

Climaveneta **Data Book**

I\_MXW\_10\_40\_202010\_EN



# i-MXW

**10 - 40  
2,0 - 3,7 kW**

High-wall fan coil unit, with EC brushless fan



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

- Configuration
- User friendly
- Full integration
- Real savings



**SUMMARY**

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This company participates in the Eurovent Certification Programme. The products are listed in the Directory of certified products. Eurovent certification applied to units with cooling capacity up to 1500 kW for air cooled water chillers and water cooled liquid chillers.

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

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

## 1. RANGE

### i-MXW

version with cabinet.



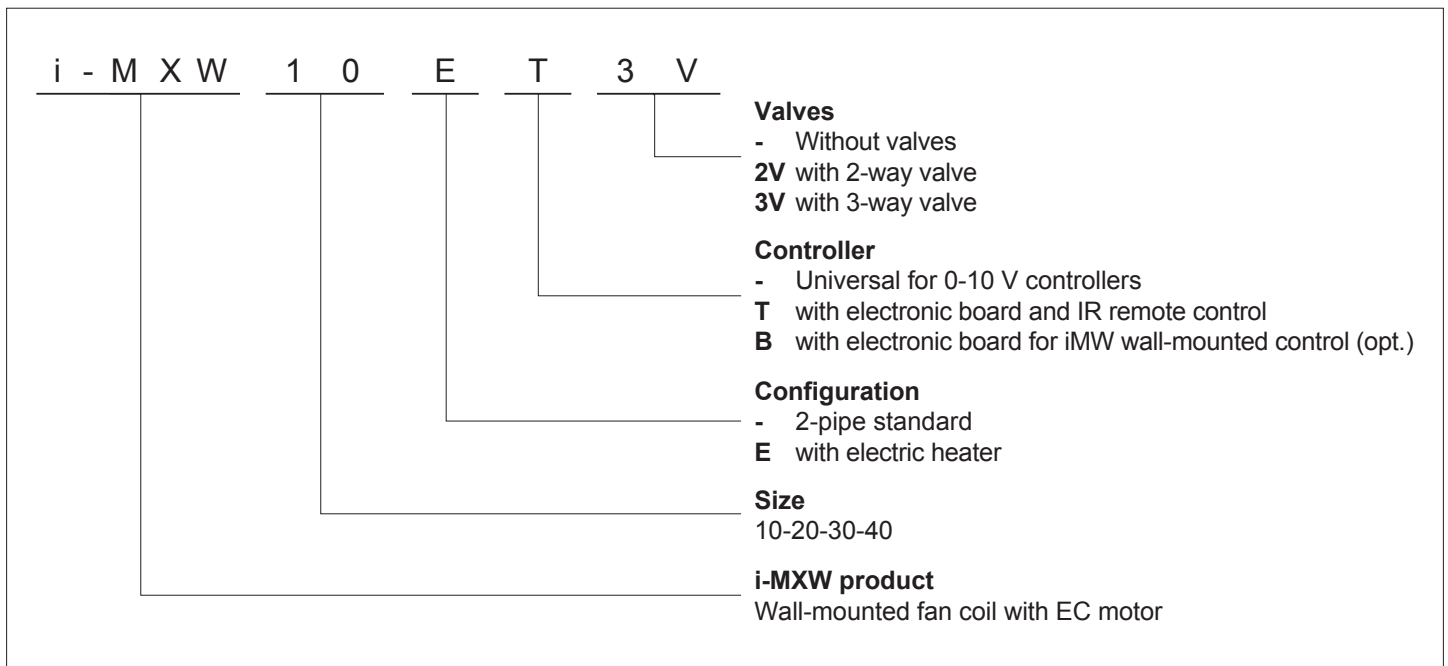
## 2. GENERAL DESCRIPTION

The new i-MXW range is brilliantly engineered to provide a more efficient, more silent and more compact cooling solution. The EC fan allows continuous, stepless airflow and capacity modulation so that the unit can easily follow any variation in the thermal load. The extreme efficiency offers a reduction in power consumption: up to 40% in comparison to a traditional AC fan.

The units are available for installation in 2-pipe system and in four sizes to meet any kind of installation requirement. The elegant design (RAL 9003 white colour) meets the needs of modern residential and commercial architecture: i-MXW compact silhouette perfectly fits in any environment, adding refined aesthetics to any interior.

i-MXW are characterized by high flexibility and versatility: a vast array of already mounted options (e.g. 2 way or 3 way valves and condensate pump can be mounted into the casing) together with the smart unit design ensures a quick and easy installation as well as easy maintenance operations.

## NOMENCLATURE



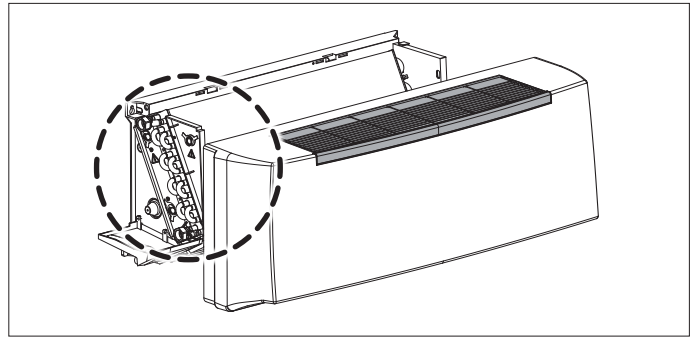
### 3. UNIT DESCRIPTION

#### **CASING**

Impact-proof synthetic material. It can be easily disassembled for complete access to the appliance. The air intake grill forming part of the cabinet, has fixed flaps and is positioned on the upper part.

Made of auto-extinguishing ABS UL94 HB plastic with high specifications and great resistance to aging. In RAL 9003, shiny surface.

The diffusion flap is adjusted manually in std version, and automatically with remote controllers (IR remote controller and iMW wall mounted thermostat)

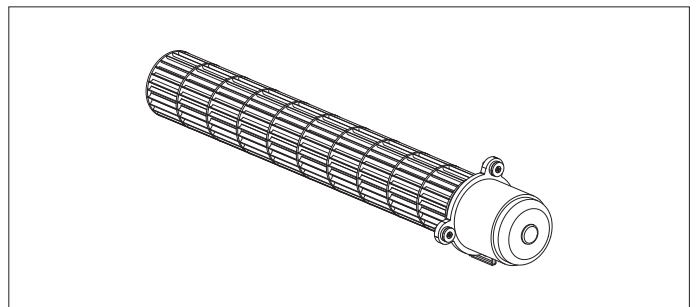


#### **FAN ASSEMBLY**

Consisting of tangential fan, particularly silent with statically and dynamically balanced plastic propeller, directly tapered onto the motor shaft.

#### **ELECTRIC MOTOR**

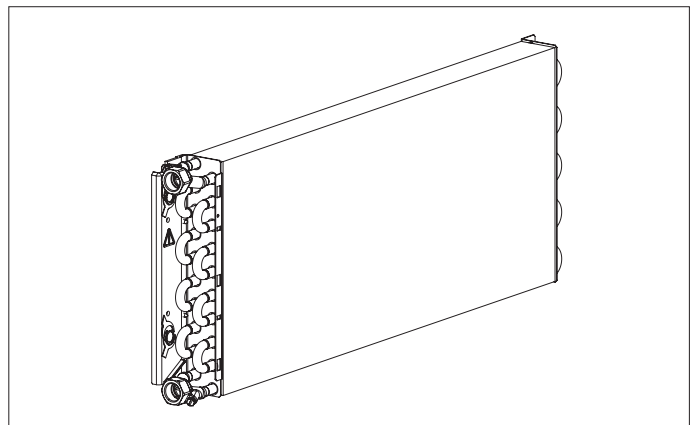
Three phase permanent magnet DC brushless electronic motor that is controlled with current reconstructed according to a BLAC sinusoidal wave. The inverter board that controls the motor operation is powered by 230 Volt, single-phase and, with a switching system, it generates a three-phase frequency modulated, wave form power supply. The electric power supply required for the machine is therefore singlephase with voltage of 230 V and frequency of 50 Hz.



#### **HEAT EXCHANGE COIL**

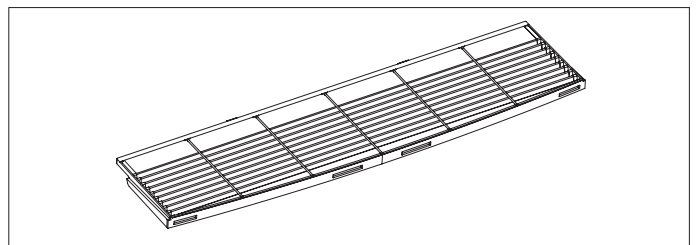
Made with aluminium finned copper tubes. The exchanger has two 1/2" female gas connections. Coil headers with air vents and water drain outlets (1/8" dia. gas). The connections are only on the left hand side facing the unit.

The heat exchanger is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion



#### **WASHABLE FILTER**

Washable-regenerable synthetic filter, readily accessible.



#### **CONDENSATE COLLECTION TRAY**

Plastic, L-shaped, fixed to internal structure. The outside diameter of the condensate discharge pipe is Ø 16mm.

#### **INSTALLATION TEMPLATE**

A cardboard installation template is supplied with every unit to help the mounting on the wall.

#### 4. OPERATING LIMITS

The basic specification of the fan coil and heat exchanger is given below:

##### Fan coil and heat exchanger:

- Maximum temperature of heat vector fluid: 70°C
- Minimum temperature of refrigerant fluid: 6°C
- Maximum working pressure: 1000 kPa
- Power supply voltage: 230V - 50Hz
- Electric energy consumption: see technical data label
- Index of protection: IP 20

The technical specification of the valves with thermoelectric actuator is given below:

##### Valves with thermoelectric actuator:

- Working pressure: 1000 kPa
- Power supply voltage: 230V~50Hz
- Rating VA / protection IP: 5 VA/IP 44
- Closing time: 180 sec.
- Maximum glycol content in water: 50%

##### Other technical data

All other important technical data (dimensions, weights, connections, noise emissions, etc.) are given elsewhere in this User Information Manual, in the separate technical documentation or in the technical proposal.

#### 5. MOTOR ELECTRICAL DATA - MAX. ABSORPTION

|            |          | MOTOR ABSORPTION |      |      |      |
|------------|----------|------------------|------|------|------|
| Mod.       |          | 10               | 20   | 30   | 40   |
| 230/1 50Hz | W (Max.) | 15               | 21   | 20   | 30   |
|            | A (Max.) | 0,14             | 0,19 | 0,18 | 0,26 |

## 6. ACCESSORIES COMPATIBILITY

| STANDARD CONFIGURATION |        |                            |      |    |    |    |  |
|------------------------|--------|----------------------------|------|----|----|----|--|
| Type                   | Option | Description                | Size |    |    |    | Note   |
|                        |        |                            | 10   | 20 | 30 | 40 |  |
| VERSION                | B771   | EC HYDRONIC HI-WALL        |      |    |    |    | The option 1-10 Vdc signal, which controls the inverter, must be supplied by a controller (e.g. ATW-EC).<br>Fan Drive Signal Fan OFF = 0 Vdc<br>Fan ON > 1 Vdc Max. speed = 10 Vdc<br>Blac-ECM Inverter board 0÷10 Vdc<br>Circuit Input Impedance Value = 68kOhm |
| POWER SUPPLY           | A552   | 230/1/50 POWER SUPPLY      |      |    |    |    |  |
| SYSTEM TYPE            | A611   | 2 PIPES SYSTEM             |      |    |    |    |  |
| FAN TYPE               | A646   | EC BRUSHLESS FAN           |      |    |    |    |  |
| HYDRAULIC CONNECTIONS  | A022   | LEFT HYDRAULIC CONNECTIONS |      |    |    |    |  |
| CONTROL UNIT           | B780   | WITHOUT CONTROL            |      |    |    |    |  |

| FACTORY MOUNTED OPTIONS |        |                                   |      |    |    |    |  |
|-------------------------|--------|-----------------------------------|------|----|----|----|--|
| Type                    | Option | Description                       | Size |    |    |    | Note   |
|                         |        |                                   | 10   | 20 | 30 | 40 |  |
| <b>CONTROL OPTION</b>   |        |                                   |      |    |    |    |  |
| CONTROL UNIT            | B781   | IR REMOTE CONTROL                 | √    | √  | √  | √  | The option includes an electronic power board, infra-red remote control and receiver.<br>Allows timer and automatic swing function. This can be combined to opt. 5573048000 to connect the unit to BMS (RS485) or for Master/Slave configuration.    |
| CONTROL UNIT            | B782   | ELECTRONICS CONTROL & SUPERVISION | √    | √  | √  | √  | The option includes an electronic power board to control the unit with opt. 5569020700 wall mounted controller iMW or 5573048200 IR remote control. Allows programming and automatic swing function. M/S configuration or connection to BMS (RS485). |

| <b>ELECTRIC HEATER</b> |      |                            |      |      |      |      |  |
|------------------------|------|----------------------------|------|------|------|------|--|
| ELECTRIC RESISTANCE    | A403 | 1000 W ELECTRIC RESISTANCE | √    | √    | N.A. | N.A. | The heater is hermetically sealed and supplied inside the battery pipes and therefore can be only factory mounted. The electrical heater is controlled in place of the hot water valve.<br>The electric heaters of the FLY-ECM units are single phase 230V supply. The electric heater is fitted with a overheat protection.<br>The unit is fitted with two safety thermostats:<br>• thermostat with manual reset.<br>• thermostat with automatic reset. |
| ELECTRIC RESISTANCE    | A405 | 1500 W ELECTRIC RESISTANCE | N.A. | N.A. | √    | √    |  |

| <b>2-WAY VALVES</b>      |      |                                |      |      |      |      |   |
|--------------------------|------|--------------------------------|------|------|------|------|---|
| BODY VALVES 2V2A         | A671 | MAIN COIL 1/2" 2V2A VALVE UNIT | √    | √    | N.A. | N.A. | 2-way valves kit. Body valve and actuator can not be supplied separately. |
| BODY VALVES 2V2A         | A673 | MAIN COIL 3/4" 2V2A VALVE UNIT | N.A. | N.A. | √    | √    |   |
| ACTUATOR VALVE TYPE 2V2A | A681 | ON-OFF 230V 50+60HZ 2V2A VAL.  | √    | √    | √    | √    |   |

| <b>3-WAY VALVES</b>      |      |                                |      |      |      |      |   |
|--------------------------|------|--------------------------------|------|------|------|------|---|
| BODY VALVES 3V4A         | A691 | MAIN COIL 1/2" 3V4A VALVE UNIT | √    | √    | N.A. | N.A. | 3-way valves kit. Body valve and actuator can not be supplied separately. |
| BODY VALVES 3V4A         | A693 | MAIN COIL 3/4" 3V4A VALVE UNIT | N.A. | N.A. | √    | √    |   |
| ACTUATOR VALVE TYPE 3V2A | A701 | ON-OFF 230V 50+60HZ 3V4A VAL.  | √    | √    | √    | √    |   |

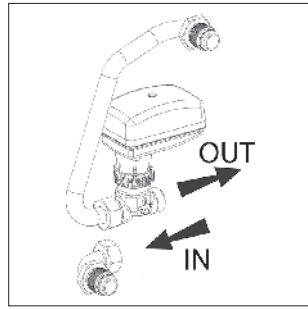
## 6. ACCESSORIES COMPATIBILITY

| OTHER LOOSE OPTIONS          |  |      |      |      |      |  |
|------------------------------|--|------|------|------|------|--|
| Option                       | Description                              | Size |      |      |      | Note   |
|                              |  | 10   | 20   | 30   | 40   |  |
| <b>CONTROL OPTION</b>        |  |      |      |      |      |  |
| 5549061400                   | KIT WALL THERMOSTAT ATW-EC CV            | √    | √    | √    | √    | Wall mounted thermostat, only in combination with opt. B780-unit std.  |
| 5569020700                   | KIT WALL PROGRAMMABLE THERMOSTAT         | √    | √    | √    | √    | Wall mounted programmable thermostat, only in coupling with opt. B782 control unit. Units can be managed according to the Master/Slave logic (up to 20 units) or by supervisory components.  |
| 5573048200                   | KIT IR REMOTE CONTROL AND RECEIVER       | √    | √    | √    | √    | The option includes infra-red remote control and receiver, only in coupling with opt. B782.  |
| 5573048000                   | MODBUS SERIAL INTERFACE MXW T            | √    | √    | √    | √    | Modbus serial interface, only in coupling with B781 to connect the unit to BMS (RS485) or in Master/Slave configuration.   |
| <b>WALL INSTALLATION KIT</b> |  |      |      |      |      |  |
| 5573048300                   | KIT FOR WALL/CONCEALED INSTALL MXW 10÷20 | √    | √    | N.D. | N.D. | Wall or concealed installation kit to be used as an installation template or in case the right connections are previously designed (the units are provided only with left connections). The technical space within the frame allows to connect the right hydraulic connections of the system and the left connections of the unit. Two installation are allowed:<br><ul style="list-style-type: none"> <li>• Recessed box installation.</li> <li>• Wall installation with aesthetic frame fitting the unit esthetically (the unit thickness increase of 60mm)</li> </ul> The aesthetic frame characteristics are:<br><ul style="list-style-type: none"> <li>• Galvanized steel painted RAL 9003</li> <li>• Pre-drilled panels for cables and ductworks</li> <li>• Internal insulation</li> </ul> |
| 5573048400                   | KIT FOR WALL/CONCEALED INSTALL MXW 0÷40  | N.D. | N.D. | √    | √    |  |
| <b>2-WAY VALVES</b>          |  |      |      |      |      |  |
| 5573048500                   | KIT ON-OFF 2-W VALVE MXW 10÷20 W/ACT     | √    | √    | N.D. | N.D. | 2-way valves kit with body valve and actuator.   |
| 5573048600                   | KIT ON-OFF 2-W VALVE MXW 30÷40 W/ACT     | N.D. | N.D. | √    | √    |  |
| <b>3-WAY VALVES</b>          |  |      |      |      |      |  |
| 5573048700                   | KIT ON-OFF 3-W VALVE MXW 10÷20 W/ACT     | √    | √    | N.D. | N.D. | 3-way valves kit with body valve and actuator.   |
| 5573048800                   | KIT ON-OFF 3-W VALVE MXW 30÷40 W/ACT     | N.D. | N.D. | √    | √    |  |
| <b>OTHER</b>                 |  |      |      |      |      |  |
| 5573047900                   | KIT CONDENSATE PUMP MXW                  | √    | √    | √    | √    | Condensate drain pump, to be installed inside the cabinet.   |
| 5573048100                   | T2 PROBE CHANGEOVER MXW B/T              | √    | √    | √    | √    | Change Over probe T2 for enabling automatic changer-over function, only in coupling with B781 or B782 control units. The probe (1800mm) must be positioned before the 3 way valve. Not available for units with el. heater and/or 2 way valve.   |

## 7. ACCESSORIES

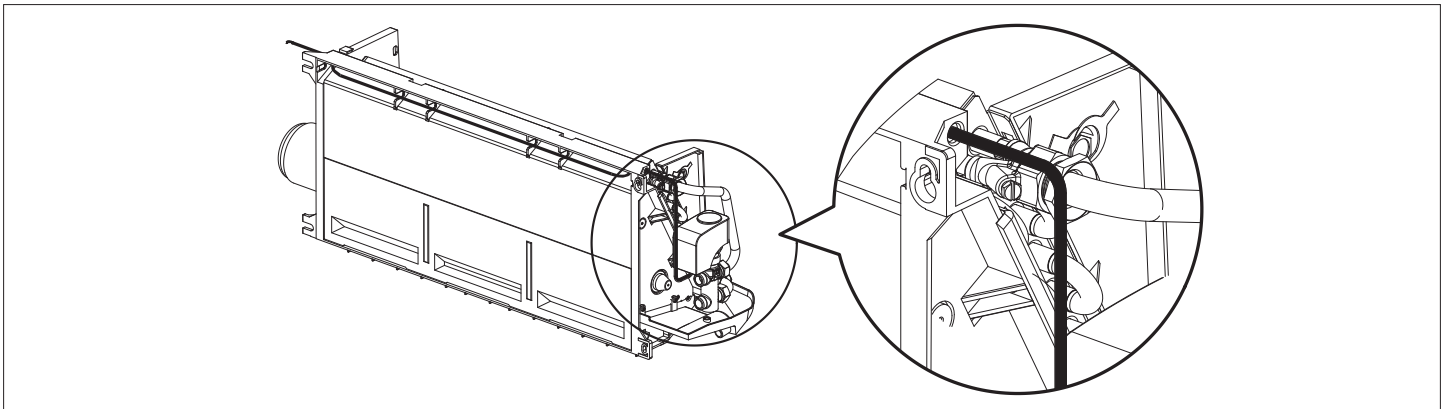
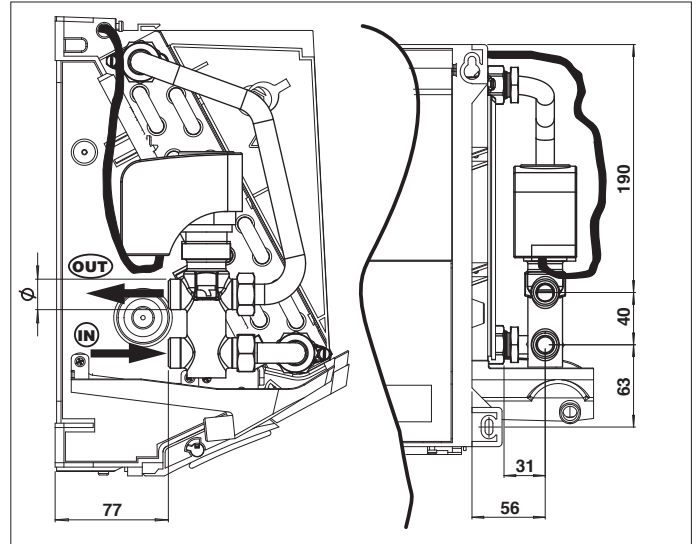
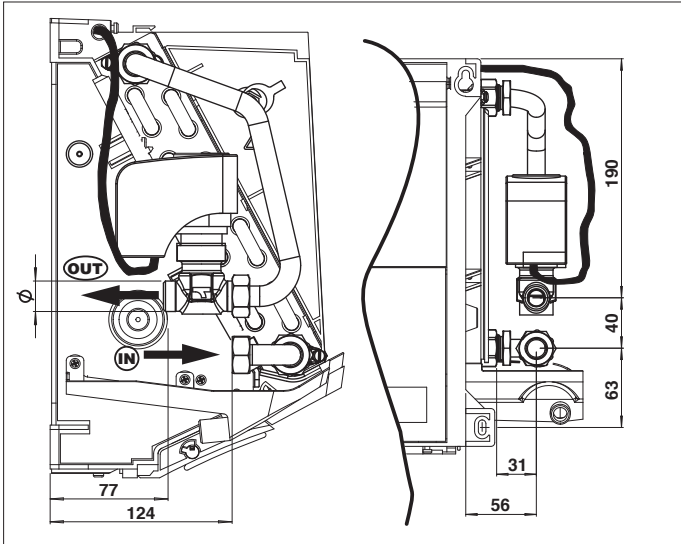
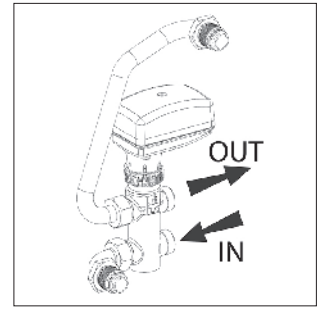
### 2-WAY VALVE

2-way valves kit with body valve and ON/OFF 230V actuator. Available as factory mounted option (A671/A673, A681) or supplied loose (5573048500; 5573048600).

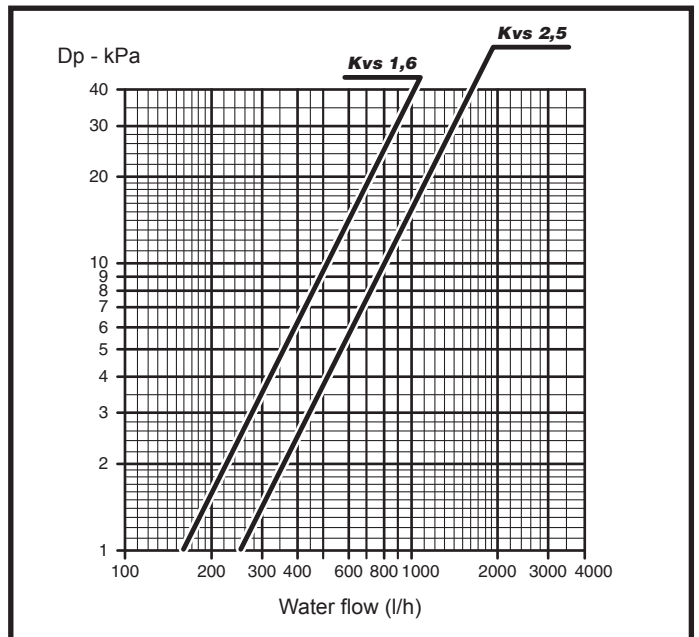


### 3-WAY VALVE

3-way valves kit with body valve and ON/OFF 230V actuator. Available as factory mounted option (A691/A693, A701) or supplied loose (5573048700; 5573048800).



| Valve |    |        |     | Not fitted |            |
|-------|----|--------|-----|------------|------------|
| Mod.  | DN | (Ø)    | Kvs | Code       |            |
|       |    |        |     | 2 way      | 3 way      |
| 10-20 | 15 | 1/2" G | 1,6 | 5573048500 | 5573048700 |
| 30-40 | 20 | 3/4" G | 2,5 | 5573048600 | 5573048800 |





7. ACCESSORIES

**ELECTRIC HEATER**

The heater is hermetically sealed and supplied inside the battery pipes and therefore can be only factory mounted. The electric heaters are single phase 230V supply. The electric heater is fitted with a overheat protection.

Maximum ambient air temperature with electric heater in heating mode: +25°C  
Power supply single-phase rated operating voltage: 230/1/50 (Vac/Ph/Hz)

The unit is fitted with two safety thermostats:

- one thermostat with manual reset.
- one thermostat with automatic reset.

| Model  | i-MXW E 10-20          | i-MXW E 30-40          |
|--|------------------------|------------------------|
| Nominal installed power                            | 1000 Watt              | 1500 Watt              |
| Nominal power voltage                              | 230V ~                 | 230V ~                 |
| Number and section of connecting wires             | 3 x 1,5mm <sup>2</sup> | 3 x 1,5mm <sup>2</sup> |
| Current input                                      | 4,5 A                  | 7 A                    |
| Recommended fuse (Typo gG) for overload protection | 6 A                    | 8 A                    |

**KIT FOR WALL OR CONCEALED INSTALLATION**

Wall or concealed installation kit to be used as an installation template or in case the right connections are previously designed (the units are provided only with left connections). The technical space within the frame allows to connect the right hydraulic connections of the system and the left connections of the unit.

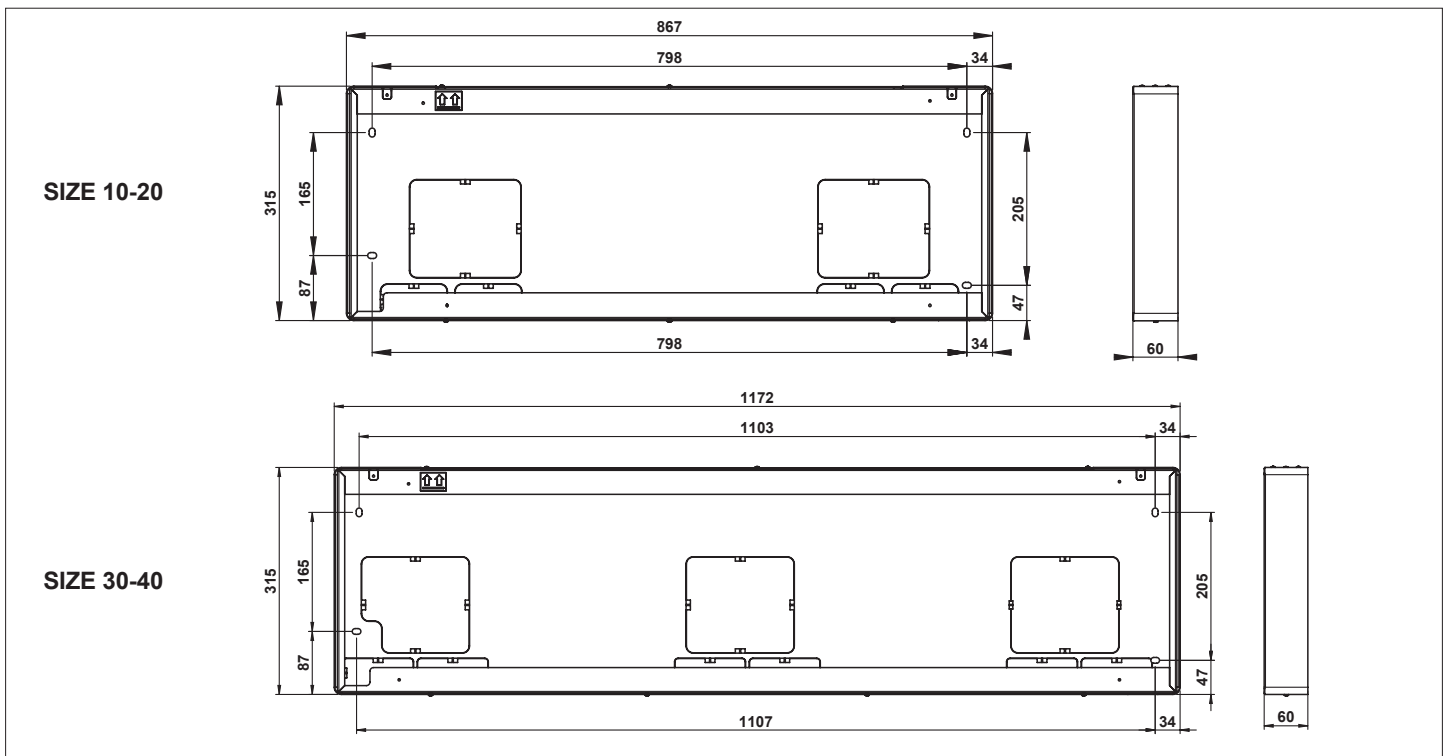
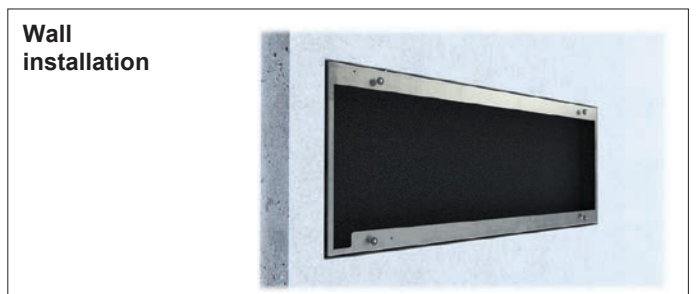
Two installation are allowed:

- Recessed box installation.
- Wall installation with aesthetic frame fitting the unit esthetically (the unit thickness increase of 60mm)

The aesthetic frame characteristics are:

- Galvanized steel painted RAL 9003
- Pre-drilled panels for cables and ductworks
- Internal insulation.

| Mod.        | Kit code   |
|-------------|------------|
| i-MXW 10-20 | 5573048300 |
| i-MXW 30-40 | 5573048400 |

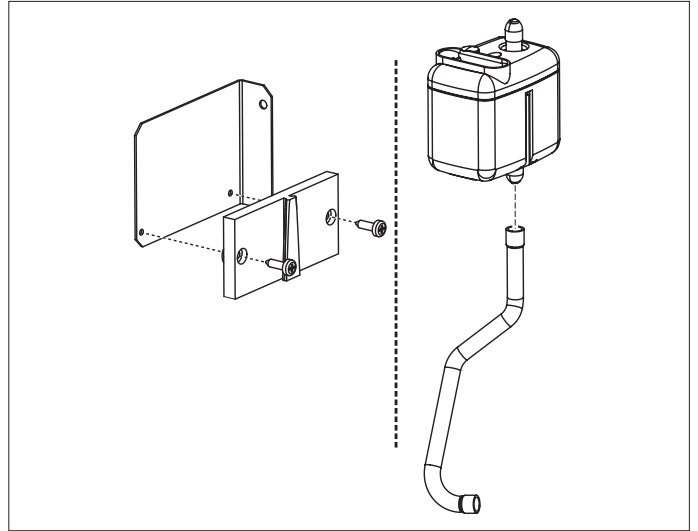


## 7. ACCESSORIES

### CONDENSATE DRAIN PUMP

Condensate drain pump, supplied loose.

| Height for vertical flow (m) | Water flow (l/h) depending on the length of horizontal flow |     |
|------------------------------|---|-----|
|                              | 5m  | 10m |
| 1                            | 7,6   | 7,2 |
| 2                            | 5,6   | 5,2 |
| 3                            | 4,0   | 3,7 |
| 4                            | 3,2   | 2,9 |



## 8. CONTROL OPTIONS

### STANDARD UNIT CONFIGURATION - B780

For std units, the 1-10 Vdc signal to control the inverter must be supplied by a controller (e.g. ATW-EC).

#### Fan Drive Signal

Fan OFF = 0 Vdc

Fan ON > 1 Vdc

Max. speed = 10 Vdc

#### Blac-ECM Inverter board

0÷10 Vdc Circuit Input Impedance Value = 68kOhm

Note: Manual vertical and horizontal air flow management.

### WIRING DIAGRAM

- 2-tube installation (1 valve)
- Thermostatic control of the valve
- Condensate pump

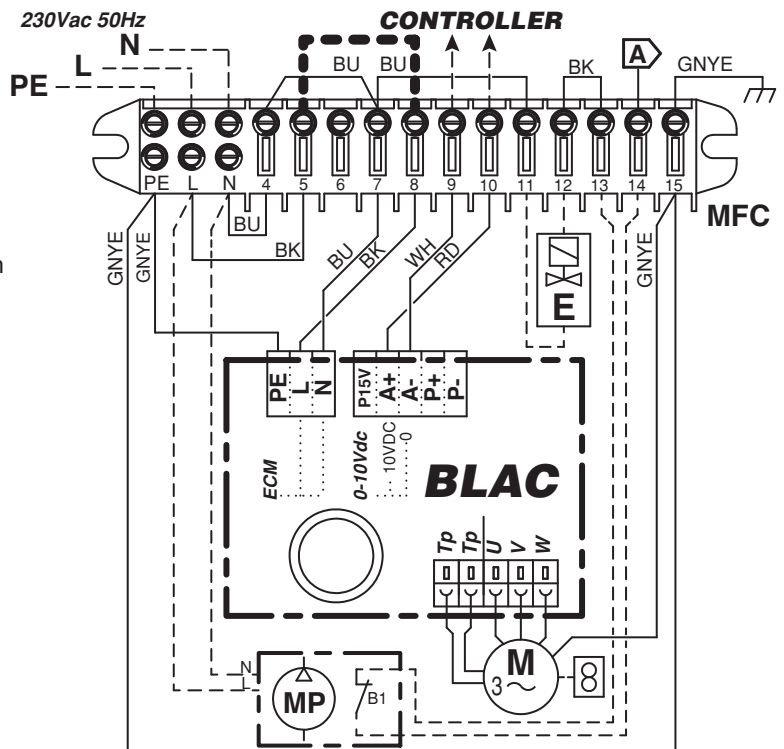
#### KEY:

|                   |  |
|-------------------|--|
| <b>MFC</b>        | Fan coil terminal board                |
| <b>M</b>          | Fan                                    |
| <b>E</b>          | Water valve                            |
| <b>BLAC</b>       | Inverter circuit board                 |
| <b>TP</b>         | Motor fan thermal protector connection |
| <b>0-10Vdc</b>    | Input signal                           |
| <b>U/V/W</b>      | Motor fan connection                   |
| <b>A+/A-</b>      | Digital fault signals                  |
| <b>P+/P-</b>      | Digital fault signals                  |
| <b>CONTROLLER</b> | Controller                             |
| <b>MP</b>         | Condensate pump                        |
| <b>GNYE</b>       | Yellow/Green                           |
| <b>WH</b>         | White                                  |
| <b>RD</b>         | Red                                    |
| <b>BK</b>         | Black                                  |
| <b>BU</b>         | Dark Blue                              |
| <b>A</b>          | Input for "E"                          |

**Warning! Jumper terminals 5 and 8**

**0÷10 Vdc Circuit Input Impedance Value= 68kOhm**

**Warning! The same signal supplied by one controller cannot be branched to control multiple fan coils.**



## 8. CONTROL OPTIONS

### STANDARD UNIT CONFIGURATION - B780

For std units, the 1-10 Vdc signal to control the inverter must be supplied by a controller (e.g. ATW-EC).

ATW-EC WALL MOUNTED THERMOSTAT compatible only with opt. B780

- Mode (OFF/COOLING/HEATING/AUTO) and fan speed control (Max/Med/Min/AUTO).
- Air temperature set-point
- Main coil valve ON/OFF control in cooling/heating operation.
- Electric heater control.
- Proportional control 0-10Vdc of the fan speed.
- Digital input configurable as: window contact, economy, heating or cooling remote changeover.
- Periodic ventilation set. HOT START function (heating mode only). TOO COOL function (cooling mode only).
- Blue LEDs indicates system's turning-on, mode and fan speed.
- 230V~ or 24V~ 50-60Hz power supply.



The ATW-EC thermostat cannot be connected in BMS centralized management system.

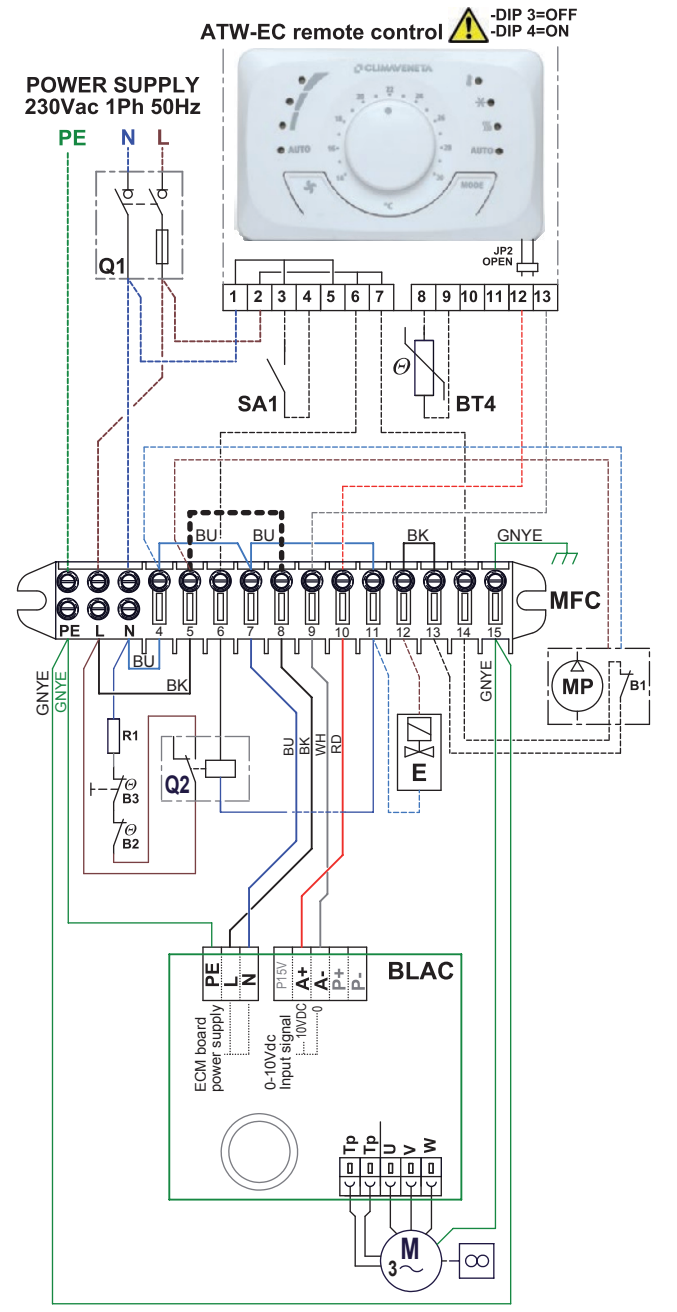
### CONTROL SIGNALS AND WIRING DIAGRAMS FOR ATW-EC CONNECTION

- 2-tube installation (1 valve)
- Thermostatic control on the valve
- Condensate pump

**KEY:**

- MFC** Fan coil terminal board
- M** Fan
- E** Water valve
- BLAC** Inverter circuit board
- ATW** ATW-EC wall-mounted control
- BT4** Water temp. probe
- SA1** "NO" multifunction contact
- TP** Motor fan thermal protector connection
- 0-10Vdc** Input signal
- U/V/W** Motor fan connection
- A+/A-** Digital fault signals
- P+/P-** Digital fault signals
- MP** Condensate pump
- R1** Electrical heater
- B2** Self reset safety thermostat
- B3** Manual reset safety thermostat
- Q1** Disconnect switch
- Q2** Electrical heater Power-ON relay

- GNYE** Yellow/Green
- WH** White
- RD** Red
- BK** Black
- BU** Dark Blue



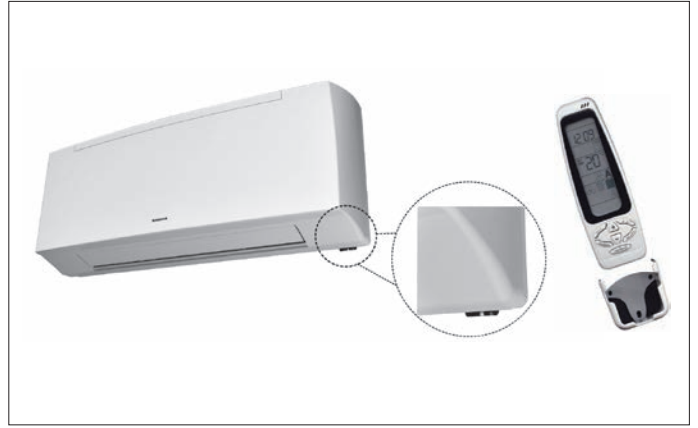
## 8. CONTROL OPTIONS

### UNIT WITH INFRA-RED REMOTE CONTROLLER - B781

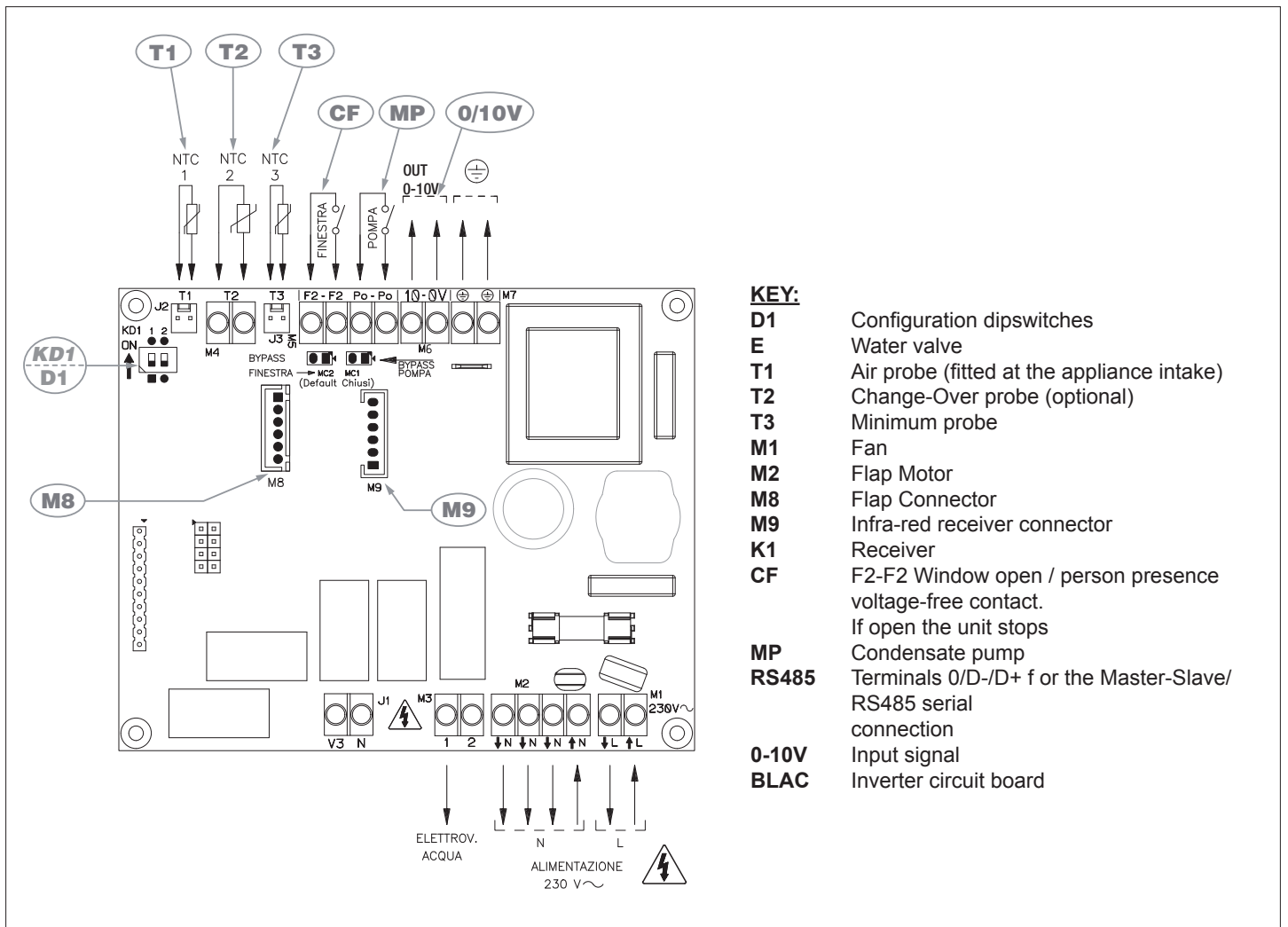
The unit includes an electronic power board, an infra-red remote control and semi-integrated IR receiver (factory mounted).

- Fan speed control (Max/Med/Min/AUTO).
- Air temperature set-point
- Operating Mode (OFF/COOLING/HEATING/AUTO\*)
- Main coil valve ON/OFF control in cooling/heating operation.
- Electric heater control.
- Automatic vertical swing of the flap
- ON/OFF timer

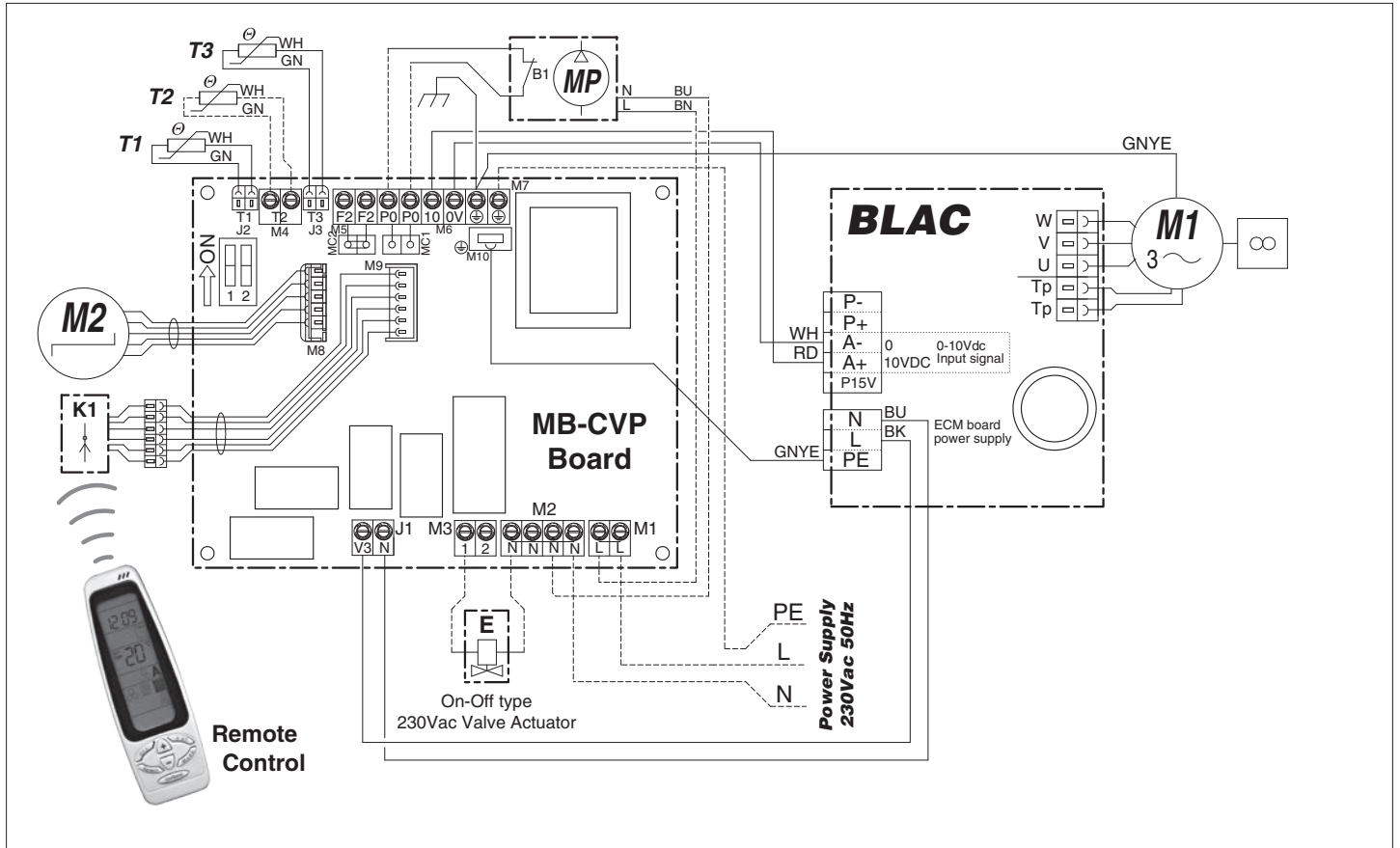
\* Opt. change over probe T2 (5573048100) required for enabling automatic changer-over function, only in coupling with B781 or B782 control units.



This option can be combined to opt. 5573048000 to connect the unit to BMS (RS485), max. no. 60 i-MXW units, or for Master/Slave configuration with up to 20 units controlled simultaneously. Settings transmitted only by Master unit and its controller.

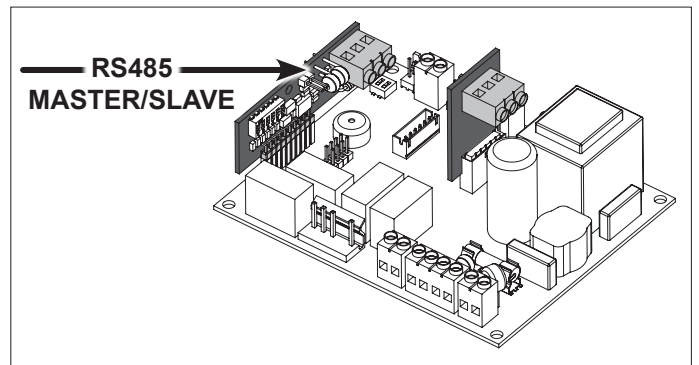


8. CONTROL OPTIONS



**MODBUS SERIAL INTERFACE (5573048000)**

The serial interface allows the connection of i-MXW to BMS via RS485 (max. no. 60 i-MXW units), or for Master/Slave configuration with up to 20 units controlled simultaneously. Settings transmitted only by Master unit and its controller. Supplied loose.



## 8. CONTROL OPTIONS

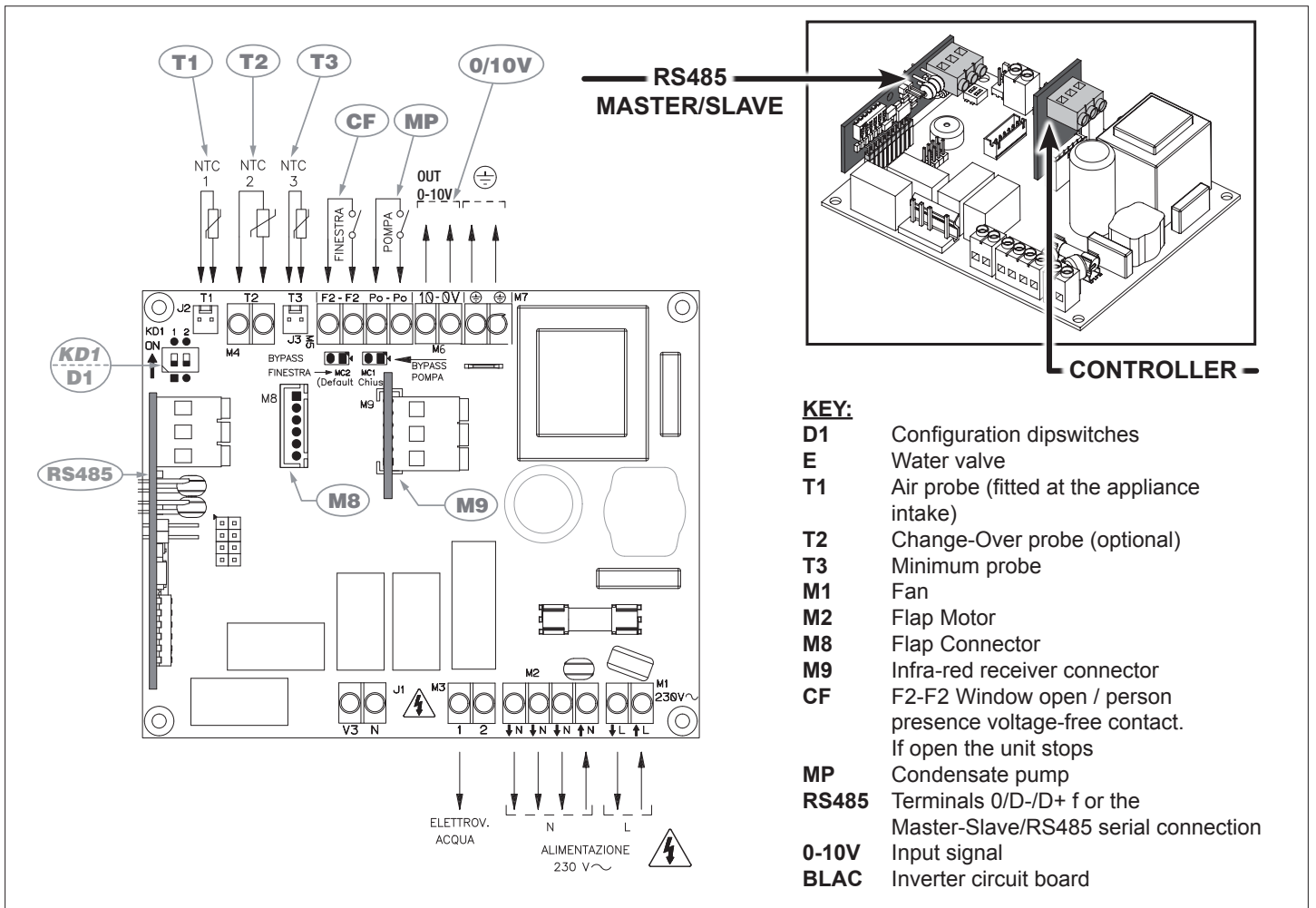
### UNIT WITH POWER BOARD - B782

The option includes an electronic power board to control the unit with opt. 5569020700 wall mounted controller iMW (or 5573048200 IR remote control).

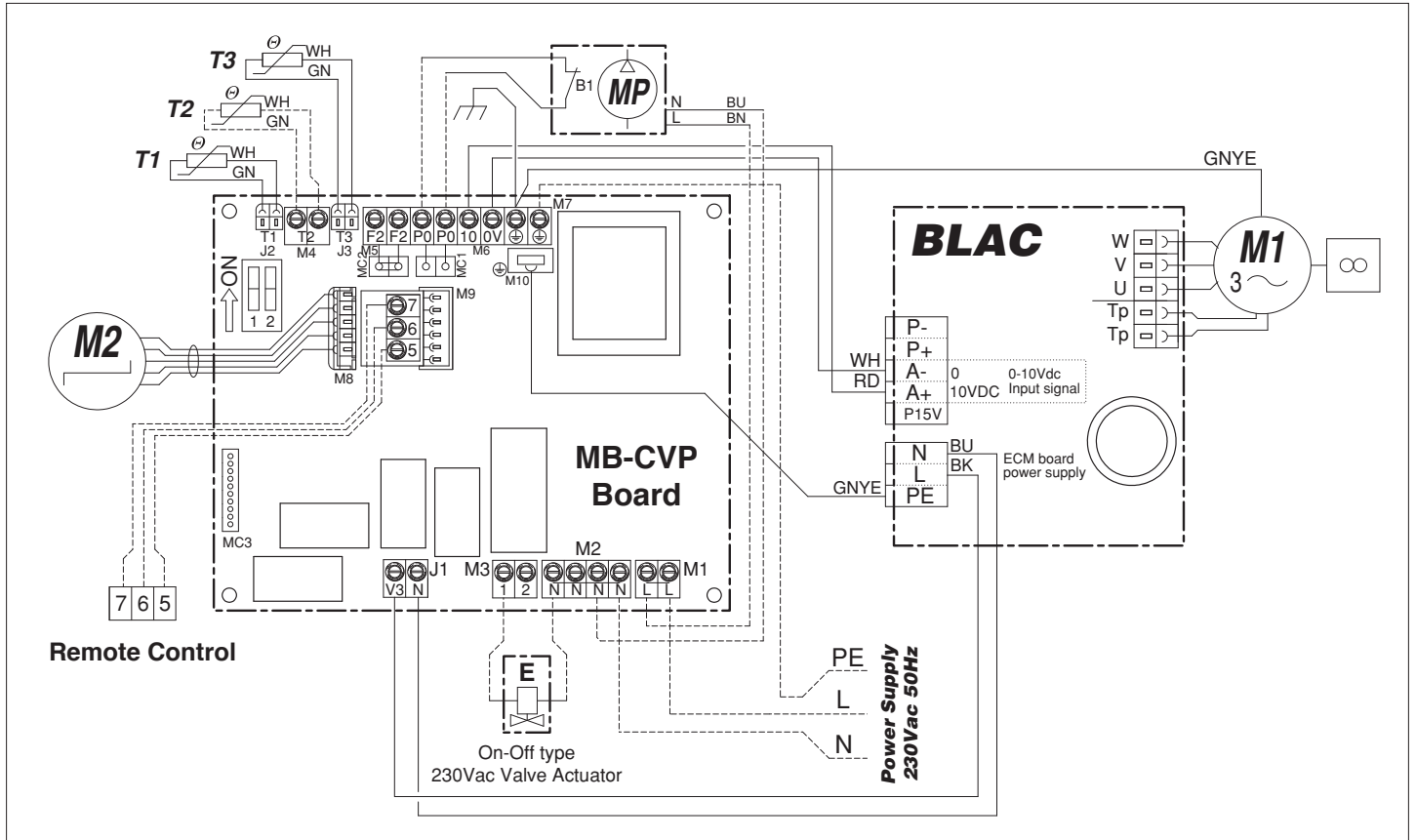
iMW WALL MOUNTED PROGRAMMABLE THERMOSTAT (5569020700) compatible only with opt. B782

- Fan speed control (Max/Med/Min/AUTO).
- Air temperature set point
- Operating Mode (OFF/COOLING/HEATING/AUTO\*/VENTILATION)
- Main coil valve ON/OFF control in cooling/heating operation.
- Electric heater control.
- Automatic vertical swing of the flap
- Weekly ON/OFF scheduling (1 operating interval per day)
- Master/Slave configuration with up to 20 units controlled simultaneously. Settings transmitted only by Master unit and its controller.
- BMS connectivity via RS485 serial line, max. no. 60 i-MXW units

\* Opt. change over probe T2 (5573048100) required for enabling automatic changer-over function, only in coupling with B781 or B782 control units.



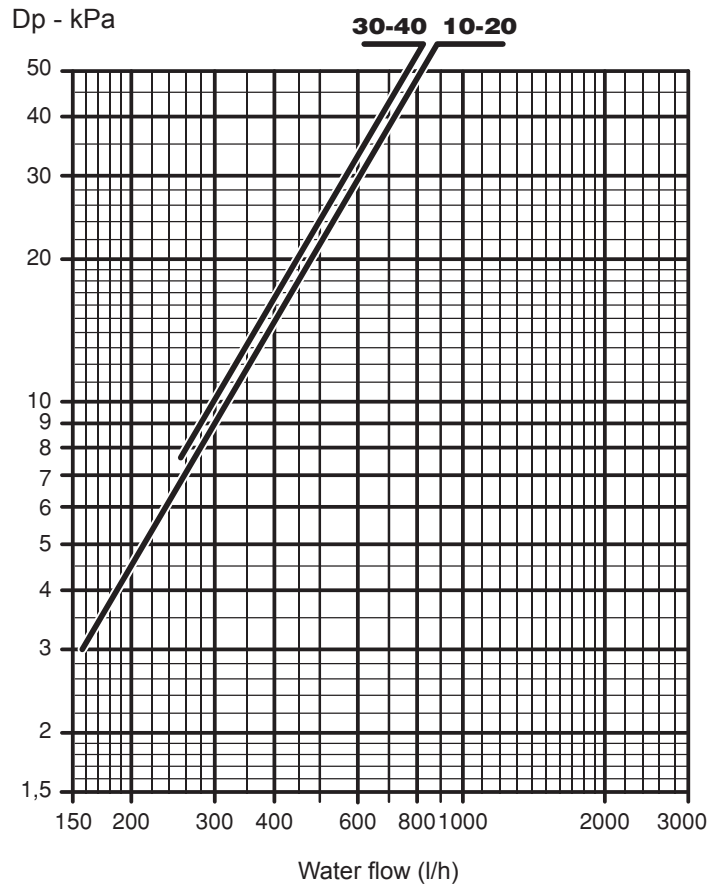
## 8. CONTROL OPTIONS

**CHANGE OVER PROBE**

Opt. change over probe T2 (5573048100) required for enabling automatic changer-over function, only in coupling with B781 or B782 control units.

The probe (1800mm) must be positioned before the 3 way valve. Not available for units with el. heater and/or 2 way valve.

9. COIL PRESSURE DROP

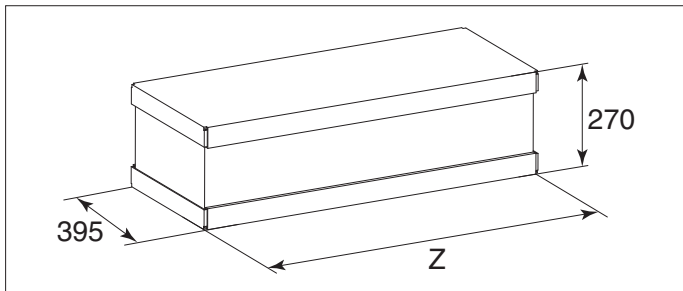
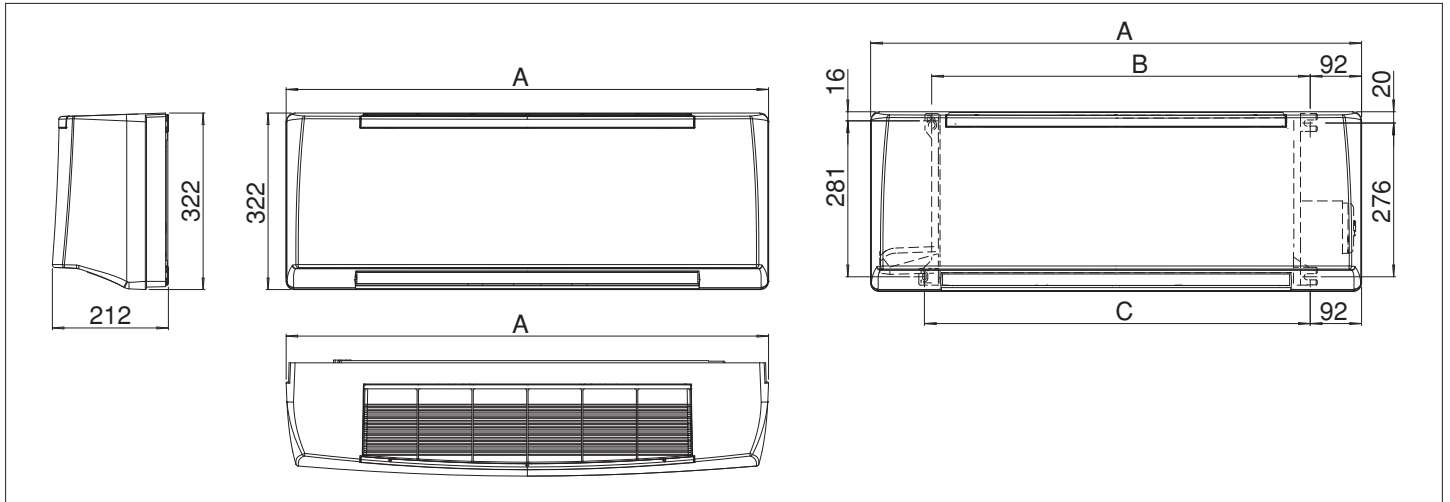


The table indicates the pressure drop for a mean water temperature of **10°C**.  
 For different water temperatures multiply by the correction factors **K**.

| °C       | 20   | 30   | 40   | 50   | 60   | 70   | 80   |
|----------|------|------|------|------|------|------|------|
| <b>K</b> | 0,94 | 0,90 | 0,86 | 0,82 | 0,78 | 0,74 | 0,70 |



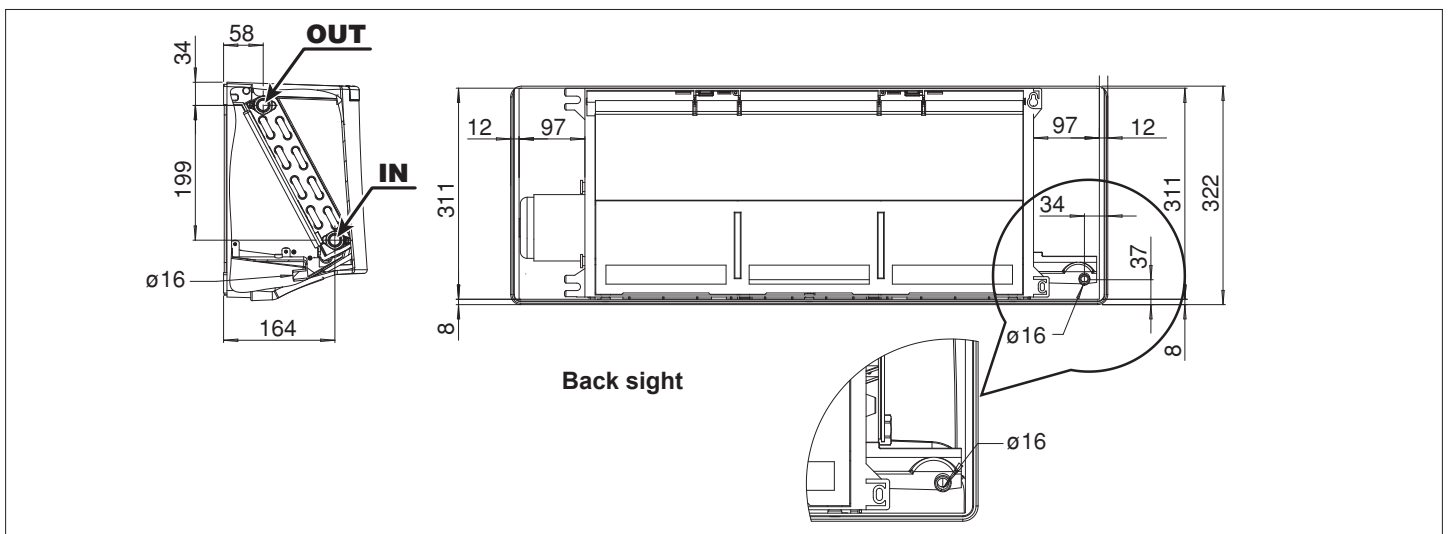
10. DIMENSIONAL DATA



|      |   | DIMENSIONS |     |      |      |
|------|---|------------|-----|------|------|
| Mod. |   | 10         | 20  | 30   | 40   |
| mm   | A | 880        | 880 | 1185 | 1185 |
|      | B | 678        | 678 | 983  | 983  |
|      | C | 691        | 691 | 996  | 996  |
|      | Z | 950        | 950 | 1255 | 1255 |

|                |    | WEIGHT      |    |    |    |               |    |    |    |
|----------------|----|-------------|----|----|----|---------------|----|----|----|
| Mod.           |    | 10          | 20 | 30 | 40 | 10            | 20 | 30 | 40 |
|                |    | Packed unit |    |    |    | Unpacked unit |    |    |    |
| without valves | kg | 12          | 12 | 16 | 16 | 10            | 10 | 13 | 13 |
| with valves    | kg | 13          | 13 | 17 | 17 | 11            | 11 | 14 | 14 |

11. HYDRAULIC CONNECTIONS



|        |  | WATER CONTENTS |      |      |      |
|--------|--|----------------|------|------|------|
| Mod.   |  | 10             | 20   | 30   | 40   |
| Liters |  | 0,85           | 0,85 | 1,28 | 1,28 |



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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