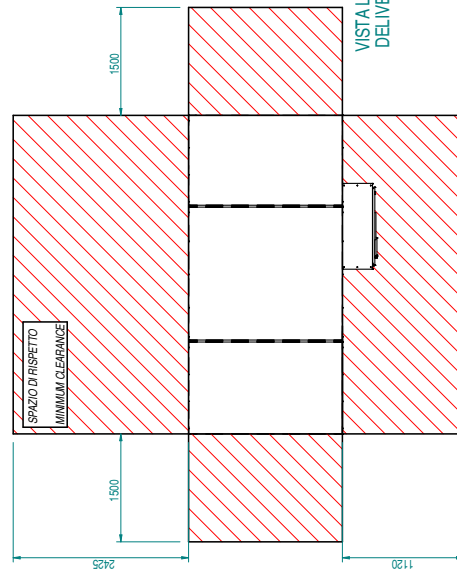
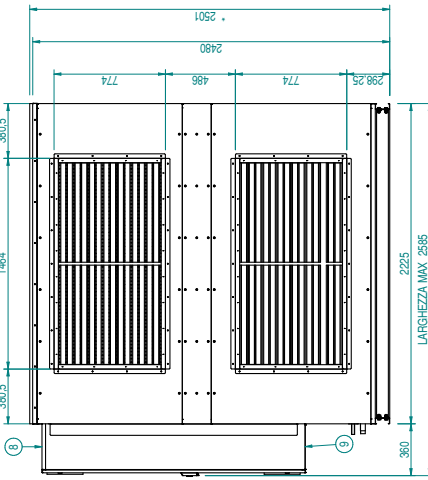
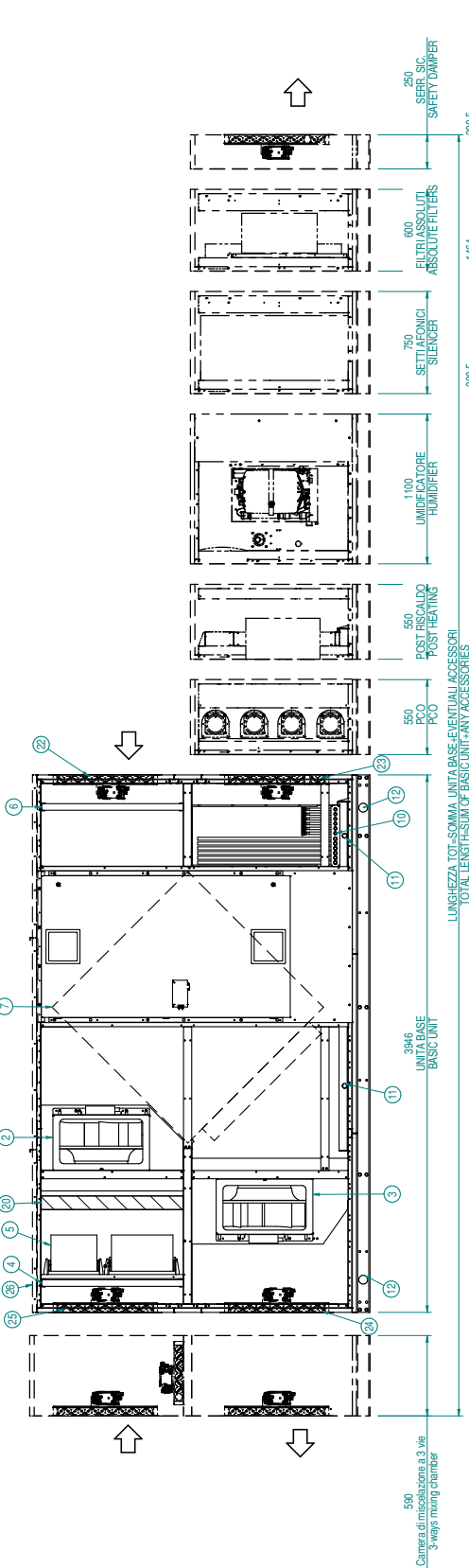
OPZIONE / OPTION	ID	DESCRIZIONE / DESCRIPTION	PERICOLO / WEIGHT (Kg)
	1	BATTERIA ESPANSIONE / GAS COIL	
	2	VENTILATORE MANDATA / SUPPLY FAN	
	3	PRE FILTRI ARIA ESTERNA (PIANI) / SUPPLY PREFILTERS	
	4	FILTRI ARIA ESTERNA (A TASCHE) / SUPPLY BAG FILTERS	73
	5	FILTRI RISPRESA / INTAKE FILTERS	
	6	CUFFIA PARAFUOGGIO / RAIN COVER	
	7	QUADRO ALIMENTAZIONE ELETTRICA / ELECTRIC BOARD	7
	8	INGRESSO ALIMENTAZIONE GAS / GAS CONNECTION	
	9	CONNESSIONI GAS / GAS CONNECTION	
	10	SCARICO CONDENSATA / DRAIN CONNECTION	
	11	PUNTO DI SOLLEVAMENTO / LIFTING POINT	
	12	PRE RISCALDAMENTO ELETTRICO / PRE HEATING ELECTRIC	36
	13	PRE RISCALDAMENTO ACQUA / PRE HEATING WATER COIL	37
	14	SERRANDA RIPRESA / RETURN DAMPERS	10
	15	SERRANDA MANDATA / SUPPLY DAMPER	15
	16	SERRANDA ARIA ESTERNA / FRESH AIR DAMPER	10
	17	TETTO / ROOF	32
	18	LAMPADE UV / UV LAMPS	18

DIMENSIONAL DRAWINGS

Data Book

DB_ME_AIRME 3000 - 20000_012024_EN

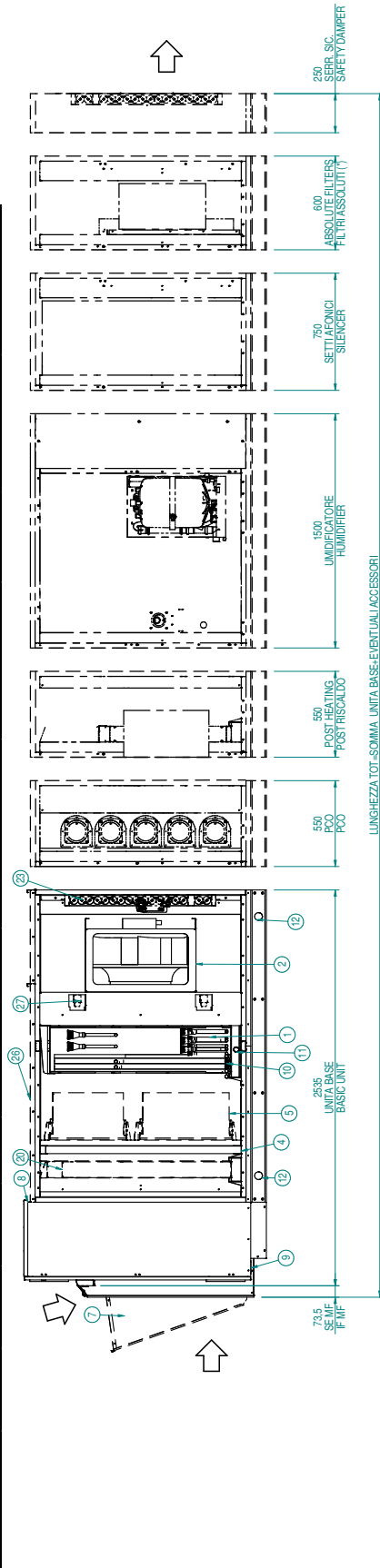
S-AIRME 15000 HR-P	Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING		500 Camera di miscelazione a 3 vie 3-ways mixing chamber	
	C (kg)	2100	I (kg)	2130		
	B (kg)	2150	Pco (kg)	119	Serranda di sicurezza Safety damper (kg)	106
			Post riscaldamento elettrico Electric post-heating (kg)	172	Filtri assoluti Absolute filters (kg)	237
			Post riscaldamento ad acqua Water post-heating (kg)	188	Setti afonici Silencer (kg)	206
					Umidificatore a vapore Steam humidifier (kg)	266
					Camera di miscelazione a 3 vie 3-ways mixing chamber	420



OPZIONE OPTION	D	DESCRIZIONE	DESCRIPTION	PIESOWEIGHT (kg)
	1	BATTERIA ESPANSIONE	GAS COIL	
	2	VENTILATORE MANDATA	SUPPLY FAN	
	3	VENTILATORE ESPISSIONE	INTAKE FAN	
	4	PRE-FILTRARIA ESTERNA (PIANI)	SUPPLY PRE-FILTERS	
	5	FILTRI ARIA ESTERNA (A TASCHE)	SUPPLY BAG FILTERS	55
	6	FILTRI RIPRESA	INTAKE FILTERS	
	7	RECUPERO A PASTRE	PLATES RECOVERY	
	8	QUADRO ELETTRICO	ELECTRIC BOARD	
	9	INGRESSO ALIMENTAZIONE ELETTRICA	POWER INLET	
	10	CONNESSIONI GAS	GAS CONNECTION	
	11	SCARICO CONDENZA	DRAIN CONNECTION	
	12	PUNTO DI SOLLEVAMENTO	LIFTING POINT	36
	20	PRE-RISCALDAMENTO ELETTRICO	PRE-HEATING ELECTRIC	37
		PRE-RISCALDAMENTO ACQUA	PRE-HEATING H2O COIL	15
	23	SERRANDA RIPRESA	RETURN DAMPERS	15
	24	SERRANDA MANDATA	SUPPLY DAMPER	15
	25	SERRANDA ESPISSIONE	EXHAUST AIR DAMPER	15
	26	SERRANDA ARIA ESTERNA	FRESH AIR DAMPER	60
		TETTO	ROOF	

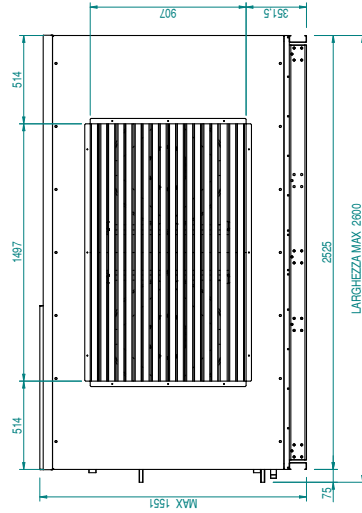
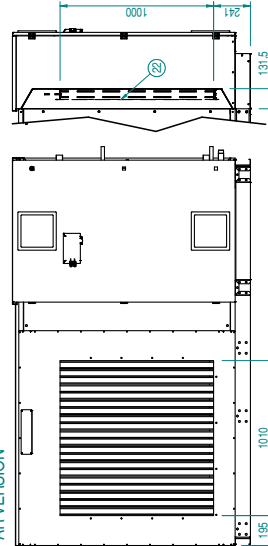
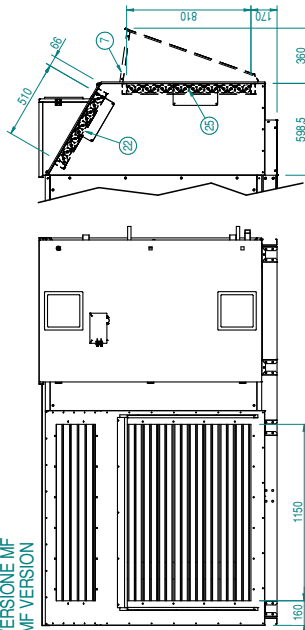
NOTE:
* DIMENSIONI CON KIT TETTO (SU RICHIESTA)
* DIMENSIONS WITH ROOF KIT (ON REQUEST)

	Unità Base/Basic unit (kg)		POST RISCALDO/POST HEATING		Serranda di sicurezza Safety damper (Kg)
	C (kg)	I (kg)	Post riscaldamento elettrico Electric post-heating (kg)	Post riscaldamento ad acqua Water post-heating (kg)	
S-AIRME 20000 AR	841	866	186	214	115
S-AIRME 20000 MF	898	923	131		



VERSIONE MF
MF VERSION

VERSIONE AR
AR VERSION



VISTALATO MANDATA
DELIVERY SIDE VIEW

OPZIONE / OPTION	ID	DESCRIZIONE / DESCRIPTION	PESO/WEIGHT (kg)
	1	BATTERIA ESPANSIONE / GAS COIL	
	2	VENTILATORE MANDATA / SUPPLY FAN	
	4	PRE FILTRI ARIA ESTERNA (FRANI) / SUPPLY PREFILTERS	
	5	FILTRI ARIA ESTERNA (A TASCHE) / SUPPLY BAG FILTERS	80
	4	FILTRI RIPRESA / INTAKE FILTERS	
	7	CUFFIA PARAPIOGGIA / RAIN COVER	
	8	QUADRO ALIMENTAZIONE ELETTRICA / ELECTRIC BOARD	8
	9	INGRESSO ALIMENTAZIONE ELETTRICA / POWER INLET	
	10	CONNESSIONI GAS / GAS CONNECTION	
	11	SCARICO CONDENSA / DRAIN CONNECTION	
	12	PUNTO DI SOLLEVAMENTO / LIFTING POINT	
	20	PRE RISCALDAMENTO ELETTRICO / PRE HEATING ELECTRIC	42
		PRE RISCALDAMENTO ACQUA / PRE HEATING P20 COIL	51
	22	SERRANDA RIPRESA / RETURN DAMPERS	15
	23	SERRANDA MANDATA / SUPPLY DAMPER	11
	25	SERRANDA ARIA ESTERNA / FRESH AIR DAMPER	35
	26	TETTO / ROOF	20
	27	LAMPADE UV / UV LAMPS	20

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