

**mitsubishi electric**  
**HYDRONICS & IT COOLING SYSTEMS S.p.A.**

COMFORT

HYDRONIC TERMINALS

i-MXW

**HIGH WALL FAN COIL UNIT**  
**FROM 2,0 TO 3,7 kW**



# A NEW WAY OF LIVING COMFORT







i-MXW

## HIGHLY DEVOTED TO YOUR COMFORT



### High Wall unit from 2,0 to 3,7 kW

i-MXW is the new range of high wall units for residential and professional applications.

Thanks to an elegant and compact design, i-MXW fits any kind of ambient and application, even those sensible to aesthetics.

### COMFORT APPLICATIONS

- ✓ Dwellings
- ✓ Residential buildings
- ✓ Hotels
- ✓ Office buildings
- ✓ Small commercial applications

### PERFECT COMFORT

The new i-MXW range is brilliantly engineered to provide a more efficient, more silent and more compact cooling solution.

i-MXW is equipped with EC fan, ensuring the continuous capacity modulation to meet the thermal loads always offering uncompromised energy and acoustic performance.



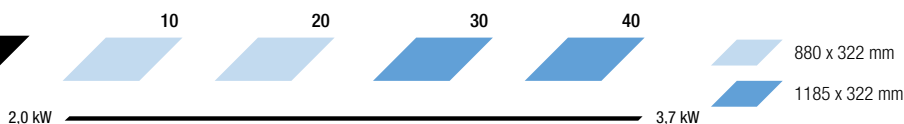
### VERSIONS

The units are available for installation in 2-pipe systems and in four sizes to meet any kind of installation requirement.

i-MXW

#### EC-FANS

2 pipes



Total cooling capacity at maximum speed: 12°/7° inlet/outlet water temperature; 27° (19°C) Air temperature [inlet dry bulb (inlet wet bulb)]

Electric heater (Opt.)

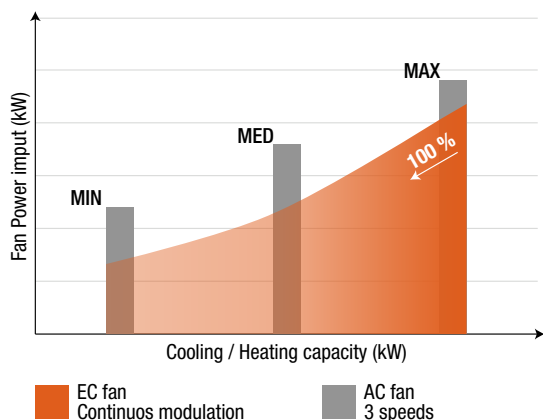


The Electric heater is automatically controlled in place of hot water valve

# Uncompromising comfort, efficiency and design

## i-MXW CONTINUOUS CAPACITY MODULATION FOR THE HIGHEST EFFICIENCY

### REAL SAVINGS



Up to  
**-40%**

power  
consumption

The inverter technology 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.

### SILENT OPERATION



Designed for the maximum acoustic comfort at all fan speeds. The unit operates always at the lowest fan speed to keep the temperature set-point ensuring low noise emissions.

### ELEGANT AND STYLISH DESIGN

The new high-wall unit i-MXW offers an elegant design to meet the requirements of modern residential and commercial architecture. i-MXW compact silhouette perfectly fits in any environment, adding refined aesthetics to any interior.



### QUICK & EASY INSTALLATION



i-MXW are characterized by high flexibility and versatility: a vast array of already mounted options together with the smart unit design ensures a quick and easy installation as well as easy maintenance operations.

### COMPLETELY RELIABLE OPERATION

All components used in the i-MXW range are in line with the high quality standards of Mitsubishi Electric Hydronics and IT Cooling Systems.

# EVERYTHING UNDER YOUR CONTROL

## CONTROL OPTIONS

### BASE-LINE UNIT

The 1-10 Vdc signal, which controls the inverter, must be supplied by a controller (e.g. ATW-EC).



#### ATW-EC

- ✓ Operating modes selection
- ✓ Fan speed control (0-10Vdc), AUTO.
- ✓ ON/OFF valve unit control.
- ✓ Electric heater control.
- ✓ Configurable digital input.

### IR REMOTE CONTROL

Infra-red remote control and receiver. Allows timer and automatic swing function.



This can be combined to opt. 5573048000 to connect the unit to BMS (R485) or Master/Slave connection (up to 20 units)

### WALL MOUNTED CONTROL

Wall mounted programmable thermostat, only in coupling with opt. power board.



#### IMW

- ✓ Operating modes selection
- ✓ Fan speed control (0-10Vdc), AUTO.
- ✓ ON/OFF valve unit control.
- ✓ Electric heater control.
- ✓ Time scheduling
- ✓ Master/Slave connection (up to 20 units or BMS connectivity (RS485)

## FURTHER OPTIONS

### 2-WAY VALVE

2-way valve and ON/OFF 230V valve kit, factory mounted or loose kit

### 3-WAY VALVE

3-way valve and ON/OFF 230V valve kit, factory mounted or loose kit

### ELECTRIC HEATER

1ph/230V supply, hermetically sealed and supplied inside the coil. The electrical heater is controlled in place of the hot water valve. Factory mounted

### CONDENSATE PUMP

Condensate drain pump, fits in the unit's body. Supplied loose

### WALL INSTALLATION KIT

Kit for wall or concealed installation to change hydraulic connections from left to right.

### CHANGE-OVER TEMP. PROBE

Change-Over probe T2 for enabling automatic change-over function, only in coupling with IR remote control or iMW wall mounted control



## i-MXW

High wall fan coil unit

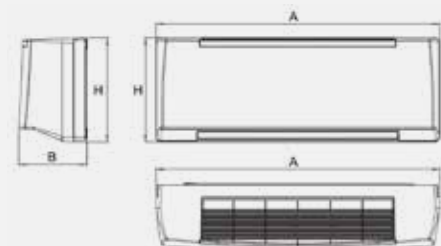


i-MXW			10	20	30	40
<b>ELECTRICAL DATA</b>						
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
<b>2 PIPES SYSTEM CONFIGURATION</b>						
<b>ENERGY EFFICIENCY</b>						
<b>COOLING (EN14511 VALUE)</b>						
FCEER	(1)(6)	kW/kW	180	176	256	215
FCEER Class			B	B	A	A
<b>HEATING ONLY (EN14511 VALUE)</b>						
FCCOP	(2)(6)	kW/kW	201	204	266	229
FCCOP Class			B	B	A	B
<b>PERFORMANCE</b>						
<b>MIN SPEED</b>						
Fan Power Input	(1)	W	6,27	7,32	6,74	9,54
Air flow rate	(1)	m <sup>3</sup> /h	190	260	270	375
<b>Total capacity in cooling mode</b>	(1)	kW	1,17	1,47	1,83	2,34
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	1,16	1,46	1,82	2,33
Sensible capacity in cooling mode	(1)	kW	0,86	1,10	1,31	1,70
Net sensible cooling capacity	(1)(6)(7)	kW	0,85	1,09	1,30	1,69
Net latent power in cooling	(1)(6)(7)	kW	0,31	0,37	0,52	0,64
Water flow in cooling mode	(1)	l/s	0,06	0,07	0,09	0,11
Pressure Drop in cooling mode	(1)	kPa	4,3	6,5	10,5	16,4
<b>Total capacity (heating mode)</b>	(2)	kW	1,25	1,62	1,82	2,39
<b>Total Net Heating Capacity</b>	(2)(6)	kW	1,26	1,63	1,83	2,40
Water flow in heating mode	(2)	l/s	0,06	0,08	0,09	0,12
Pressure drop in heating mode	(2)	kPa	4,1	6,5	8,8	14,3
Sound Pressure	(3)	dB(A)	28	31	28	34
Sound Power	(4)(7)	dB(A)	37	40	37	43
<b>MED SPEED</b>						
Fan Power Input	(1)	W	8,67	11,7	10,1	15,2
Air flow rate	(1)	m <sup>3</sup> /h	290	375	420	550
<b>Total capacity in cooling mode</b>	(1)	kW	1,58	1,87	2,53	3,04
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	1,57	1,86	2,52	3,03
Sensible capacity in cooling mode	(1)	kW	1,20	1,46	1,86	2,29
Net sensible cooling capacity	(1)(6)(7)	kW	1,19	1,45	1,85	2,27
Net latent power in cooling	(1)(6)(7)	kW	0,38	0,41	0,67	0,75
Water flow in cooling mode	(1)	l/s	0,08	0,09	0,12	0,15
Pressure Drop in cooling mode	(1)	kPa	7,4	10,0	19,0	26,4
<b>Total capacity (heating mode)</b>	(2)	kW	1,77	2,17	2,62	3,24
<b>Total Net Heating Capacity</b>	(2)(6)	kW	1,78	2,18	2,63	3,26
Water flow in heating mode	(2)	l/s	0,09	0,10	0,13	0,16
Pressure drop in heating mode	(2)	kPa	7,4	10,8	16,6	24,3
Sound Pressure	(3)	dB(A)	37	38	36	40
Sound Power	(4)(7)	dB(A)	46	47	45	49
<b>MAX SPEED</b>						
Fan Power Input	(1)	W	15,1	21,1	20,2	30,2
Air flow rate	(1)	m <sup>3</sup> /h	415	510	620	770
<b>Total capacity in cooling mode</b>	(1)	kW	2,00	2,26	3,29	3,75
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	1,99	2,24	3,27	3,72
Sensible capacity in cooling mode	(1)	kW	1,57	1,83	2,50	2,92
Net sensible cooling capacity	(1)(6)(7)	kW	1,56	1,81	2,48	2,89
Net latent power in cooling	(1)(6)(7)	kW	0,43	0,43	0,79	0,83
Water flow in cooling mode	(1)	l/s	0,10	0,11	0,16	0,18
Pressure Drop in cooling mode	(1)	kPa	11,4	14,1	30,7	38,7
<b>Total capacity (heating mode)</b>	(2)	kW	2,33	2,72	3,55	4,17
<b>Total Net Heating Capacity</b>	(2)(6)	kW	2,35	2,74	3,57	4,20
Water flow in heating mode	(2)	l/s	0,11	0,13	0,17	0,20
Pressure drop in heating mode	(2)	kPa	12,0	15,9	28,2	37,7
Sound Pressure	(3)	dB(A)	43	46	44	48
Sound Power	(4)(7)	dB(A)	52	55	53	57
<b>SIZE AND WEIGHT</b>						
A	(5)	mm	880	880	1185	1185
B	(5)	mm	212	212	212	212
H	(5)	mm	322	322	322	322
Operating weight	(5)	kg	10	10	13	13

### Notes:

- Room temperature 27°C d.b./18,9°C w.b., Chilled water (in/out) 7°C/12°C.
- Room temperature 20°C d.b., hot water (in/out) 45°C/40°C.
- Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground.  
Non-binding value obtained from sound power level.
- Sound power on the basis of measurements made in compliance with ISO 3741 and Eurovent 8/2.
- Unit in standard configuration, without optional accessories.
- Values in compliance with EN14511
- Values in compliance with [REGULATION (EU) N. 2016/2281]

Data certified in EUROVENT





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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