

MIH

Multisplit system heat pumps
MultiSplit System with capacities from 4.0 to 8.4 kW with Inverter

Heating mode operation with external temperature down to -15°C

R410A



MIHP E



MDIH E



MIH E



MFIH



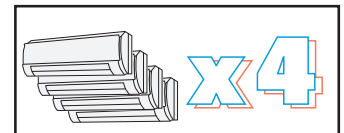
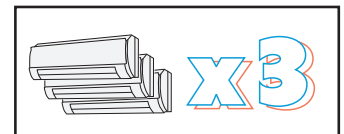
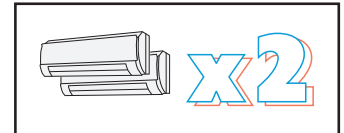
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INVERTER TECHNOLOGY



MIH C

MCIH E



 = MIH E / MIHP E
MFIH
MCIH E / MDIH E

PLASMACLUSTER ionising filter (only for MIHP - MFIH - MCIH).

Plasmacluster is capable of reducing the level of pollutants, by decomposing the molecules that form them.

Using a series of electric shocks, "Plasmacluster" causes the water molecules present in the air to separate into positive and negative ions. These ions neutralise the gas pollutant molecules, forming products that are normally present in clean air.

The result is in the air: you can finally breath clean, odour-free ionised air.

Features

Dualsplit:

- MIH 181C outdoor unit which can be connected to 2 internal units

Trialsplit:

- MIH 241C outdoor unit which can be connected to 3 internal units

Quadrisplit:

- MIH 301C outdoor unit which can be connected to 4 internal units

Optional indoor units among the following:

- MIH 071E - 091E - 121E
- MDIH 070E - 090E - 120E (must be combined with TL2I accessory)
- MCIH 120E (must be combined with GLA10RI accessory)
- MIHP 071E - 091E - 121E (with Plasmacluster)
- MFIH 071 - 091 - 121 (with Plasmacluster)

- With R410A refrigerant
- Available in 3 different power versions
- Inverter technology for large power savings and optimized room comfort conditions
- Room reaches required temperature after switching on in 2/3 the time of an equivalent appliance without an inverter
- Excellent ratio between heating capacity and cooling capacity, thanks to the inverter-controlled compressor
- Three speed cross-flow fan
- Variable speed rotary compressor
- Air outlet deflectors with horizontal adjustment facility
- Motorized louver controllable from remote handset for vertical adjustment of outlet air flow direction
- Very quiet operation

- Infrared remote handset with LCD display for full control of all functions of the appliance
- Microprocessor control
- Local control facility
- Timer for programming On/Off times
- Programs for cooling only, heating only, dehumidification and automatic operation (heating/cooling)
- Self-diagnostics function
- Easily removable, washable air filter with anti-mould treatment
- Defrost control
- Refrigerant lines with flared ends
- Refrigeration lines up to 20m for the internal unit (max 30m for MIH 181C, max 40m for MIH 241C, max 50m for MIH 301C)
- Heating mode operation with external temperature down to -15°C

Technical data

Outdoor units	indoor units*	Cooling capacity nominal (min/max) kW	Input power nominal (min/max) kW	Heating capacity nominal (min/max) kW	Input power nominal (min/max) kW	
181C	MIH	MIH - MIHP - MFIH - MCIH - MDIH				
		07xE + 07xE	4,0 (1,4 / 5,2)	1,18 (0,59 / 1,54)	4,9 (1,4 / 6,9)	1,22 (0,59 / 2,04)
		07xE + 09xE	4,6 (1,4 / 5,5)	1,34 (0,59 / 1,67)	5,6 (1,4 / 8,1)	1,53 (0,59 / 2,74)
		09xE + 09xE	5,2 (1,4 / 5,6)	1,57 (0,59 / 1,80)	5,8 (1,4 / 8,1)	1,70 (0,59 / 2,74)
241C		07xE + 12xE	5,4 (1,4 / 7,1)	1,67 (0,59 / 2,63)	6,4 (1,4 / 8,3)	1,88 (0,59 / 2,86)
		07xE + 07xE + 07xE	6,1 (1,7 / 7,3)	1,92 (0,70 / 2,77)	7,1 (1,7 / 8,2)	2,05 (0,68 / 2,71)
		07xE + 07xE + 09xE	6,9 (1,7 / 7,3)	2,40 (0,70 / 2,77)	7,8 (1,7 / 8,2)	2,47 (0,68 / 2,71)
		07xE + 09xE + 09xE	7,0 (1,7 / 7,3)	2,43 (0,70 / 2,77)	7,8 (1,7 / 8,2)	2,47 (0,68 / 2,71)
301C		07xE + 07xE + 12xE	7,0 (1,7 / 7,3)	2,43 (0,70 / 2,77)	7,8 (1,7 / 8,2)	2,47 (0,68 / 2,71)
		07xE + 07xE + 07xE + 07xE	8,0 (4,3 / 9,0)	2,78 (1,07 / 3,49)	8,5 (4,4 / 9,8)	2,23 (0,94 / 2,85)
		07xE + 07xE + 07xE + 09xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)
		07xE + 07xE + 09xE + 09xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)
		07xE + 09xE + 09xE + 09xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)
		09xE + 09xE + 09xE + 09xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)
		07xE + 07xE + 07xE + 12xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)
		07xE + 07xE + 09xE + 12xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)
		07xE + 09xE + 09xE + 12xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)
		07xE + 07xE + 12xE + 12xE	8,4 (4,3 / 9,0)	2,99 (1,07 / 3,49)	9,0 (4,4 / 10,6)	2,40 (0,94 / 3,06)

Data refer to total power with all units running. The technical manual contains the efficiency data of each unit.

* = replace the x with 0 (zero) for MCIH E - MDIH E units and with 1 (one) for MIH E - MFIH - MIHP E units.

Dualsplit: It is necessary to install all indoor units to allow the system correct operation.

Trialsplit: It is necessary to install at least 2 indoor units to allow the system correct operation.

Quadrisplit: It is necessary to install at least 3 indoor units to allow the system correct operation.

Indoor units		MIH	MIHP	MFIH	MDIH	MIH	MIHP	MFIH	MDIH	MIH	MIHP	MFIH	MDIH	MCIH
		071E	071E	071	070E	091E	091E	091	090E	121E	121E	121	120E	120E
Air flow rate	m ³ /h (max.)	480	480	450	300	516	516	522	460	588	588	624	520	680
	m ³ /h (med.)	444	444	384	270	474	474	438	370	510	510	522	410	550
	m ³ /h (min.)	330	330	330	220	330	330	366	290	414	414	432	320	410
♪ Sound pressure	dB (A) (max.)	37	37	34	37,5	39	39	38	35	40	40	39	36,5	39
	dB (A) (med.)			30	35,5			34	30			36	32	35
	dB (A) (min.)	28	28	27	29,5	28	28	29	26	29	29	30	26,5	32

Outdoor units		MIH 181C	MIH 241C	MIH 301C
Air flow rate	m ³ /h	3120	3120	3120
♪♪ Sound pressure	dB (A)	56	56	57
Refrigerant connections	Ø liquid	1/4"	1/4"	1/4"
	Ø gas	3/8"	3/8"	2/8"

Power supply = 1~ 230V 50Hz.

Performance values refer to the following conditions:

♪ measured at 1.3 m in an anechoic chamber.

♪♪ measured at 1 m in an anechoic chamber.

■ Cooling:

- room air temperature 27 °C D.B., 19 °C W.B.;
- ambient air temperature 35 °C; maximum speed.

■ Heating:

- room air temperature 20 °C;
- ambient air temperature 7 °C D.B., 6 °C W.B.; max.speed.

Accessories

	MDIH	Compatibility of accessories		
		070 E	090 E	120 E
AMP	4*	✓	✓	✓
BC	5**	✓	✓	✓
	8	✓	✓	✓
DSC	4	✓	✓	✓
	22	✓		
GA	32		✓	
	42			✓
GAF	22	✓		
	32		✓	
GM	42			✓
	22	✓		
MA	32		✓	
	42			✓
MU	22	✓		
	32		✓	
PA	42			✓
	22	✓		
PC	23	✓		
	32		✓	
	33		✓	
	42			✓
PM	43			✓
	22	✓		
RD	32		✓	
	42			✓
RDA	22	✓		
	32		✓	
RP	42			✓
	22	✓		
RPA	32		✓	
	42			✓
SE	20X	✓		
	30X		✓	
	40X			✓
TL	21	✓	✓	✓
ZX	5	✓	✓	✓
	7	✓	✓	✓

* = in combination with accessory MA

** = in combination with accessory MU

MDIH :

- **TL21:** Infrared remote handset with LCD display for full control of all appliance functions. Kit including receiver for wall installation. **Necessary for the unit operation.**
- **AMP:** Kit for ceiling mounting.
- **BC:** Auxiliary condensate drip tray.
- **DSC:** Condensate drainage device for use when natural run-off is not possible.
- **GA:** Intake louver with fixed slats.
- **GAF:** Intake louver with fixed slats and filter.

- **GM:** Delivery louver with adjustable slats.
- **MA:** Vertical cabinet.
- **MU:** Universal cabinet.
- **PA:** Intake plenum in galvanized steel, with plastic outlet connections for circular section ducting.
- **PC:** Rear cover panel.
- **PF:** Control panel with electronic ambient thermostat for wall installation.
- **PM:** Delivery plenum in galvanized steel with external insulation, with plastic outlet connections for circular section ducting.

- **RD:** Delivery straight duct connection.
- **RDA:** Intake straight duct connection.
- **RP:** Delivery 90° duct connection.
- **RPA:** Intake 90° duct connection.
- **SE:** Manually operated fresh air intake louver.
- **ZX:** Feet for floor standing installation of models with MA accessory; or built-in installation.

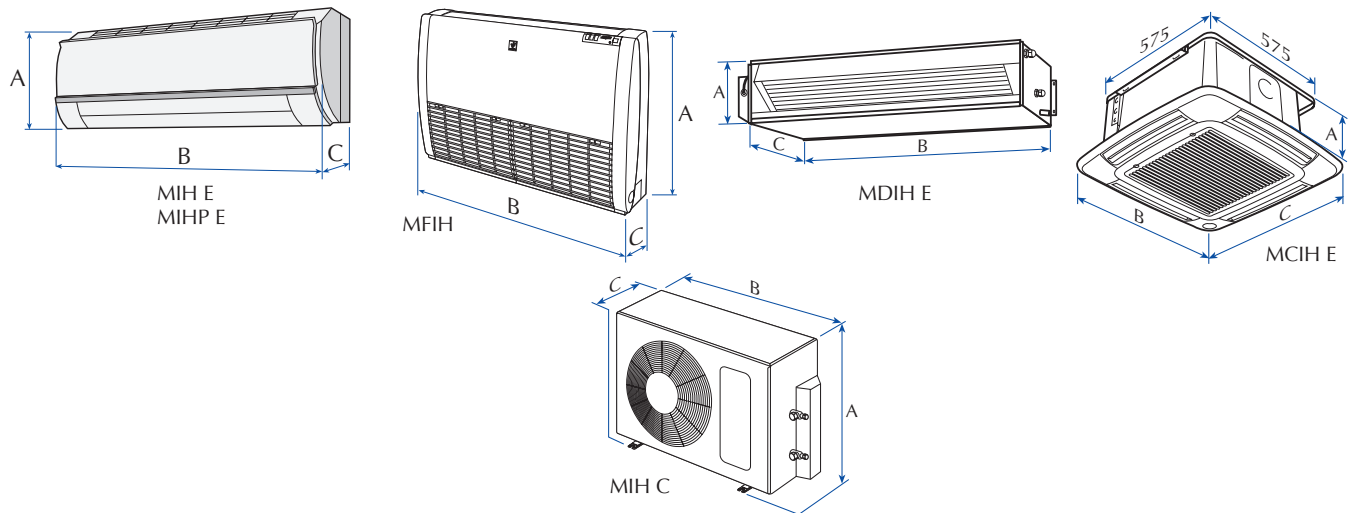
Compatibility of accessories

Mod.	MCIH 120 E
GLA10RI	✓
KFA*	✓

* It is possible to use both for air intake and air delivery in an adjacent room.

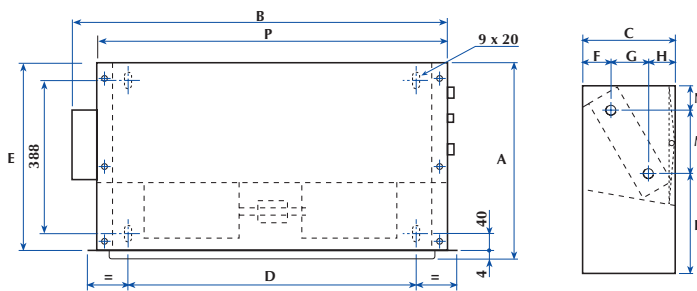
- **GLA10R:** air delivery/intake grill. Equipped with an infrared receiver with emergency operation key and remote control. The grill fins operate manually. This accessory is **necessary** as units MCIH are consigned without grill.
- **KFA:** Kit composed of a metal flange of diameter 100 mm for a fresh air intake or for discharge into an adjoining room.

Dimensions (mm)



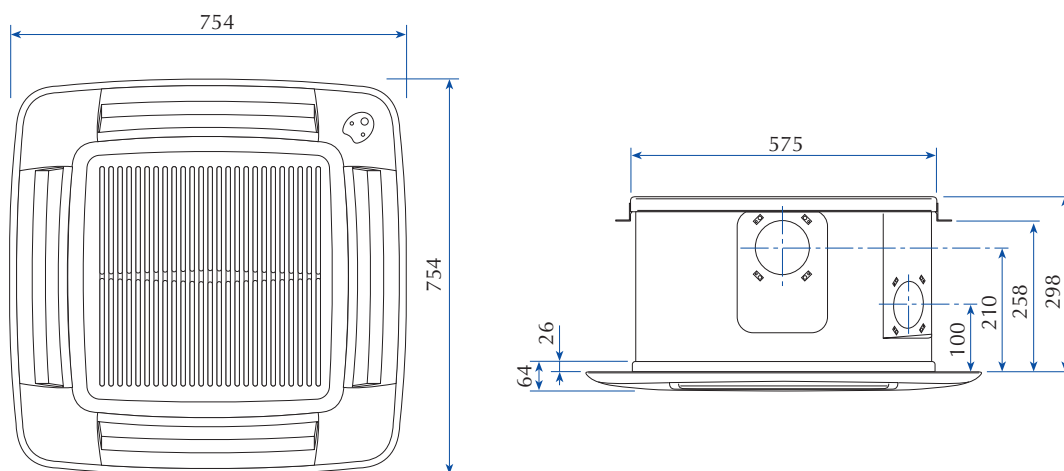
Mod.	MIH 071E	MIHP 071E	MFIH 071	MDIH 070E	MIH 091E	MIHP 091E	MFIH 091	MDIH 090E	MIH 121E	MIHP 121E	MFIH 121	MDIH 120E	MCIH 120E	MIH 181C	MIH 241C	MIH 301C	
Height	A	278	278	680	216	278	278	680	216	278	278	680	216	298	645	645	800
Width	B	790	790	1025	592	790	790	1025	823	790	790	1025	1043	754	890	890	940
Depth	C	198	198	212	457	198	198	212	457	198	198	212	457	754	327	327	320
Weight	kg	10	10	31	17	10	10	31	23	10	10	31	26	16	56	56	70

MDIH 070 E - 090 E - 120 E



MDIH	070 E	090 E	120 E
A	457	457	457
B	592	823	1043
C	216	216	216
D	440	671	891
E	453	453	453
F	41	41	41
G	101	101	101
H	74	74	74
L	260	260	260
M	144	144	144
N	49	49	49
P	522	753	973

MCIH 120 E



The technical data in this document are not binding.
Aermec S.p.A. reserves the right to make whatever modifications
it deems necessary to improve the product at any time.

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