

Data Book

Data Book

DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN_rev00 R454B

ELCA_Engine ver.4.8.12.0



S-MEXT-G06-M1 06LA - 18LB

21,0-52,9 kBtu/h

Indoor evaporating unit for IT Cooling application. For connection to P-Series outdoor condensing unit.



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

1	CERTIFICATIONS	pg.5
1.1	Voluntary product certifications	pg.5
2	PRODUCT FEATURES	pg.6
2.1	General characteristics	pg.6
2.2	Installation	pg.7
3	MODEL IDENTIFICATION	pg.9
4	UNIT DESCRIPTION	pg.10
4.1	Standard unit composition	pg.10
4.2	Standard equipment	pg.13
4.3	Electronic controller	pg.17
5	GENERAL TECHNICAL DATA	pg.20
5.1	Technical data - general technical data	pg.20
5.2	Technical data - fans	pg.23
6	OPERATING LIMITS	pg.24
6.1	Operating limits - graphs	pg.24
7	REFRIGERANT DIAGRAMS	pg.25
7.1	Diagram of refrigerant	pg.25
7.2	Installation diagram	pg.28
8	ELECTRIC DATA	pg.29
8.1	Technical data - electrical data	pg.29
9	ACOUSTIC DATA	pg.30
9.1	Technical data - sound levels	pg.30
10	ACCESSORIES	pg.35
10.1	Available accessories	pg.35
10.2	Technical data - electrical heater	pg.50
10.3	Technical data - humidifiers	pg.52
10.4	Technical data - air filters	pg.52
11	DIMENSIONAL DRAWINGS	pg.54

11.1 Units drawing	pg.54
12 ATTACHMENTS	pg.58
12.1 Hole in the raised floor for downflow version	pg.58
12.2 Examples of calculation of the sound emission of units	pg.59
13 SHIPMENT	pg.63
13.1 Info - packaging of units for shipment	pg.63
13.2 Technical data - packaging dimensions of the units being shipped	pg.63
13.3 Technical data - weights of shipping units	pg.64

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The units highlighted in this publication contain R454B [GWP₁₀₀ 466] fluorinated greenhouse gases.

LEGEND

ELCA_Engine ver.4.8.12.0

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

Functions



COOLING

Cooling

Fan



EC FAN

EC Fan

1.1 Voluntary product certifications



- ETL Listed Certificate for North America



AHRI - DATACOM program

2.1 General characteristics

Unit Description

S-MEXT-G06-M1

Indoor evaporating unit for Precision Air Conditioning in:

- Small Data Centers
- UPS rooms
- Batteries rooms
- Distribution rooms
- Any area within a Data Center requiring dedicated air conditioning service

This unit features state-of-the-art components ensure high reliability and precise temperature control, adapting to thermal load variations thanks to the BLDC inverter compressor.

Its design and internal layout offer excellent application flexibility, with front access to key components for easy inspection and maintenance.

Each unit undergoes final assembly and testing before shipment, including operational testing, parameter monitoring, alarm simulation, and visual inspection. The series is available for use with R454B refrigerant.



Product features and benefits

- Compatible with R454B
- Improvement of the control software with advanced logic;
- Quick and easy installation.
- Plug fans equipped with EC electric motors and aluminum or composite impellers, ensuring reduced power consumption
- New maintenance free fan motor;
- Variable airflow based on thermal load;

The S-MEXT-G06-M1 units are designed for operation with "P-Series" outdoor condensing units in the PUZ/PUY versions for refrigerant R454B.

For all the technical information of external condensing units, please refer to the Data Book and Manuals of "P-Series" series.

2.2 Installation

The extreme flexibility allows top installation perfectly adapting to every requirement of the plant with two available air supply configurations for the indoor unit:

AIR SUPPLY (U - UNDER)

Application suitable for server racks with vented front and rear doors.

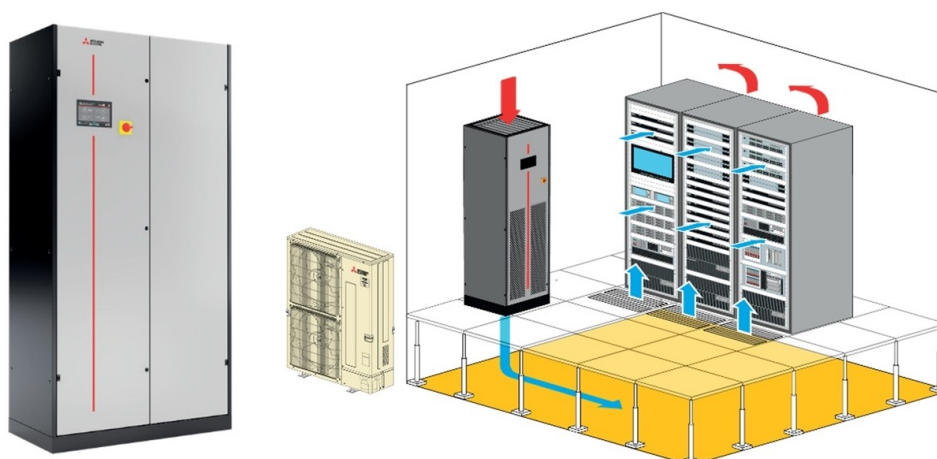
Air distribution is from the bottom by means of the plenum between the building floor and the raised floor.

This solution is commonly applied in hi-tech air conditioning, and it is most effective when load is evenly distributed throughout the room.

The air distribution is achieved by special tiles placed in front of the racks row, creating a cold aisle for air diffusion.

Hot air is expelled from the rear of the racks and then drawn in by the unit.

For optimal installation cold aisle containment is recommended.

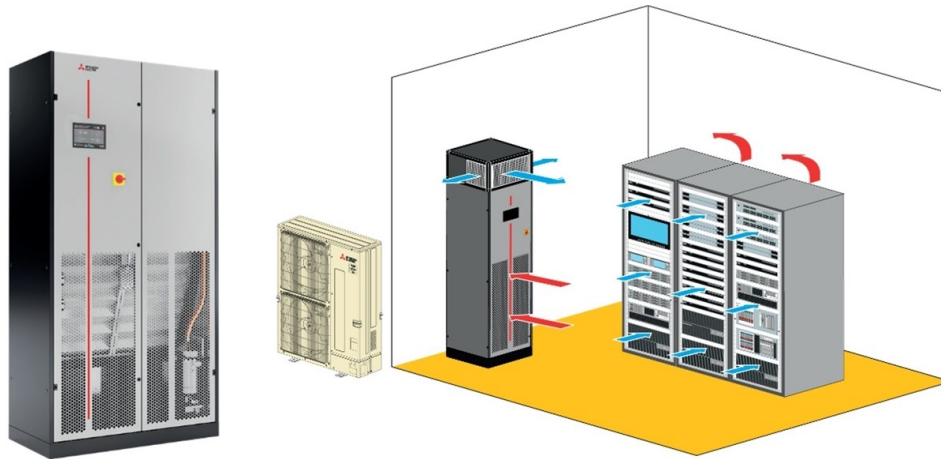


PRODUCT FEATURES

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

OVER AIR SUPPLY (O - OVER)

Application suitable for server racks with vented front and rear doors.
 The air distribution is from the top of the unit directly into the room by a plenum (or duct).
 The supply air flow can be directed through the adjustable fins of the plenum grilles.
 This system is typically used in environments where a raised floor is not feasible.



MINIMUM INSTALLATION AREA FOR UNITS WITH R454B

In case of installation in confined rooms, it's necessary to grant a minimum installation area in order to prevent any above-limits concentrations in case of R454B refrigerant leakage.
 The unit should be placed in a room that meets the minimum surface requirements specified in the following matrix.

System installation complies with UL 60335-2-40 standards.

Min installation AREA			Min dispersal volume ft ³ [m ³]			Min AIR flow		
ft ² [m ²]			VED = mc / (CF*LFL)			ft ³ /min [m ³ /h]		
006 F1	013 F1	018 F2	006 F1	013 F1	018 F2	006 F1	013 F1	018 F2
150.7 [14]	258.3 [24]	333.7 [31]	1264.6 [35,81]	1503.3 [42,57]	1670.3 [47,3]	316.18 [537,2]	375.86 [638,6]	417.59 [709,5]

3.1 Model identification

THE S-MEXT-G06-M1 SERIES

The units have been designed for a quick and easy getting up. The installation requires only electrical and refrigerant connections.

The series is suitable for operation with R454B refrigerant.

A range of accessories allows to control the room temperature even in heating by electric heaters and, if necessary, also, the humidity control by a modulating steam humidifier.

The units highlighted in this publication contain fluorinated greenhouse gases.

- HFC R454B [GWP100 2088]

S-MEXT-G06-M1-O-006LA

INDOOR UNIT:

S-MEXT-G06-M1.....Series

O.....Air delivery

.....O = up flow air delivery

.....U = downflow air delivery

13L Model / Cooling capacity (kW) at nominal conditions

A Pre-configured unit version

✓ **SKU: S-MEXT-G06-M1-x-xxLA (Base model)**

- WITH CLOGGED FILTER SENSOR
- WITH WATER LEAKAGE DETECTOR
- MERV8 AIR FILTER
- DELIVERY AIR CONTROL
- 7" TOUCH SCREEN

✓ **SKU: S-MEXT-G06-M1-x-xxLB (W/Accessories)**

- WITH CLOGGED FILTER SENSOR
- WITH WATER LEAKAGE DETECTOR
- MERV8 AIR FILTER
- DELIVERY AIR CONTROL
- 7" TOUCH SCREEN
- STEAM HUMIDIFIER 3kg/h UM03
- DEHUMIDIFICATION FUNCTION
- T/RH AIR INTAKE SENSOR
- BASIC ELECTRIC HEATER

STORING TEMPERATURE

If the unit is not installed on receipt and must be stored for an extended period, it should be kept in a protected area, at temperature between -22°F / [-30°C] and 115°F / [46°C] free from surface condensation and direct sunlight.

4.1 Standard unit composition

INTERNAL UNIT

FRAMEWORK

- Base and frame in galvanized steel, painted with epoxy powders. Colour RAL 7016. The inner frame is provided with seals for the panels;
- Panels in galvanized steel sheet with protective surfaces treatment in compliance with UNI ISO and painted with epoxy powders.
- Colour RAL 7016 hammered;
- Panels insulated with polyurethane foam based on polyester polyol with melted protective film and seals to ensure airtightness. Fire resistance rating HF1 – UL94;
- Hinged front panels with key fasteners and removable lateral and back side panels;
- All routine maintenance accessible from the front;
- Electrical Compartment located at the front of the unit for direct access to control and regulation components.
- Air flow UNDER version: Air intake from the top and air delivery from the bottom;
- Air flow OVER version: Air intake from the front through honeycomb type grille and air delivery from the top with protection guard grille.



FILTER SECTION

- Washable air filters MERV 8 with ISO Epm10 50% (ISO 16890) efficiency
- Front access to air filters for easy maintenance
- Clogged filters sensor with differential pressure switch on air side

COOLING SECTION

- Heat exchanger coil with internally corrugated copper tubes and high efficiency aluminium fins, specifically designed for optimal heat transfer and reduced pressure drop;
- Finned pack with hydrophilic treatment that assure the condensate water drop, high thermal conductivity and does not favour the micro-organisms growth;
- Frame in peraluman;
- Stainless steel condensate tray with flexible PVC discharge pipe;
- Temperature sensor on air return/delivery.
- Additional condensing tray in peraluman for the Under version;
- Water leakage detector for water presence alarm. For Over version the sensor is installed at the base inside the unit. For Under version the sensor is supplied for customer installation in the additional condensing tray;

REFRIGERANT CIRCUIT

- Sealing charge with nitrogen;
- Valves on liquid / suction lines for coupling to remote outdoor unit;
- Low pressure transducer;
- 5/16" SAE access valve with core and cap for charging on both inlet and outlet sides of the coil.

FAN SECTION

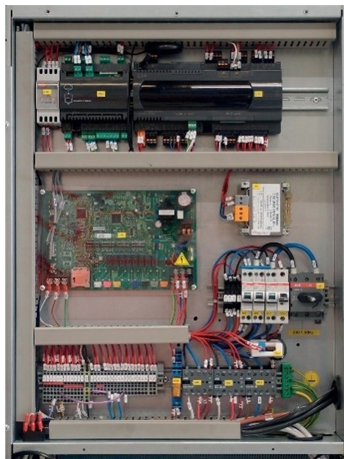
- Centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fans), directly coupled to external rotor electric motor;
- Impeller in aluminium or in composite material exempt from rust formation;
- Brushless type synchronous EC motor with integrated electronic commutated system;
- Fans speed control with 0-10V proportional signal;
- Fan protection guard grille on discharge side for Over versions;
- Available external static pressure from adjustable up to max, with air flow rate;
- Continuous fan operation, even in standby mode, to guarantee a refrigerant mix in case of leak. The fan stops only when power is disconnected or in the event of a fire alarm
- Air flow loss alarm with pressure-switch connected to pressure probe on the nozzle to set alarm in case of insufficient air flow rate, ensuring enhanced safety in case of refrigerant leakage.



ELECTRICAL PANEL

Compliant with UL-60335-2-40 standards and suitable for indoor installation. Includes::

- Main switch with door lock safety on front panel;
- Thermal-magnetic circuit breaker for supply fan;
- Transformer for auxiliary circuit and microprocessor power supply;
- Numbered electric cables;
- Interface board (PAC IF) for connection to the outdoor unit (one board per outdoor unit);
- Terminals for remote enabling, General Alarm signal and machine status;
- Power supply 208-230V / 1-phase / 60Hz (independent from the outdoor unit)



SAFETY DEVICES

- Automatic system to disconnect the power supply to fan in case of fire or smoke alarm (detectors supplied as optional)
- Leak sensor input (not supplied with the unit).
- Pressure switch for air flow loss alarm.
- Water leakage detector for water presence alarm;
- Additional condensing tray in peraluman for Under version;
- Metallic brackets to bind the unit.

MICROPROCESSOR CONTROL SYSTEM

The microprocessor control of the indoor unit manages the entire system, including the request to the outdoor unit.

INDOOR UNIT: s-MEXT-G06-M1

The indoor unit is equipped with the controller connected to a 7" "Touch screen" graphic display.

All information is shown in English or represented by easily recognizable symbols.

The controller includes "flash" memory that preserves data even during power outages. A portion of the memory is dedicated to event logging, capable of storing up to 200 recorded events.

UNIT BIND BRACKET

The bracket is supplied in mounting kit. This bracket is supplied complete with fixing bolts to the machine. This is a safety device that must be installed together with the unit and connected to a structural part in the installation site (wall, structure, etc.) to prevent the risk of unit overturning due to external causes (accidental impact, earthquake, etc.),

Wall fixing screws not supplied.

CONDENSATE TRAY (only UNDER version)

Additional condensing tray for Under flow version.

This component must be considered as a safety device to install in the floor under the unit in the event of water leaks.

The water leakage sensor is supplied to be installed at customer care in the additional condensing tray.

The tray is equipped with a water drainage system 0.87 in.

4.2 Standard equipment**"LA" BASE UNIT MAIN COMPONENTS****ADJUSTABLE ESP**

ESP can be adjusted via the microprocessor.

**CLOGGED FILTER SENSOR**

The system includes a differential pressure switch installed in the electrical panel or in the front of the indoor unit and the plastic hoses for the relief of the pressure upstream and downstream the air filters.

Control range: 0.3 ... 4.0 mbar (30 ... 400 Pa) .

Differential for intervention: 0.15 mbar (15 Pa).

**WATER LEAKAGE DETECTOR**

The system includes an electronic relay installed in the electrical panel of the machine and a water detector.

The electrical connections for the probe and the alarm contact are present in the machine's terminal board.

Sensor is supplied to be connected and installed at customer care.

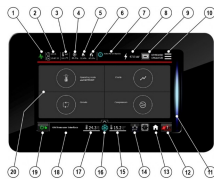
MERV8 AIR FILTER

MERV 8 (Minimum Efficiency Reporting Value) air filters are commonly used in commercial and industrial HVAC and HPAC systems to provide a balance between filtration efficiency and airflow performance.

These filters are designed to capture medium-sized airborne particles while maintaining low resistance to airflow, which is critical for high-performance cooling applications. This makes them suitable for systems where maintaining high airflow is essential for cooling performance and energy efficiency

DELIVERY AIR CONTROL

The ambient air temperature is controlled through sensors positioned on the supply airflow



COMPACT 7 INCH TOUCH SCREEN

The optional is factory installed.

7" touch-screen graphic display with 16.7 million colors for the management and monitoring of operating and alarm status.

The Display is equipped with a MicroUSB 2.0 port for the service connection.

The navigation bars are always present on the display to allow quick and intuitive navigation.

For complete information on Graphic Display system, please consult the relative technical documentation.

UNIT DESCRIPTION

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B



TOP NAVIGATION BAR

1. Status of connection with the controller. Green: connection OK; Red: connection Error
2. Time and date
3. External temperature value by dedicated probe
4. Active percentage of Cooling
5. Active percentage of Heating
6. Active percentage of Post-Heating
7. Unit active functions
8. Power meter readings
9. PGD1 keyboard emulator
10. Rapid access to the menu (Quick menu)

BOTTOM NAVIGATION BAR

11. Light bar for machine status identification
12. Alarm button to access the alarm management screen and the number of active alarms
13. Home button for returning to the Homepage
14. pLAN network
15. Temperature of outlet air or percentage of humidity.
16. Operating mode button.
17. Inlet air temperature
18. Unit status
19. On/Off button

DISPLAY AREA

20. Main menu
 - a. Operating mode and Set-Point
 - b. Circuits
 - c. Charts
 - d. Compressors

For complete information on Graphic Display system, please consult the relative technical documentation.

"LB" UNIT (W/Accessories) - ADDITIONAL ACCESSORIES OVER "LA" CONFIGURATION

STANDARD ELECTRIC HEATERS

Electric heater consisting of finned aluminum elements, ensuring low surface temperature and deleting the air ionization problems. The optional is installed downstream the main cooling coil.

In electric heaters with three working steps the activation is binary type.

Components:

- Electric heater in aluminium armoured elements with integral fins
- Electrical control
- Safety thermostat.

Temperature control on suction air.

DEUMIDIFICATION FUNCTION

The accessory "P161 T/RH air intake probe" must be present.

Components:

- T / rH air intake probe.
- Electronic dew-point temperature control system for combined intervention of cooling power output and air flow rate.



STEAM HUMIDIFIER 3kg/h UM03

Immersed electrode modulating steam humidifier equipped with electronic control with modulating steam delivery, complete with safety and operating ACCESSORIES.

A metal cover over the kettle ensures high levels of safety during operation.

Flammability safety standard UL94: V0.

The accessory includes the combined air intake temperature/humidity probe and control board.

The accessory is factory fitted and only requires a hydraulic connection for water filling.

Water is discharged from the humidifier directly into the unit's condensate drain pan and is then conveyed to the outside via the condensate drain pipe.

It is recommended to install a FILTER and a shut-off valve on the water inlet pipe.

RETURN AIR PROBE T/RH

The accessory replaces the temperature probe installed on the air intake in the indoor unit.

The probe is supplied with the following options:

- Humidifier installation.
- Dehumidification system.

4.3 Electronic controller



Controller ①



Keyboard and Display

MICROPROCESSOR CONTROL SYSTEM

The microprocessor control of the indoor unit manages the whole system, including the request to the outdoor unit.

INDOOR UNIT: s-MEXT-G06

The indoor unit is equipped with the controller connected to a 6 keys keyboard with graphic display on which all information in English language or easily identifiable symbols are displayed.

The controller disposes of a "flash" memory that preserves the information even in absence of power supply.

Part of memory is dedicated to the registration of intervened events - up to 200 events.

1 - Controller

2 - Keyboard and display

DISPLAY – KEYBOARD FUNCTIONS

The optional is factory installed.

7" touch-screen graphic display with 16.7 million colors for the management and monitoring of operating and alarm status.

The Display is equipped with a MicroUSB 2.0 port for the service connection.

The navigation bars are always present on the display to allow quick and intuitive navigation.

For complete information on Graphic Display system, please consult the relative technical documentation.

DISPLAY – MAIN MASK

The main mask shows time, date, room temperature and humidity values (if the relative probe is present) and areas for displaying operating and alarm status with dedicated icons.

area 11	area 1	area 12	HH	:	MM	DD	/	MM	/	YY
			-	9	9	.	9	°C		
	area 2		-	9	9	.	9	%		
	area 3	area 3_4				area 8				
	area 4	area 5	area 6	area 7	area 9		area 10			

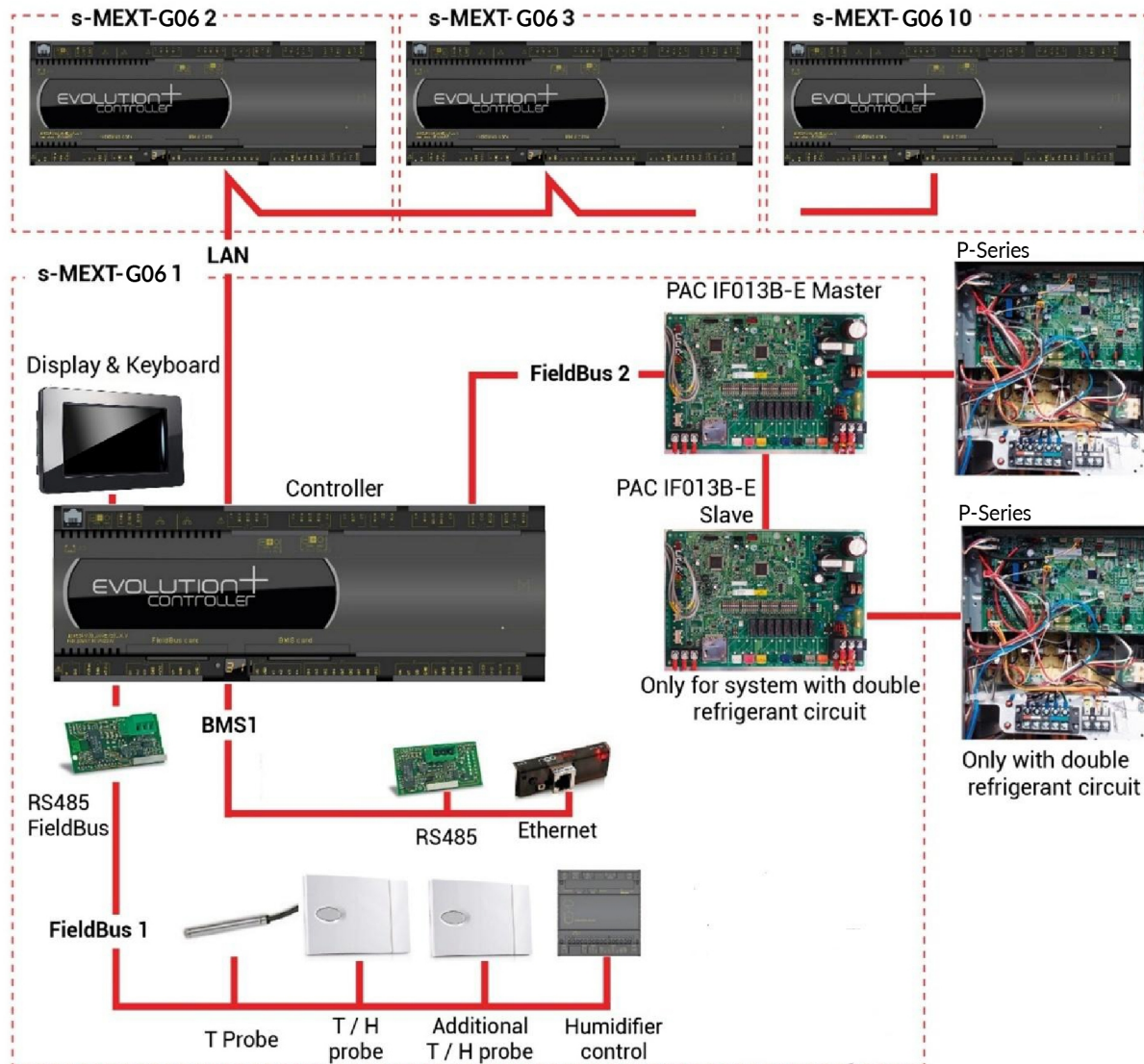
Indoor unit is connected with the outdoor unit via an interface card that allows data transfer and communication between the control systems.

OUTDOOR UNIT: P-Series

The unit is controlled by a dedicated electronic card connected with the inverter system for the compressor speed management.

UNIT DESCRIPTION

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B



GENERAL SCHEME

CONNECTIVITY

BMS 1: connection to BMS via serial port:

- ModBUS/ RS 485;
- BACnet per Ethernet - SNMP - TCP/IP;

Fieldbus 1: MODBUS serial port for probes, transducers connection or other devices;

Fieldbus 2: MODBUS serial port for connection to interface card PAC IF013B-E;

LAN: LAN network up to 10 units.

LAN NETWORK (max 10 units)

The LAN connection allows to perform the following functions:

- Balance operating hours among the different units by rotating the reserve unit (Stand-by);
- Turn-on the reserve unit in case other units off due to alarm, maintenance or power feed interruption;
- Turn-on reserve unit to offset the excessive thermal load;
- Checking up to 10 units with a single user terminal (shared user terminal); Electrical connections are in electrical panel connecting terminals.

TEMPERATURE CONTROL IN COOLING MODE

The request for cooling is calculated by the indoor unit based on the value of the supply air temperature (regulation on supply air temperature) with PID regulator (0-100%).

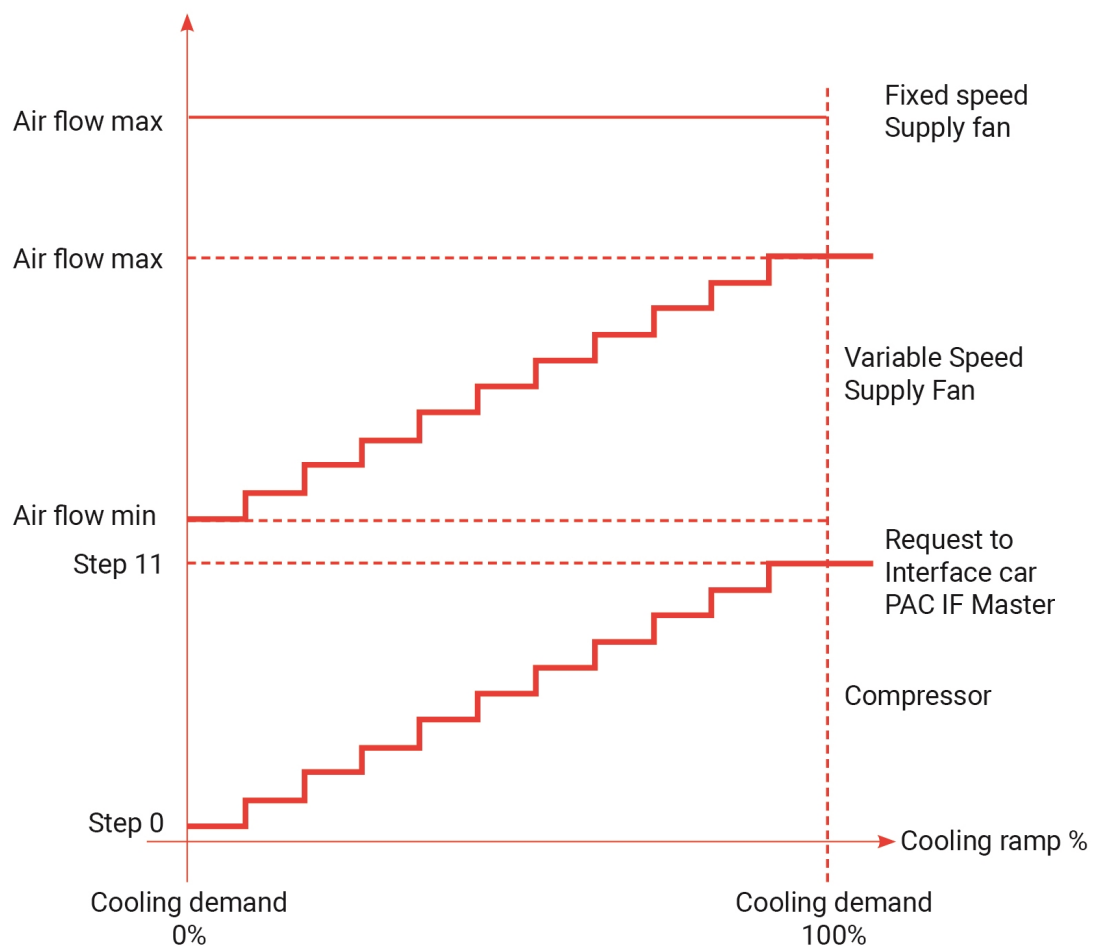
The request is converted into 11 steps for the compressor management.

The controller of the indoor unit sends the signal corresponding to the cooling capacity required to the PAC IF card which transmits the request to the outdoor unit.

AIR FLOW CONTROL IN COOLING MODE

A constant air flow is maintained, independently of the control signal (fixed speed supply fan).

Alternatively, the air flow modulates according to the cooling request (variable speed supply fan).



5 GENERAL TECHNICAL DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

5.1 Technical data - General technical data

INDOOR UNIT							
Version	(1)	O	O	O	O	O	O
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
Power supply	[V/ph/Hz]	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
PERFORMANCE AT DESIGN CONDITIONS							
MAIN CIRCUIT - DIRECT EXPANSION AIR COOLED							
Total cooling capacity gross	(2)(3) [kBtu/h]	21,0	21,0	35,6	35,6	50,2	50,2
Sensible cooling capacity gross	(2)(3) [kBtu/h]	20,7	20,7	32,5	32,5	48,9	48,9
Net cooling capacity	(2)(3) [kBtu/h]	20,6	20,6	35,0	35,0	49,1	49,1
Net sensible cooling capacity	(2)(3) [kBtu/h]	20,3	20,3	31,9	31,9	47,8	47,8
SHR	(2)(3)(4)	0,99	0,99	0,91	0,91	0,97	0,97
EER total	(2)(3)(5) [Btu/Wh]	12,5	12,5	10,1	10,1	8,74	8,74
Total power input (Comp.+fans)	(2)(3) [kW]	1,68	1,68	3,52	3,52	5,75	5,75
Leaving air temperature	[°F]	59	59	56	56	57	57
Leaving air relative humidity	[%]	73	73	79	79	79	79
FANS							
Fans type		AXIAL EC	AXIAL EC	EC RADIAL	EC RADIAL	AXIAL EC	AXIAL EC
Quantity	[N°]	1	1	1	1	2	2
Air flow	(2) [cfm]	1177	1177	1530	1530	2413	2413
ESP External Static Pressure	(2) [in H2O]	0,00	0,00	0,00	0,00	0,00	0,00
Maximum available static pressure	(2) [in H2O]	1,66	1,66	2,37	2,37	1,42	1,42
Fans power input	(2) [kW]	0,12	0,12	0,19	0,19	0,33	0,33
SPF (Specific Power Factor)	(2) [W / l/s]	0,22	0,22	0,26	0,26	0,29	0,29
AIR FILTERS							
Quantity	[N°]	1	1	1	1	1	1
Filtering surface	[m²]	0,40	0,40	0,40	0,40	0,62	0,62
Filters type + Efficiency [%]		MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
Available static pressure	[Pa]	52	52	93	93	103	103
REFRIGERANT							
Refrigerant		R454B	R454B	R454B	R454B	R454B	R454B
No. Circuits	[N°]	1	1	1	1	1	1
NOISE DATA							
Sound Power	[dB(A)]	71	71	76	76	72	72
Total sound Pressure	(6) [dB(A)]	55	55	60	60	56	56
SIZE AND WEIGHT							
A	(7) [in]	23,6	23,6	23,6	23,6	39,4	39,4
B	(7) [in]	19,7	19,7	19,7	19,7	19,7	19,7
H	(7) [in]	78,0	78,0	78,0	78,0	78,0	78,0
Weight	(7) [lb]	254	262	265	273	364	373
REFRIGERATOR CONNECTIONS							
Gas delivery	[in]	-	-	-	-	-	-
Liquid return	[in]	-	-	-	-	-	-
HYDRAULIC CONNECTIONS							
Condensate discharge - Rubber pipe - Internal diameter	[in]	-	-	-	-	-	-
COUPLING UNIT EXTERNAL							
UNIT EXTERNAL							
Code		PUY(Z)-AH24NL	PUY(Z)-AH24NL	PUY(Z)-AK42NL	PUY(Z)-AK42NL	PUY(Z)-AK60NL	PUY(Z)-AK60NL
Quantity	[N°]	1	1	1	1	1	1
Power supply	[V/ph/Hz]	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60

Notes:

- 1 U, D = Under, Downflow / O, R = Over, Rearflow
 - 2 Indoor conditions: Air temperature 75°F - Humidity ratio 43% - Altitude 0,00ft
 - 3 Main circuit - Direct expansion air cooled: External air temperature 95°F
 - 4 SHR = Sensible cooling capacity gross / Total cooling capacity gross.
 - 5 The Energy Efficiency Index does not consider the outdoor unit
 - 6 Average sound pressure level, at 3,28ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.
 - 7 Unit in standard configuration, without optional accessories.
- : Not available

GENERAL TECHNICAL DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

INDOOR UNIT							
Version	(1)	O	O	O	O	O	O
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
FANS							
Quantity	[N°]	1	1	2	2	2	2
Fans power input	[kW]	0,07	0,07	0,15	0,15	0,40	0,40
Air flow for fan	[cfm]	1942	1942	3885	3885	4026	4026
COMPRESSORS							
Compressor type		SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
Compressors nr.	[N°]	1	1	1	1	1	1
Compressors power absorption	[kW]	1,49	1,49	3,18	3,18	5,02	5,02
REFRIGERANT							
Refrigerant		R454B	R454B	R454B	R454B	R454B	R454B
No. Circuits	[N°]	1	1	1	1	1	1
F Gas - CO2 equivalent	[t]	1,63	1,63	2,19	2,19	2,42	2,42
Theoretical refrigerant charge	[kg]	3,50	3,50	4,70	4,70	5,20	5,20
NOISE DATA							
Sound Power	[dB(A)]	55	55	50	50	55	55
Total sound Pressure	[dB(A)]	41	41	35	35	40	40
SIZE AND WEIGHT							
Dimension A	[in]	37,4	37,4	41,3	41,3	41,3	41,3
Dimension B	[in]	13,0	13,0	14,2	14,2	14,0	14,0
Dimension H	[in]	37,1	37,1	52,7	52,7	52,7	52,7
Weight	[lb]	154	154	212	212	265	265

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

INDOOR UNIT								
Version	(1)	U	U	U	U	U	U	
Size		06LA	06LB	13LA	13LB	18LA	18LB	
Frame		F01	F01	F01	F01	F02	F02	
Power supply	[V/ph/Hz]	208-230/1 /60	208-230/1 /60	208-230/1 /60	208-230/1 /60	208-230/1 /60	208-230/1 /60	
PERFORMANCE AT DESIGN CONDITIONS								
MAIN CIRCUIT - DIRECT EXPANSION AIR COOLED								
Total cooling capacity gross	(2)(3)	[kBtu/h]	23,5	23,5	39,9	39,9	54,6	54,6
Sensible cooling capacity gross	(2)(3)	[kBtu/h]	23,1	23,1	36,7	36,7	53,6	53,6
Net cooling capacity	(2)(3)	[kBtu/h]	22,9	22,9	39,1	39,1	53,2	53,2
Net sensible cooling capacity	(2)(3)	[kBtu/h]	22,6	22,6	35,9	35,9	52,2	52,2
SHR	(2)(3)(4)		0,99	0,99	0,92	0,92	0,98	0,98
EER total	(2)(3)(5)	[Btu/Wh]	13,4	13,4	11,0	11,0	9,32	9,32
Total power input (Comp.+fans)	(2)(3)	[kW]	1,74	1,74	3,62	3,62	5,86	5,86
Leaving air temperature		[°F]	67	67	63	63	65	65
Leaving air relative humidity		[%]	58	58	63	63	62	62
FANS								
Fans type		AXIAL EC	AXIAL EC	EC RADIAL	EC RADIAL	AXIAL EC	AXIAL EC	
Quantity	[N°]	1	1	1	1	2	2	
Air flow	(2)	[cfm]	1177	1177	1530	1530	2413	2413
ESP External Static Pressure	(2)	[in H2O]	0,20	0,20	0,20	0,20	0,20	0,20
Maximum available static pressure	(2)	[in H2O]	1,66	1,66	2,37	2,37	1,42	1,42
Fans power input	(2)	[kW]	0,16	0,16	0,23	0,23	0,40	0,40
SPF (Specific Power Factor)	(2)	[W / l/s]	0,28	0,28	0,32	0,32	0,35	0,35
AIR FILTERS								
Quantity	[N°]	1	1	1	1	1	1	
Filtering surface	[m²]	0,40	0,40	0,40	0,40	0,62	0,62	
Filters type + Efficiency [%]		MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	
Available static pressure	[Pa]	102	102	143	143	153	153	

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Indoor conditions: Air temperature 85°F - Humidity ratio 32% - Altitude 0,00ft

3 Main circuit - Direct expansion air cooled: External air temperature 95°F

4 SHR = Sensible cooling capacity gross / Total cooling capacity gross.

5 The Energy Efficiency Index does not consider the the outdoor unit

GENERAL TECHNICAL DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

INDOOR UNIT							
Version	(1)	U	U	U	U	U	U
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
REFRIGERANT							
Refrigerant		R454B	R454B	R454B	R454B	R454B	R454B
No. Circuits	[N°]	1	1	1	1	1	1
NOISE DATA							
Sound Power	[dB(A)]	72	72	76	76	72	72
Total sound Pressure	(6) [dB(A)]	56	56	60	60	56	56
SIZE AND WEIGHT							
A	(7) [in]	23,6	23,6	23,6	23,6	39,4	39,4
B	(7) [in]	19,7	19,7	19,7	19,7	19,7	19,7
H	(7) [in]	78,0	78,0	78,0	78,0	78,0	78,0
Weight	(7) [lb]	254	262	265	273	364	373
REFRIGERATOR CONNECTIONS							
Gas delivery	[in]	-	-	-	-	-	-
Liquid return	[in]	-	-	-	-	-	-
HYDRAULIC CONNECTIONS							
Condensate discharge - Rubber pipe - Internal diameter	[in]	-	-	-	-	-	-
COUPLING UNIT EXTERNAL							
UNIT EXTERNAL							
Code		PUY(Z) -AH24NL	PUY(Z) -AH24NL	PUY(Z) -AK42NL	PUY(Z) -AK42NL	PUY(Z) -AK60NL	PUY(Z) -AK60NL
Quantity	[N°]	1	1	1	1	1	1
Power supply	[V/ph/Hz]	208-230/1 /60	208-230/1 /60	208-230/1 /60	208-230/1 /60	208-230/1 /60	208-230/1 /60
FANS							
Quantity	[N°]	1	1	2	2	2	2
Fans power input	[kW]	0,07	0,07	0,15	0,15	0,40	0,40
Air flow for fan	[cfm]	1942	1942	3885	3885	4026	4026
COMPRESSORS							
Compressor type		SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
Compressors nr.	[N°]	1	1	1	1	1	1
Compressors power absorption	[kW]	1,51	1,51	3,24	3,24	5,06	5,06
REFRIGERANT							
Refrigerant		R454B	R454B	R454B	R454B	R454B	R454B
No. Circuits	[N°]	1	1	1	1	1	1
F Gas - CO2 equivalent	[t]	1,63	1,63	2,19	2,19	2,42	2,42
Theoretical refrigerant charge	[kg]	3,50	3,50	4,70	4,70	5,20	5,20
NOISE DATA							
Sound Power	[dB(A)]	55	55	50	50	55	55
Total sound Pressure	[dB(A)]	41	41	35	35	40	40
SIZE AND WEIGHT							
Dimension A	[in]	37,4	37,4	41,3	41,3	41,3	41,3
Dimension B	[in]	13,0	13,0	14,2	14,2	14,0	14,0
Dimension H	[in]	37,1	37,1	52,7	52,7	52,7	52,7
Weight	[lb]	154	154	212	212	265	265

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

6 Average sound pressure level, at 3,28ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

7 Unit in standard configuration, without optional accessories.

-: Not available

GENERAL TECHNICAL DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

5.2 Technical data - Fans

Version	(1)	O	O	O	O	O	O
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
FANS							
Fans type		AXIAL EC	AXIAL EC	EC RADIAL	EC RADIAL	AXIAL EC	AXIAL EC
Quantity	[N°]	1	1	1	1	2	2
Air flow	(2) [cfm]	1177	1177	1530	1530	2413	2413
Maximum available static pressure	[in H2O]	1,66	1,66	2,37	2,37	1,42	1,42
Fans power input	(2) [kW]	0,12	0,12	0,19	0,19	0,33	0,33
SPF (Specific Power Factor)	(2) [W / l/s]	0,22	0,22	0,26	0,26	0,29	0,29

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Indoor conditions: Air temperature 75°F - Humidity ratio 43% - Altitude 0,00ft - ESP External Static Pressure 0,00in H2O

Version	(1)	U	U	U	U	U	U
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
FANS							
Fans type		AXIAL EC	AXIAL EC	EC RADIAL	EC RADIAL	AXIAL EC	AXIAL EC
Quantity	[N°]	1	1	1	1	2	2
Air flow	(2) [cfm]	1177	1177	1530	1530	2413	2413
Maximum available static pressure	[in H2O]	1,66	1,66	2,37	2,37	1,42	1,42
Fans power input	(2) [kW]	0,16	0,16	0,23	0,23	0,40	0,40
SPF (Specific Power Factor)	(2) [W / l/s]	0,28	0,28	0,32	0,32	0,35	0,35

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Indoor conditions: Air temperature 85°F - Humidity ratio 32% - Altitude 0,00ft - ESP External Static Pressure 0,20in H2O

6.1 Operating limits - Graphs

AREA "A". Machine operating envelope.

ROOM AIR CONDITIONS

Room air temperature:

57,2°F / [14°C] Minimum temperature with wet bulb
 72,5°F / [22.5°C] Maximum temperature with wet bulb
 66,2°F / [19°C] Minimum temperature with dry bulb
 95°F / [35°C] Maximum temperature with dry bulb

Room air humidity:

30%RH Minimum relative humidity
 60%RH Maximum relative humidity

OUTSIDE AIR TEMPERATURE (dry bulb):

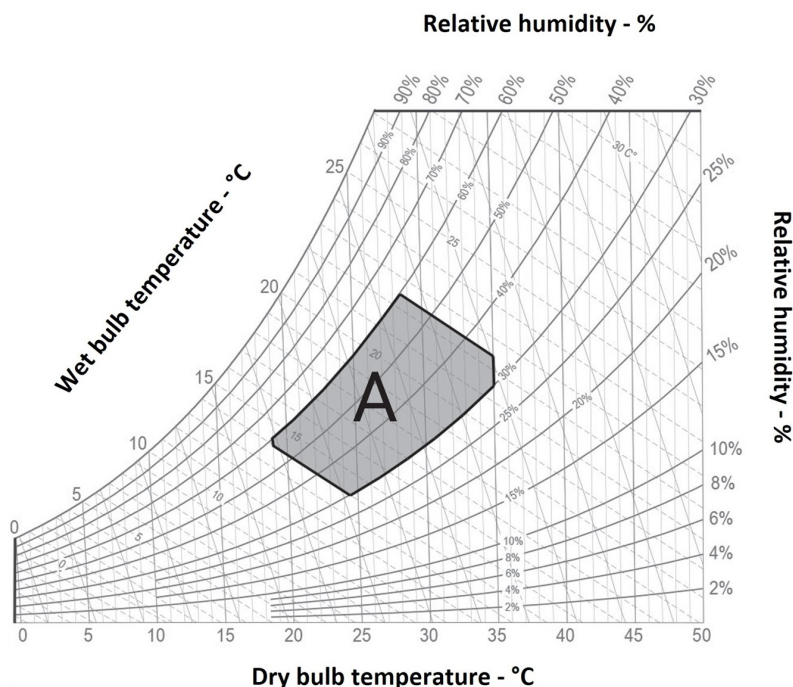
115°F / [46°C] Maximum outside air temperature.
 23°F / [-5°C] Minimum outside air temperature.
 23°F / [-5°C] Minimum external air temperature without "wind baffle" installed for unit coupled with PUZ /PUY
 0° F / [-18°C] Minimum external air temperature with "wind baffle" installed for unit coupled with PUZ
 -20° F / [-28.9°C] Minimum external air temperature with "wind baffle" installed for unit coupled with PUY

All the values are indicative. The working temperatures are influenced by a series of variables such as:

- Working conditions.
- Thermal load.
- Set of microprocessor control.
- Installation pipe length - distance between indoor and outdoor unit.

POWER SUPPLY

± 10% Maximum tolerance of the nominal supply voltage (V);
 ± 2% Maximum unbalancing of the phases.

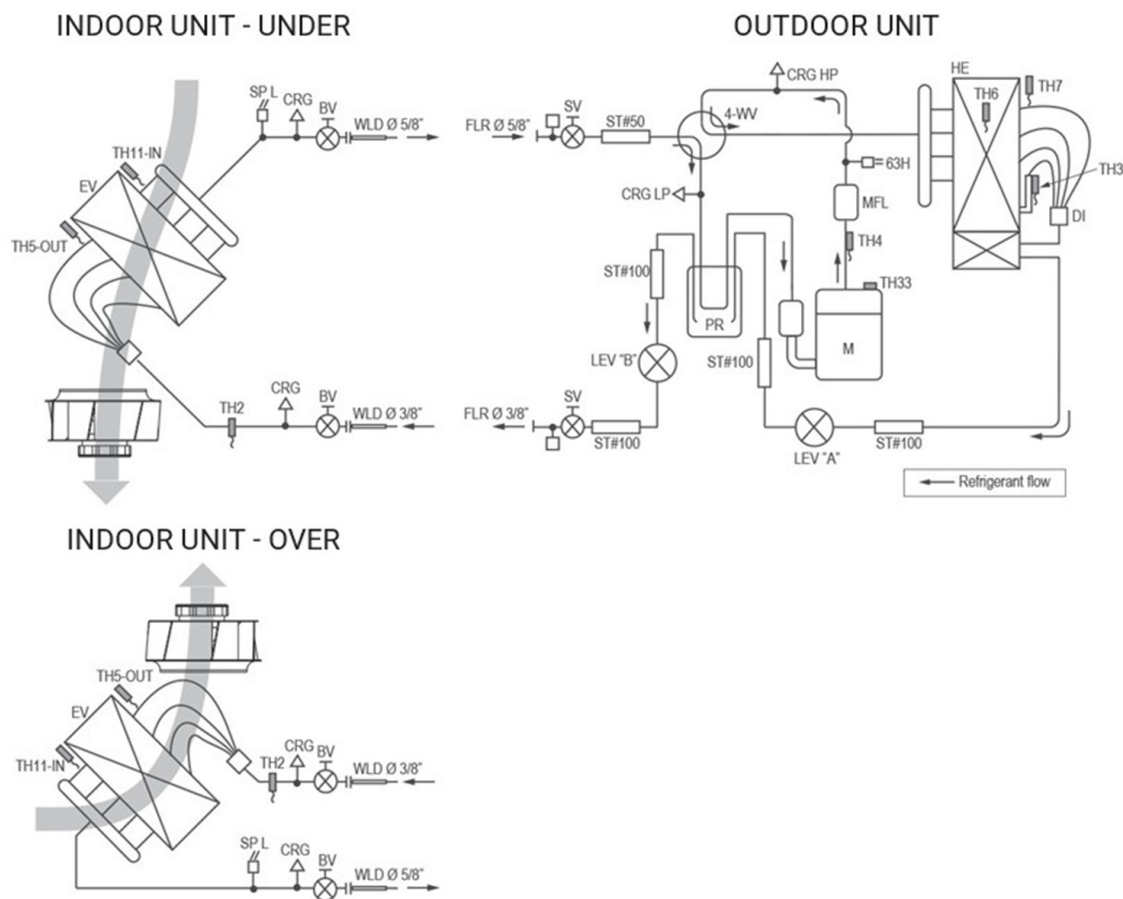


The unit fulfills EU regulation 2016/2281; in particular, the unit is in line with energy efficiency limits starting from January 1st, 2021 (ErP 2021).

7.1 Diagram of refrigerant

S-MEXT-G06-M1-06

Below refrigerant diagrams for version with single or double refrigerant circuit. The diagrams refer to the standard configuration, without optional.



LEGENDA

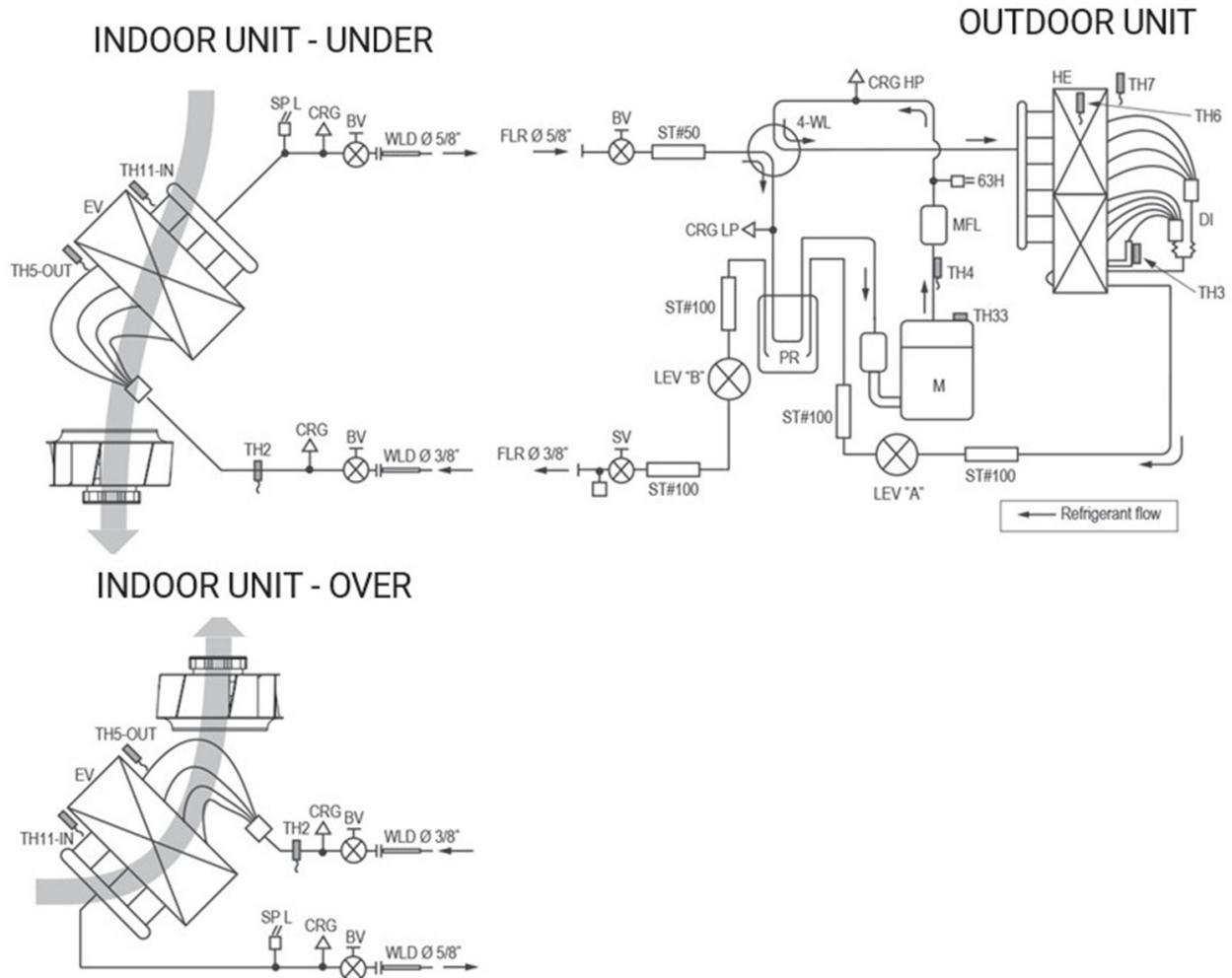
M BLDC inverter compressor
TH Thermistor
MFL Muffler
63H High pressure switch
CRG HP Charge plug on high pressure side
4-WV 4-way valve only in cooling position
HE Heat exchanger
DI Distributor
ST# Strainer
LEV Linear expansion valve
PR Power receiver
ACC Accumulator
SV Stop valve with service port
FLR FLARER connection
CRG LP Charge plug on low pressure side
WLD WELDING connection
CRG Charge plug
TH-IN Air inlet temperature probe
TH-OUT Air outlet temperature probe
EV Evaporating coil
BV Ball valve
SP L Low pressure transducer

REFRIGERANT DIAGRAMS

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

S-MEXT-G06-M1-13

Below refrigerant diagrams for version with single or double refrigerant circuit. The diagrams refer to the standard configuration, without optional.



LEGENDA

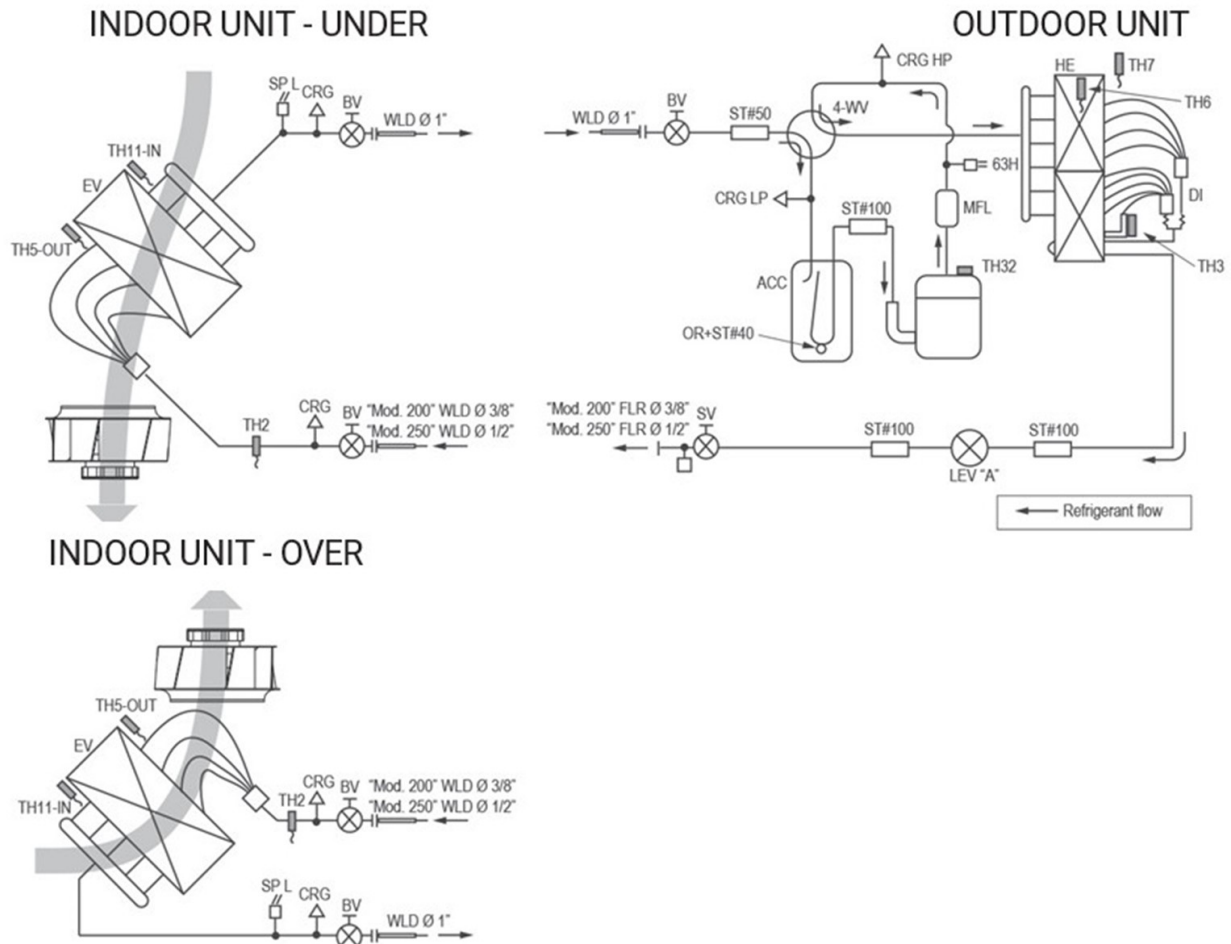
M BLDC inverter compressor
TH Thermistor
MFL Muffler
63H High pressure switch
CRG HP Charge plug on high pressure side
4-WV 4-way valve only in cooling position
HE Heat exchanger
DI Distributor
ST# Strainer
LEV Linear expansion valve
PR Power receiver
ACC Accumulator
SV Stop valve with service port
FLR FLARER connection
CRG LP Charge plug on low pressure side
WLD WELDING connection
CRG Charge plug
TH-IN Air inlet temperature probe
TH-OUT Air outlet temperature probe
EV Evaporating coil
BV Ball valve
SP L Low pressure transducer

REFRIGERANT DIAGRAMS

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

S-MEXT-G06-M1-18

Below refrigerant diagrams for version with single or double refrigerant circuit. The diagrams refer to the standard configuration, without optional.



LEGENDA

M BLDC inverter compressor
TH Thermistor
MFL Muffler
63H High pressure switch
CRG HP Charge plug on high pressure side
4-WV 4-way valve only in cooling position
HE Heat exchanger
DI Distributor
ST# Strainer
LEV Linear expansion valve
PR Power receiver
ACC Accumulator
SV Stop valve with service port
FLR FLARE connection
CRG LP Charge plug on low pressure side
WLD WELDING connection
CRG Charge plug
TH-IN Air inlet temperature probe
TH-OUT Air outlet temperature probe
EV Evaporating coil
BV Ball valve
SP L Low pressure transducer

PIPE LENGTH AND REFRIGERANT CHARGE

COOLING CAPACITY CORRECTION FACTORS ACCORDING TO REFRIGERANT PIPING LENGTH

Please refer to the P-Series manual for full technical details

PIPE LENGTH AND REFRIGERANT CHARGE

ADDITIONAL REFRIGERANT CHARGING FOR PIPE OF STANDARD DIAMETER ACCORDING TO REFRIGERANT PIPING LENGTH

Please refer to the P-Series manual for full technical details

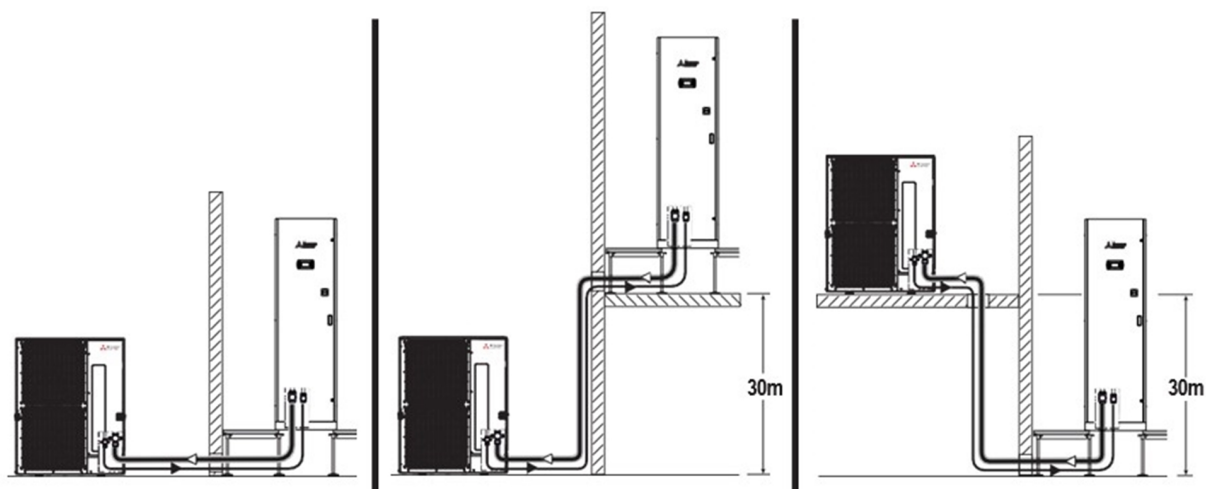
7.2 Installation diagram

DIAGRAMS VALID FOR UNDER AND OVER UNITS

APPLY THIS DIAGRAM TO EACH REFRIGERANT CIRCUIT OF THE UNIT

THE REFRIGERANT CIRCUIT DOESN'T NEED TRAPS OR PRECAUTION FOR LUBRICANT OIL RETURN TO THE COMPRESSOR

LIQUID LINE
GAS LINE - Insulated



8 ELECTRIC DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

8.1 Technical data - Electrical data

INDOOR UNIT							
Version	(1)	O	O	O	O	O	O
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
Power supply	[V/ph/Hz]	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Max Electrical power absorbed (FLI)	(2)(4) [kW]	0,48	5,33	0,50	5,35	0,96	7,11
Max absorbed current (FLA)	(2)(4) [A]	3,50	24,7	3,60	24,8	7,20	34,1
Max inrush current (SA)	(2)(4) [A]	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Power input (OI)	(2)(4) [kW]	0,12	0,12	0,19	0,19	0,33	0,33
UNIT EXTERNAL							
Code		PUY(Z) -AH24NL	PUY(Z) -AH24NL	PUY(Z) -AK42NL	PUY(Z) -AK42NL	PUY(Z) -AK60NL	PUY(Z) -AK60NL
Power supply	[V/ph/Hz]	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Max eletrical power absorbed (FLI)	(3) [kW]	1,87	1,87	3,15	2,85	4,10	4,10
Max absorbed current (FLA)	(3) [A]	15,0	15,0	23,0	23,0	16,0	16,0
Max inrush current (SA)	(3) [A]	0,00	0,00	0,00	0,00	0,00	0,00
Power input (OI)	(3) [kW]	1,56	1,56	3,33	3,33	5,42	5,42

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Indoor conditions: Air temperature 75°F - Humidity ratio 43% - Altitude 0,00ft - ESP External Static Pressure 0,00in H2O

3 Main circuit - Direct expansion air cooled: External air temperature 95°F

4 WARNING:

The electric data indicated refer only to the indoor unit.

Optional accessory electric data are included within the dedicated chapters and must be added.

Please refer to selection program to calculate the electrical data of the air conditioner according to the requested optional ACCESSORIES.

N.A.: Not available

INDOOR UNIT							
Version	(1)	U	U	U	U	U	U
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
Power supply	[V/ph/Hz]	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Max Electrical power absorbed (FLI)	(2)(4) [kW]	0,48	5,33	0,50	5,35	0,96	7,11
Max absorbed current (FLA)	(2)(4) [A]	3,50	24,7	3,60	24,8	7,20	34,1
Max inrush current (SA)	(2)(4) [A]	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Power input (OI)	(2)(4) [kW]	0,16	0,16	0,23	0,23	0,40	0,40
UNIT EXTERNAL							
Code		PUY(Z) -AH24NL	PUY(Z) -AH24NL	PUY(Z) -AK42NL	PUY(Z) -AK42NL	PUY(Z) -AK60NL	PUY(Z) -AK60NL
Power supply	[V/ph/Hz]	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Max eletrical power absorbed (FLI)	(3) [kW]	1,87	1,87	3,15	2,85	4,10	4,10
Max absorbed current (FLA)	(3) [A]	15,0	15,0	23,0	23,0	16,0	16,0
Max inrush current (SA)	(3) [A]	0,00	0,00	0,00	0,00	0,00	0,00
Power input (OI)	(3) [kW]	1,59	1,59	3,39	3,39	5,46	5,46

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Indoor conditions: Air temperature 85°F - Humidity ratio 32% - Altitude 0,00ft - ESP External Static Pressure 0,20in H2O

3 Main circuit - Direct expansion air cooled: External air temperature 95°F

4 WARNING:

The electric data indicated refer only to the indoor unit.

Optional accessory electric data are included within the dedicated chapters and must be added.

Please refer to selection program to calculate the electrical data of the air conditioner according to the requested optional ACCESSORIES.

N.A.: Not available

9 ACOUSTIC DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

9.1 Technical data - Sound levels

ACOUSTIC DATA

Acoustic data of the standard unit working at full load.

WARNING:

In a closed room the noise produced by a sound source reaches the listener in two different ways:

- Directly
- Reflected from the surrounding walls, floor, ceiling, from furniture

With the same sound source, the noise produced in a closed room is greater than that produced outdoors. In fact, the sound pressure level generated by the source, must be added to the one reflected from the room. Also, the shape of the room affects the sound.

INDOOR UNIT										
Version	(1)	O								
Size		06LA								
Frame		F01								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		70	71	69	70	64	60	57	65	71
Total sound Pressure	(2)	54	55	53	54	48	44	41	49	55
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AH24NL								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power	(4) [dB]	55	54	58	47	43	40	38	28	55
Sound Pressure	(3)(4) [dB]	41	40	44	33	29	26	24	14	41
Distance	[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT										
Version	(1)	O								
Size		06LB								
Frame		F01								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		70	71	69	70	64	60	57	65	71
Total sound Pressure	(2)	54	55	53	54	48	44	41	49	55
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AH24NL								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power	(4) [dB]	55	54	58	47	43	40	38	28	55
Sound Pressure	(3)(4) [dB]	41	40	44	33	29	26	24	14	41
Distance	[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

ACOUSTIC DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

INDOOR UNIT										
Version	(1)	O								
Size		13LA								
Frame		F01								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		66	71	74	74	70	66	71	58	76
Total sound Pressure	(2)	50	55	58	58	54	50	55	42	60
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AK42NL								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power	(4)	[dB]	56	58	57	50	40	38	40	25 50
Sound Pressure	(3)(4)	[dB]	41	43	42	35	25	23	25	10 35
Distance	[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT											
Version	(1)	O									
Size		13LB									
Frame		F01									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power		66	71	74	74	70	66	71	58	76	
Total sound Pressure	(2)	50	55	58	58	54	50	55	42	60	
Distance	[ft]	3,28									
UNIT EXTERNAL											
Code		PUY(Z) -AK42NL									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power	(4)	[dB]	56	58	57	50	40	38	40	25	50
Sound Pressure	(3)(4)	[dB]	41	43	42	35	25	23	25	10	35
Distance	[ft]	3									

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT										
Version	(1)	O								
Size		18LA								
Frame		F02								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		72	71	69	72	66	61	59	64	72
Total sound Pressure	(2)	56	55	53	56	50	45	43	48	56
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AK60NL								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

ACOUSTIC DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

INDOOR UNIT											
Version	(1)	0									
Size		18LA									
Frame		F02									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power	(4)	[dB]	57	58	55	47	43	40	37	31	55
Sound Pressure	(3)(4)	[dB]	42	43	40	32	28	25	22	16	40
Distance		[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT											
Version	(1)	O									
Size		18LB									
Frame		F02									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power		72	71	69	72	66	61	59	64	72	
Total sound Pressure	(2)	56	55	53	56	50	45	43	48	56	
Distance	[ft]	3,28									
UNIT EXTERNAL											
Code		PUY(Z) -AK60NL									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power	(4)	[dB]	57	58	55	47	43	40	37	31	55
Sound Pressure	(3)(4)	[dB]	42	43	40	32	28	25	22	16	40
Distance	[ft]	3									

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT										
Version	(1)	U								
Size		06LA								
Frame		F01								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		71	70	69	71	65	61	58	63	72
Total sound Pressure	(2)	55	54	53	55	49	45	42	47	56
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AH24NL								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power	(4) [dB]	55	54	58	47	43	40	38	28	55
Sound Pressure	(3)(4) [dB]	41	40	44	33	29	26	24	14	41
Distance	[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

ACOUSTIC DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

INDOOR UNIT										
Version	(1)	U								
Size		06LB								
Frame		F01								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		71	70	69	71	65	61	58	63	72
Total sound Pressure	(2)	55	54	53	55	49	45	42	47	56
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AH24NL								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power	(4)	[dB]	55	54	58	47	43	40	38	28
Sound Pressure	(3)(4)	[dB]	41	40	44	33	29	26	24	14
Distance	[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT										
Version	(1)	U								
Size		13LA								
Frame		F01								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		66	71	75	74	69	66	69	56	76
Total sound Pressure	(2)	50	55	59	58	53	50	53	40	60
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AK42NL								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power	(4) [dB]	56	58	57	50	40	38	40	25	50
Sound Pressure	(3)(4) [dB]	41	43	42	35	25	23	25	10	35
Distance	[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT										
Version	(1)	U								
Size		13LB								
Frame		F01								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		66	71	75	74	69	66	69	56	76
Total sound Pressure	(2)	50	55	59	58	53	50	53	40	60
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AK42NL								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

ACOUSTIC DATA

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

INDOOR UNIT											
Version	(1)	U									
Size		13LB									
Frame		F01									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power	(4)	[dB]	56	58	57	50	40	38	40	25	50
Sound Pressure	(3)(4)	[dB]	41	43	42	35	25	23	25	10	35
Distance		[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT											
Version	(1)	U									
Size		18LA									
Frame		F02									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power		73	71	69	71	65	61	59	63	72	
Total sound Pressure	(2)	57	55	53	55	49	45	43	47	56	
Distance	[ft]	3,28									
UNIT EXTERNAL											
Code		PUY(Z) -AK60NL									
NOISE DATA											
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot	
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Sound Power	(4)	[dB]	57	58	55	47	43	40	37	31	55
Sound Pressure	(3)(4)	[dB]	42	43	40	32	28	25	22	16	40
Distance	[ft]	3									

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

INDOOR UNIT										
Version	(1)	U								
Size		18LB								
Frame		F02								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power		73	71	69	71	65	61	59	63	72
Total sound Pressure	(2)	57	55	53	55	49	45	43	47	56
Distance	[ft]	3,28								
UNIT EXTERNAL										
Code		PUY(Z) -AK60NL								
NOISE DATA										
Spectrum		63	125	250	500	1000	2000	4000	8000	Tot
Unit of Measure		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Sound Power	(4) [dB]	57	58	55	47	43	40	37	31	55
Sound Pressure	(3)(4) [dB]	42	43	40	32	28	25	22	16	40
Distance	[ft]	3								

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Average sound pressure level, at #1 distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

3 Average sound pressure level, at 3ft distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

4 For the sound spectrum, see the external unit technical catalogue.

10.1 Available accessories

**T500000083 - SMOKE SENSOR**

The device is supplied in mounting kit.

The optical smoke detector senses the presence of combustion by-products (visible smoke) and activates an alarm.

The operating principle is based on the light scattering technique (Tyndall effect).

Technical features:

Material	①	ABS	Relative humidity	⑨	<93% not-condensing	⑰
Power supply	②	12...28 Vdc	Index of protection	⑩	IP 20	
Normal current	③	50µA 24 Vdc	Testing by magnet	⑪	Yes	
Alarm current	④	25mA 24 Vdc	Relay	⑫	max. 1A 30Vdc	
LED visibility	⑤	360° (double led)	Signal repeater	⑬	14mA 24 Vdc	
Storage temperature	⑥	-10...+70°C	Covered area	⑭	40m2 max.	
Operating temperature	⑦	-10...+70°C	Shielded connection	⑮	Min. 0.5 mm2	
Max. speed air	⑧	0.2 m/s	Colour	⑯	White	⑱

- 1 - Material
- 2 - Power supply
- 3 - Normal current
- 4 - Alarm current
- 5 - LED visibility
- 6 - Storage temperature
- 7 - Operating temperature
- 8 - Max. speed air
- 9 - Relative humidity
- 10 - Index of protection
- 11 - Testing by magnet
- 12 - Relay
- 13 - Signal repeater
- 14 - Covered area
- 15 - Shielded connection
- 16 - Colour
- 17 - <93% not-condensing
- 18 - White

Supplied with unit to be connected and installed at customer care close to the unit

**T500000084 - FIRE DETECTOR**

The device is supplied in mounting kit.

The fire detector has been designed to identify temperatures at which fires may start. When the temperature exceeds the set threshold or when there is a rapid variation in temperature, the relay is activated to signal an alarm.

Technical features:

Material	①	ABS	Index of protection	⑨	IP 20
Power supply	②	12...28 Vdc	Testing by magnet	⑩	Yes
Normal current	③	50µA 24 Vdc	Relay	⑪	max. 1A 30Vdc
Alarm current	④	25mA 24 Vdc	Signal repeater	⑫	14mA - 24 Vdc
LED visibility	⑤	360° (double LED)	Alarm temperature threshold	⑬	62°C
Storage temperature	⑥	-10...+70°C	Covered area	⑭	40m2 max.
Operating temperature	⑦	-10...+70°C	Shielded connection cable	⑮	Min. 0.5 mm2
Relative humidity	⑧	<93% non-condensing	Colour	⑯	White

- 1 - Material
- 2 - Power supply
- 3 - Normal current
- 4 - Alarm current
- 5 - LED visibility
- 6 - Storage temperature
- 7 - Operating temperature
- 8 - Relative humidity
- 9 - Index of protection
- 10 - Testing by magnet
- 11 - Relay
- 12 - Signal repeater
- 13 - Alarm temperature threshold
- 14 - Covered area
- 15 - Shielded connection cable
- 16 - Colour

Supplied with unit to be connected and installed at customer care close to the unit.

T500000091 - RETURN AIR PROBE T/RH

The accessory replaces the temperature probe installed on the air intake in the indoor unit.

The probe is supplied with the following options:

- Humidifier installation.
- Dehumidification system.

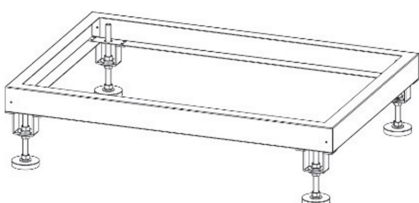


T500000092 - ADDITIONAL WATER LEAKAGE DETECTOR

The system includes an electronic relay installed in the electrical panel of the indoor machine and 2 water detectors to be connected in series.

The electrical connections for the probe and the alarm contact are present in the indoor machine's terminal board.

The sensors are supplied to be connected and installed at customer care.



(BL79901201..1403) SUPPORT FRAME

The optional is supplied in mounting kit.

It is not possible to match the base frame with plenum installed under the machine.

For a correct installation of the air conditioner we suggest you utilize a gasket between the base frame and the unit base.

The base frame is available in 3 models with 3 different heights. The optional is not suitable for installation in seismic areas.

Part no. F1

BL79901201 SUPPORT FRAME F1 H 13.78 [350]

BL79901301 SUPPORT FRAME F1 H 17.72 [450]

BL79901401 SUPPORT FRAME F1 H 20.08 [510]

Part no. F2

BL79901202 SUPPORT FRAME F2 H 13.78 [350]

BL79901302 SUPPORT FRAME F2 H 17.72 [450]

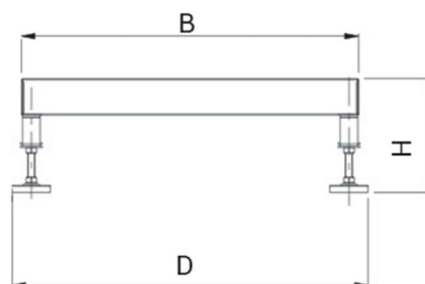
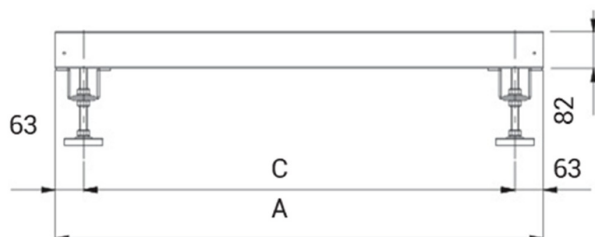
BL79901402 SUPPORT FRAME F2 H 20.08 [510]

Part no. F3

BL79901203 SUPPORT FRAME F3 H 13.78 [350]

BL79901303 SUPPORT FRAME F3 H 17.72 [450]

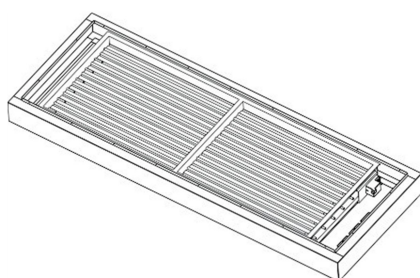
BL79901403 SUPPORT FRAME F3 H 20.08 [510]



SIZE		F1	F2	F3
VERSION (1)		U / O	U / O	U / O
A	in [mm]	23.62 [600]	39.37 [1000]	39.37 [1000]
B	in [mm]	19.69 [500]	19.69 [500]	19.69 [500]
C	in [mm]	18.66 [474]	34.41 [874]	34.41 [874]
D	in [mm]	21.3 [541]	21.3 [541]	36.65 [931]

Unit model		Hmax350	Hmax450	Hmax510
		P041	P042	P043
H min height	in [mm]	10.04 [255]	13.98 [355]	15.75 [400]
H min height	in [mm]	13.78 [350]	17.72 [450]	20.08 [510]

1. U = Under, downflow / O = Over, upflow



(T500000180...182) DAMPER WITH SPRING RETURN

Accessory installed on unit air delivery (Over flow version) or return (Under flow version) and it can be matched to plenum. The optional is not suitable for installation in seismic areas.

FRAMEWORK

- Frame in galvanized steel sheet with protective surfaces treatment in compliance with ISO 9227/ASTMB117 and ISO 7253, and painted with epoxy powders. Colour RAL 9005;
- Opposed blade dampers in galvanized steel sheet;
- Actuator for damper control with spring return;
- Terminals for electric connection to the unit

Part no.

T500000180 DAMPER WITH SPRING RETURN s-MEXT F1

T500000181 DAMPER WITH SPRING RETURN s-MEXT F2

T500000182 DAMPER WITH SPRING RETURN s-MEXT F3

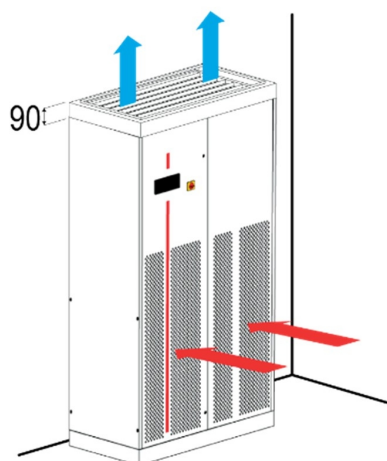
WORKING LOGIC

The damper opens at supply fans activation to allow air flow.

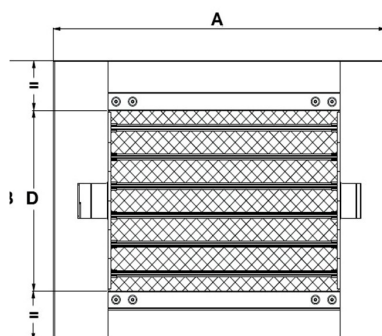
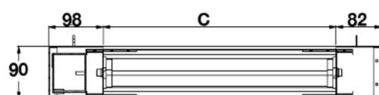
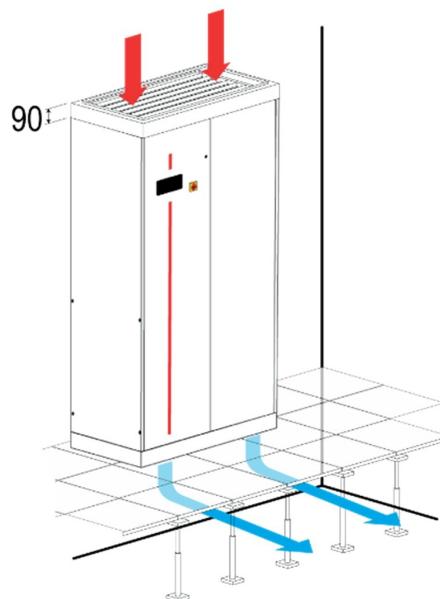
When the fans stop for failure or stop command, the damper closes, preventing air flow into the unit.

The damper closing is limited to guarantee minimum safety ventilation in the event of refrigerant leakage.

OVER



UNDER

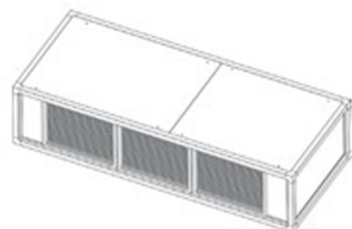
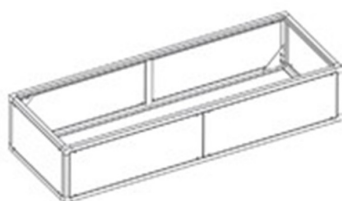


SIZE		F1	F2	F3
VERSION (	U / O	U / O	U / O	U / O
A	in [mm]	23.62 [600]	39.37 [1000]	39.37 [1000]
B	in [mm]	18.9 [480]	18.9 [480]	34.25 [870]
C	in [mm]	16.54 [420]	32.28 [820]	32.28 [820]
D	in [mm]	12.2 [310]	12.2 [310]	16.54 [420]
Weight (2)	lb [kg]	19.84 [9]	26.46 [12]	46.3 [21]

(1) U = Under, downflow / O = Over, upflow

(2) Add this value to the total unit weight

Dimensions in millimeters



(BL79900201..1103) SUPPLY / INTAKE AIR PLENUM

The accessory is supplied separately and the installation on the unit is at Customer care.

The plenums have same technical characteristics as the indoor unit cabinet.

It is possible to install only a single plenum to ensure proper stability of the unit.

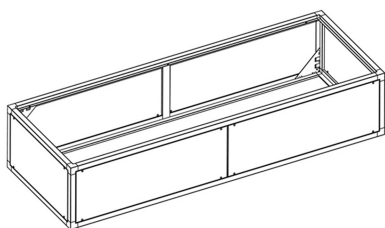
Plenums are not suitable for installation in seismic areas.

FRAMEWORK

- Frame in aluminium extrusion, powder-coated with epoxy powders. Colour RAL 7016;
- Panels in galvanized steel sheet with protective surfaces treatment in compliance with ISO 9227 / ASTM B117 and ISO 7253, powder-coated with epoxy powders. Colour RAL 7016;
- Panels insulated with polyurethane foam and seals to ensure airtight.
- Panels secured with screws.
- Removable panels for easy inspection and maintenance
- Set of fixing elements to fasten the plenum to the unit.

Available Plenum Configurations:

- Empty supply/return plenum. Also available with fire reaction in class "A1".
- Supply plenum with frontal and lateral grilles. Also available with fire reaction in class "A1".
- Plenum with soundproof baffles.
- Supply plenum with front grille and sound-absorbing baffles.



(BL79900201..303) EMPTY PLENUM

The plenum is void and can be used to rise the air inlet/outlet. Remove the frontal panels for inspection.

Also available with fire reaction in class "A1".

The optional is not suitable for installation in seismic areas.

Part no. F1
BL79900201 EMPTY PLENUM
BL79900301 EMPTY PLENUM CL.A1

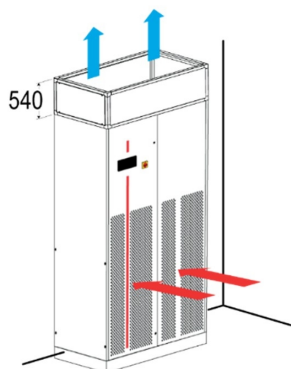
Part no. F2
BL79900202 EMPTY PLENUM
BL79900302 EMPTY PLENUM CL.A1

Part no. F3
BL79900203 EMPTY PLENUM
BL79900303 EMPTY PLENUM CL.A1

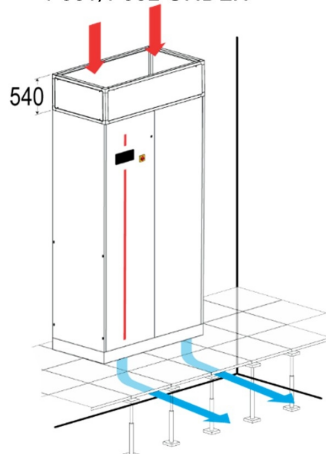
ACCESSORIES

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

P011/P012 OVER



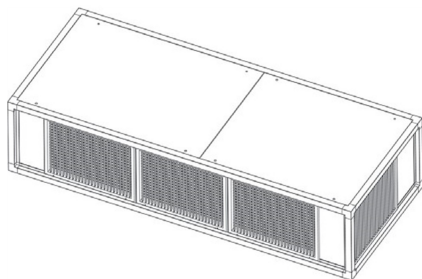
P031/P032 UNDER



SIZE		F1	F2	F3
VERSION (1)		U / O	U / O	U / O
Weight (2)	lb [kg]	26.46 [12]	35.27 [16]	44.09 [20]
Weight CL. A1 (2)	lb [kg]	48.5 [22]	63.93 [29]	79.37 [36]

1. U = Under, downflow
O = Over, upflow
2. Add this value to the total unit weight

Dimensions in millimeters



(BL79900401..503) PLENUM + 3 GRILLES

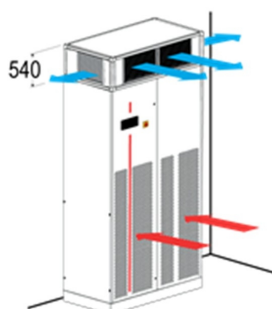
The plenum allows the air distribution directly into the room. The plenum is supplied with air distribution grilles with double row adjustable fins on front and lateral side. Also available with fire reaction in class "A1". The optional is not suitable for installation in seismic areas.

Part no. F1
 BL79900401 PLENUM + 3 GRILLES
 BL79900501 PLENUM + 3 GRILLES CL.A1

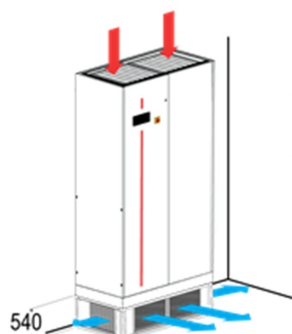
Part no. F2
 BL79900402 PLENUM + 3 GRILLES
 BL79900502 PLENUM + 3 GRILLES CL.A1

Part no. F3
 BL79900403 PLENUM + 3 GRILLES
 BL79900503 PLENUM + 3 GRILLES CL.A1

P013/P014 OVER



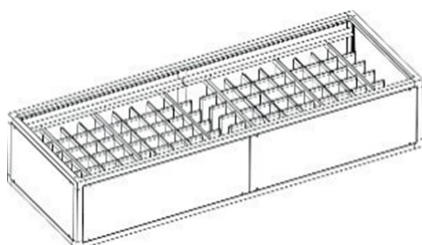
P013/P014 UNDER



SIZE		F1	F2	F3
VERSION (1)		U / O	U / O	U / O
Weight (2)	lb [kg]	26.46 [12]	35.27 [16]	44.09 [20]
Weight CL. A1 (2)	lb [kg]	37.48 [17]	49.6 [22.5]	61.73 [28]

1. U = Under, downflow
O = Over, upflow
2. Add this value to the total unit weight

Dimensions in millimeters



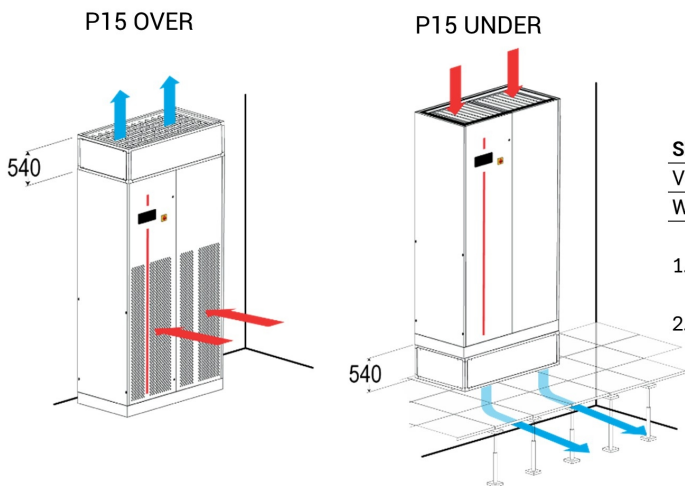
(BL79900601..603) SILENCED PLENUM

The plenum is fitted with sound absorbers to reduce the noise emission.
Remove the frontal panels for inspection.
The optional is not suitable for installation in seismic areas.

Part no. F1
BL79900601 SILENCED PLENUM

Part no. F2
BL79900602 SILENCED PLENUM

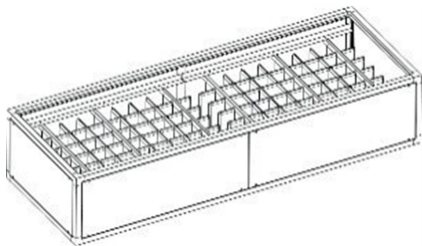
Part no. F3
BL79900603 SILENCED PLENUM



SIZE	F1	F2	F3
VERSION (1)	U / O	U / O	U / O
Weight (2) lb [kg]	18 [39.68]	24 [52.91]	30 [66.14]

1. U = Under, downflow
O = Over, upflow
2. Add this value to the total unit weight

ACOUSTIC DATA



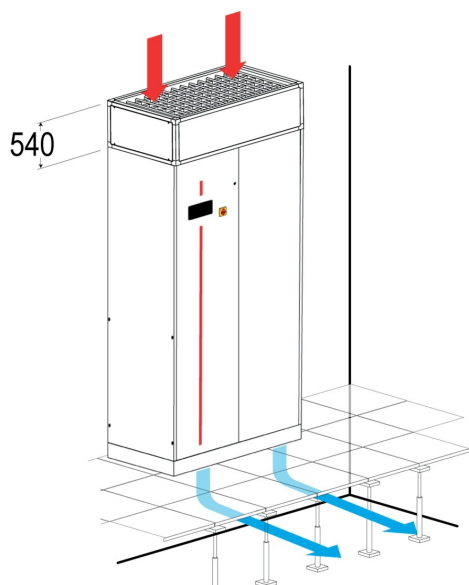
(BL79900601..603) SILENCED INTAKE PLENUM

The plenum is fitted with sound absorbers to reduce the noise emission.
Remove the frontal panels for inspection.
The optional is not suitable for installation in seismic areas.

Part no. F1
BL79900601 SILENCED INTAKE PLENUM

Part no. F2
BL79900602 SILENCED INTAKE PLENUM

Part no. F3
BL79900603 SILENCED INTAKE PLENUM

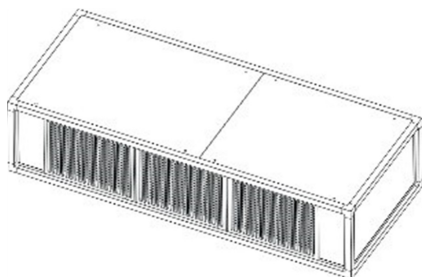


Dimensions in millimeters

SIZE		F1	F2	F3
VERSION (1)		U / O	U / O	U / O
Weight (2)	lb [kg]	39.68 [18]	52.91 [24]	66.14 [30]

1. U = Under, downflow
O = Over, upflow
2. Add this value to the total unit weight

ACOUSTIC DATA



(BL79900701--703) SILENCED PLENUM + 1 GRILLE

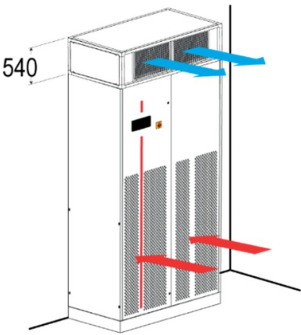
The plenum allows the frontal air distribution directly into the room and a noise reduction of the air delivery. The plenum is supplied with air distribution grille with double row adjustable grills on front side and sound absorbers. The optional is not suitable for installation in seismic areas.

Part no. F1
 BL79900701 SILENCED PLENUM + 1 GRILLE

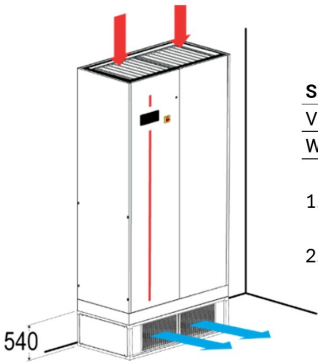
Part no. F2
 BL79900702 SILENCED PLENUM + 1 GRILLE

Part no. F3
 BL79900703 SILENCED PLENUM + 1 GRILLE

P016 OVER



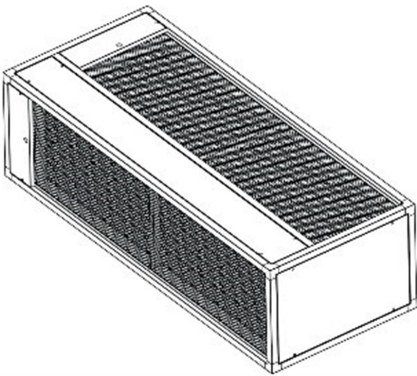
P016 UNDER



SIZE	F1	F2	F3
VERSION (1)	U / O	U / O	U / O
Weight (2)	lb [kg]	26.46 [12]	35.27 [16] 44.09 [20]

- 1. U = Under, downflow
O = Over, upflow
- 2. Add this value to the total unit weight

ACOUSTIC DATA



(BL79901101..03) INTAKE FREE-COOLING PLENUM

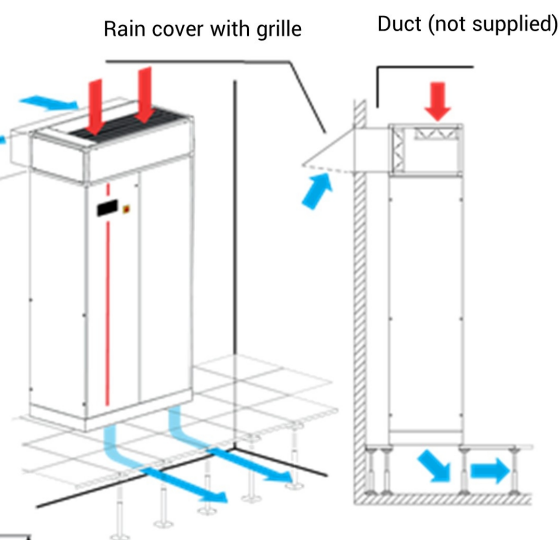
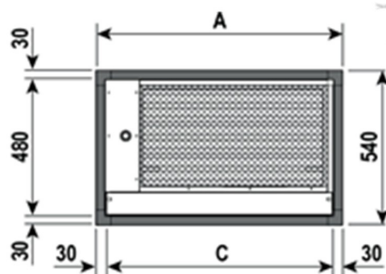
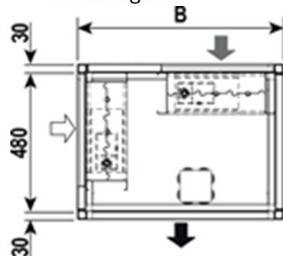
The optional is supplied separately and the installation on the unit is at Customer care.
The plenums have same technical characteristics and base dimensions of the machine cabinet.
The optional allow to obtain free-cooling by direct ambient air intake into the room.
The dampers are proportionally managed by the microprocessor control, that regulates the quantity of the ambient air to put in the room according to the set-point.
The optional is not suitable for installation in seismic areas.

COMPONENTS

- Frame in aluminium extrusion, painted with epoxy powders. Colour RAL 7016;
 - Panels in galvanized steel sheet with protective surfaces treatment in compliance with UNI ISO 9227/ASTMB117 and ISO 7253, and painted with epoxy powders. Colour RAL 7016;
 - Panels insulated with polyurethane foam and seals to ensure air tight.
 - Removable panels fixed with screws.
 - Opposed blade dampers in galvanized steel sheet and safety grille for ambient air and room air suction.
 - Actuator for each damper.
 - Terminals for electric connection to the unit.
 - Set of fixing elements to fasten the plenum to the unit.
 - Combined Temperature / Humidity sensor on machine air suction. The sensor must be moved outside the air conditioners for a proper read of the room temperature value.
 - Temperature sensor for outdoor air. The sensor must be installed in the outdoor air suction duct or anyway protected against atmospheric agent.
 - Expansion board for microprocessor control.
 - Free contact for free-cooling operating status monitoring.
 - Terminals on indoor unit for:
 - 24 Vac power supply for the overpressure damper servomotor
 - 0-10Vdc control signal for the servomotor
 - Servomotor and overpressure damper are not supplied.
- Ducting for ambient air suction are at Customer care.
A rain cover with grille on ambient air intake is recommended.

SIZE		F1	F2	F3
VERSION (1)		U / O	U / O	U / O
A	in [mm]	23.62 [600]	39.37 [1000]	39.37 [1000]
B	in [mm]	18.9 [480]	18.9 [480]	34.25 [870]
C	in [mm]	21.26 [540]	37.01 [940]	37.01 [940]
Weight (2)	lb [kg]	39.68 [18]	55.12 [25]	63.93 [29]

1. U = Under, downflow
2. Add this value to the total unit weight



WARNING

IT IS COMPULSORY TO INSTALL INTO THE ROOM AN APPROPRIATELY SIZED OVERPRESSURE DAMPER TO ALLOW THE ROOM AIR EXHAUSTION DURING FREE-COOLING WORKING MODE

OVERPRESSURE DAMPER – Not supplied

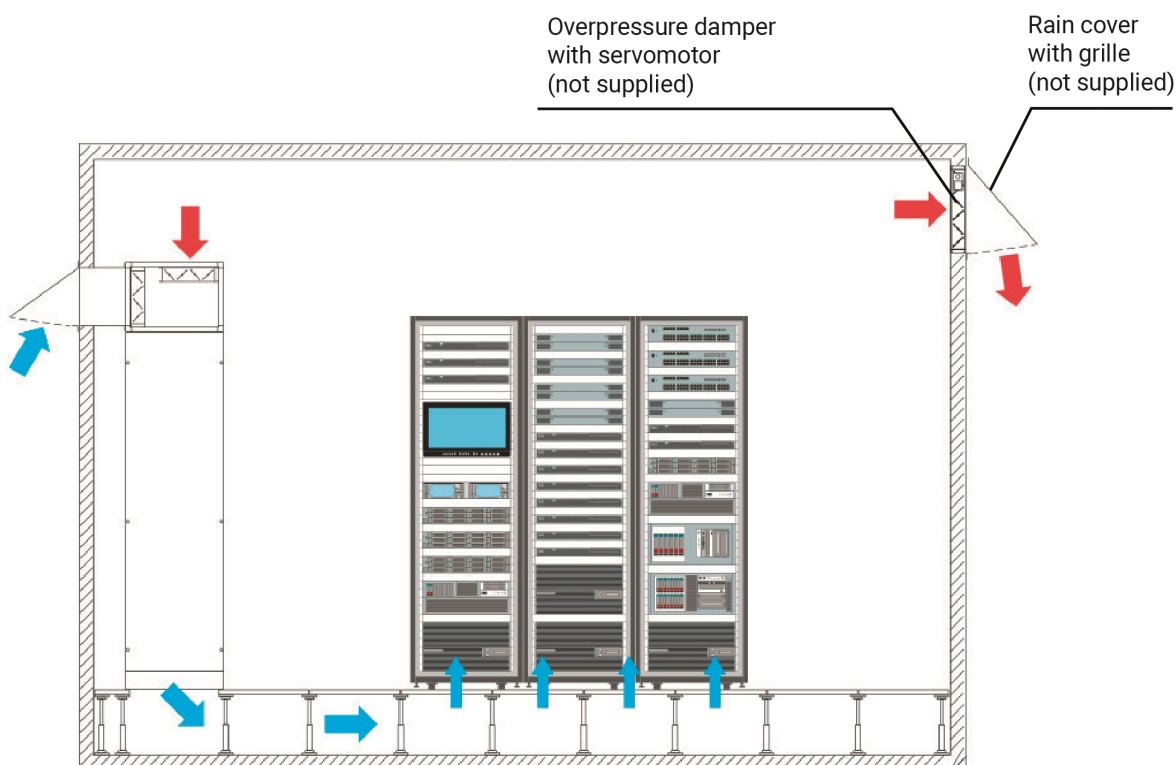
During free-cooling operation, the air conditioner supplies ambient air directly into the room, this causes an increase in air pressure inside the room.

The overpressure damper avoids the increase in pressure in the room.

The damper must be installed at the highest point of the room to expel excess hot air to the outside. Install the damper if possible in opposite position to air conditioner.

The damper is controlled by the modulating signal 0-10Vdc of the free cooling control of the air conditioner. The 24Vac power supply of the servomotor and the 0-10Vdc free-cooling signal is available on the unit's electrical terminal block (see wiring diagram for connections).

Air exhaustion must be protected with a rain cover and a grille (at Customer care).



DIMENSIONS OF THE OVERPRESSURE DAMPER

Part no. F1
BL79901101 INTAKE FREE-COOLING PLENUM

Part no. F2
BL79901102 INTAKE FREE-COOLING PLENUM

Part no. F3
BL79901103 INTAKE FREE-COOLING PLENUM



EARTHQUAKE ANCHOR KIT

The optional is available for indoor unit. The optional is supplied in mounting kit.

Two lateral supports that must be fixed at the machine basement sides, supplied with fixing bolts.

This is a safety device that must be mounted before the unit installation and connected to a structural part with adequate resistance in the installation site to prevent the risk of unit movement or overturning due to earthquake.

Fixing screws to the structural part not supplied.

For the purpose of resistance against seismic events, the unit was certified to the highest level of seismic intensity as required by ICC-ES AC 156 "Acceptance criteria for seismic certification by shake-table testing of nonstructural components -oct. 2010" by performing dynamic tests on a shake-table with oscillations on vertical and transverse axes.

As stated in the standard, the purpose of the tests followed is to give a certification of nonstructural components subjected to seismic stresses with frequency greater than 1.3 Hz (Section 13.2.5 of ASCE 7).

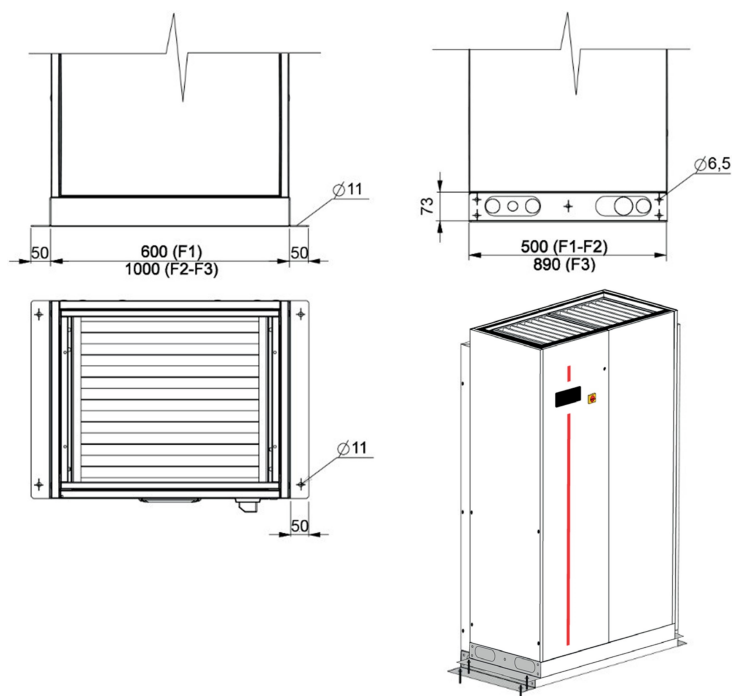
The evaluation criterion followed is intended to provide data to support architectural seismic certification of mechanical, electrical and other parts not considered "structural" that are to be permanently connected to a building or architectural component.

The integrity of the anchorage of the machine and components to the structure must be ensured by accepting minor failures, small fractures and anomalies as long as these have no impact on the safety of people during the seismic event.

ICC-ES AC 156 is related to ISO 13033:2013 "Bases For Design Of Structures - Loads, Forces And Other Actions - Seismic Actions On Nonstructural Components For Building Applications."

The fixing of the unit to the structure is at Customer care.

To grant anti-seismic resistance the unit must be fixed to a structural part with adequate resistance with 4 steel screws M10 (not supplied). Each anchoring system must resist to a lifting traction force as shown in table.



T500000093 ANTISEISMIC ANCHORING F1-F2

T500000094 ANTISEISMIC ANCHORING F3

INDOOR UNIT					
MODEL		006	013	018	036
SIZE		F1	F1	F2	F3
VERSION (1)		U / O	U / O	U / O	U / O
Number of screws	No.	4	4	4	4
Type of screw		M10	M10	M10	M10
Traction resistance needed, single anchor, Under	lb [kg]	2425.08 [1100]	2425.08 [1100]	3968.32 [1800]	3196.7 [1450]
Traction resistance needed, single anchor, Over	lb [kg]	2535.31 [1150]	2535.31 [1150]	3968.32 [1800]	3306.93 [1500]

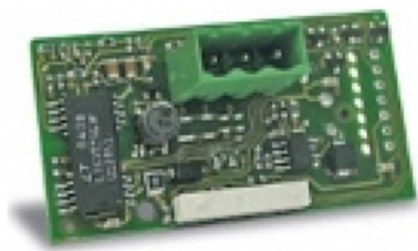
U = Under, downflow / O = Over, upflow

ANTISEISMIC FIXING SYSTEM FOR P-SERIES OUTDOOR CONDENSING UNIT.

The feet of Mr Slim outdoor condensing unit are foreseen as standard with holes for ground fixing.

The fixing of the unit at the structure is at Customer care.

To grant anti-seismic resistance the unit must be fixed to a structural part with adequate resistance with 4 steel screws M10 (not supplied), as prescribed by P-Series Data Book.



T500000085 SERIAL CARD - RS485 - RS485card - MODBUS RTU

The board is installed at the factory.

The serial board allows the ModBus communication protocol to be used via the RS485 3-wire physical connection.



T500000014 SERIAL CARD - RS485 - pCONet - BACNET MS/TP

The board is installed at the factory. The serial board allows the BACnet MS/TP communication protocol to be used via the 3-wire RS 485 physical connection.

For all technical information, please refer to the Interface Manual.



T500000087 SERIAL CARD - Ethernet - pCOWeb - BACNET OVER IP + SMTP email

The board is installed at the factory.

The serial board allows the use of BACnet IP, Modbus TCP/IP and SNMP communication protocols via the physical Ethernet standard. The supervision network is realised by the technicians who develop the BACnet interfacing. The interfacing database is that for the Modbus protocol. The manufacturer will supply the boards and the .MIB file necessary for the technicians to configure the network.

The programming of the board is the responsibility of the integrator.

Please refer to the Interfacing Manual for all technical information and what is necessary to connect to the Internet for displaying and modifying variables.

T500000087 SERIAL CARD - Ethernet - pCOWeb - MODBUS TCP/IP + SMTP email

The card is factory installed. The Interface module for ModBus TCP/IP protocol allows integration with BMS operating with ModBus TCP/IP protocol.

Please refer to Interface Manual for all technical information.

T500000087 SERIAL CARD - Ethernet - pCOWeb - SNMP + SMTP email

The card is factory installed and allows integration with Ethernet - pCOWeb - SNMP + SMTP email protocol.

Please refer to Interface Manual for all technical information.

10.2 Technical data - Electrical heater

Version	(1)	0	0	0
Size		06LB	13LB	18LB
Frame		F01	F01	F02
ELECTRICAL HEATER				
Heater description		Basic heater 2.6 kW	Basic heater 2.6 kW	Electric Heater 3.9 kW
Quantity	[N°]	1	1	1
Steps	[N°]	2	2	3
Electrical power abs.	[kW]	2,60	2,60	3,90
Max absorbed current (FLA)	[A]	11,4	11,4	17,0
Power supply	[V/ph/Hz]	230/1/60	230/1/60	230/1/50
ELECTRICAL DATA (referred to indoor unit)				
Power supply	[V/ph/Hz]	208-230/1 /60	208-230/1 /60	208-230/1 /60
Max Electrical power absorbed (FLI)	(2) [kW]	5,33	5,35	7,11
Max absorbed current (FLA)	(2) [A]	24,7	24,8	34,1
Max inrush current (SA)	[A]	N.A.	N.A.	N.A.
Power input (OI)	[kW]	0,12	0,19	0,33
ENHANCED ELECTRICAL HEATER				
Heater description		N.A.	N.A.	N.A.
Quantity	[N°]	N.A.	N.A.	N.A.
Steps	[N°]	N.A.	N.A.	N.A.
Electrical power abs.	[kW]	N.A.	N.A.	N.A.
Max absorbed current (FLA)	[A]	N.A.	N.A.	N.A.
Power supply	[V/ph/Hz]	N.A.	N.A.	N.A.

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Technical data internal unit complete with optional accessory.

The presence of the accessory A431 allows to have only the temperature control on the return air supply.

N.A.: Not available

ACCESSORIES

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

Version	(1)	O	O	O
Size		06LB	13LB	18LB
Frame		F01	F01	F02
ELECTRICAL DATA (referred to indoor unit)				
Power supply	[V/ph/Hz]	N.A.	N.A.	N.A.
Max Electrical power absorbed (FLI)	(2) [kW]	N.A.	N.A.	N.A.
Max absorbed current (FLA)	(2) [A]	N.A.	N.A.	N.A.
Max inrush current (SA)	[A]	N.A.	N.A.	N.A.
Power input (OI)	[kW]	N.A.	N.A.	N.A.

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Technical data internal unit complete with optional accessory.

The presence of the accessory A431 allows to have only the temperature control on the return air supply.

N.A.: Not available

Version	(1)	U	U	U
Size		06LB	13LB	18LB
Frame		F01	F01	F02
ELECTRICAL HEATER				
Heater description		Basic heater 2.6 kW	Basic heater 2.6 kW	Electric Heater 3.9 kW
Quantity	[N°]	1	1	1
Steps	[N°]	2	2	3
Electrical power abs.	[kW]	2,60	2,60	3,90
Max absorbed current (FLA)	[A]	11,4	11,4	17,0
Power supply	[V/ph/Hz]	230/1/60	230/1/60	230/1/50
ELECTRICAL DATA (referred to indoor unit)				
Power supply	[V/ph/Hz]	208-230/1/60	208-230/1/60	208-230/1/60
Max Electrical power absorbed (FLI)	(2) [kW]	5,33	5,35	7,11
Max absorbed current (FLA)	(2) [A]	24,7	24,8	34,1
Max inrush current (SA)	[A]	N.A.	N.A.	N.A.
Power input (OI)	[kW]	0,16	0,23	0,40
ENHANCED ELECTRICAL HEATER				
Heater description		N.A.	N.A.	N.A.
Quantity	[N°]	N.A.	N.A.	N.A.
Steps	[N°]	N.A.	N.A.	N.A.
Electrical power abs.	[kW]	N.A.	N.A.	N.A.
Max absorbed current (FLA)	[A]	N.A.	N.A.	N.A.
Power supply	[V/ph/Hz]	N.A.	N.A.	N.A.
ELECTRICAL DATA (referred to indoor unit)				
Power supply	[V/ph/Hz]	N.A.	N.A.	N.A.
Max Electrical power absorbed (FLI)	(2) [kW]	N.A.	N.A.	N.A.
Max absorbed current (FLA)	(2) [A]	N.A.	N.A.	N.A.
Max inrush current (SA)	[A]	N.A.	N.A.	N.A.
Power input (OI)	[kW]	N.A.	N.A.	N.A.

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Technical data internal unit complete with optional accessory.

The presence of the accessory A431 allows to have only the temperature control on the return air supply.

N.A.: Not available

ACCESSORIES

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

10.3 Technical data - Humidifiers

Version	(1)	O	O	O
Size		06LB	13LB	18LB
Frame		F01	F01	F02
Humidifier type		Humidifier 3 kg/h	Humidifier 3 kg/h	Humidifier 3 kg/h
Quantity	[N°]	1	1	1
Capacity	[kg/h]	3,0	3,0	3,0
Electrical power abs.	[kW]	2,25	2,25	2,25
Max absorbed current (FLA)	[A]	9,80	9,80	9,80
Power supply	[V/ph/Hz]	230/1/60	230/1/60	230/1/60
ELECTRICAL DATA (referred to indoor unit)				
Power supply	[V/ph/Hz]	208-230/1 /60	208-230/1 /60	208-230/1 /60
Max Electrical power absorbed (FLI)	[kW]	5,33	5,35	7,11
Max absorbed current (FLA)	[A]	24,7	24,8	34,1
Max inrush current (SA)	[A]	N.A.	N.A.	N.A.
Power input (OI)	[kW]	0,12	0,19	0,33

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

N.A.: Not available

Version	(1)	U	U	U
Size		06LB	13LB	18LB
Frame		F01	F01	F02
Humidifier type		Humidifier 3 kg/h	Humidifier 3 kg/h	Humidifier 3 kg/h
Quantity	[N°]	1	1	1
Capacity	[kg/h]	3,0	3,0	3,0
Electrical power abs.	[kW]	2,25	2,25	2,25
Max absorbed current (FLA)	[A]	9,80	9,80	9,80
Power supply	[V/ph/Hz]	230/1/60	230/1/60	230/1/60
ELECTRICAL DATA (referred to indoor unit)				
Power supply	[V/ph/Hz]	208-230/1 /60	208-230/1 /60	208-230/1 /60
Max Electrical power absorbed (FLI)	[kW]	5,33	5,35	7,11
Max absorbed current (FLA)	[A]	24,7	24,8	34,1
Max inrush current (SA)	[A]	N.A.	N.A.	N.A.
Power input (OI)	[kW]	0,16	0,23	0,40

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

N.A.: Not available

10.4 Technical data - Air filters

Version		O	O	O	O	O
Size		06LA	06LB	13LA	13LB	18LA
Frame		F01	F01	F01	F01	F02
Filters type + Efficiency [%]		MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
Quantity	[N°]	1	1	1	1	1
Filtering surface	[m²]	0,40	0,40	0,40	0,40	0,62
Pressure drop	(1) [ft H2O]	12,0	12,0	17,8	17,8	18,2
Maximum available static pressure	[in H2O]	1,66	1,66	2,37	2,37	1,42

Notes:

1 Data referred to nominal flow rate and clean filter. Value to be subtracted from the maximum useful static pressure of the unit.

ACCESSORIES

ELCA_Engine ver.4.8.12.0

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

Version		U	U	U	U	U	U
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
Filters type + Efficiency [%]		MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
Quantity	[N°]	1	1	1	1	1	1
Filtering surface	[m²]	0,40	0,40	0,40	0,40	0,62	0,62
Pressure drop	(1) [ft H2O]	12,0	12,0	17,8	17,8	18,2	18,2
Maximum available static pressure	[in H2O]	1,66	1,66	2,37	2,37	1,42	1,42

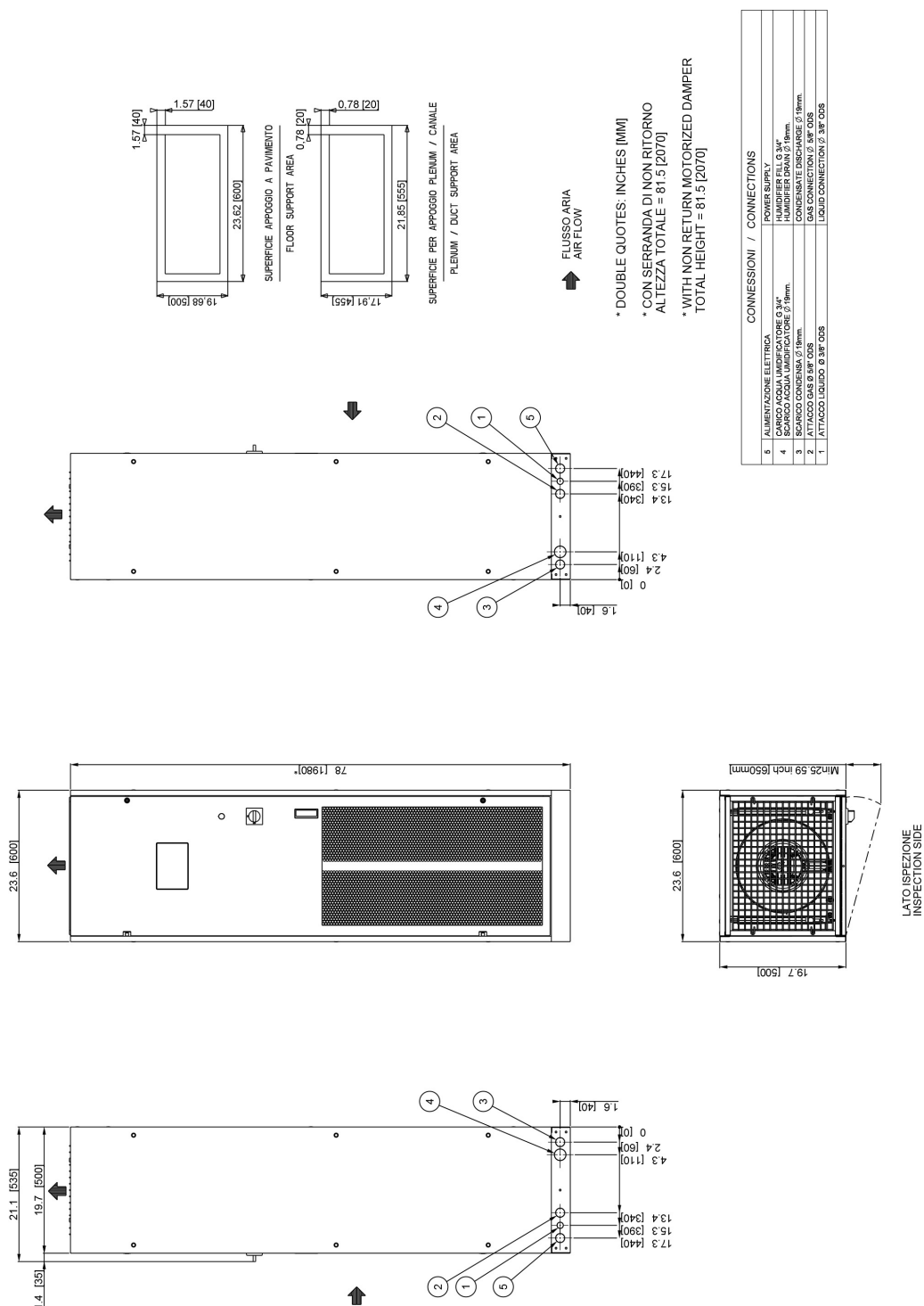
Notes:

1 Data referred to nominal flow rate and clean filter. Value to be subtracted from the maximum useful static pressure of the unit.

11.1 Units drawing

S-MEXT-G06-M1-O-06 13

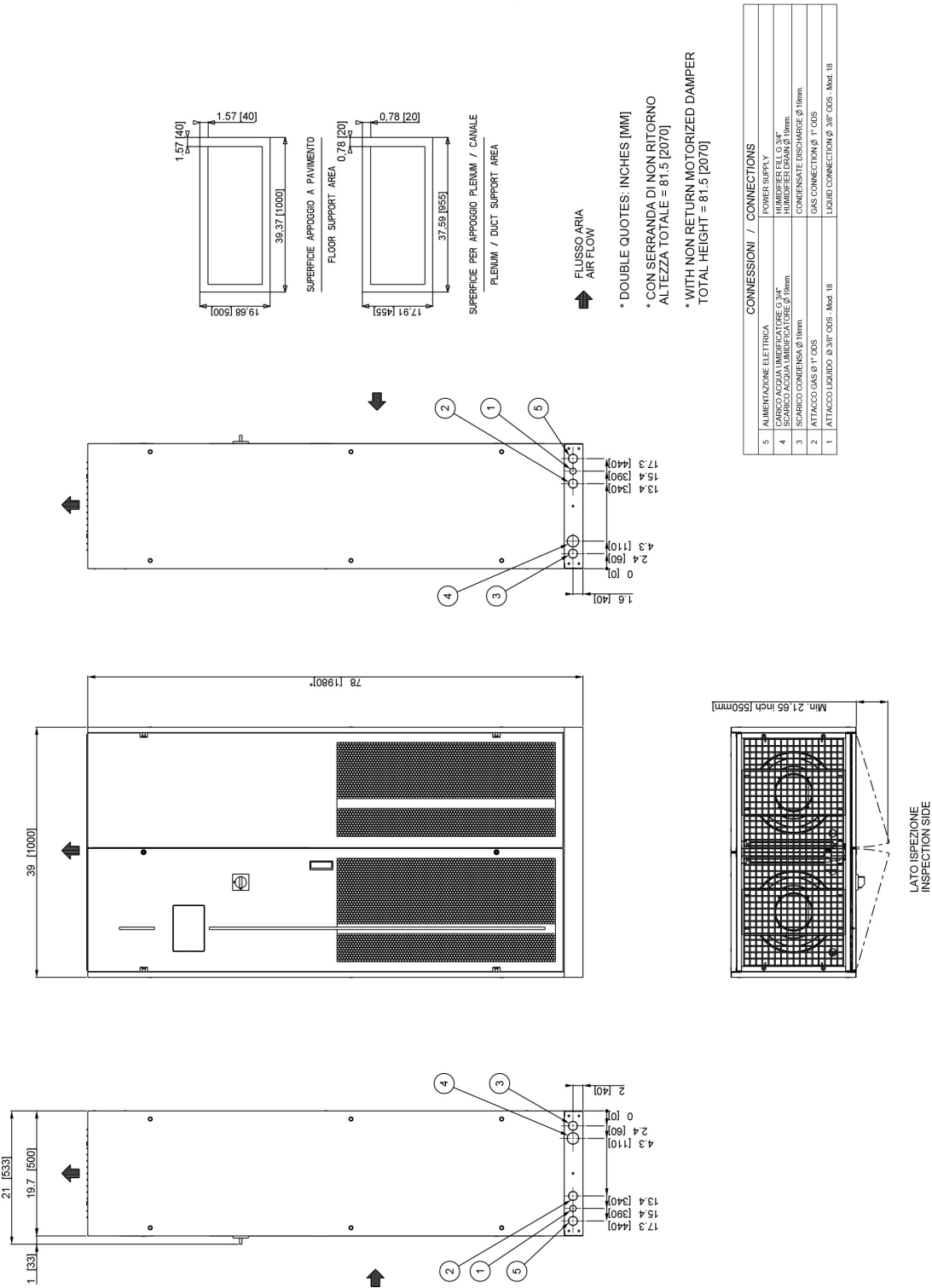
Dimensions in [mm]



REMARKS: For installation purposes, please refer to the documentation sent after the purchase-contract. This technical data should be considered as indicative. Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. may modify them at any moment. Data valid for standard units without any additional option.

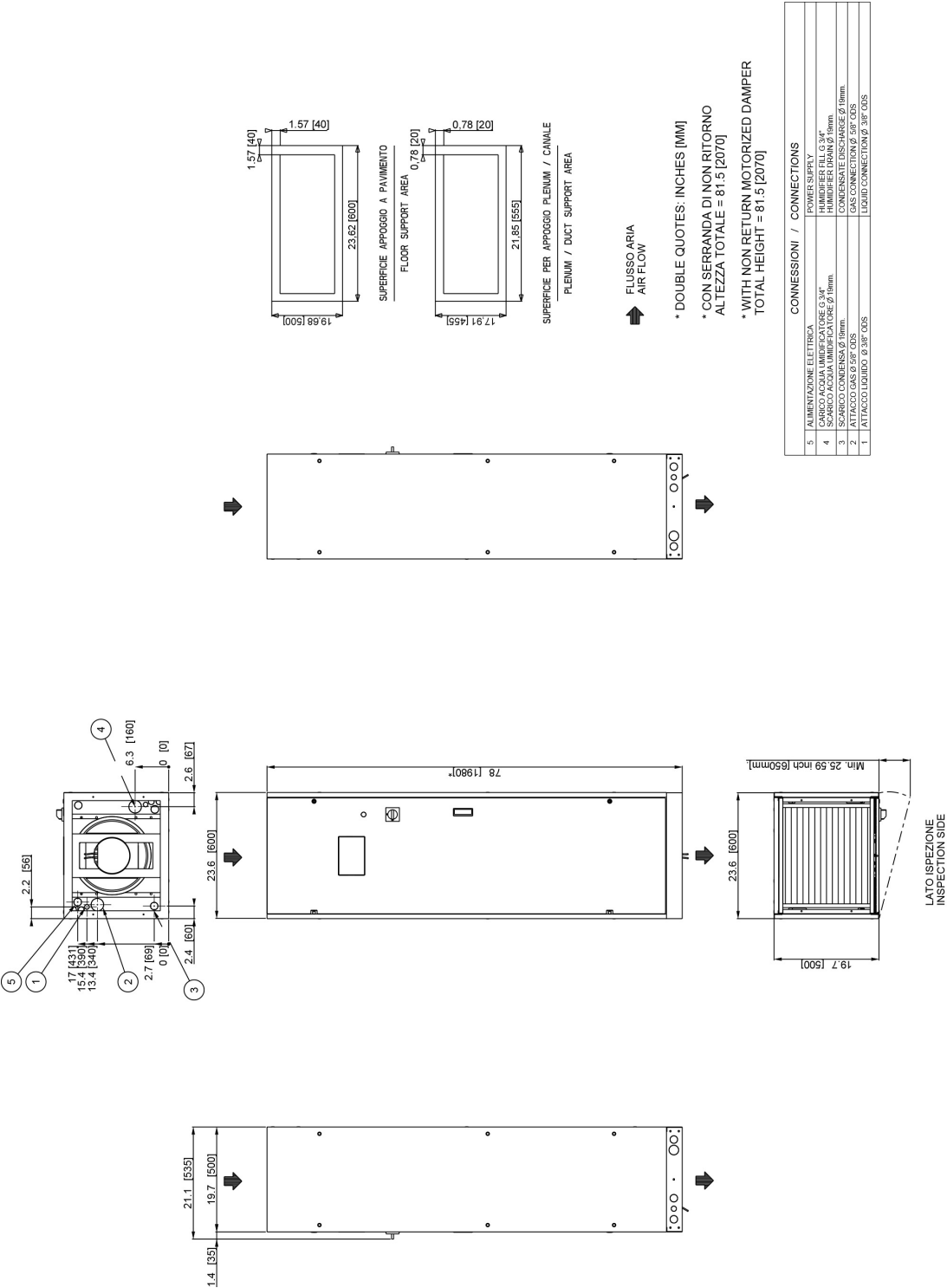
S-MEXT-G06-M1-O 18

Dimensions in [mm]



S-MEXT-G06-M1-U 06 13

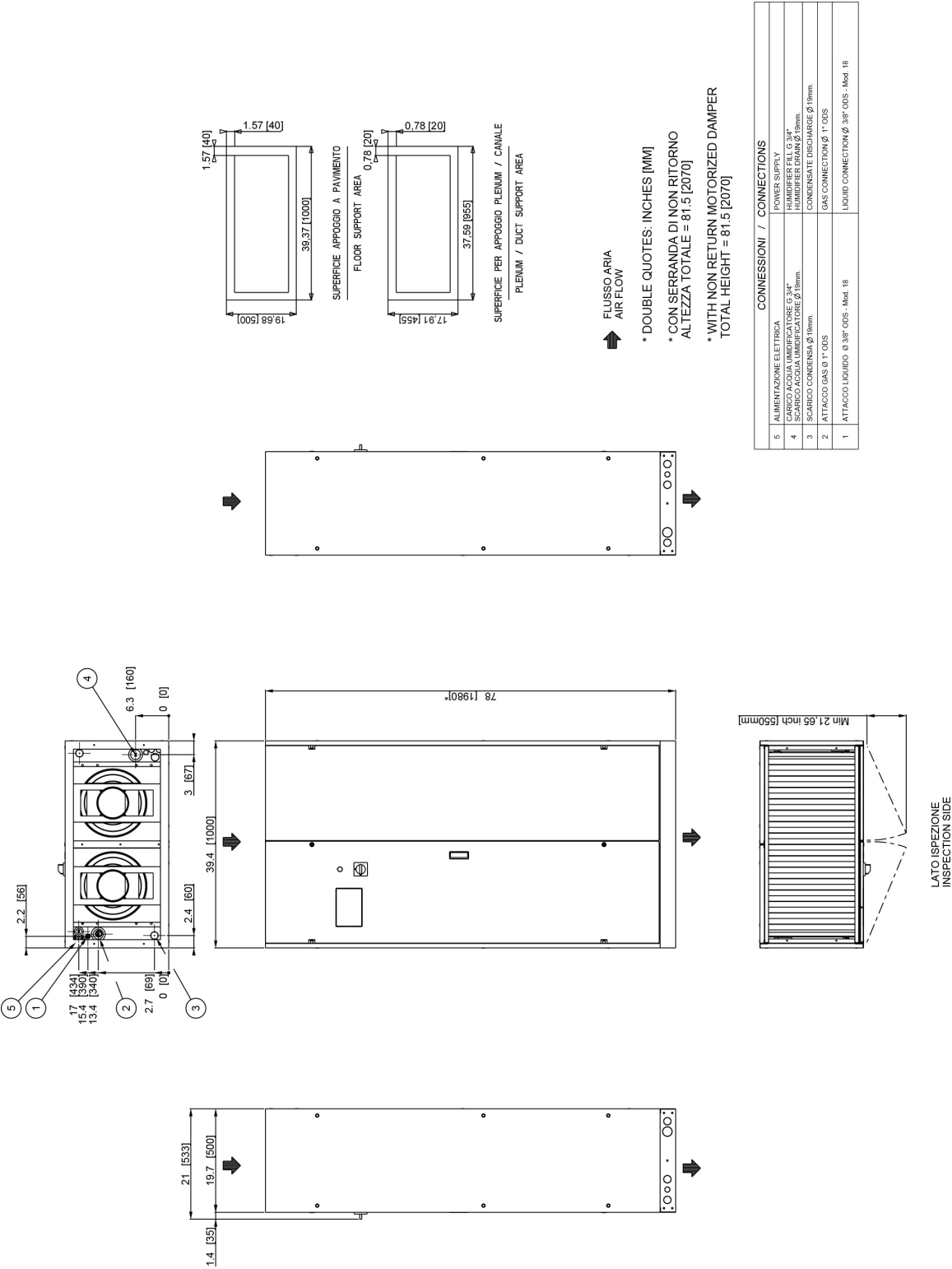
Dimensions in [mm]



REMARKS: For installation purposes, please refer to the documentation sent after the purchase-contract. This technical data should be considered as indicative. Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. may modify them at any moment. Data valid for standard units without any additional option.

S-MEXT-G06-M1-U 18

Dimensions in [mm]



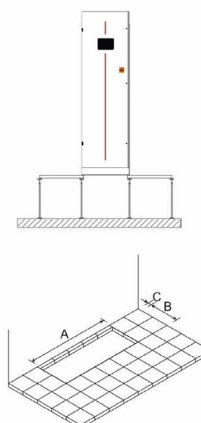
REMARKS: For installation purposes, please refer to the documentation sent after the purchase-contract. This technical data should be considered as indicative. Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. may modify them at any moment. Data valid for standard units without any additional option.

12.1 Hole in the raised floor for downflow version

Hole in the raised floor without floor stand

Foresee a hole of the same size as those shown in the table in relation to size "E" of the model.

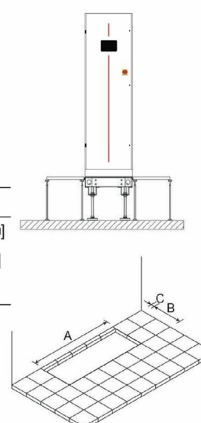
		F1	F2	F3
A	in [mm]	20.47 [520]	36.22 [920]	36.22 [920]
B	in [mm]	16.54 [420]	16.54 [420]	32.28 [820]
C	in [mm]	3.54 [90]	3.54 [90]	3.54 [90]



Hole in the raised floor with floor stand (option)

Foresee a hole of the same size as those shown in the table in relation to size "E" of the model.

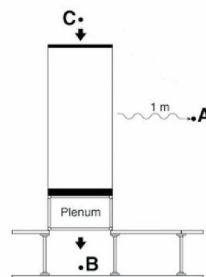
		F1	F2	F3
A	in [mm]	24.02 [610]	39.76 [1010]	39.76 [1010]
B	in [mm]	20.08 [510]	20.08 [510]	35.43 [900]
C	in [mm]	2.36 [60]	2.36 [60]	2.36 [60]



12.2 Examples of calculation of the sound emission of units

UNDER UNIT WITH DUCTING ON INTAKE

Lp A = Design value on front of Under
 Lp B = Design value on delivery of Under
 Lp C = Design value on intake of Under
 Points B and C do not influence point A

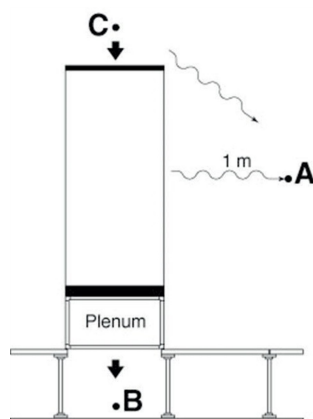


UNDER UNIT WITH PLENUM ON AIR DELIVERY

Lp A = Front side Under catalogue value
 Lp B = Air delivery Under catalogue value – plenum noise reduction
 Lp C = Air intake Under catalogue value

$$Lp A+C = 10 \log(\text{base}10) [10(\text{raised to } LpA/10) + 10(\text{raised to } LpC/10)]$$

 The point B do not influence the point A



UNDER UNIT WITH PLENUM ON INTAKE

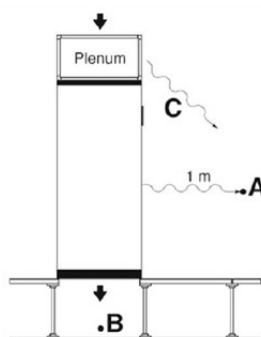
Lp A = Design value on front of Under

Lp B = Design value on delivery of Under – attenuation of plenum

Lp C = Design value on intake of Under

$Lp A+C = 10 \log(\text{base}10) [10(\text{raised to } LpA/10) + 10(\text{raised to } LpC/10)]$

Point B does not influence point A

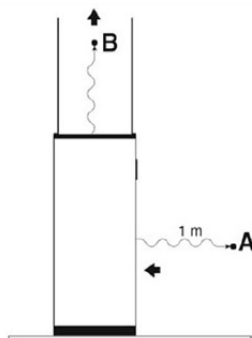


OVER UNIT WITH DUCTING

Lp A = Design value on intake of Over

Lp B = Design value on delivery of Over

Point B does not influence point A

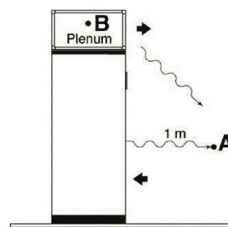


OVER UNIT WITH PLENUM ON AIR DELIVERY

Lp A = Air intake Over catalogue value

Lp B = Air delivery Over catalogue value - plenum noise reduction

$Lp A+C = 10 \log(\text{base}10) [10^{\text{(raised to } LpA/10)} + 10^{\text{(raised to } LpC/10)}]$



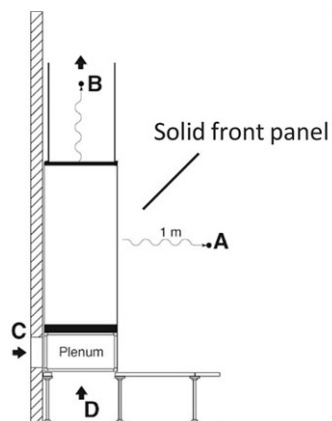
OVER UNIT WITH PLENUM ON INTAKE AND DUCTED DELIVERY

Lp A = Design value on front of Over

Lp B = Design value on delivery of Over

Lp C = Lp D = Lp A + 6 dB(A) – attenuation of plenum

Points B, C and D do not influence point A



OVER UNIT WITH PLENUM ON INTAKE AND DUCTED DELIVERY

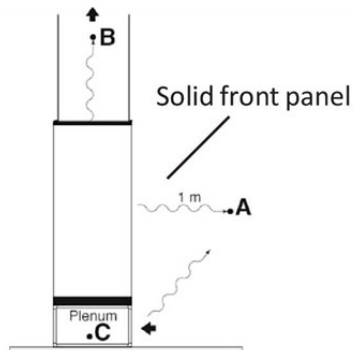
Lp A = Design value on front of Over

Lp B = Design value on delivery of Over

Lp C = Lp A + 6dB(A) – attenuation of plenum

$Lp A+C = 10 \log(\text{base}10) [10(\text{raised to } LpA/10) + 10(\text{raised to } LpC/10)]$

Point B does not influence point A+C



IMPORTANT

The declared noise values refer to free field conditions.

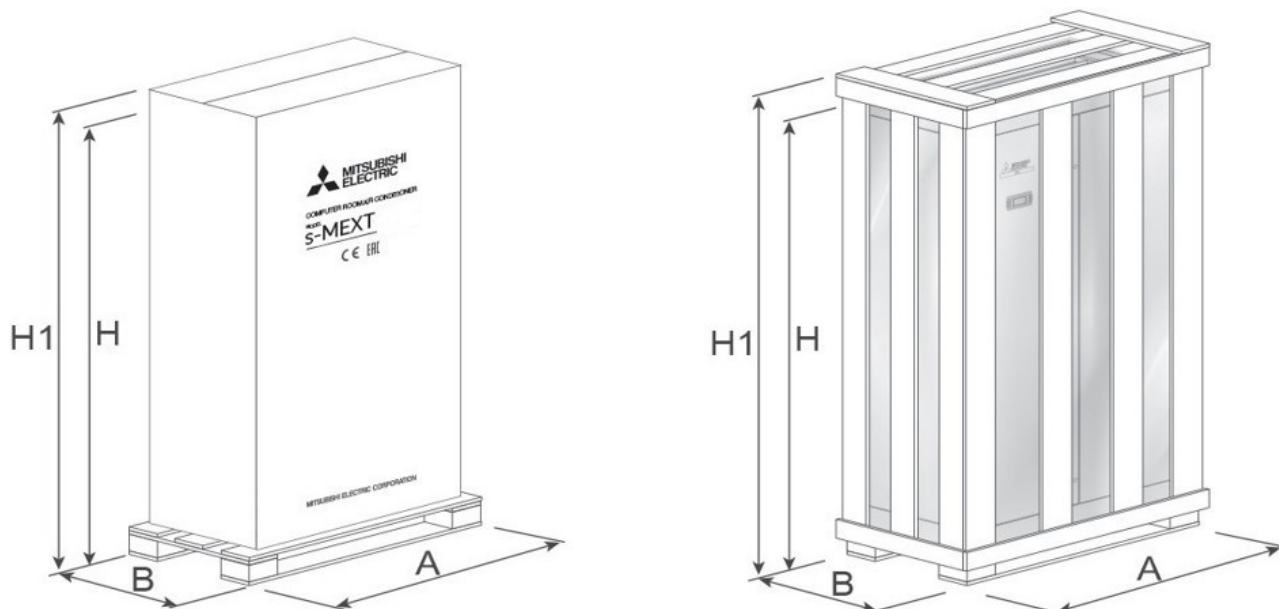
The sound pressure level of an installed unit depends on the acoustic characteristics of the environment.

Indicatively, the increase in noise varies from +4 to +6 dB (A).

13.1 Info - Packaging of units for shipment

SHIPMENT: PACKAGING TYPE

Values referred to basic machines. The presence of some accessories increases the weight of machine.
The units are shipped on pallet and covered with carton box.
On request packing on pallet covered with shrink wrap and wooden cage.



- 1) STANDARD PACKAGING
2) OPTIONAL 9973: WOODEN CAGE PACKING

13.2 Technical data - Packaging dimensions of the units being shipped

Version	(1)	O	O	O	O	O	O
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
STANDARD PACKAGING DIMENSIONS							
Packaged dimension A	[in]	29,5	29,5	29,5	29,5	43,3	43,3
Packaged dimension B	[in]	25,6	25,6	25,6	25,6	27,2	27,2
Packaged dimension H	[in]	87,4	87,4	87,4	87,4	88,6	88,6
Packaged dimension H1 with shutter	(2) [mm]	-	-	-	-	-	-
PACKAGING DIMENSIONS WITH WOODEN CRATE ACCESSORY							
Wooden crate size A	[in]	31,1	31,1	31,1	31,1	44,9	44,9
Wooden crate size B	[in]	27,2	27,2	27,2	27,2	27,2	27,2
Wooden crate size H	[in]	88,6	88,6	88,6	88,6	88,6	88,6
Wooden crate size H1 with ON-OFF shutter	(2) [in]	-	-	-	-	-	-

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Packaging height with accessory shutter

-: Not available

13 SHIPMENT

Data Book
DB_ME_S-MEXT-G06-M1 06LA - 18LB_032026_EN
R454B

Version	(1)	U	U	U	U	U	U
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
STANDARD PACKAGING DIMENSIONS							
Packaged dimension A	[in]	29,5	29,5	29,5	29,5	43,3	43,3
Packaged dimension B	[in]	25,6	25,6	25,6	25,6	27,2	27,2
Packaged dimension H	[in]	87,4	87,4	87,4	87,4	88,6	88,6
Packaged dimension H1 with shutter	(2) [mm]	-	-	-	-	-	-
PACKAGING DIMENSIONS WITH WOODEN CRATE ACCESSORY							
Wooden crate size A	[in]	31,1	31,1	31,1	31,1	44,9	44,9
Wooden crate size B	[in]	27,2	27,2	27,2	27,2	27,2	27,2
Wooden crate size H	[in]	88,6	88,6	88,6	88,6	88,6	88,6
Wooden crate size H1 with ON-OFF shutter	(2) [in]	-	-	-	-	-	-

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Packaging height with accessory shutter

-: Not available

13.3 Technical data - Weights of shipping units

Version	(1)	O	O	O	O	O	O
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
STANDARD PACKAGING							
Weight with STD packaging	[lb]	309	309	320	320	401	401
Packaged weight STD + accessory shutter weight	(2) [kg]	-	-	-	-	-	-
ACCESSORY 9973: WOODEN CRATE PACKAGING							
Weight with wooden cage	[lb]	412	412	423	423	452	452
With acc. damper weight	(2) [lb]	-	-	-	-	-	-

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Packaging height with accessory shutter

-: Not available

Version	(1)	U	U	U	U	U	U
Size		06LA	06LB	13LA	13LB	18LA	18LB
Frame		F01	F01	F01	F01	F02	F02
STANDARD PACKAGING							
Weight with STD packaging	[lb]	309	309	320	320	401	401
Packaged weight STD + accessory shutter weight	(2) [kg]	-	-	-	-	-	-
ACCESSORY 9973: WOODEN CRATE PACKAGING							
Weight with wooden cage	[lb]	412	412	423	423	452	452
With acc. damper weight	(2) [lb]	-	-	-	-	-	-

Notes:

1 U, D = Under, Downflow / O, R = Over, Rearflow

2 Packaging height with accessory shutter

-: Not available

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