

# MTP

Multisplit system heat pumps  
MultiSplit System with capacities from 4.1 to 16.4 kW with Inverter



MTP-W

R410A



MTP4006



DXM40



MTP-C



MTP-F



MTP-D

## Features

- Available with 7 different power condenser units
- Combination with wall mounting indoor unit, suspended ceiling installation, channelled and floor/ceiling versions
- From two to eight connectable internal units
- With R410A refrigerant
- 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
- Maximum capacity 40% higher than the normal potential
- Compressors:
  - MTP 1402 - 1802 - 1803: 1 Inverter compressor
  - MTP 2043 - 3004 - 4006: 1 On-Off compressor, 1 Inverter compressor
  - MTP 5608: 2 On-Off compressors, 1 Inverter compressor
- Microprocessor control
- MTP 1402, 1802, 1803, 2403 and 3004: Systems with multi-line refrigerant connections, where each indoor unit is connected to the condenser via dedicated refrigerant lines
- MTP 4006 e 5608: Systems with refrigerator connections managed via distributors; in this case, only a single pair of tubes leads from the outdoor unit to the distributor (DXM), from which single pairs of refrigerant lines branch off towards the indoor units
- It is not necessary to connect all the indoor units for the correct functioning of the system
- Standard cold functioning even with low outside temperatures
- Infrared remote handset (standard with models MTP-W and MTP-F) with LCD display for full control of all appliance functions: programming timer, programs for cooling only, heating only, dehumidification and automatic operation (heating/cooling)
- Remote control standard with units MTP-D, MTP-DH, MTP-DG, MTP-C and MTP-C1
- Very quiet operation
- Easily removable and washable air filter
- Refrigerant lines with flared ends
- Refrigeration lines up to 30m for MTP 1402 - 1802, up to 45m for MTP 1803, up to 50m for MTP 2403, up to 70m for MTP 3004, up to 100m for MTP 4006 and up to 120m for MTP 5608

## Accessories

- **DSC:** Condensate drain pump. It can be housed inside the indoor unit.
- **FAE:** Live electrostatic intake filter.
- **MTPGL:** Air delivery/return grill. This accessory is **necessary** as units MTP C and C1 are consigned without grill.
- **MTPGLD:** Air delivery/return grill. This accessory is **necessary** as units MTP DG are consigned without grill.
- **PME:** Steel delivery plenum with round flanges. Delivery can be turned horizontally or downwards.
- **PMEF:** Steel delivery plenum with rectangular flanges. Delivery can be turned horizontally or downwards.
- **PRE:** Take up and recirculation plenum, to be positioned on the intake for the input of fresh and recirculated air. The regulation of the quantity of fresh air is by means of a coupled motorised gate that can be up to 30% of the total flow. The accessory is complete with filter holder to move the original filter.
- **TLE:** Remote control with LCD display. This is an additional control. It needs no receiver as this is already integrated in the wall panel.

### Compatibility of accessories

	DSCE 1	FAE 1	FAE 2	MTPGL 10	MTPGL 40	MTPGL 41	MTPGL42	MTPGLD	PME 1	PME 2	PMEF 1	PMEF 2	PRE 1	PRE 2	TLE
MTP C					120-180	240-300	360								All
MTP C1				090-120											All
MTP D															All
MTP DH	All	180-240	300-360						180-240	300-360	180-240	300-360	180-240	300-360	All
MTP DG	All							All							All

## Indoor units

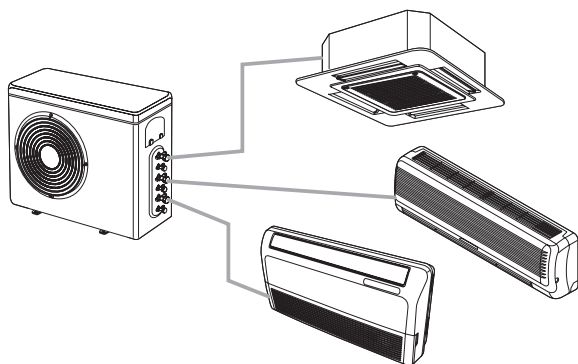
Size	070/071*	090/091	120/121	180	240	300	360
<b>Refrigerating capacity</b>	<b>7000 Btu/h</b>	<b>9000 Btu/h</b>	<b>12000 Btu/h</b>	<b>18000 Btu/h</b>	<b>24000 Btu/h</b>	<b>30000 Btu/h</b>	<b>36000 Btu/h</b>
	<b>2051 W</b>	<b>2637 W</b>	<b>3516 W</b>	<b>5274 W</b>	<b>7032 W</b>	<b>8790 W</b>	<b>10548 W</b>
MTP-W (wall)*	✓	✓	✓	✓	✓	✓	✓
MTP-C (four-way suspended ceiling)			✓	✓	✓	✓	✓
MTP-C1 (one-way suspended ceiling)		✓	✓				
MTP-D (low head channelled)		✓	✓	✓			
MTP-DH (high head channelled)				✓	✓	✓	✓
MTP-DG (channelled with grille)		✓	✓				
MTP-F (floor/ceiling)		✓	✓	✓	✓		

## Outdoor units

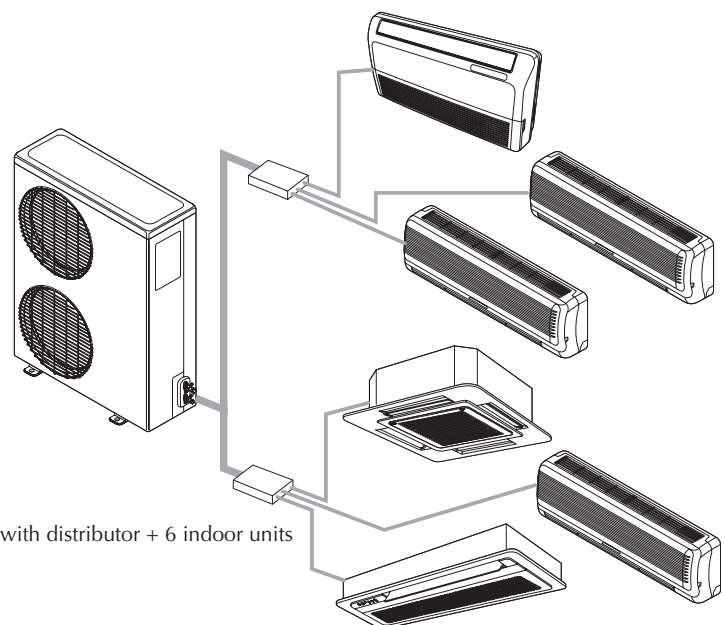
	Rated cooling capacity Btu/h	Rated cooling capacity W	Max. number (indoor units) n.	Compressor number*
MTP 1402	14000	4102	2	1
MTP 1802	18000	5274	2	1
MTP 1803	18000	5274	3	1
MTP 2403	24000	7032	3	2
MTP 3004	30000	8790	4	2
MTP 4006	40000	11720	6	2
MTP 5608	56000	16408	8	3

\* = 1 of which with inverter.

## Example of connection



Multiline outdoor unit + 3 indoor units



Outdoor unit with distributor + 6 indoor units

## Technical data

Outdoor units	MTP	1402	1802	1803	2403	3004	4006	5608
Cooling capacity	W (nominal)	4102	5274	5274	7032	8790	11720	16408
	W (min/max)	1348/4688	1348/6329	1348/6329	2461/8438	2461/10548	1875/14064	2619/20329
Total input power	W (nominal)	1250	1685	1580	2250	2750	3900	5122
	W (min/max)	380/1450	480/2370	480/2350	798/2970	803/3580	1695/4980	999/6600
Heating capacity	W (nominal)	4688	6329	6329	8438	10109	13478	18869
	W (min/max)	1406/5274	1406/7266	1406/7266	2953/9372	2953/12013	2250/15529	2291/22150
Total input power	W (nominal)	1250	1884	1800	2350	2930	4108	5584
	W (min/max)	450/1350	586/2370	586/2320	960/3070	1001/4012	947/4600	1241/6800
Max. num. of connectable units	n.	2	2	3	3	4	6	8
Compressor	n.	1	1	1	2	2	2	3
	type	Inverter	Inverter	Inverter	Inv.+On/Off	Inv.+On/Off	Inv.+On/Off	Inv.+On/Off
Max. lines length	m	30	30	45	50	70	100	120
Max. length per unit	m	20	20	25	25	25	15	15
Max. principle line length	m	-	-	-	-	-	50	50
Max. secondary line length	m	-	-	-	-	-	50	70
Max. height (indoor-indoor unit)	m	7,5	7,5	7,5	7,5	7,5	10	10
Max. height (indoor-outdoor unit)	m	15	15	15	15	15	30	30
Fans	n.	1	1	1	1	2	2	1
Air flow rate	m <sup>3</sup> /h	2940	2940	2940	3180	3720	6360	5400
♪ Sound pressure	dB (A)	50	51	51	51	50	60	59
Refrigerant connections	Ø liquid	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"
	Ø gas	3/8"	3/8"	3/8"	3/8"	3/8"	3/4"	3/4"

Distributors	DXM	20	30	30H	40
Max. units that can be managed	n.	2	3	3	4
Manageable capacity per unit	W (min/max)	2050/7029	2050/7029	5270/10544	2050/7029
Input power	W	10	10	10	10
Refr. connections (to the outdoor unit)	Ø liquid	3/8"	3/8"	3/8"	3/8"
	Ø gas	3/4"	3/4"	3/4"	3/4"
Refr. connections (to the indoor unit)	Ø liquid	1/4"	1/4"	1/4"	1/4"
	Ø gas	3/8"	3/8"	1/2" - 5/8"	3/8"

Indoor units	MTP	071W	091W	121W	180W	240W	090F	120F	180F	240F
Cooling capacity	W	2051	2637	3516	5274	6739	2637	3516	5274	7032
Heating capacity	W	2344	2930	3868	5801	7472	2930	3868	5801	7735
Air flow rate	m <sup>3</sup> /h (max.)	330	510	540	780	840	468	600	810	900
	m <sup>3</sup> /h (med.)						384	498	720	810
	m <sup>3</sup> /h (min.)						300	390	660	720
Moisture removed	l/h	1.0	1.4	1.8	2.0	2.5	1.0	1.2	2.3	3.2
Fan motor input power	W	25	37	37	54	59	35	43	53	63
	dB (A) (max.)	35	35	39	42	46	36	40	43	45
♪ Sound pressure	dB (A) (med.)	32	33	36	39	43	32	36	40	42
	dB (A) (min.)	29	31	34	36	39	28	31	37	39

Indoor units	MTP	090C1	120C1	120C	180C	240C	300C	360C
Cooling capacity	W	2637	3516	3516	5274	7032	8204	10548
Heating capacity	W	2930	3868	3868	5801	7735	9024	11603
Air flow rate	m <sup>3</sup> /h (max.)	510	570	570	780	900	1140	1500
	m <sup>3</sup> /h (med.)	450	480	480	720	840	1020	1380
	m <sup>3</sup> /h (min.)	390	420	420	660	780	900	1260
Moisture removed	l/h	1.2	1.5	1.2	2.4	3.0	3.5	4.0
Fan motor input power	W	50	50	75	90	121	146	175
	dB (A) (max.)	35	37	38	41	43	44	40
♪ Sound pressure	dB (A) (med.)	32	33	35	39	41	41	38
	dB (A) (min.)	28	29	32	37	39	39	36

Indoor units	MTP	090D	120D	180D	180DH	240DH	300DH	360DH	090DG	120DG
Cooling capacity	W	2637	3516	5274	5274	7032	8790	10548	2637	3516
Heating capacity	W	2930	3809	5801	5801	7735	9669	11603	2930	3868
Effective pressure	kPa	20	20	20	80	80	100	100	40	40
Air flow rate	m <sup>3</sup> /h (max.)	480	600	810	990	1080	1680	1920	690	690
	m <sup>3</sup> /h (med.)	420	540	720	870	990	1500	1740	600	600
	m <sup>3</sup> /h (min.)	360	480	600	780	840	1380	1590	510	510
Moisture removed	l/h	1.0	1.2	2.0	2.0	2.5	3.0	3.5	1.6	2.0
Fan motor input power	W	68	68	126	180	180	250	323	180	180
	dB (A) (max.)	34	37	38	36	37	40	42	38	38
♪ Sound pressure	dB (A) (med.)	32	34	36	34	35	38	40	36	36
	dB (A) (min.)	30	31	34	32	33	36	38	34	34

Power supply = 1~ 230V 50Hz.

Performance values refer to the following conditions:

♪ = measured at 1.3 m in an anechoic chamber.

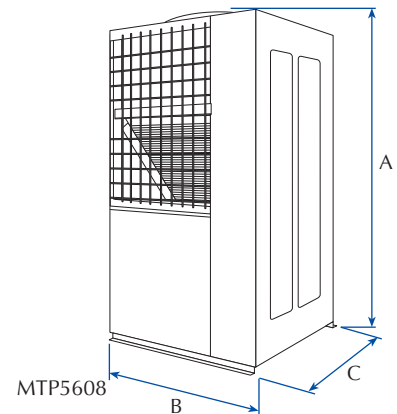
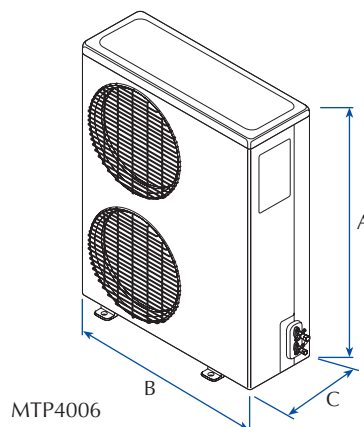
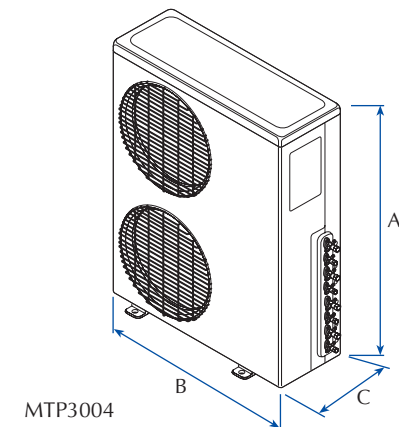
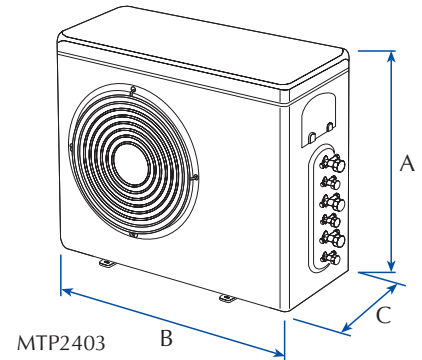
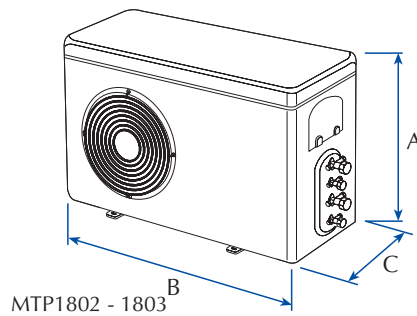
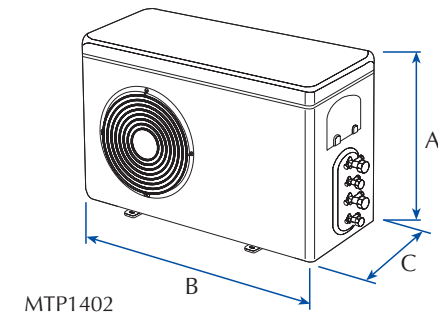
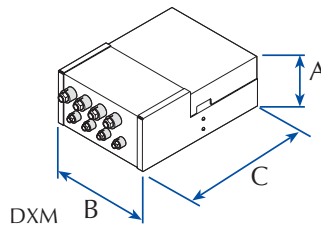
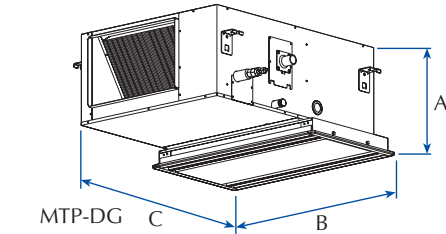
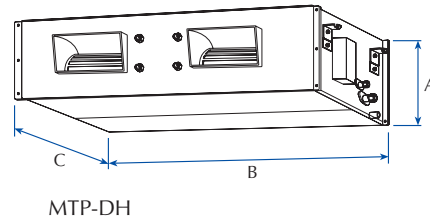
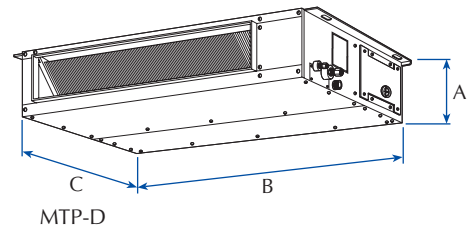
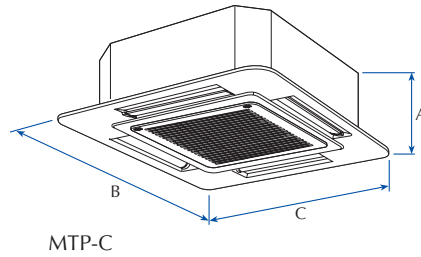
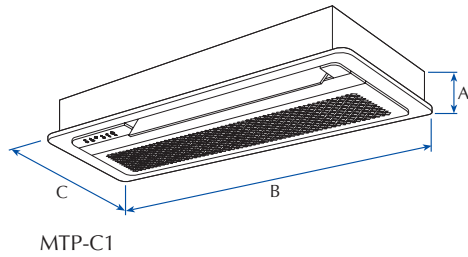
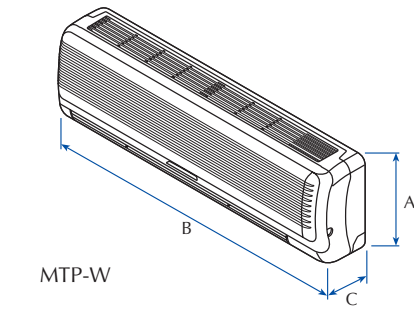
■ Cooling:

- 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 temp. 7 °C D.B., 6 °C W.B.; maximum speed.

## Dimensions (mm)



	A (mm)	B (mm)	C (mm)	Weight (kg)
MTP071W	260	824	155	7
MTP091W	285	900	156	9
MTP121W	285	900	156	9
MTP180W	314	1090	172	12
MTP240W	314	1090	172	12
MTP090F	490	900	200	12
MTP120F	490	900	200	12
MTP180F	615	1200	205	30
MTP240F	615	1200	205	30
MTP090C1	190	1050	480	22
MTP120C1	190	1050	480	22
MTP120C	299	670	670	19
MTP180C	299	670	670	19
MTP240C	322	850	850	24
MTP300C	322	850	850	24
MTP360C	318	950	950	32
MTP090D	230	650	537	22
MTP120D	230	650	537	22
MTP180D	230	1000	537	29
MTP180DH	260	880	450	35
MTP240DH	260	880	450	35
MTP300DH	298	1180	450	38
MTP360DH	298	1180	450	38
MTP090DG	300	580	750	30
MTP120DG	300	580	750	30
MTP1402	655	870	320	52
MTP1802	655	870	320	52
MTP1803	655	870	320	52
MTP2403	800	870	320	69
MTP3004	1060	870	320	80
MTP4006	1165	900	370	105
MTP5608	1512	806	730	194
DXM20	150	250	300	5
DXM30	150	250	300	5
DXM30H	150	250	300	5
DXM40	150	250	300	5

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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