

Climaveneta Technical Bulletin

MWZ_102_1004_202306_EN



MWZ

Size: 102 ÷ 1004

Compact Air Handling Units
Version with AC motor



Unit whit AC motor
Cooling Capacity: 5,82 ÷ 42,2 kW
Air Flow: 1492 ÷ 8934 m³/h

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

- User friendly
- Configuration
- Full integration
- Real savings

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**Waiver of liability**

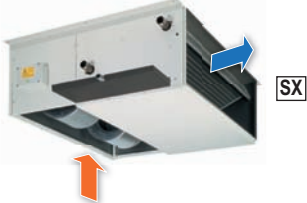
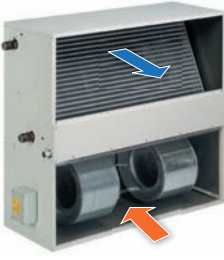
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All work must be performed, components selected and materials used professionally and in complete accordance with the legislation in force in material in the country concerned, and considering the operating conditions and intended uses of the system,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

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

1. RANGE

 MWZ PVBO Air return from rear Horizontal installation	 MWZ FVBO Air return from front Horizontal installation	 MWZ FVBV Air return from front Vertical installation Vertical Air Supply	 MWZ FVBF Air return from front Vertical Installation Front Air Supply
DX = water fittings on the right [ref. A021] SX = water fittings on the left [ref. A022]			

INSTALLATION: POSITIONING THE UNIT

The unit must be installed in compliance with regulations in force

- Make sure that the unit and its technical characteristics correspond to the requirements specified in the design or other documents.
- Do not leave items of packaging in the reach of children, as these are sources of danger.
- Wear suitable protective clothing before installing the unit.

Use suitable equipment to prevent accidents during installation.

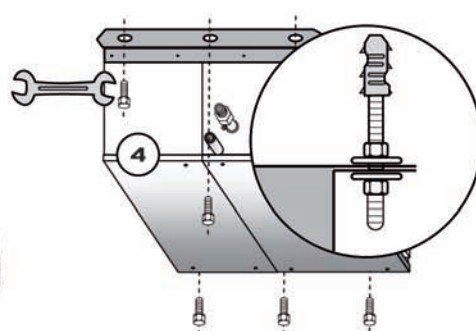
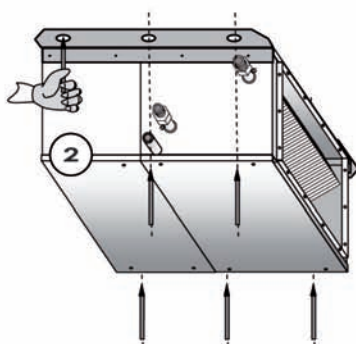
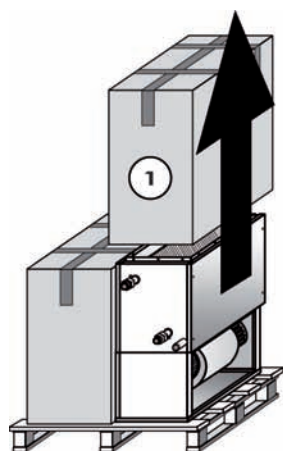
- Before installing the unit, it is recommended to assemble any accessories supplied separately on the unit, following the assembly instructions contained in each kit.
- Decide the installation position. Place the unit on a solid structure that does not cause vibrations and can withstand the weight of the unit.



Install the "2 bracket kit" accessory. Mark, using the four (or six) fastening holes on the two brackets, the position of the expansion screw anchors.

- Drill the holes for the anchors.
- Install the unit using four (or six, or eight) 12 MA expansion screws or Ø 12 mm F threaded bar.
- Install the unit in a position that ensures free air flow for intake and supply.

As an alternative to these instructions, the installer must create a suitable installation/mounting system.

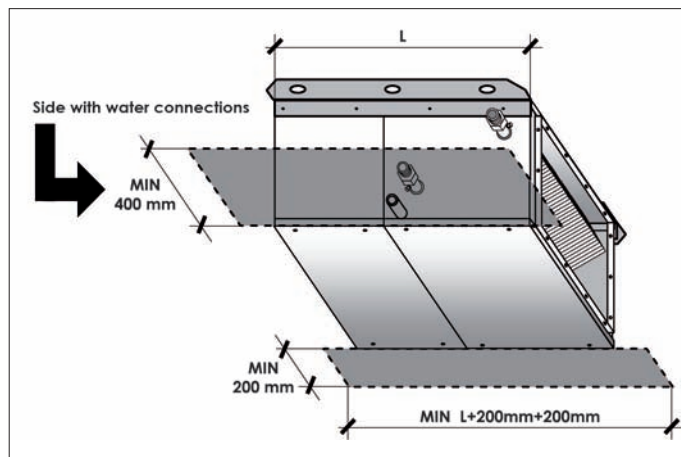


Due to its weight, the unit should be lifted using mechanical equipment.

INSTALLATION: CLEARANCE FOR MAINTENANCE

The unit must be installed in a position that allows routine and unscheduled maintenance to be carried out easily!

- Any false-ceilings must allow the possibility to access the bottom panelling of the unit so as to inspect the filters and the fans.
- On the side with the water connections, leave at least 400 mm clearance for assembling the pipes and valves.



2. GENERAL DESCRIPTION

MWZ are the new Compact Air Handling Units from Mitsubishi Electric hydronic and iT Cooling systems SPA, with high configuration flexibility and compact dimensions, for installation in commercial and services applications.

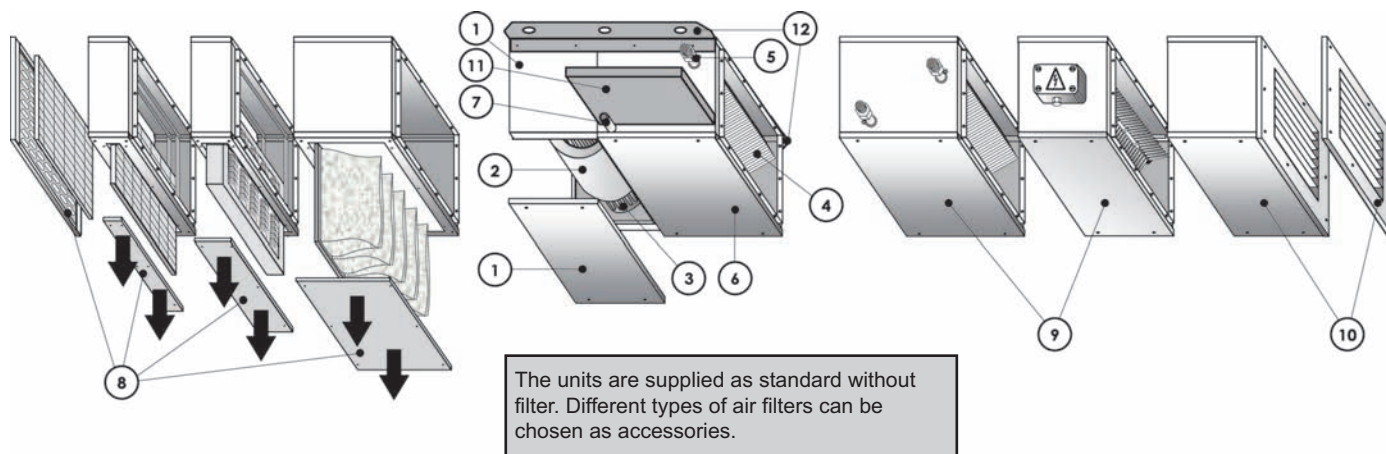
The modular configuration allows a wide choice of sections and accessories to be combined with the basic unit to meet all sys-

tem needs: cooling, heating, humidification, reheating, air recirculation and the possibility of mixing with fresh outdoor air.

High efficiency filters. High static pressure available thanks to the latest-generation AC fans.

MAIN COMPONENTS

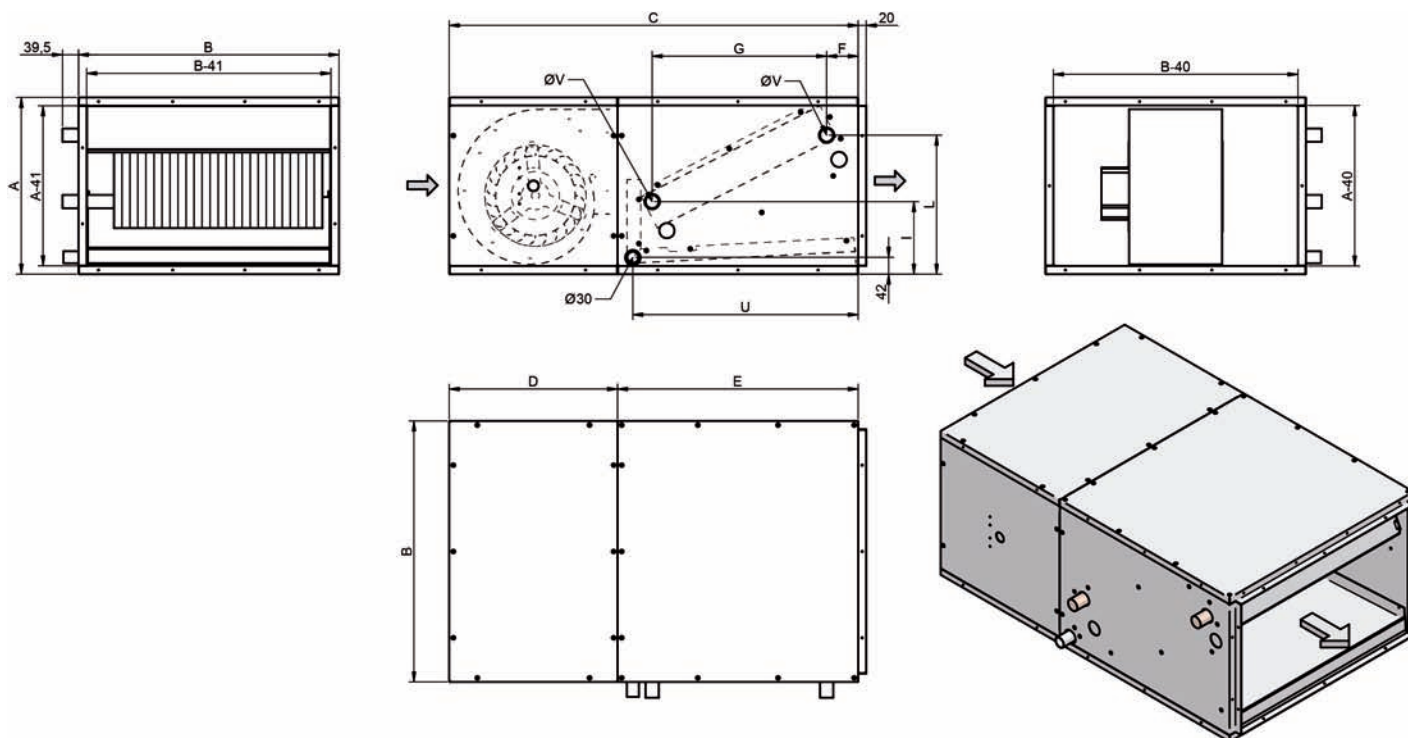
Standard	
1	Load-bearing structure (= Cover casing), made from thick sheet metal + internal thermal-acoustic insulation (class M1). Double panel available • the support casing is not supplied with holes for installation; mounting brackets are to be provided by the customer (or are available as accessories, see section 12).
2	Centrifugal fan with double-sided intake (forward curved blades)
3	3-speed electric motor, 230V-1Ph-50Hz, coupled directly to the fan. Note: 1 or 2 fans and 1 or 2 motors (depending on the model)
4	Heat exchanger coil (1 coil for 2-pipe units; 2 coils for 4-pipe units)
5	Coil water connections
6	Condensate collection pan with drain + thermal insulation
7	Condensate drain
Accessories	
8	Different types of air filter section and intake grills
9	Various types of supplementary heating section (with electric heaters 2-row water coil, etc.)
10	Different types of air supply plenum and grills
11	Galvanised metal auxiliary condensate collection pan + thermal insulation
12	2 brackets for unit wall/ceiling mounting (accessory recommended for all versions, see point 1)
Note: For a complete list of available accessories, please see the following pages in this document.	



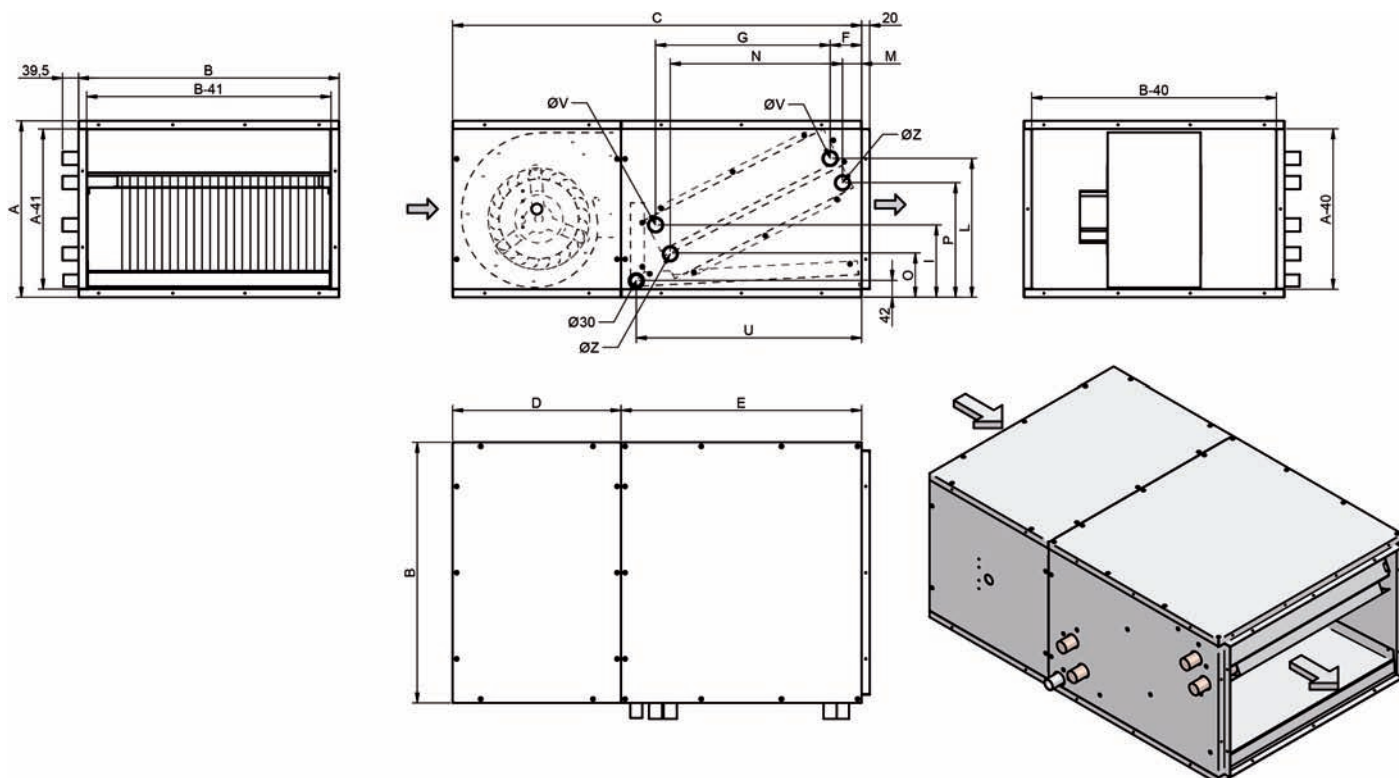
3. VERSIONS AND DIMENSIONS

VERSION MWZ PVBO - Rear intake, horizontal installation

MWZ PVBO - 3R main coil - water connections on R (2-pipe unit)



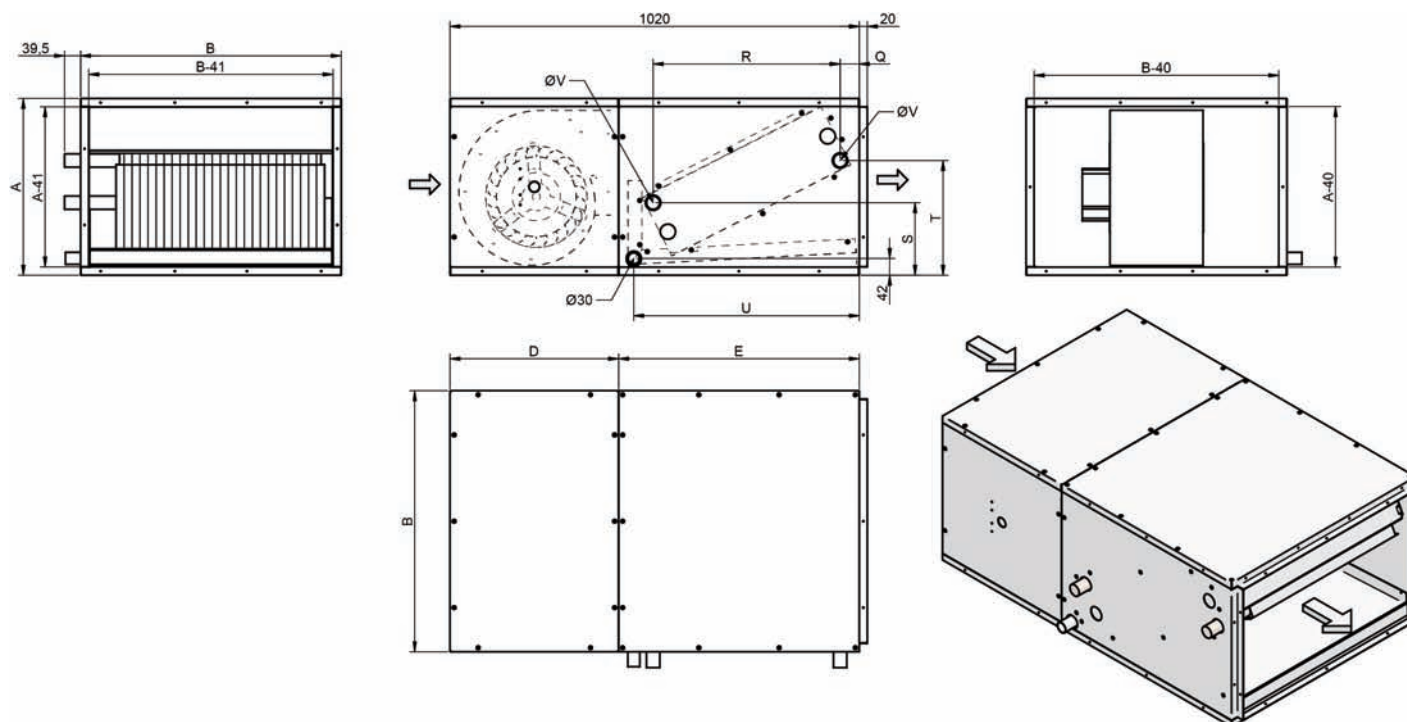
MWZ PVBO - 3R main coil + supplementary 2R coil - water connections on R (4-pipe units)



3. VERSIONS AND DIMENSIONS

VERSION MWZ PVBO - Rear intake, horizontal installation

MWZ PVBO - 6R main coil - water connections on R (2-pipe units)

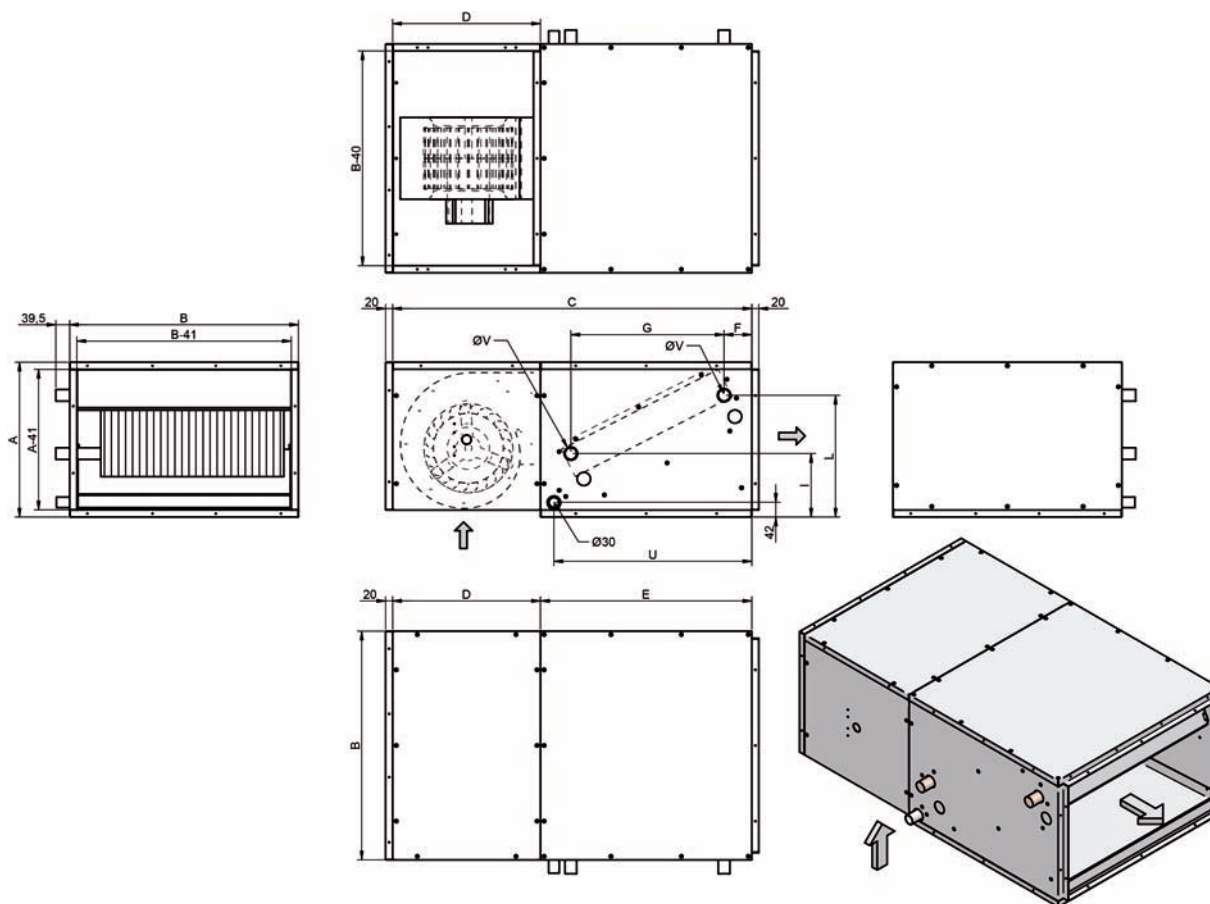


MWZ PVBO	2-pipe		102 (3R)	102 (6R)	202 (3R)	202 (6R)	302 (3R)	302 (6R)	402 (3R)	402 (6R)	502 (3R)	502 (6R)	602 (3R)	602 (6R)	702 (3R)	702 (6R)	802 (3R)	802 (6R)	902 (3R)	902 (6R)	1002 (4R)	1002 (6R)
	4-pipe		104		204		304		404		504		604		704		804		904		1004	
Main dimensions	A	mm	380	380	440	440	440	440	480	480	570	570	570	570	440	440	440	440	480	480	600	600
	B	mm	550	550	650	650	750	750	750	750	1150	1150	1350	1350	1150	1150	1350	1350	1350	1350	1650	1650
	C	mm	870	870	1020	1020	1120	1120	1160	1160	1150	1150	1250	1250	1020	1020	1120	1120	1160	1160	1470	1470
	D	mm	360	360	420	420	420	420	460	460	550	550	550	550	420	420	420	420	460	460	580	580
Water connections	E	mm	510	510	600	600	700	700	700	700	600	600	700	700	600	600	700	700	700	700	890	890
	F	mm	73		79		68		81		139		120		79		74		94		139	
	G	mm	356		435		546		531		358		478		434		533		519		658	
	I	mm	176		181		199		194		194		201		191		198		195		237	
	L	mm	287		346		344		386		481		475		339		339		380		483	
	M	mm	47		48		44		52		87		75		47		47		62		94	
	N	mm	350		429		542		525		349		472		429		529		517		651	
	O	mm	108		108		123		119		132		127		112		115		119		126	
	P	mm	230		286		281		324		428		412		271		269		318		356	
	Q	mm		47		48		44		52		52		75		47		48		62		94
	R	mm		382		466		569		561		410		523		466		559		552		681
	S	mm		176		181		199		194		194		201		191		198		195		190
	T	mm		230		286		281		324		428		412		271		269		318		386
	U	mm	472	472	562	562	662	662	662	662	562	562	662	662	562	562	662	662	662	662	852	852
	V	DN	3/4"-M	3/4"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1"-1/2-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M
	Z	DN	3/4"-M		1"-M		1"-M		1"-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M	
Net weight	2-pipe	Kg	43,5	51,1	59,5	67	71,3	80,3	77,3	86,3	118,9	133,9	138,7	156,7	99,7	114,7	121,4	139,4	131,4	149,4	224,4	246,9
	4-pipe	Kg	49,5		65		77,9		83,9		129,9		154,7		110,7		137,4		147,4		248,4	

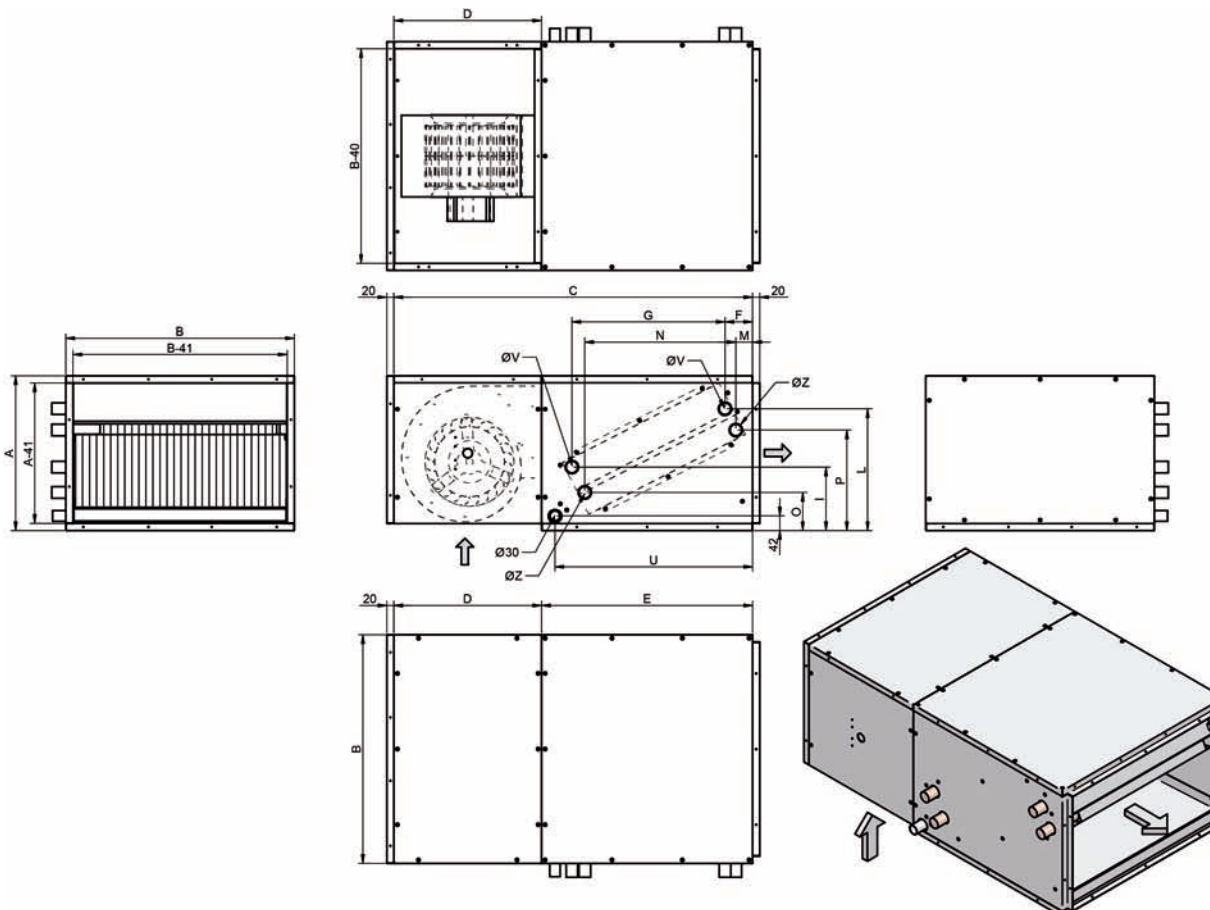
3. VERSIONS AND DIMENSIONS

VERSION MWZ FVBO - Front intake, horizontal installation

MWZ FVBO - 3R main coil - connections on R (2-pipe units)



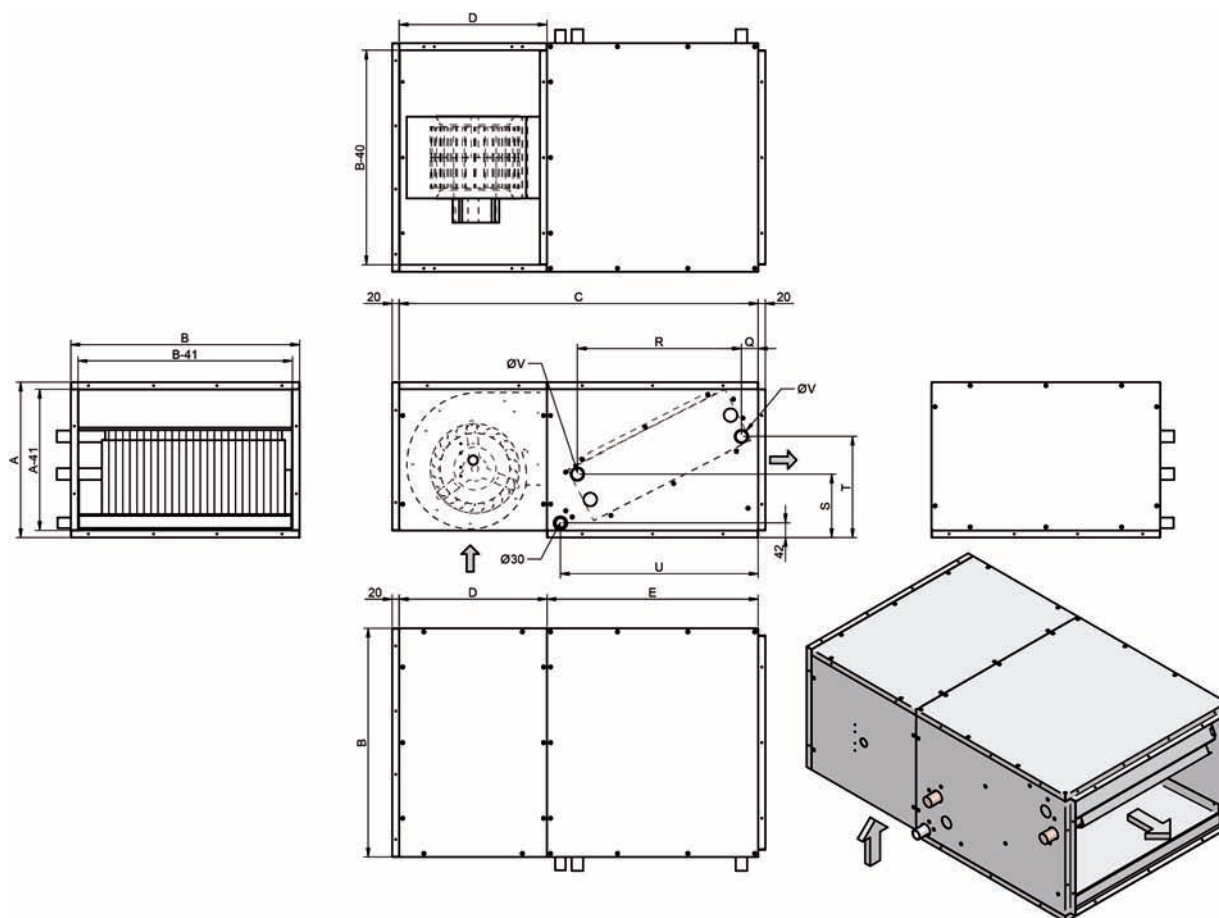
MWZ FVBO - 3R main coil + 2R supplementary coil - connections on R (4-pipe unit)



3. VERSIONS AND DIMENSIONS

VERSION MWZ FVBO - Front intake, horizontal installation

MWZ FVBO - 6R main coil - connections on R (2-pipe units)

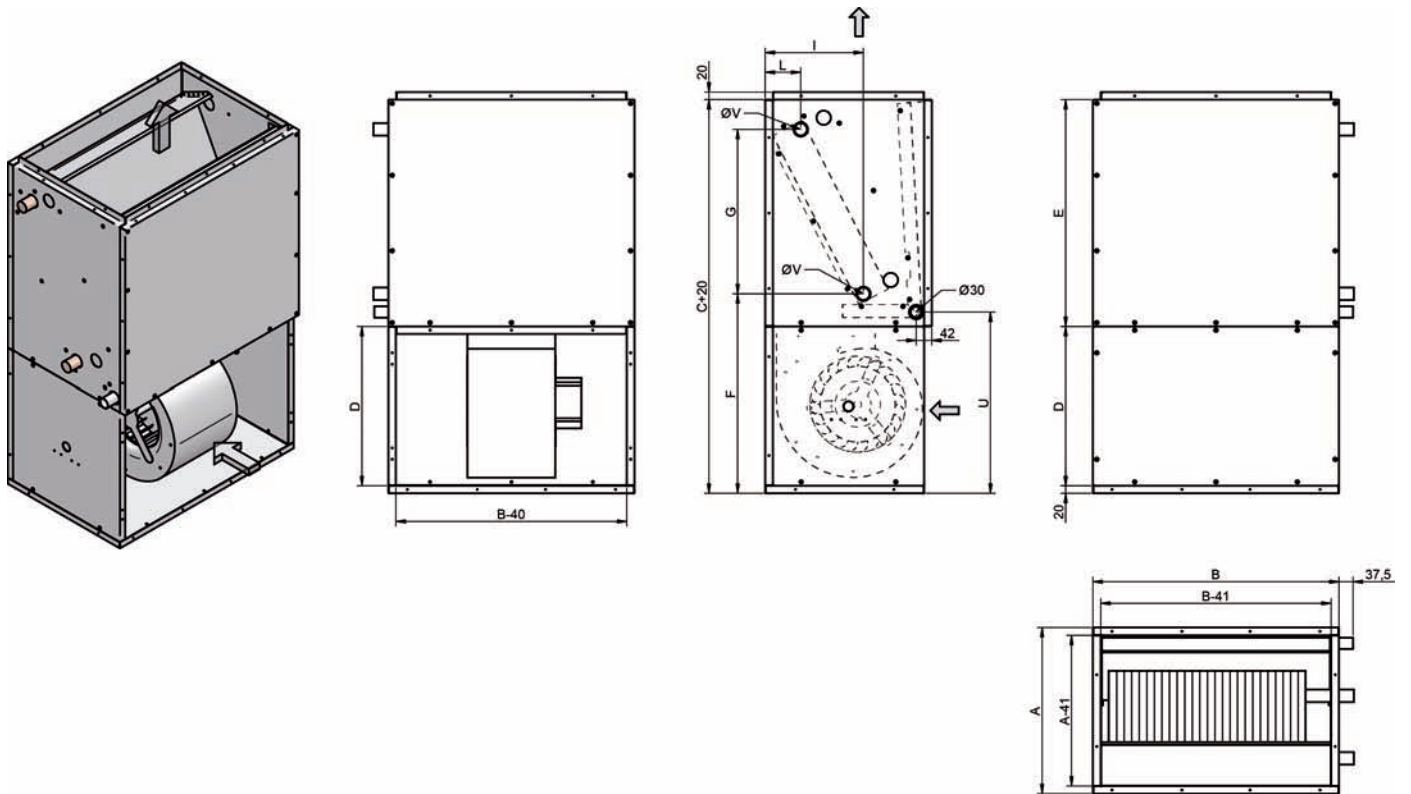


MWZ FVBO	2-pipe		102 (3R)	102 (6R)	202 (3R)	202 (6R)	302 (3R)	302 (6R)	402 (3R)	402 (6R)	502 (3R)	502 (6R)	602 (3R)	602 (6R)	702 (3R)	702 (6R)	802 (3R)	802 (6R)	902 (3R)	902 (6R)	1002 (4R)	1002 (6R)
	4-pipe		104		204		304		404		504		604		704		804		904		1004	
Main dimensions	A	mm	380	380	440	440	440	440	480	480	570	570	570	570	440	440	440	440	480	480	600	600
	B	mm	550	550	650	650	750	750	750	750	1150	1150	1350	1350	1150	1150	1350	1350	1350	1350	1650	1650
	C	mm	870	870	1020	1020	1120	1120	1160	1160	1150	1150	1250	1250	1020	1020	1120	1120	1160	1160	1470	1470
	D	mm	360	360	420	420	420	420	460	460	550	550	550	550	420	420	420	420	460	460	580	580
Water connections	E	mm	510	510	600	600	700	700	700	700	600	600	700	700	600	600	700	700	700	700	890	890
	F	mm	73		79		68		81		139		120		79		74		94		139	
	G	mm	356		435		546		531		358		478		434		533		519		658	
	I	mm	176		181		199		194		194		201		191		198		195		237	
	L	mm	287		346		344		386		481		475		339		339		380		483	
	M	mm	47		48		44		52		87		75		47		47		62		94	
	N	mm	350		429		542		525		349		472		429		529		517		651	
	O	mm	108		108		123		119		132		127		112		115		119		126	
	P	mm	230		286		281		324		428		412		271		269		318		356	
	Q	mm		47		48		44		52		52		75		47		48		62		94
	R	mm		382		466		569		561		410		523		466		559		552		681
	S	mm		176		181		199		194		194		201		191		198		195		190
	T	mm		230		286		281		324		428		412		271		269		318		386
	U	mm	472	472	562	562	662	662	662	662	562	562	662	662	562	562	662	662	662	662	852	852
	V	DN	3/4"-M	3/4"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1"-1/2-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M
	Z	DN	3/4"-M		1"-M		1"-M		1"-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M	
Net weight	2-pipe	Kg	43,5	51,1	59,5	67	71,3	80,3	77,3	86,3	118,9	133,9	138,7	156,7	99,7	114,7	121,4	139,4	131,4	149,4	224,4	246,9
	4-pipe	Kg	49,5		65		77,9		83,9		129,9		154,7		110,7		137,4		147,4		248,4	

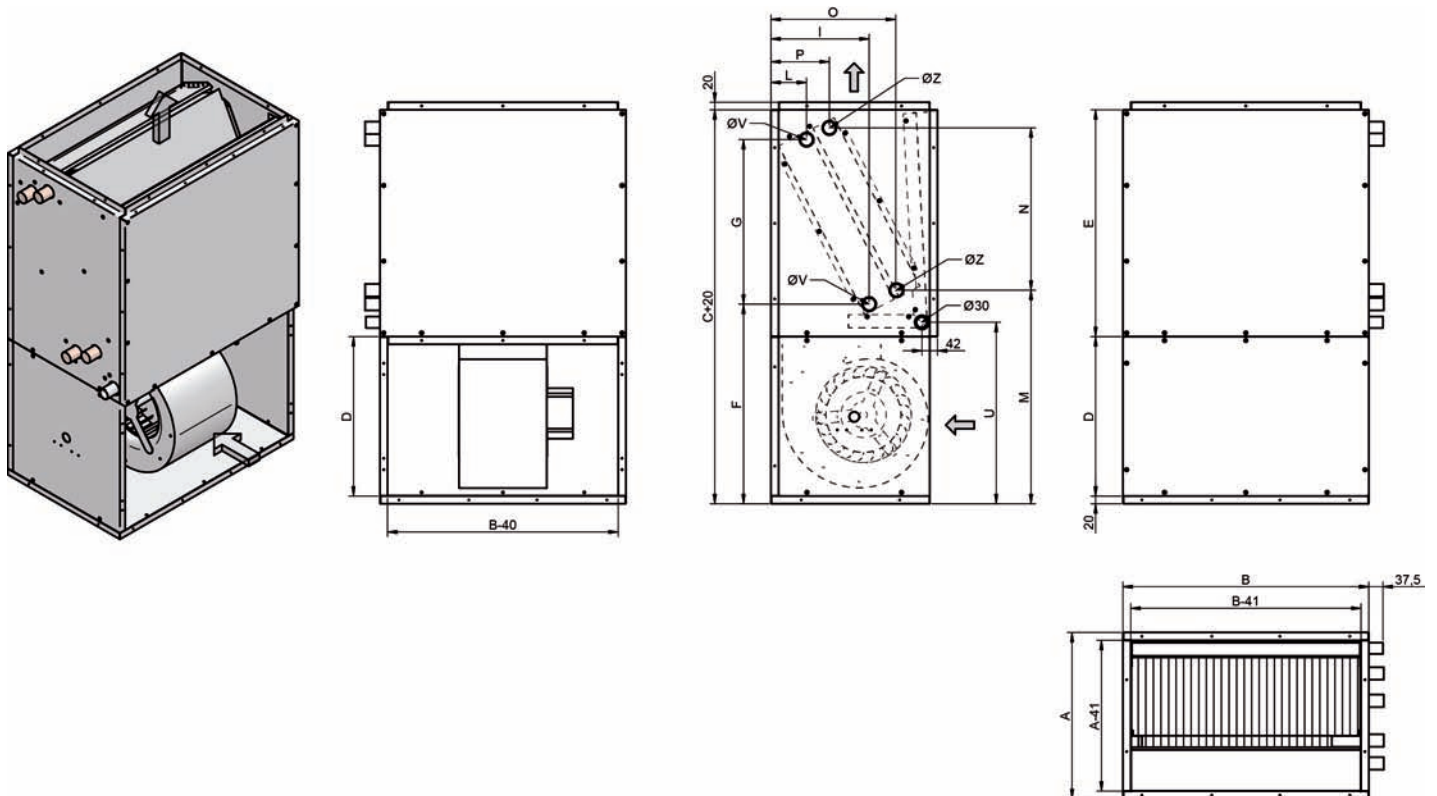
3. VERSIONS AND DIMENSIONS

VERSION MWZ FVBV - Front intake, vertical installation and vertical air supply

MWZ FVBV - 3R main coil - connections on R (2-pipe units)



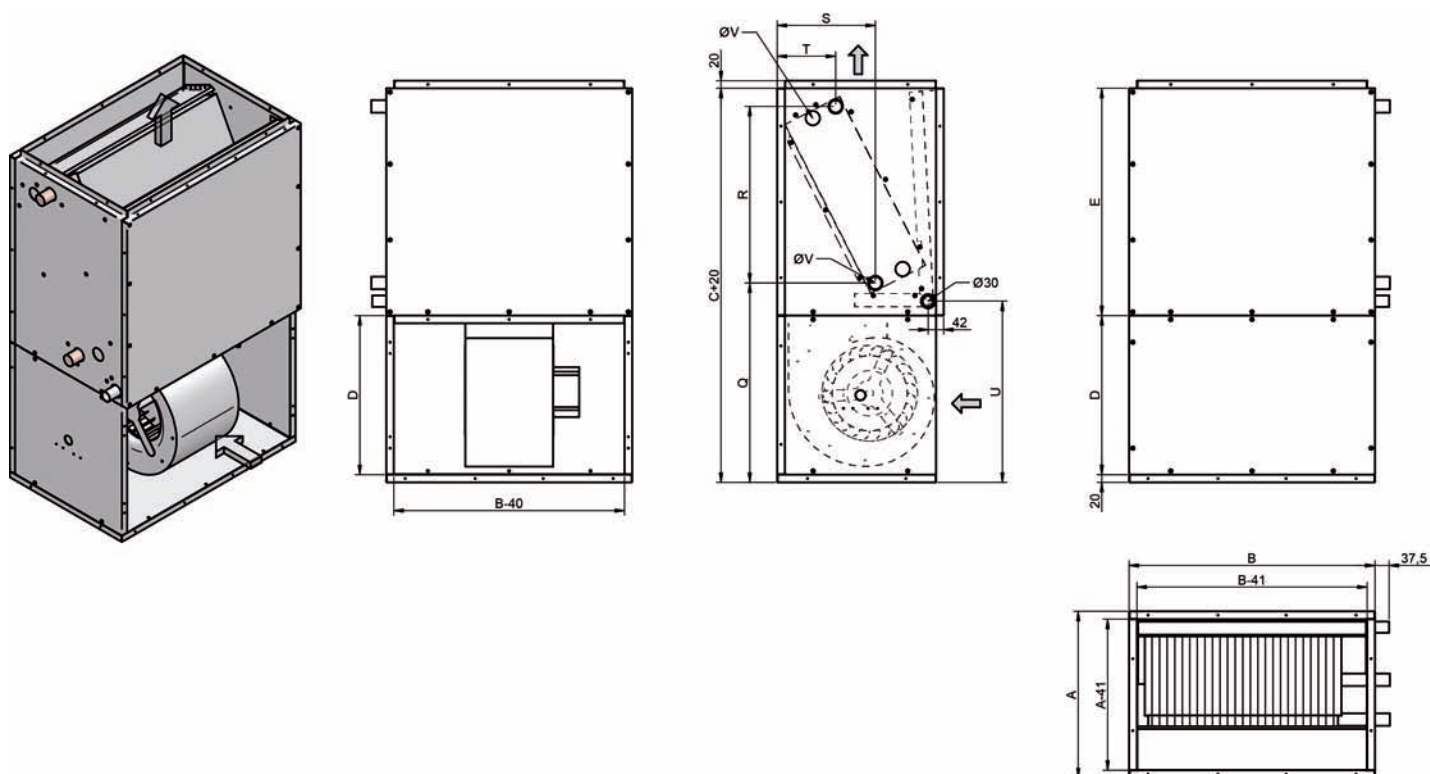
MWZ FVBV - 3R main coil + 2R supplementary coil - connections on R (4-pipe unit)



3. VERSIONS AND DIMENSIONS

VERSION MWZ FVBV - Front intake, vertical installation and vertical air supply

MWZ FVBV - 6R main coil - connections on R (2-pipe units)

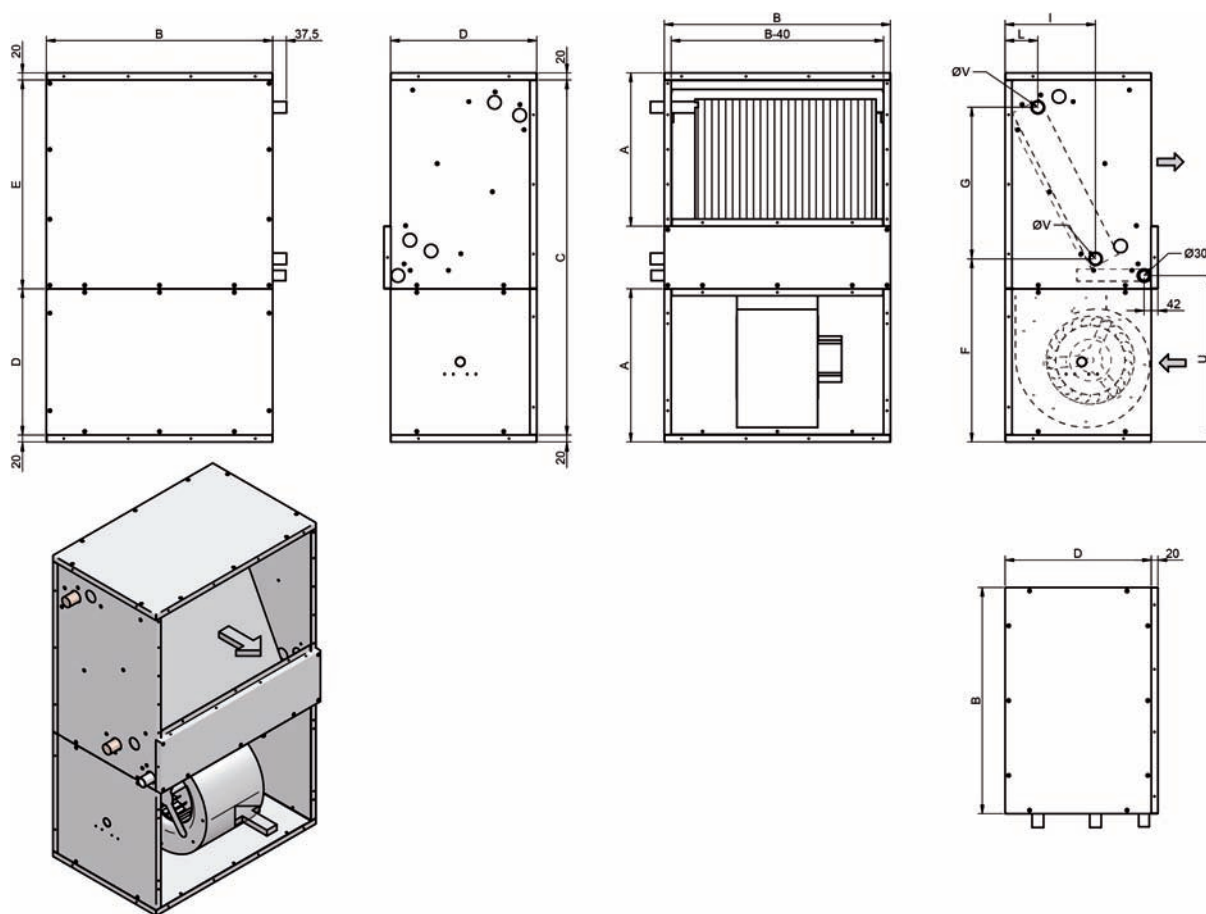


MWZ FVBV	2-pipe		102 (3R)	102 (6R)	202 (3R)	202 (6R)	302 (3R)	302 (6R)	402 (3R)	402 (6R)	502 (3R)	502 (6R)	602 (3R)	602 (6R)	702 (3R)	702 (6R)	802 (3R)	802 (6R)	902 (3R)	902 (6R)	1002 (4R)	1002 (6R)	
	4-pipe		104		204		304		404		504		604		704		804		904		1004		
Main dimensions	A	mm	380	380	440	440	440	440	480	480	570	570	570	570	440	440	440	440	480	480	600	600	
	B	mm	550	550	650	650	750	750	750	750	1150	1150	1350	1350	1150	1150	1350	1350	1350	1350	1650	1650	
	C	mm	870	870	1020	1020	1120	1120	1160	1160	1150	1150	1250	1250	1020	1020	1120	1120	1160	1160	1470	1470	
	D	mm	360	360	420	420	420	420	460	460	550	550	550	550	420	420	420	420	460	460	580	580	
Water connections	E	mm	510	510	600	600	700	700	700	700	600	600	700	700	600	600	700	700	700	700	890	890	
	F	mm	441		526		526		568		673		673		527		533		568		693		
	G	mm	356		435		546		531		358		478		434		533		519		658		
	I	mm	204		259		241		286		376		369		249		242		286		363		
	L	mm	93		94		96		94		89		95		101		101		100		117		
	M	mm	493		563		554		602		735		723		564		563		602		745		
	N	mm	350		429		542		526		349		471		429		529		514		651		
	O	mm	272		332		317		361		438		443		328		325		361		474		
	P	mm	150		154		159		156		142		158		169		171		162		214		
	Q	mm		461		526		526		568		673		673		527		533		568		715	
	R	mm		382		466		569		560		410		524		466		559		549		681	
	S	mm		204		259		241		286		376		369		249		242		286		411	
	T	mm		150		154		159		156		142		158		169		171		162		214	
	U	mm	418	418	478	478	478	478	518	518	608	608	608	608	478	478	478	478	518	518	638	638	
	V	DN	3/4"- M	3/4"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1-1/2"-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1-1/2"-M	1"-1/2-M	1-1/2"-M	1"-1/2-M	1-1/2"-M	
	Z	DN	3/4"-M		1"-M		1"-M		1"-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		
Net weight	2-pipe	Kg	43,5	51,1	59,5	67	71,3	80,3	77,3	86,3	118,9	133,9	138,7	156,7	99,7	114,7	121,4	139,4	131,4	149,4	224,4	246,9	
	4-pipe	Kg	49,5		65		77,9		83,9		129,9		154,7		110,7		137,4		147,4		248,4		

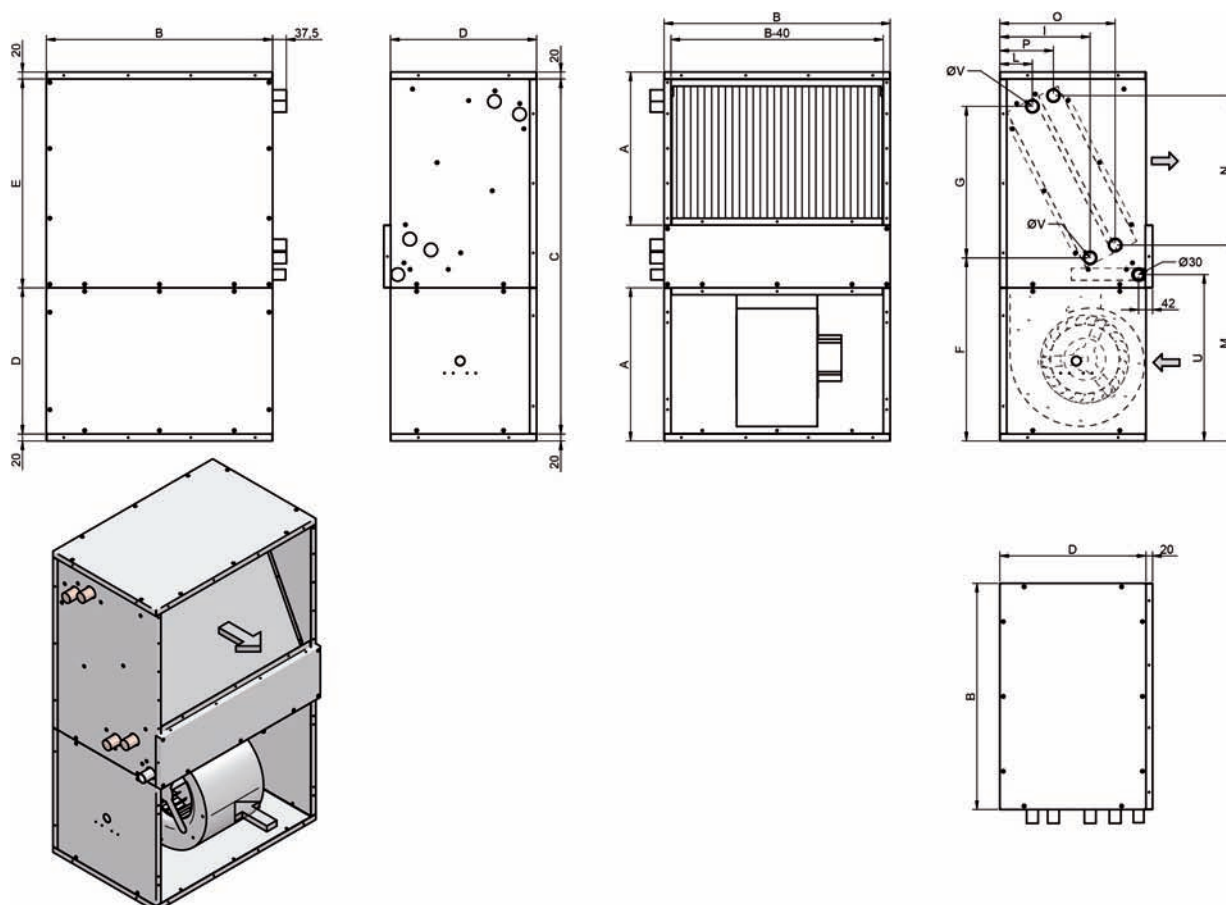
3. VERSIONS AND DIMENSIONS

VERSION MWZ FVBF - Front intake, vertical installation and front air supply

MWZ FVBF - 3R main coil - connections on R (2-pipe units)



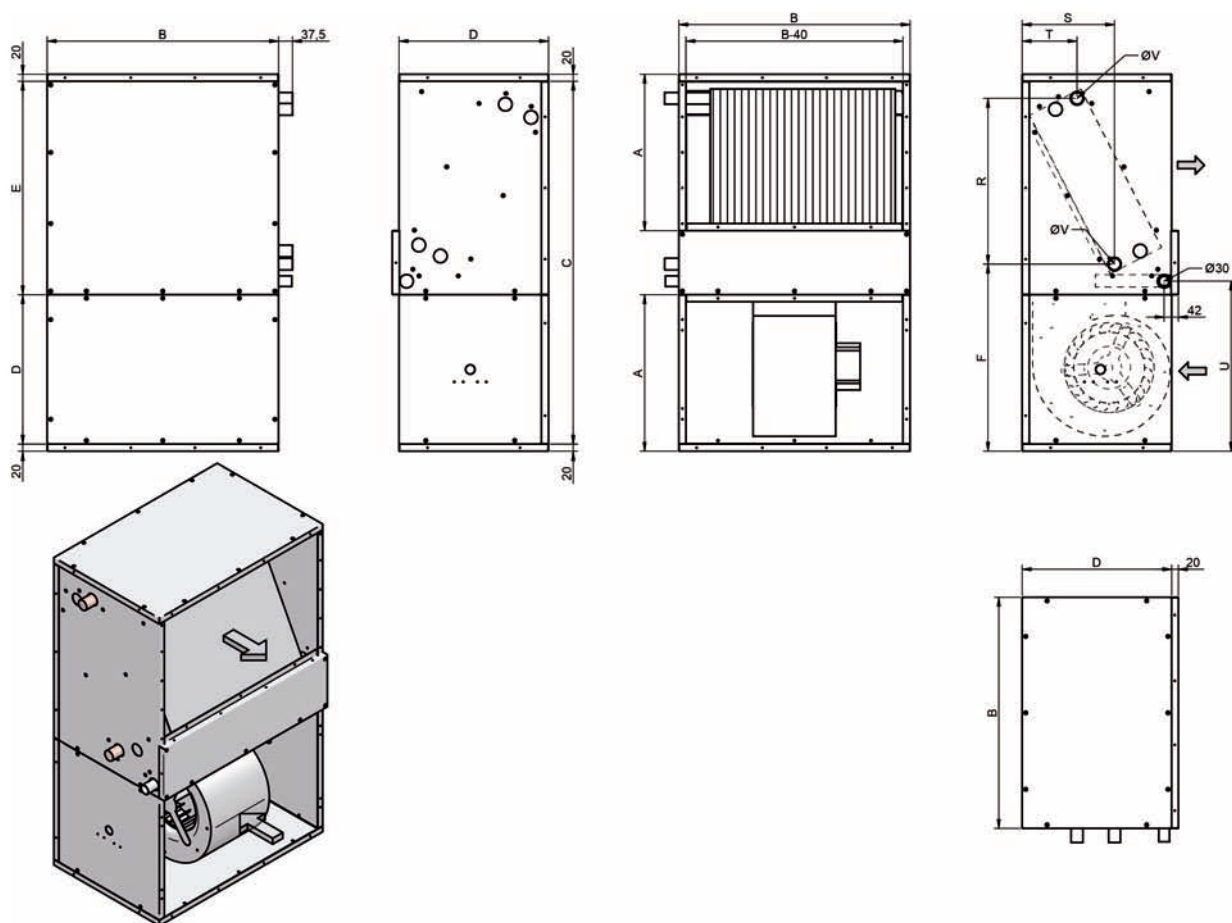
MWZ FVBF - 3R main coil + 2R supplementary coil - connections on R (4-pipe units)



3. VERSIONS AND DIMENSIONS

VERSION MWZ FVBF - Front intake, vertical installation and front air supply

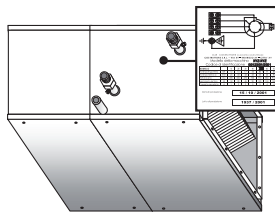
MWZ FVBF - 6R main coil - CONNECTIONS ON THE R (2 PIPE UNITS)



MWZ FVBF	2-pipe		102 (3R)	102 (6R)	202 (3R)	202 (6R)	302 (3R)	302 (6R)	402 (3R)	402 (6R)	502 (3R)	502 (6R)	602 (3R)	602 (6R)	702 (3R)	702 (6R)	802 (3R)	802 (6R)	902 (3R)	902 (6R)	1002 (4R)	1002 (6R)
	4-pipe		104		204		304		404		504		604		704		804		904		1004	
Main dimensions	A	mm	380	380	440	440	440	440	480	480	570	570	570	570	440	440	440	440	480	480	600	600
	B	mm	550	550	650	650	750	750	750	750	1150	1150	1350	1350	1150	1150	1350	1350	1350	1350	1650	1650
	C	mm	870	870	1020	1020	1120	1120	1160	1160	1150	1150	1250	1250	1020	1020	1120	1120	1160	1160	1470	1470
	D	mm	360	360	420	420	420	420	460	460	550	550	550	550	420	420	420	420	460	460	580	580
Water connections	E	mm	510	510	600	600	700	700	700	700	600	600	700	700	600	600	700	700	700	700	890	890
	F	mm	441		526		526		568		673		673		527		533		568		693	
	G	mm	356		435		546		531		358		478		434		533		519		658	
	I	mm	204		259		241		286		376		369		249		242		286		363	
	L	mm	93		94		96		94		89		95		101		101		100		117	
	M	mm	493		563		554		602		735		723		564		563		602		745	
	N	mm	350		429		542		526		349		471		429		529		514		651	
	O	mm	272		332		317		361		438		443		328		325		361		474	
	P	mm	150		154		159		156		142		158		169		171		162		214	
	Q	mm		461		526		526		568		673		673		527		533		568		715
	R	mm		382		466		569		560		410		524		466		559		549		681
	S	mm		204		259		241		286		376		369		249		242		286		411
	T	mm		150		154		159		156		142		158		169		171		162		214
	U	mm	418	418	478	478	478	478	518	518	608	608	608	608	478	478	478	478	518	518	638	638
	V	DN	3/4"- M	3/4"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1"-1/2-M	1"-1/4-M	1"-1/4-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M	1"-1/2-M
	Z	DN	3/4"-M		1"-M		1"-M		1"-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M		1"-1/4-M	
Net weight	2-pipe	Kg	43,5	51,1	59,5	67	71,3	80,3	77,3	86,3	118,9	133,9	138,7	156,7	99,7	114,7	121,4	139,4	131,4	149,4	224,4	246,9
	4-pipe	Kg	49,5		65		77,9		83,9		129,9		154,7		110,7		137,4		147,4		248,4	

4. PACKAGING

The units are delivered in standard packaging comprising a cardboard and/or nylon box + pallets; the accessories are supplied separately, unassembled, or already fitted on the unit (upon request).



Inside the unit is an envelope containing the user, installation and maintenance manual and the warranty certificate. An identification label is affixed to each individual unit, describing:

- Manufacturer's details
- Model of the unit and part/serial number
- Technical data and wiring diagrams



Via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - ITALY
P1/CO_001037/21-03-2016 | OC_4500271577 OVC_LAB CMC

B5Z XXXXXXXXXXXX

SX

MWZXXXXXXXXXXXX

	0,02 MPa 1,5 MPa	+5°C +80°C
	230Vac-1Ph-50/60Hz	550W - 2.40A

Ser.No. 16S1603300110002



KEY	Symbols shown on rating plate
	Water coil
+5°C +80°C	Allowed water temperature range
0,02 MPa 1,5 MPa	Allowed water pressure range
	Motor power supply
	Electric heater
SX	Side with water connections
	The unit must be installed in compliance with standards in force by qualified personnel"
	Read the Instruction Manual
	WEEE waste disposal regulations

5. ACCESSORIES COMPATIBILITY

Description	MWZ			
	PVBO	FVBO	FVBV	FVBF
Pocket filter section (it is recommended to combine this with the flat filter, only available fitted on the unit)	V	V	V	V
Perforated intake panel with flat filter for MWZ	V	V	V	V
Supply panel with grill for MWZ	V	V	V	V
Manual damper section, 0-100%, for MWZ (manual control included)	V	V	V	V
Mixing section with two calibrating dampers, 0-100%, for MWZ (supplied without control)	V	V	V	V
Outdoor/indoor air mixing section, 0-33% 67-100%, for MWZ (manual control included)	V	V	V	V
Hot water coil section for MWZ 102	V	V	V	V
Elec. heater sect. with safety thermostat, 230 V relay	V	V	V	V
Elec. heater sect. with safety thermostat, 400 V relay	V	V	V	V
Vibration-isolating joint on supply for MWZ	V	V	V	V
Vibration-isolating joint on intake for MWZ	V	V	V	V
Circular intake plenum for MWZ	V	V	V	V
Circular supply plenum for MWZ	V	V	V	V
Labyrinth silencer sect. on intake & supply for MWZ	V	V	V	V
Plenum for humidifier with drain pan and droplet separator	V	V		
Ceiling/wall fastening bracket for MWZ	V	V	V	V
Horizontal/vertical condensate drain pump	V	V	V	V
Rain protection Cover	V	V		
3/4" 2-way ON/OFF valve, 230V, for MWZ 102 add. coil	V	V	V	V
1" 2-way ON/OFF valve, 230V, for MWZ 202-302-402 add. coil	V	V	V	V
1-1/4" 2-way ON/OFF valve, 230V, for MWZ 502-602-702-802-902-1002 add. coil	V	V	V	V
3/4" 3-way ON/OFF valve, 230V, for MWZ 102 add. coil	V	V	V	V
1" 3-way ON/OFF valve, 230V, for MWZ 202-302-402 add. coil	V	V	V	V
1-1/4" 3-way ON/OFF valve, 230V, for MWZ 502-602-702-802-902-1002 add. coil	V	V	V	V
3/4" 2-way 3P. valve, 230V, for MWZ 102 add. coil	V	V	V	V
1" 2-way 3P. valve, 230V, for MWZ 202-302-402 add. coil	V	V	V	V
1-1/4" 2-way 3P. valve, 230V, for MWZ 502-602-702-802-902-1002 add. coil	V	V	V	V
3/4" 3-way 3P. valve, 230V, for MWZ 102 add. coil	V	V	V	V
1" 3-way 3P. valve, 230V, for MWZ 202-302-402 add. coil	V	V	V	V
1-1/4" 3-way 3P. valve, 230V, for MWZ 502-602-702-802-902-1002 add. coil	V	V	V	V
3/4" 2-way 0-10V modulating valve for MWZ 102 add. coil	V	V	V	V
1" 2-way 0-10V modulating valve for MWZ 202-302-402 add. coil	V	V	V	V
1-1/4" 2-way 0-10V modulating valve for MWZ 502-602-702-802-902-1002 add. coil	V	V	V	V
3/4" 3-way 0-10V modulating valve for MWZ 102 add. coil	V	V	V	V
1" 3-way 0-10V modulating valve for MWZ 202-302-402 add. coil	V	V	V	V
1-1/4" 3-way 0-10V modulating valve for MWZ 502-602-702-802-902-1002 add. coil	V	V	V	V
ATW controller	V	V	V	V
Remote touch control SmarT 1C	V	V	V	V
iKW controller	V	V	V	V
EKW controller	V	V	V	V
i-HB BOARD, inside IP55	V	V	V	V
HB BOARD, inside IP55	V	V	V	V
SPB BOARD	V	V	V	V
SDI BOARD	V	V	V	V
230V 24VAC TRANSFORMER	V	V	V	V

NOTE: THE RAIN PROTECTION COVER, ESCLUDES THE VALVES AND THE DRAIN PAN

6. UNIT DESCRIPTION

Structure: 20 mm sandwich panel, with galvanised sheet metal on the inside and painted (RAL9002) galvanised sheet metal on the outside. High-density fibreglass filling.

Centrifugal fan installed inside a box made from self-supporting panels. Fan deck including 1 or 2 centrifugal fans with double-sided intake, forward curved aluminium blades, coupled directly to 1 or 2 electric motors, 3 fixed-speed AC motor, IP20 Insulation Class F.

Water coil installed inside a box made from self-supporting panels. High-efficiency heat exchanger coil made from copper pipe and aluminium fins, mechanically expanded onto the pipes. Coils without air vent valves. Tested at a pressure of 30 bars, suitable for operation with water up to a maximum pressure of 15 bars. Water connections as standard on right. Possibility to reverse the connections on site.

2-pipes system units with Main coil is 3 rows as standard for sizes from 100 to 900. For size 1000, the main coil is 4 rows as standard.

Main coil with 6 rows available for all sizes.

4-pipes system units with Additional built-in 2-row coil. (only for units with 3-row/4-row main coil as standard)

MWZ can be equipped with electrical heater with max. power up to 6kW.

Additional section with 2-row hot water coil available.

Air filters: the standard unit is supplied without air filters. A series of air filter sections are available, with as flat, undolated panel and/or pocket filters that customers can choose according to needs.

Post-heating: additional sections are available with single-stage electric heater installed inside the section. The electric heaters are supplied with safety thermostat and relay, and come in different power ratings, depending on system requirements.

Air Recycling/Air Renewal, Regulation and Mixing of External Air: on/off or 0-10 V dampers with manual and/or motorised control are available, meeting any system requirement, such as fresh outdoor air only, control and mixing of two air flows, or management of two completely independent air flows. The dampers are calibrated in the factory for max. 10% outdoor air intake. This calibration can be adjusted on site.

Outdoor unit installation: special construction with structure without pre-holes, special fixing systems and rain cover protection to guarantee normal unit operation even when installed outdoors in variable climatic conditions.

The MWZ units are designed to allow complete customisation. With a complete series of accessories and modules that can be combined and adapted to the basic unit, MWZ can be easily installed in small spaces and in applications with specific installation requirements. MWZ is the perfect unit for all system needs.

7. OPERATING LIMITS

Power supply (unit)	230 V $\pm$ 15% / 1 Ph / 50 Hz (Max 265 V ; Min 195 V)
Power supply (remote controls)	230 V $\pm$ 15% / 1 Ph / 50 Hz (Max 265 V ; Min 195 V)
Power supply (electric heaters 230 V)	230 V $\pm$ 15% / 1 Ph / 50 Hz (Max 265 V ; Min 195 V)
Power supply (electric heaters 400 V)	400 V $\pm$ 15% / 3 Ph / 50 Hz (Max 460 V ; Min 340 V)
Operating temperature (inside air)	- 5 °C to + 40 °C
Operating humidity (inside air)	10 % to 90 % RH – RH (non-condensing)
Maximum water inlet temperature	80°C
Maximum operating pressure (water)	15 Bar
Ethylene glycol (maximum percentage by weight)	80 %

8. TECHNICAL DATA SHEET

MWZ 2T PVBO/FVBO - AC fan			0102	0202	0302	0402	0502
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
2 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	5,82	9,34	10,8	13,3	16,6
Sensible cooling capacity	(1)(2)	kW	4,69	7,77	8,84	10,9	13,5
Max water flow	(1)(2)	l/s	0,28	0,45	0,52	0,64	0,79
Pressure Drop in cooling mode	(1)(2)	kPa	27,2	26,9	25,2	26,0	24,2
Heating							
Total heating capacity	(2)(3)	kW	6,85	11,2	12,9	15,8	19,6
Water flow in heating mode	(2)(3)	l/s	0,33	0,54	0,62	0,76	0,95
Pressure drop in heating mode	(2)(3)	kPa	33,7	34,7	32,0	32,8	30,3
Noise data							
Sound Power on outlet side	(4)	dB(A)	67	72	72	74	71
Sound Power on inlet side	(4)	dB(A)	70	75	75	77	74
FANS							
Air flow		m³/h	1492	2478	2740	3373	4535
External static pressure	(5)	Pa	99	98	80	110	97
Power Input	(6)	kW	0,30	0,69	0,76	1,20	1,22
SIZE AND WEIGHT							
A	(2)	mm	870	1020	1120	1160	1150
B	(2)	mm	550	650	750	750	1150
H	(2)	mm	380	440	440	480	570
Weight	(2)	kg	45	59	71	77	119

MWZ 2T PVBO/FVBO - AC fan			0602	0702	0802	0902	1002
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
2 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	20,8	19,2	22,2	26,5	42,2
Sensible cooling capacity	(1)(2)	kW	16,8	16,0	18,1	21,8	32,2
Max water flow	(1)(2)	l/s	0,99	0,92	1,06	1,27	2,02
Pressure Drop in cooling mode	(1)(2)	kPa	24,7	25,2	23,2	27,4	26,4
Heating							
Total heating capacity	(2)(3)	kW	24,2	23,3	26,2	31,4	45,7
Water flow in heating mode	(2)(3)	l/s	1,17	1,12	1,26	1,52	2,21
Pressure drop in heating mode	(2)(3)	kPa	30,1	33,4	28,9	30,3	27,8
Noise data							
Sound Power on outlet side	(4)	dB(A)	73	75	75	77	74
Sound Power on inlet side	(4)	dB(A)	76	78	78	80	77
FANS							
Air flow		m³/h	5075	4940	5464	6736	8934
External static pressure	(5)	Pa	76	97	79	110	93
Power Input	(6)	kW	1,32	1,38	1,50	2,39	2,36
SIZE AND WEIGHT							
A	(2)	mm	1250	1020	1120	1160	1470
B	(2)	mm	1350	1150	1350	1350	1650
H	(2)	mm	570	440	440	480	600
Weight	(2)	kg	139	100	121	131	224

Notes:

1 Cooling: Indoor 27°C, RH 47%. Chilled water (in/out) 7°C/12°C. Unit in air recirculation mode (Mix 0%).

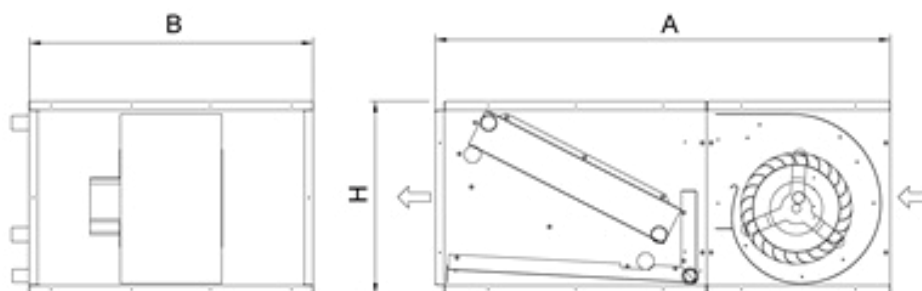
2 Base unit in configuration: flat filter + fan + standard main coil

3 Heating: Indoor 20°C, RH 50%. Hot water (in/out) 45°C/40°C. Unit in air recirculation mode (MIX 0%)

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 External static pressure for base unit, equipped with flat filter (pressure drops due to other optional accessories are not included/calculated)

6 Power input calculated for base unit equipped with flat filter (other optional accessories are not included/calculated)



8. TECHNICAL DATA SHEET

MWZ 4T PVBO/FVBO - AC fan			0104	0204	0304	0404	0504
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
4 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	5,57	9,12	10,6	13,1	16,2
Sensible cooling capacity	(1)(2)	kW	4,48	7,58	8,69	10,7	13,2
Max water flow	(1)(2)	l/s	0,27	0,44	0,51	0,63	0,77
Pressure Drop in cooling mode	(1)(2)	kPa	25,0	25,7	24,4	25,3	23,2
Heating							
Total heating capacity	(2)(3)	kW	5,08	8,43	9,97	12,2	14,8
Water flow in heating mode	(2)(3)	l/s	0,24	0,41	0,48	0,59	0,72
Pressure drop in heating mode	(2)(3)	kPa	36,5	39,0	35,8	40,8	38,7
Noise data							
Sound Power on outlet side	(4)	dB(A)	67	72	72	74	71
Sound Power on inlet side	(4)	dB(A)	70	75	75	77	74
FANS							
Air flow		m³/h	1418	2411	2689	3312	4421
External static pressure	(5)	Pa	86	91	75	105	90
Power Input	(6)	kW	0,28	0,66	0,73	1,15	1,15
SIZE AND WEIGHT							
A	(2)	mm	870	1020	1120	1160	1150
B	(2)	mm	550	650	750	750	1150
H	(2)	mm	380	440	440	480	570
Weight	(2)	kg	50	65	78	84	130

MWZ 4T PVBO/FVBO - AC fan			0604	0704	0804	0904	1004
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
4 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	20,5	18,7	21,9	26,2	41,3
Sensible cooling capacity	(1)(2)	kW	16,6	15,6	17,8	21,5	31,5
Max water flow	(1)(2)	l/s	0,98	0,89	1,05	1,25	1,97
Pressure Drop in cooling mode	(1)(2)	kPa	24,0	24,0	22,4	26,7	25,3
Heating							
Total heating capacity	(2)(3)	kW	18,9	17,3	20,1	24,0	30,9
Water flow in heating mode	(2)(3)	l/s	0,91	0,84	0,97	1,16	1,49
Pressure drop in heating mode	(2)(3)	kPa	31,9	40,1	32,7	39,0	39,6
Noise data							
Sound Power on outlet side	(4)	dB(A)	73	75	75	77	74
Sound Power on inlet side	(4)	dB(A)	76	78	78	80	77
FANS							
Air flow		m³/h	5000	4802	5360	6612	8716
External static pressure	(5)	Pa	71	89	74	105	86
Power Input	(6)	kW	1,26	1,30	1,45	2,28	2,22
SIZE AND WEIGHT							
A	(2)	mm	1250	1020	1120	1160	1470
B	(2)	mm	1350	1150	1350	1350	1650
H	(2)	mm	570	440	440	480	600
Weight	(2)	kg	155	111	137	147	248

Notes:

1 Cooling: Indoor 27°C, RH 47%. Chilled water (in/out) 7°C/12°C. Unit in air recirculation mode (Mix 0%).

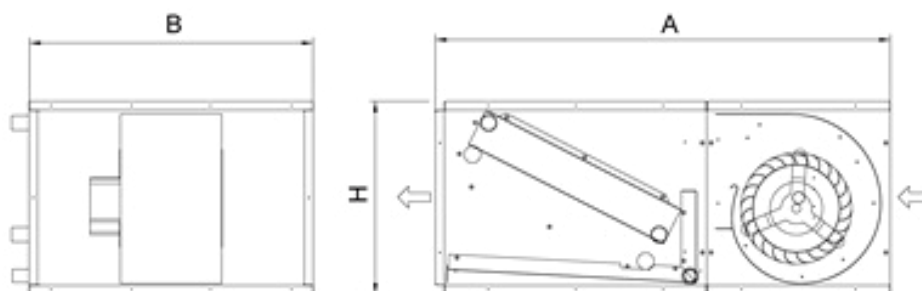
2 Base unit in configuration: flat filter + fan + standard main coils

3 Heating: Indoor 20°C, RH 50%. Hot water (in/out) 45°C/40°C. Unit in air recirculation mode (MIX 0%)

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 External static pressure for base unit, equipped with flat filter (pressure drops due to other optional accessories are not included/calculated)

6 Power input calculated for base unit equipped with flat filter (other optional accessories are not included/calculated)



8. TECHNICAL DATA SHEET

MWZ 2T FVBV/FVBF - AC fan			0102	0202	0302	0402	0502
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
2 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	5,82	9,34	10,8	13,3	16,6
Sensible cooling capacity	(1)(2)	kW	4,69	7,77	8,84	10,9	13,5
Max water flow	(1)(2)	l/s	0,28	0,45	0,52	0,64	0,79
Pressure Drop in cooling mode	(1)(2)	kPa	27,2	26,9	25,2	26,0	24,2
Heating							
Total heating capacity	(2)(3)	kW	6,85	11,2	12,9	15,8	19,6
Water flow in heating mode	(2)(3)	l/s	0,33	0,54	0,62	0,76	0,95
Pressure drop in heating mode	(2)(3)	kPa	33,7	34,7	32,0	32,8	30,3
Noise data							
Sound Power on outlet side	(4)	dB(A)	67	72	72	74	71
Sound Power on inlet side	(4)	dB(A)	70	75	75	77	74
FANS							
Air flow		m³/h	1492	2478	2740	3373	4535
External static pressure	(5)	Pa	99	98	80	110	97
Power Input	(6)	kW	0,30	0,69	0,76	1,20	1,22
SIZE AND WEIGHT							
A	(2)	mm	380	440	440	480	570
B	(2)	mm	550	650	750	750	1150
H	(2)	mm	870	1020	1120	1160	1150
Weight	(2)	kg	45	59	71	77	119

MWZ 2T FVBV/FVBF - AC fan			0602	0702	0802	0902	1002
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
2 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	20,8	19,2	22,2	26,5	42,2
Sensible cooling capacity	(1)(2)	kW	16,8	16,0	18,1	21,8	32,2
Max water flow	(1)(2)	l/s	0,99	0,92	1,06	1,27	2,02
Pressure Drop in cooling mode	(1)(2)	kPa	24,7	25,2	23,2	27,4	26,4
Heating							
Total heating capacity	(2)(3)	kW	24,2	23,3	26,2	31,4	45,7
Water flow in heating mode	(2)(3)	l/s	1,17	1,12	1,26	1,52	2,21
Pressure drop in heating mode	(2)(3)	kPa	30,1	33,4	28,9	30,3	27,8
Noise data							
Sound Power on outlet side	(4)	dB(A)	73	75	75	77	74
Sound Power on inlet side	(4)	dB(A)	76	78	78	80	77
FANS							
Air flow		m³/h	5075	4940	5464	6736	8934
External static pressure	(5)	Pa	76	97	79	110	93
Power Input	(6)	kW	1,32	1,38	1,50	2,39	2,36
SIZE AND WEIGHT							
A	(2)	mm	570	440	440	480	600
B	(2)	mm	1350	1150	1350	1350	1650
H	(2)	mm	1250	1020	1120	1160	1470
Weight	(2)	kg	139	100	121	131	224

Notes:

1 Cooling: Indoor 27°C, RH 47%. Chilled water (in/out) 7°C/12°C. Unit in air recirculation mode (Mix 0%).

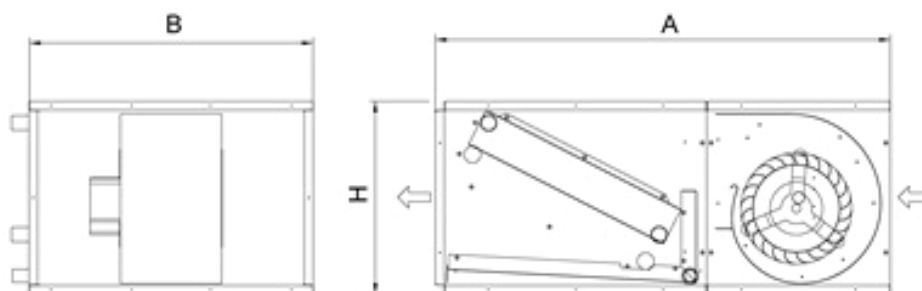
2 Base unit in configuration: flat filter + fan + standard main coil

3 Heating: Indoor 20°C, RH 50%. Hot water (in/out) 45°C/40°C. Unit in air recirculation mode (MIX 0%)

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 External static pressure for base unit, equipped with flat filter (pressure drops due to other optional accessories are not included/calculated)

6 Power input calculated for base unit equipped with flat filter (other optional accessories are not included/calculated)



8. TECHNICAL DATA SHEET

MWZ 4T FVBV/FVBF - AC fan			0104	0204	0304	0404	0504
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
4 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	5,57	9,12	10,6	13,1	16,2
Sensible cooling capacity	(1)(2)	kW	4,48	7,58	8,69	10,7	13,2
Max water flow	(1)(2)	l/s	0,27	0,44	0,51	0,63	0,77
Pressure Drop in cooling mode	(1)(2)	kPa	25,0	25,7	24,4	25,3	23,2
Heating							
Total heating capacity	(2)(3)	kW	5,08	8,43	9,97	12,2	14,8
Water flow in heating mode	(2)(3)	l/s	0,24	0,41	0,48	0,59	0,72
Pressure drop in heating mode	(2)(3)	kPa	36,5	39,0	35,8	40,8	38,7
Noise data							
Sound Power on outlet side	(4)	dB(A)	67	72	72	74	71
Sound Power on inlet side	(4)	dB(A)	70	75	75	77	74
FANS							
Air flow		m³/h	1418	2411	2689	3312	4421
External static pressure	(5)	Pa	86	91	75	105	90
Power Input	(6)	kW	0,28	0,66	0,73	1,15	1,15
SIZE AND WEIGHT							
A	(2)	mm	380	440	440	480	570
B	(2)	mm	550	650	750	750	1150
H	(2)	mm	870	1020	1120	1160	1150
Weight	(2)	kg	50	65	78	84	130

MWZ 4T FVBV/FVBF - AC fan			0604	0704	0804	0904	1004
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
4 PIPES SYSTEM CONFIGURATION							
PERFORMANCE							
Cooling							
Total cooling capacity	(1)(2)	kW	20,5	18,7	21,9	26,2	41,3
Sensible cooling capacity	(1)(2)	kW	16,6	15,6	17,8	21,5	31,5
Max water flow	(1)(2)	l/s	0,98	0,89	1,05	1,25	1,97
Pressure Drop in cooling mode	(1)(2)	kPa	24,0	24,0	22,4	26,7	25,3
Heating							
Total heating capacity	(2)(3)	kW	18,9	17,3	20,1	24,0	30,9
Water flow in heating mode	(2)(3)	l/s	0,91	0,84	0,97	1,16	1,49
Pressure drop in heating mode	(2)(3)	kPa	31,9	40,1	32,7	39,0	39,6
Noise data							
Sound Power on outlet side	(4)	dB(A)	73	75	75	77	74
Sound Power on inlet side	(4)	dB(A)	76	78	78	80	77
FANS							
Air flow		m³/h	5000	4802	5360	6612	8716
External static pressure	(5)	Pa	71	89	74	105	86
Power Input	(6)	kW	1,26	1,30	1,45	2,28	2,22
SIZE AND WEIGHT							
A	(2)	mm	570	440	440	480	600
B	(2)	mm	1350	1150	1350	1350	1650
H	(2)	mm	1250	1020	1120	1160	1470
Weight	(2)	kg	155	111	137	147	248

Notes:

1 Cooling: Indoor 27°C, RH 47%. Chilled water (in/out) 7°C/12°C. Unit in air recirculation mode (Mix 0%).

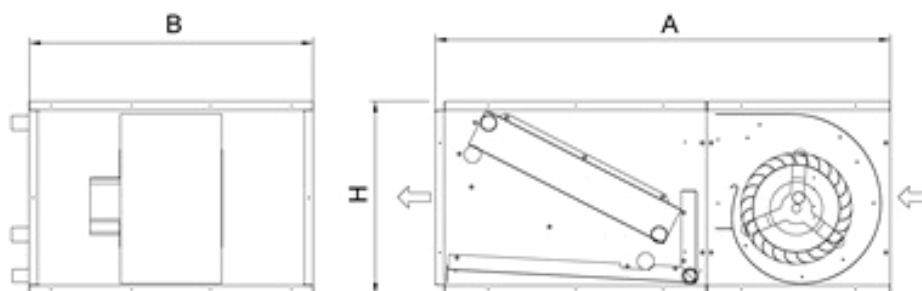
2 Base unit in configuration: flat filter + fan + standard main coils

3 Heating: Indoor 20°C, RH 50%. Hot water (in/out) 45°C/40°C. Unit in air recirculation mode (MIX 0%)

4 Sound power on the basis of measurements made in compliance with ISO 9614.

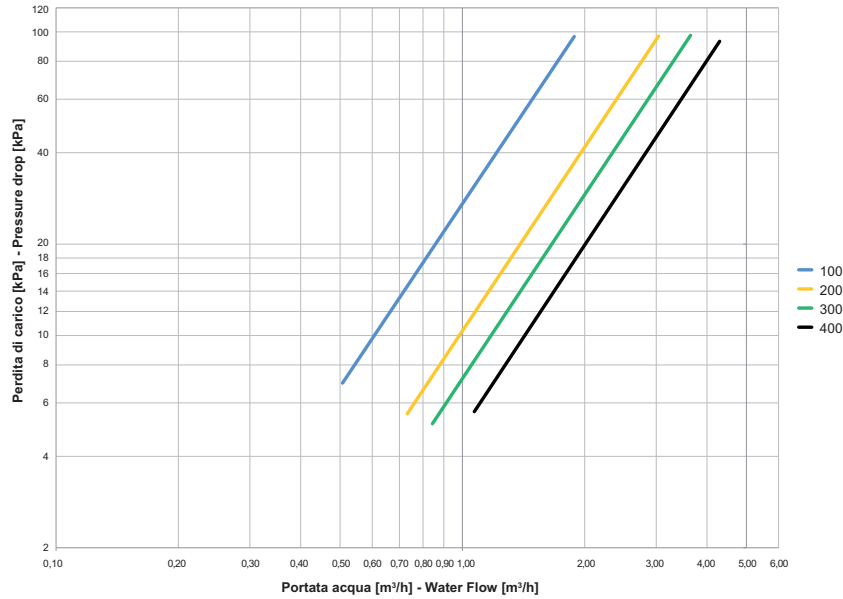
5 External static pressure for base unit, equipped with flat filter (pressure drops due to other optional accessories are not included/calculated)

6 Power input calculated for base unit equipped with flat filter (other optional accessories are not included/calculated)

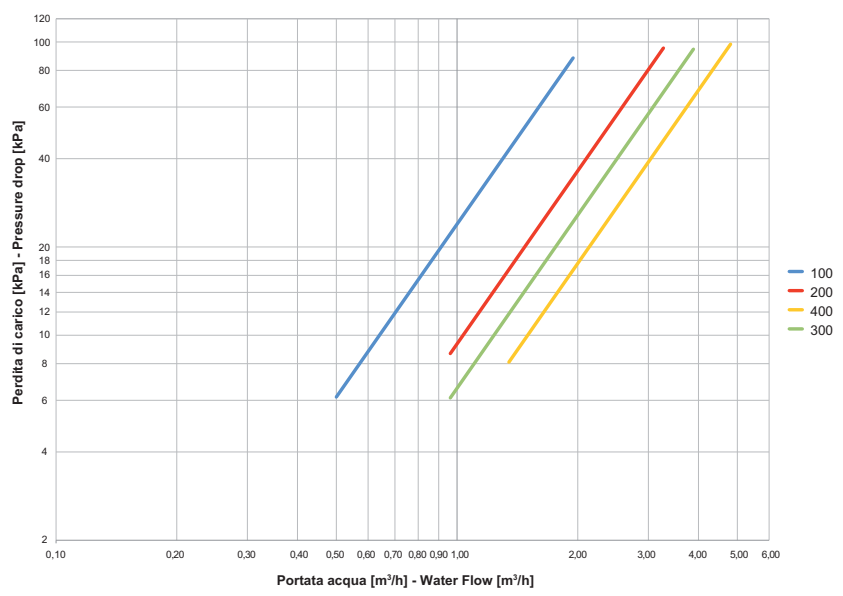


9. PRESSURE DROP

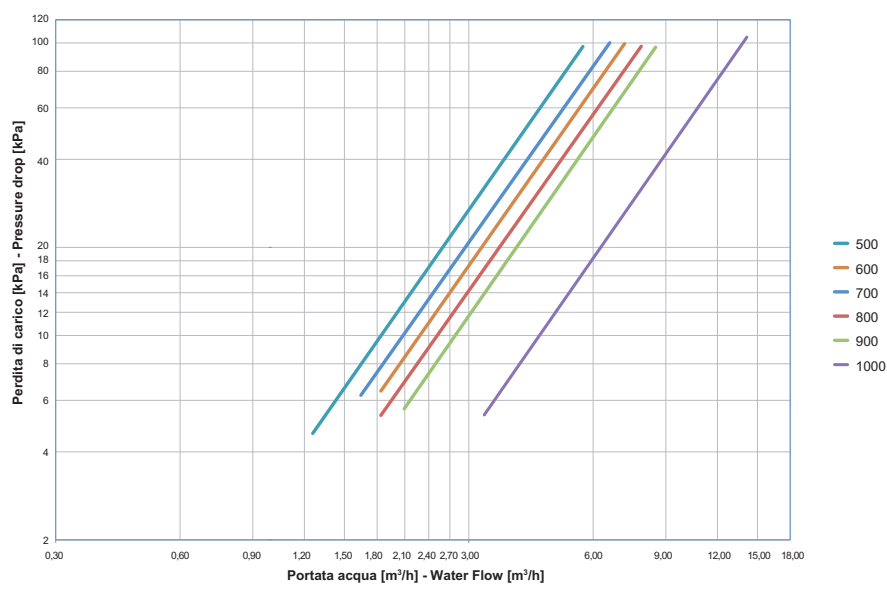
MAIN COIL
COOLING
MWZ 100-400



MAIN COIL
HEATING
MWZ 100-400

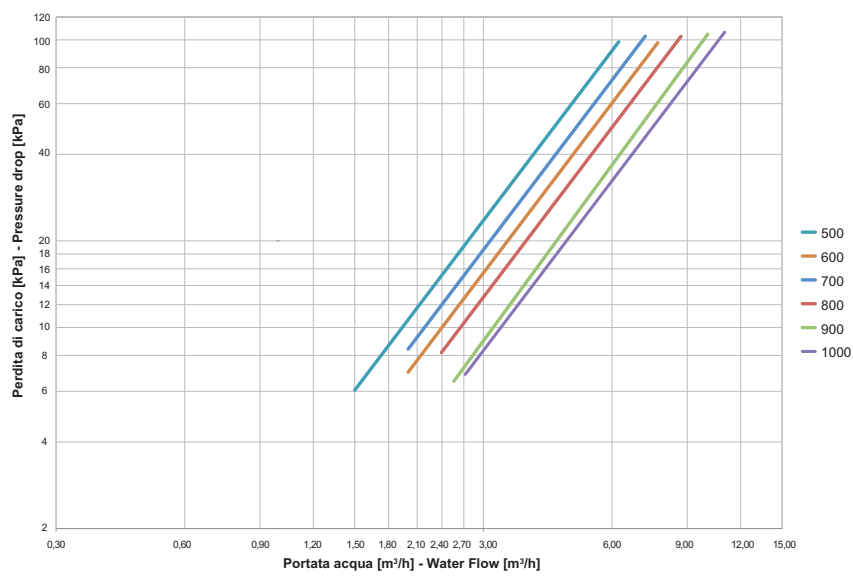


MAIN COIL
COOLING
MWZ 500-1000

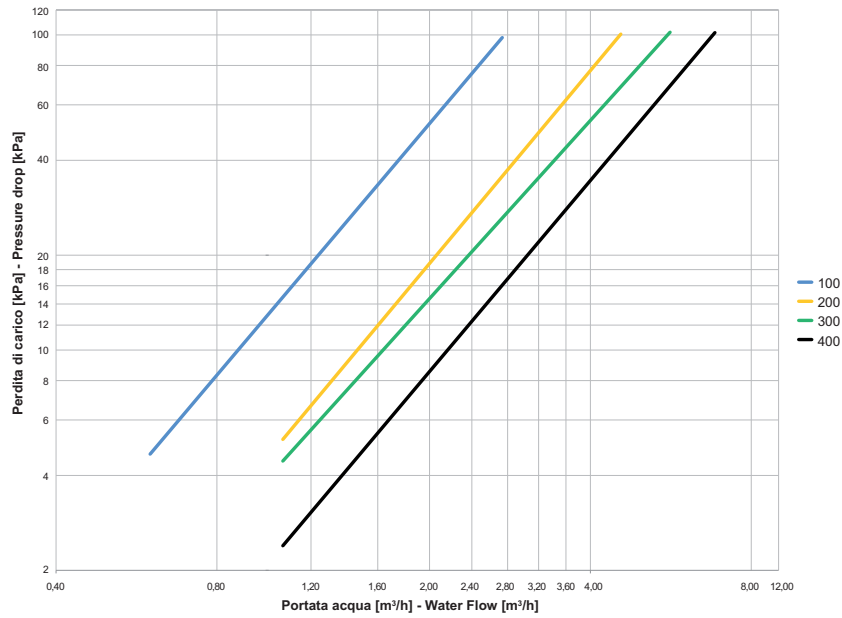


9. PRESSURE DROP

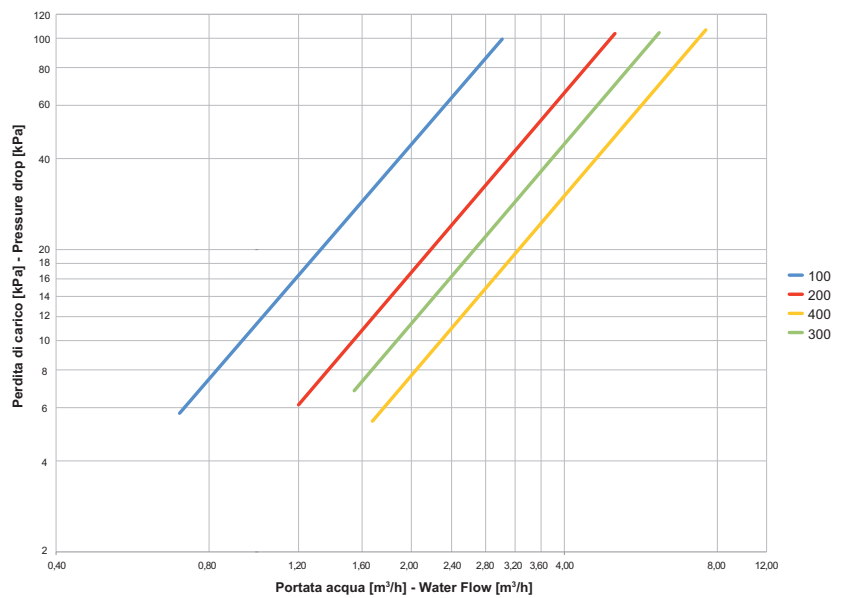
MAIN COIL
HEATING
MWZ 500-1000



MAIN COIL 6R
COOLING
MWZ 100-400

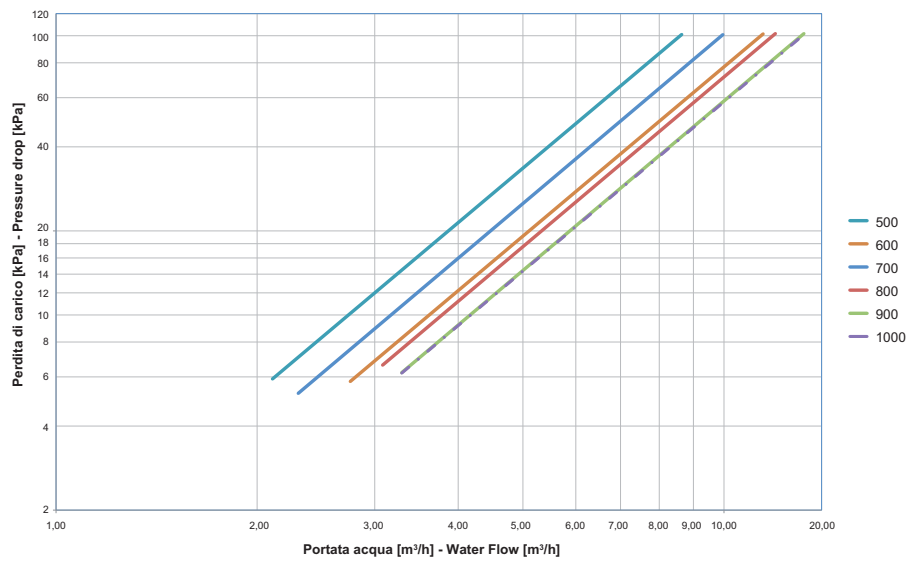


MAIN COIL 6R
HEATING
MWZ 100-400

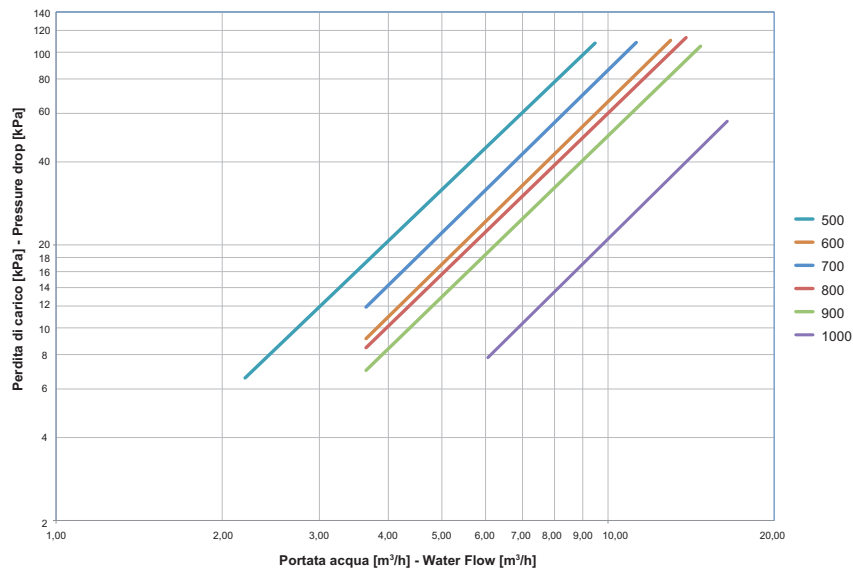


9. PRESSURE DROP

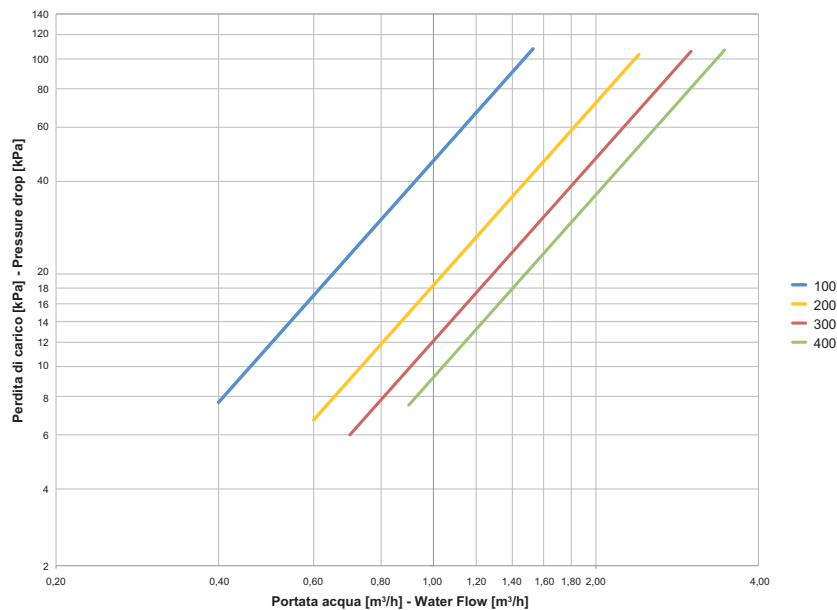
MAIN COIL 6R
COOLING
MWZ 500-1000



MAIN COIL 6R
HEATING
MWZ 500-1000

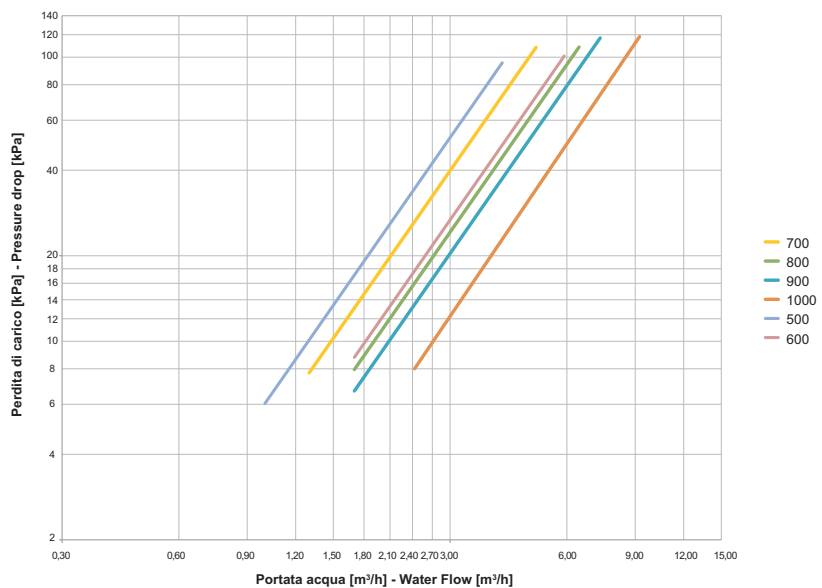


ADDITIONAL COIL 2R
HEATING
MWZ 100-400



9. PRESSURE DROP

**ADDITIONAL COIL 2R
HEATING
MWZ 500-1000**



10. SOUND POWER LEVEL

AC units	Size	Motor variant	Supply Lw db(A)	Intake Lw db(A)	Supply Lp db(A)	Intake Lp db(A)
MWZ	102/104	AC motor	67	70	58	61
MWZ	202/204	AC motor	72	75	63	66
MWZ	302/304	AC motor	72	75	63	66
MWZ	402/404	AC motor	74	77	65	68
MWZ	502/504	AC motor	71	74	62	65
MWZ	602/604	AC motor	75	78	66	69
MWZ	702/704	AC motor	73	76	64	67
MWZ	802/804	AC motor	75	78	66	69
MWZ	902/904	AC motor	77	80	68	71
MWZ	1002/1004	AC motor	74	77	65	68

Sound power Lw on the basis of measurements made in compliance with ISO 3741.

Sound pressure level Lp 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.

11. REMOTE CONTROLS

ATW wall-mounted control

The ATW control is used to regulate the air (3 speeds + auto), the temperature through electronic thermostat, to select the summer / winter / auto mode of operation and to switch the fan-coil on / off.



Temperature selector

Adjust the temperature as required by turning the temperature selector from +14°C to 30°C.

Function selector

MODE

Select the mode of operation pushing the **MODE** button.

Mode led

Cooling



Heating



Automatic setting

AUTO

Speed button



Select the fan speed pushing the  button. The repeated pressure of fan button determines speed required.

Maximum fan speed

Medium fan speed

Minimum fan speed

Automatic fan speed

AUTO

OFF: press the button MODE changing modes till all leds are turned off. (HEAT --> COOL --> AUTO --> OFF)

Led

Blue LED: Heating / Cooling plus regulator call
Blue LED blinking: Hot start / Too Cool function active



Blue LED: operation in Cooling mode



Blue LED: operation in Heating mode



Blue LED: automatic cooling / heating mode selection

AUTO

Electrical connections

Collegamento con accessorio Resistenza elettrica
Connection with accessory Electrical heater

Power Min = BK-RD
Power Max = WH-RD

Termostati Sicurezza:

- TS1 riarmo automatico
- TS2 riarmo manuale

Safety Thermostats:

- TS1 automatic reset
- TS2 manual reset

Obbligatorio: Quando presente la res. elettr., proteggere la linea alimentazione 230V~50/60Hz del Relè tramite adeguato interruttore magnetotermico, a cura del cliente. **Compulsory:** When electrical heater is installed, protect the 230V~50/60Hz feeding line of the Relay with appropriate thermomagnetic switch, by the customer.

GNYE	Giallo/Verde-Yellow/Green	WH	Bianco - White
BN	Marrone - Brown	RD	Rosso - Red
BU	Blu - Blue	BK	Nero - Black
L	Fase (linea 230V~) - Phase (230V~line)		
N	Neutro - Neutral		
PE	Terra - Earth		
Com	Comune ventilatore - Common of the fan		
Min	Velocità Minima - Min. speed (Low)		
Med	Velocità Media - Med. speed (Medium)		
Max	Velocità Massima - Max. speed (High)		
MV	Motore ventilatore - Fan motor		
C	Condensatore - Capacitor		
X1	Eventuale dispositivo intermedio (es.: Connettore/Autotrasf./ecc.) Possible intermediate equipment (ex.: Connector/Autotransf./etc.)		
BT2	Sonda acqua - Water sensor		

ACCESSORI - ACCESSORIES

YV1	Valvola batteria principale - Principal coil valve
YV2	Valvola batteria aggiuntiva - Secondary coil valve

Power Min = BK-RD
Power Max = WH-RD

Termostati Sicurezza:

- TS1 riarmo automatico
- TS2 riarmo manuale

Safety Thermostats:

- TS1 automatic reset
- TS2 manual reset

Obbligatorio: Quando presente la res. elettr., proteggere la linea alimentazione 230V~50/60Hz del Relè tramite adeguato interruttore magnetotermico, a cura del cliente. **Compulsory:** When electrical heater is installed, protect the 230V~50/60Hz feeding line of the Relay with appropriate thermomagnetic switch, by the customer.

Kit BUS-ADAPTER

IG Interruttore di protezione (a cura del cliente) - Thermomagnetic switch (by the customer)
SA1 Contatto multifunzionale (a cura del cliente) - Multifunctional contact (by the customer)

11. REMOTE CONTROLS

SmarT 1C, touchscreen smart control “All-in-One”

Advanced remote control for fancoil units with embedded electronics, suitable for flush mounted installation in standard three-module electrical box. It doesn't require any electronic card on board the unit.

The control has a 3,9" touchscreen display and can be connected to a single 2 or 4 pipe fancoil unit, with AC motor (three speed) or EC motor (continuous modulation), with or without valves. The control setting is made through dipswitch, based on the configuration of the connected fancoil unit.

As standard, the control includes BMS connectivity; it is possible to connect the control to supervision systems based on two different communication protocols: ModBus or BACnet (configured via dipswitch).

The interface includes different configuration and setting parameters, accessible with an easy procedure.

Main functions:

- Selection of the operating mode (OFF, Summer / Winter, AUTO / MANUAL, Fan only).
- Selection of fan speeds (3 speeds or 1-10V signal).
- Temperature to be displayed as °C or °F.
- Possibility to manage different setpoint values for heating and cooling (“double setpoint Cool/Heat”).
- Managing of main and additional valve (ON/OFF and 0-10V)*.
- Managing of electrical heater (2 pipe FCU only).
- RS485 integrated port for BMS connectivity (Modbus or BACnet).
- Daily and weekly program.
- Embedded room temperature probe.
- Remote water temperature probe (accessory).
- Digital inputs: window contact, economy.
- Air filter maintenance alert (to be enabled by parameter).

* FCU with EC motor + no. 2 0-10V valves: configuration not available



11. REMOTE CONTROLS

SPB / SDI INTERFACE

EACH CONTROL PANEL CAN ONLY MANAGE ONE UNIT

To connect Climaveneta remote controls to the units with AC motor, see the table below, listing the interface board (SPB kit and SDI kit) to be used, according to unit size, or to be requested as a unit configuration option.

Controls	ATW, SmarT 1C, EKW/iK+(i)HB	
Size	SDI board kit	SPB board kit
MWZ AC motor 102/104		YES
MWZ AC motor 202/204		YES
MWZ AC motor 302/304		YES
MWZ AC motor 402/404	YES	
MWZ AC motor 502/504	YES	
MWZ AC motor 602/604	YES	
MWZ AC motor 702/704	YES	
MWZ AC motor 802/804	YES	
MWZ AC motor 902/904	YES	
MWZ AC motor 10002/1004	YES	

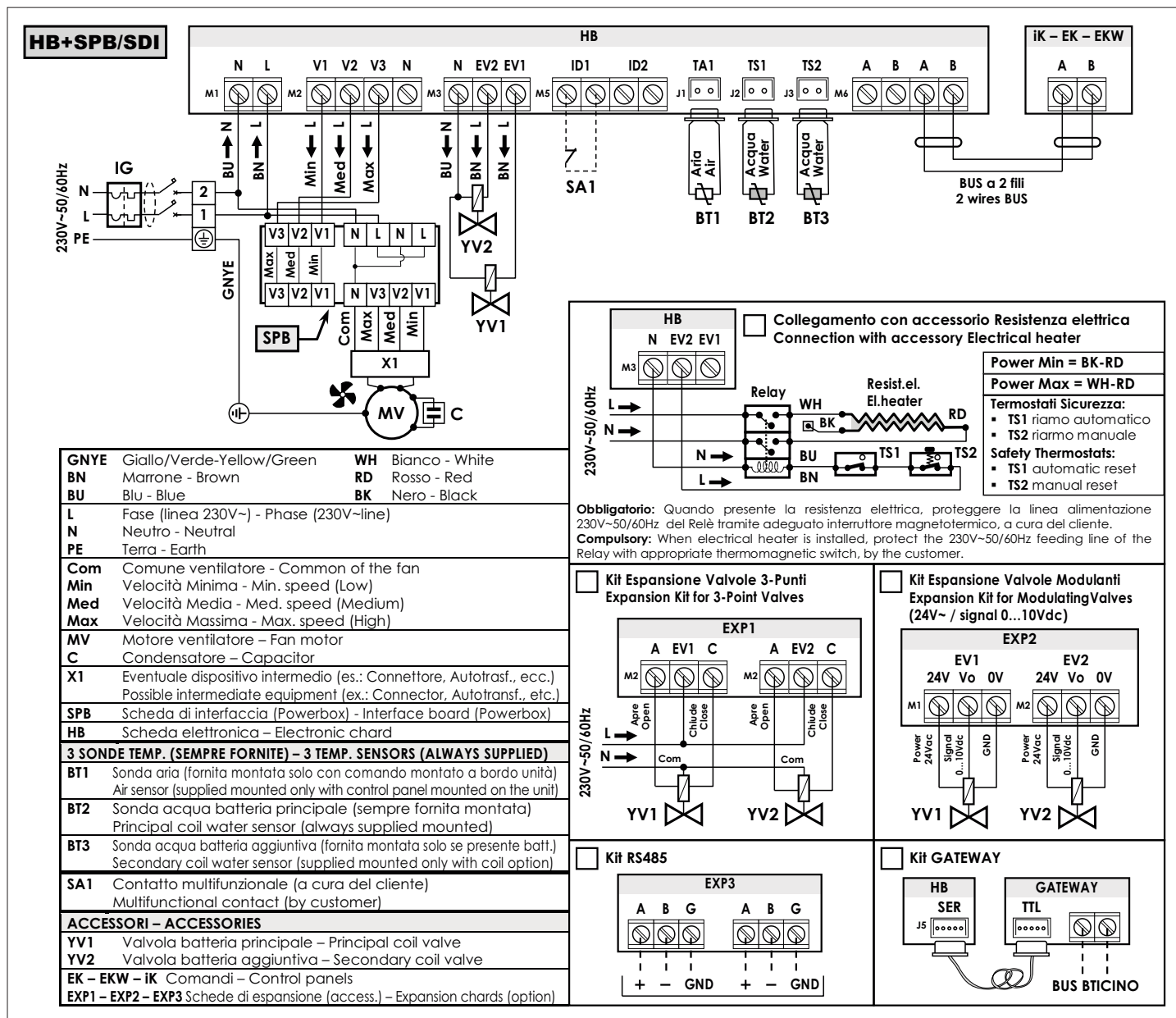
	Supplied as accessory kit	Supplied already mounted on the unit
SDI part number	-	B421
SPB part number	-	B422
ATW part number	5549050000	-
SmarT 1C part number	5549097151	-
EKW part number	5549050400	-
iK part number	5549050700	-
i-HB part number	5569044400	A099
HB part number	5569044300	A101

Note: To control multiple units (or one unit with two motors), the power supply to the different motors should be **SEPARATE AND INDEPENDENT**. To do this, it is recommended to install three relays (one for each speed) with independent contacts (one contact for each motor being controlled) or install the **INTERFACE BOARD** (accessory): in this way, any faults will only affect one motor, and should not interfere with or affect the others !!

The place where the control panel is mounted must be chosen so that the maximum and minimum room temperature limits are not exceeded (0-45°C; < 85% RH) The control panel cannot be installed on a metal wall, unless the latter is permanently earthed.

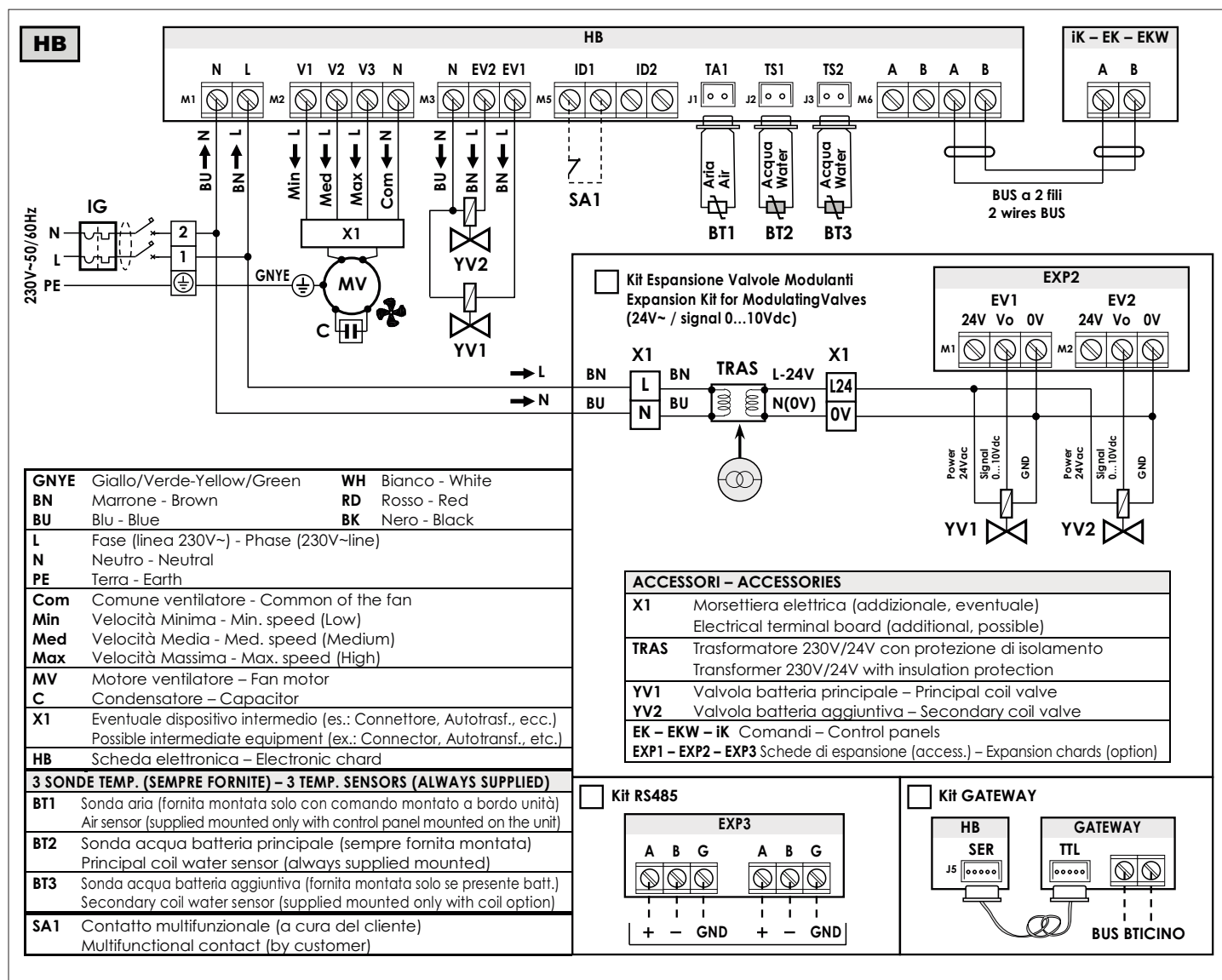
11. REMOTE CONTROLS

Electrical connections for MWZ units fitted with AC motor, HB and SPB/SDI boards



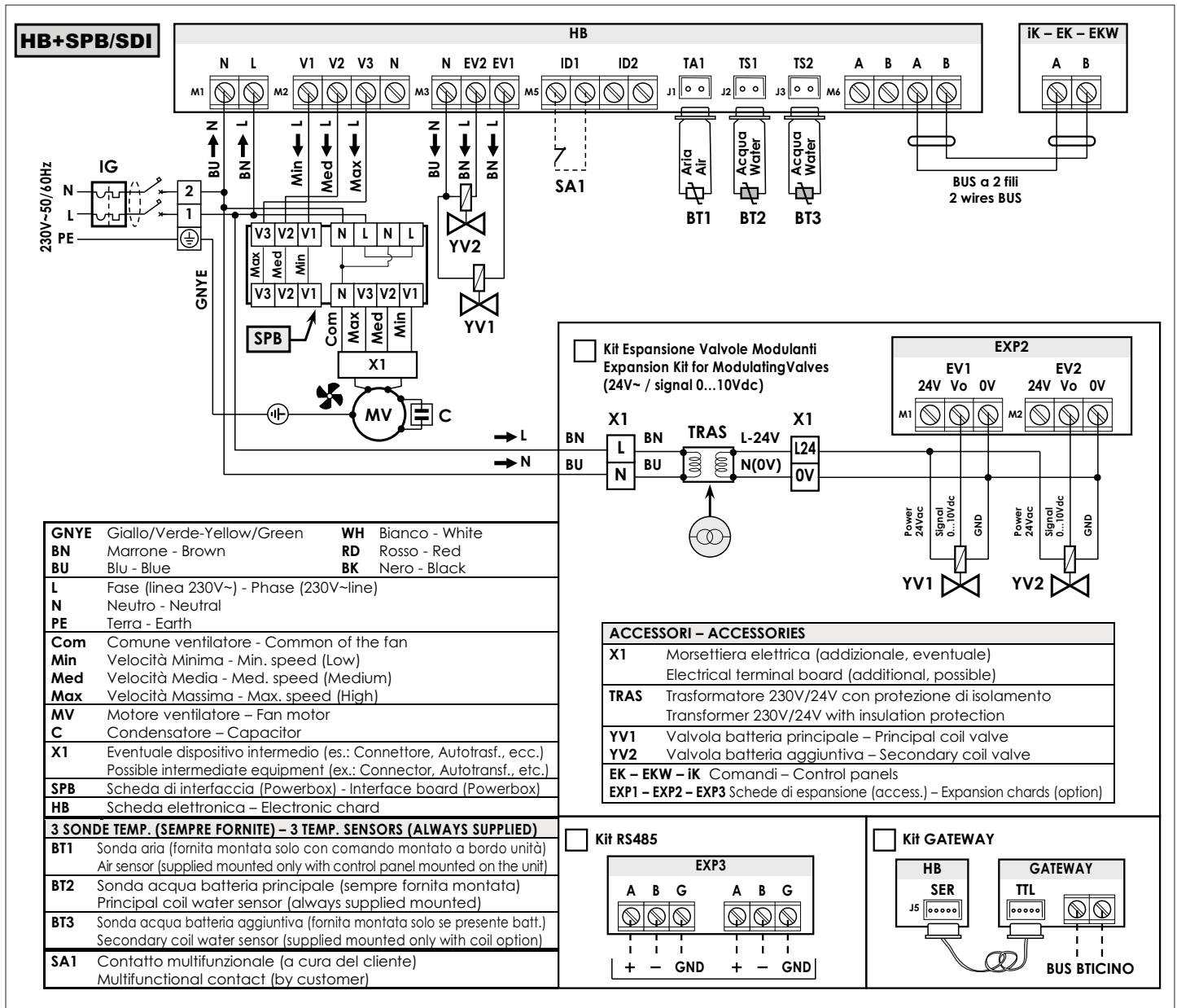
11. REMOTE CONTROLS

Electrical connections for MWZ units fitted with AC motor, HB board and 230V/24VAC transformer



11. REMOTE CONTROLS

Electrical connections for MWZ units fitted with AC motor, SPB/SDI kit, HB board and 230V/24VAC transformer



11. REMOTE CONTROLS

ATW controller electrical connections

Collegamento con accessorio Resistenza elettrica
Connection with accessory Electrical heater

Power Min = BK-RD
Power Max = WH-RD

Termostati Sicurezza:

- TS1 riarmo automatico
- TS2 riarmo manuale

Safety Thermostats:

- TS1 automatic reset
- TS2 manual reset

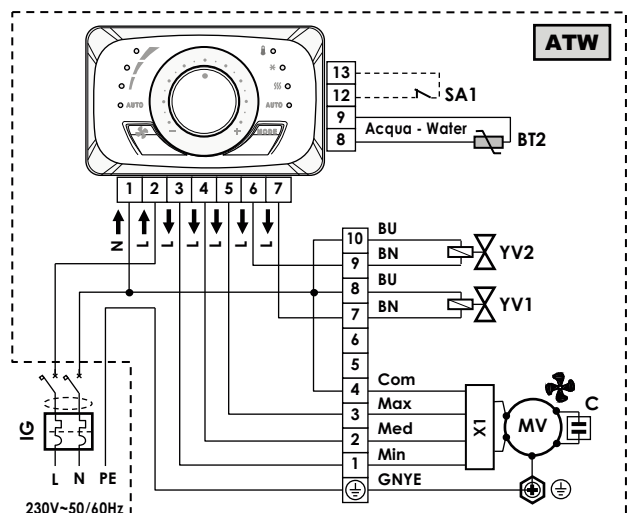
Obbligatorio: Quando presente la res. elettr., proteggere la linea alimentazione 230V~50/60Hz del Relè tramite adeguato interruttore magnetotermico, a cura del cliente. **Compulsory:** When electrical heater is installed, protect the 230V~50/60Hz feeding line of the Relay with appropriate thermomagnetic switch, by the customer.

GNYE	Giallo/Verde - Yellow/Green	WH	Bianco - White
BN	Marrone - Brown	RD	Rosso - Red
BU	Blu - Blue	BK	Nero - Black
L	Fase (linea 230V~) - Phase (230V~line)		
N	Neutro - Neutral		
PE	Terra - Earth		
Com	Comune ventilatore - Common of the fan		
Min	Velocità Minima - Min. speed (Low)		
Med	Velocità Media - Med. speed (Medium)		
Max	Velocità Massima - Max. speed (High)		
MV	Motore ventilatore - Fan motor		
C	Condensatore - Capacitor		
X1	Eventuale dispositivo intermedio (es.: Connettore/Autotrasf./ecc.) Possible intermediate equipment (ex.: Connector/Autotransf./etc.)		
BT2	Sonda acqua - Water sensor		

ACCESSORI - ACCESSORIES

YV1	Valvola batteria principale - Principal coil valve
YV2	Valvola batteria aggiuntiva - Secondary coil valve

☐ **Kit BUS-ADAPTER**

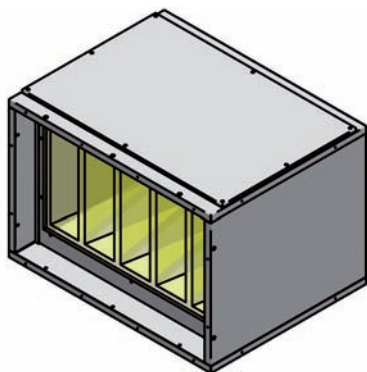


IG Interruttore di protezione (a cura del cliente) - Thermomagnetic switch (by the customer)
SA1 Contatto multifunzionale (a cura del cliente) - Multifunctional contact (by the customer)

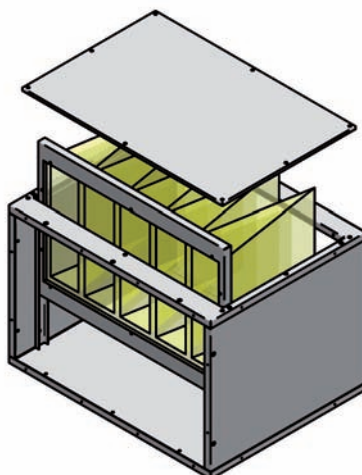
12. ACCESSORIES

Ductable air filter section with pocket filter removable from below / above

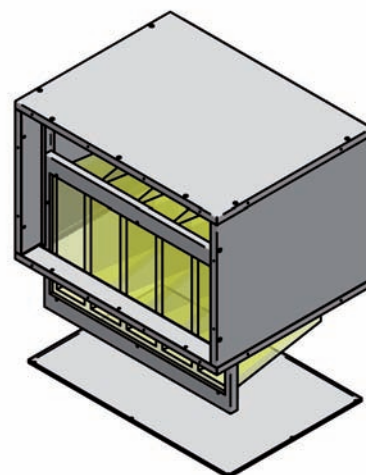
Filter section



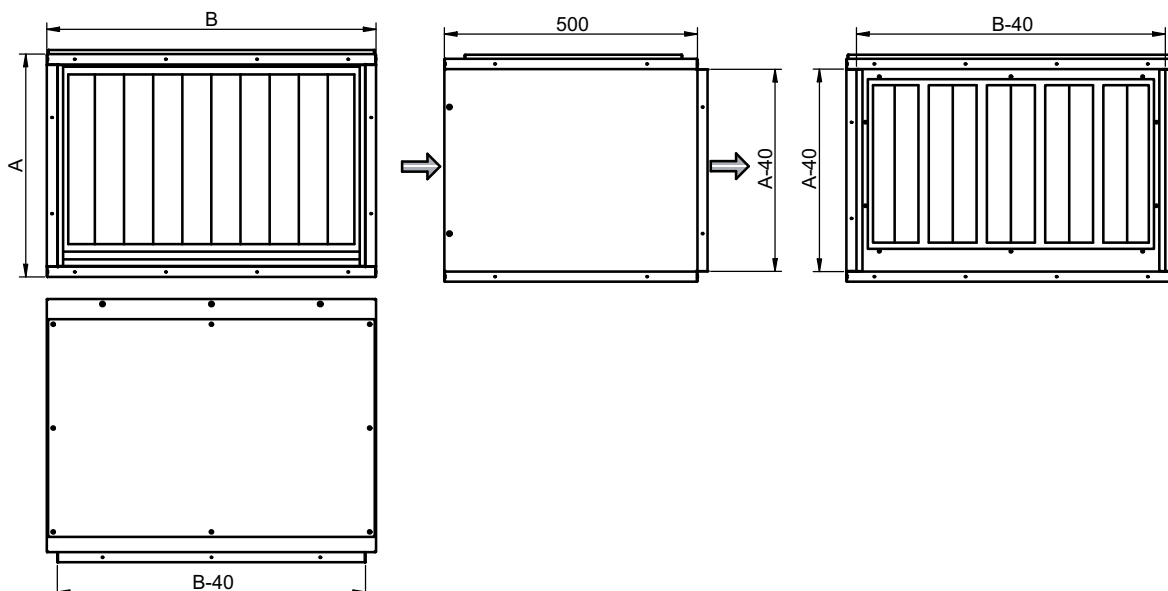
Section with filter removal from above



Section with filter removal from below



Dimensions



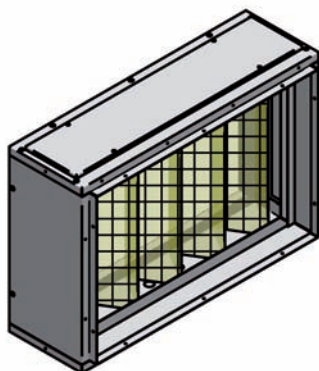
DIMENSIONS

MWZ	PFT		102	202	302	402	502	602	702	802	902	1002
			104	204	304	404	504	604	704	804	904	1004
			106	206	306	406	506	606	706	806	906	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	480	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1350	1650
Pressure drop (PA) (clean/dirty filter)			39/81	64/134	65/135	74/155	42/87	43/90	74/154	73/152	84/175	70/145
Self-tapping screws Ø3.9x32 for kit		(*x)	8	10	10	10	14	14	14	16	14	16
Weight		kg	17,3	21,3	23,3	24,3	35	39,4	30,4	34,6	36,4	48,7

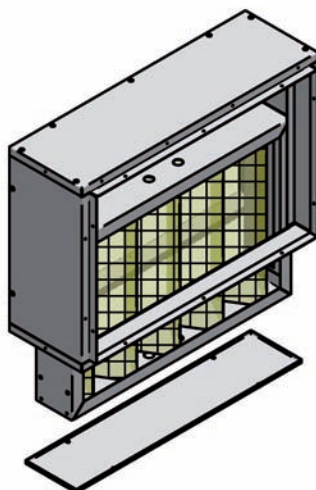
12. ACCESSORIES

Ductable air filter section with undulated filter removable from below / above

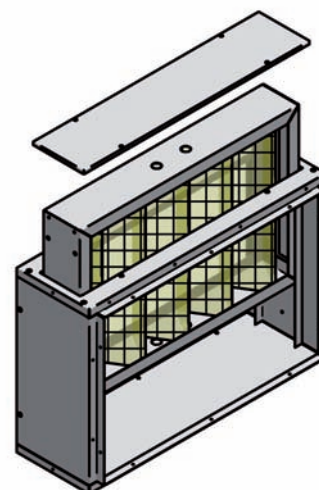
Filter section



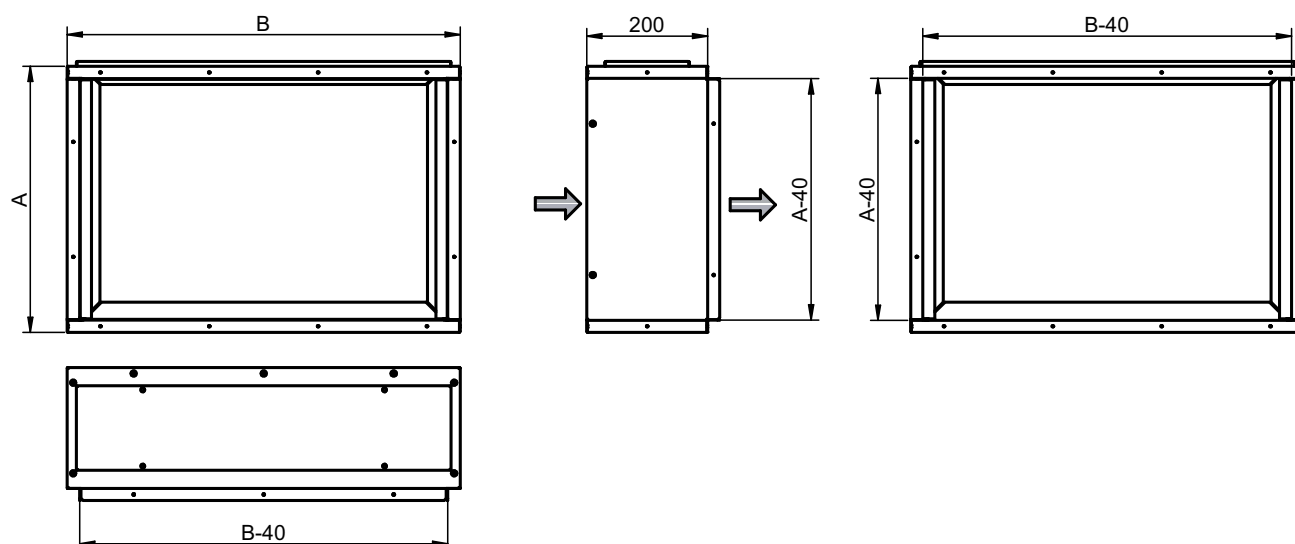
Section with filter removal from below



Section with filter removal from above



Dimensions

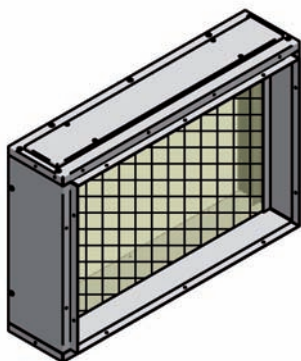


DIMENSIONS												
MWZ	PFO		102	202	302	402	502	602	702	802	902	1002
			104	204	304	404	504	604	704	804	904	1004
			106	206	306	406	506	606	706	806	906	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	480	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1350	1650
Pressure drop (PA) (clean/dirty filter)			28/52	47/86	47/86	54/99	30/56	35/58	54/99	53/97	61/112	51/93
Self-tapping screws Ø3.9x32 for kit		(*x)	8	10	10	10	14	14	14	16	14	16
Weight		kg	10,4	12,2	13,2	13,7	20,2	22,4	118,5	20,7	21,2	26,3

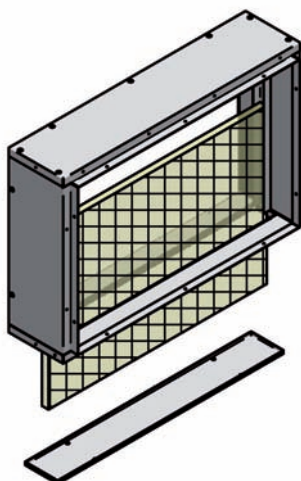
12. ACCESSORIES

Ductable air filter section with flat filter removable from below / above

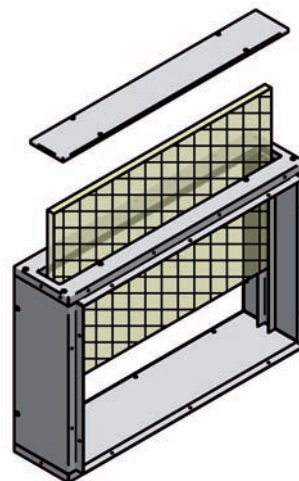
Filter section



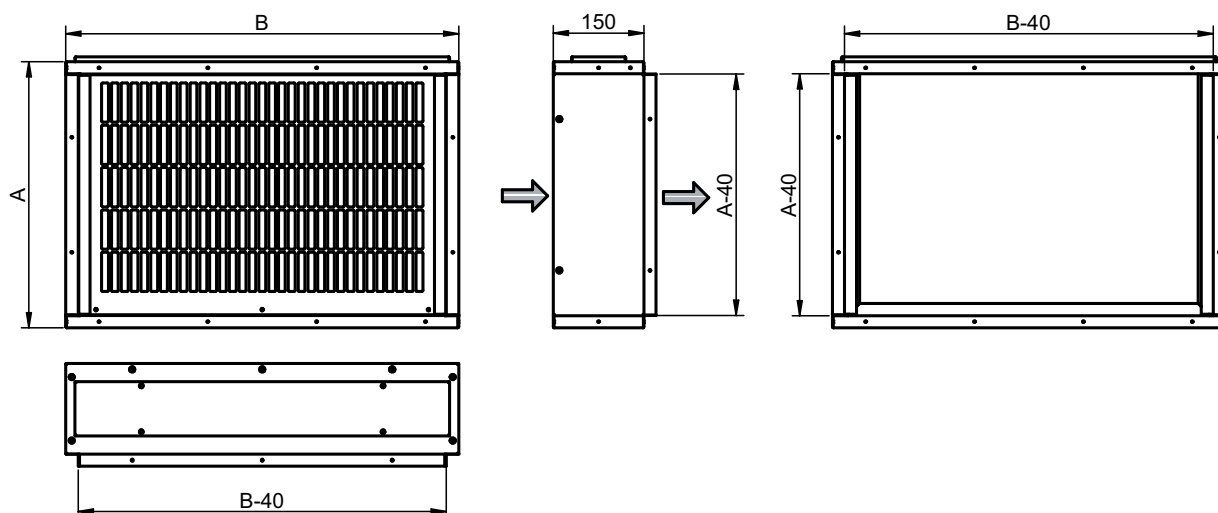
Section with filter removal from below



Section with filter removal from above



Dimensions



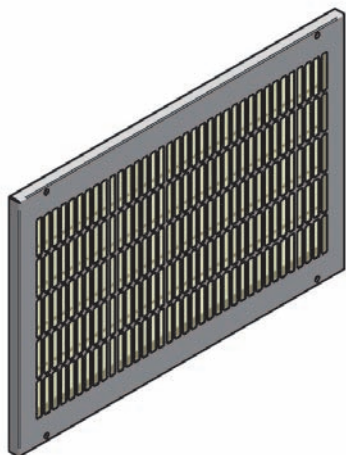
DIMENSIONS												
MWZ	PFA		102	202	302	402	502	602	702	802	902	1002
			104	204	304	404	504	604	704	804	904	1004
			106	206	306	406	506	606	706	806	906	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	480	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1350	1650
Pressure drop (PA) (clean/dirty filter)			20/49	34/81	34/81	39/93	55/52	23/54	39/93	38/91	44/105	36/87
Self-tapping screws Ø3.9x32 for kit		(*x)	8	10	10	10	14	14	14	16	14	16
Weight		kg	7,8	9,3	10,2	10,5	15,5	17,4	14,2	15,9	16,3	21

12. ACCESSORIES

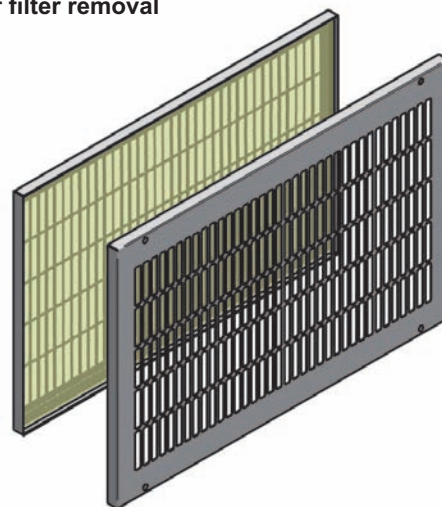
Perforated intake panel with filter

Perforated rear closing panel with air filter. The filter can be taken out by removing the panel

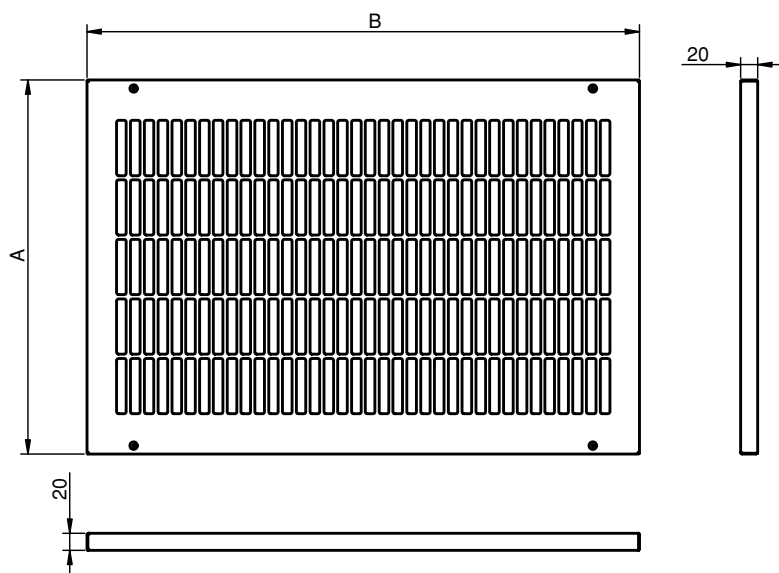
Panel with filter



Example of filter removal



Dimensions

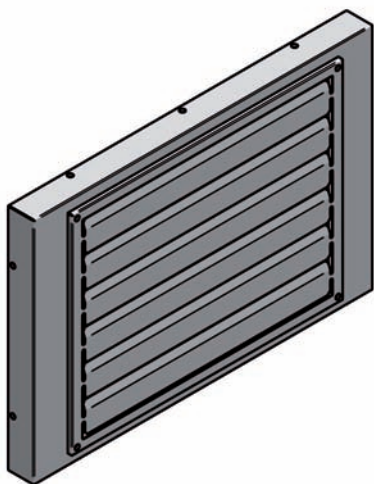


DIMENSIONS											
MWZ	PGF		102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
Pressure drop (PA) (clean/dirty filter)			36/65	60/107	61/108	70/124	39/70	41/72	69/123	68/122	79/140
Self-tapping screws Ø3.9x32 per kit			(*x)	4	4	4	10	10	6	6	10
Weight			kg	2,4	3,3	3,7	3,8	6,4	7,5	5,6	6,2

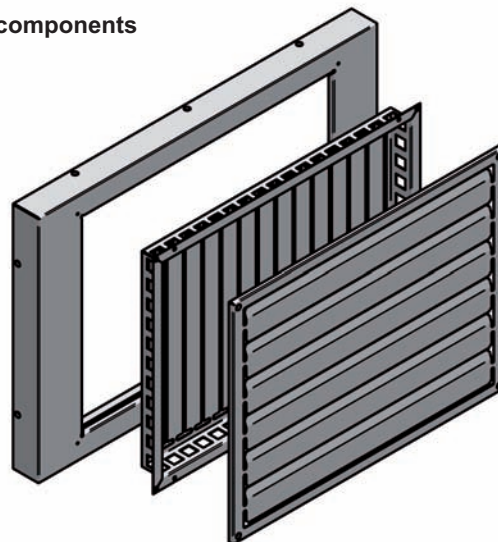
12. ACCESSORIES

Panel with air outlet grill and two rows of adjustable louvers

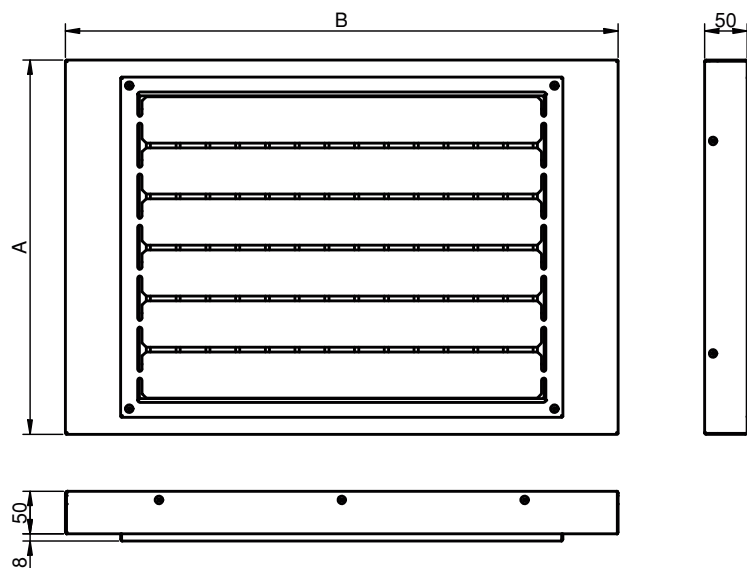
Panel



Panel components



Dimensions



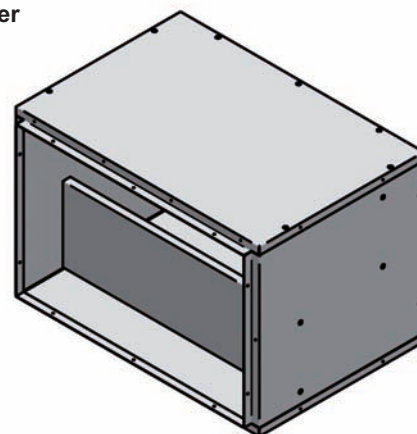
DIMENSIONS											
MWZ			102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
Self-tapping screws Ø3.9x32 per kit		(*x)	8	8	8	8	10	10	10	12	10
Weight		kg	4,2	5,6	6,6	6,8	12,2	14	10	11	12
										12	17,5

12. ACCESSORIES

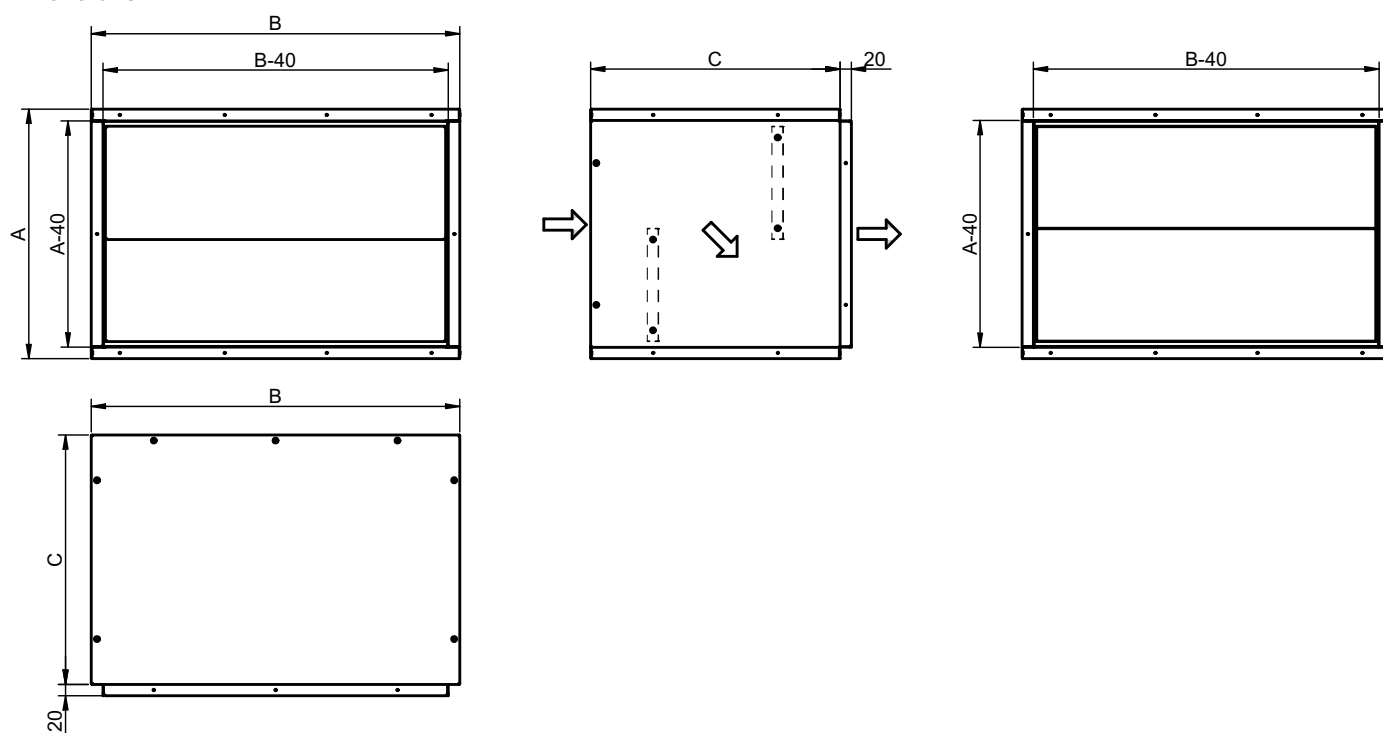
Labyrinth silencer section on intake or supply

Component suitable for installation on intake or supply to attenuate noise.

Labyrinth silencer section



Dimensions



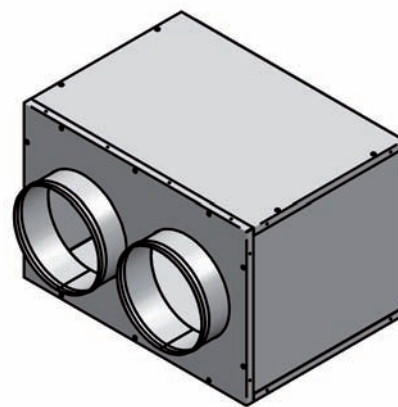
DIMENSIONS											
MWZ			102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
	C	mm	400	460	460	50	590	590	460	460	600
Noise level attenuation db(A)			7	7	8	8	9	10	9	8	10
Pressure drop (PA)			32	54	54	62	35	36	62	61	58
Self-tapping screws Ø3.9x32 per kit		(*x)	8	10	10	10	14	14	14	16	16
Weight		kg	14,2	19,2	21	23,4	37,7	42,4	28,9	32,6	53

12. ACCESSORIES

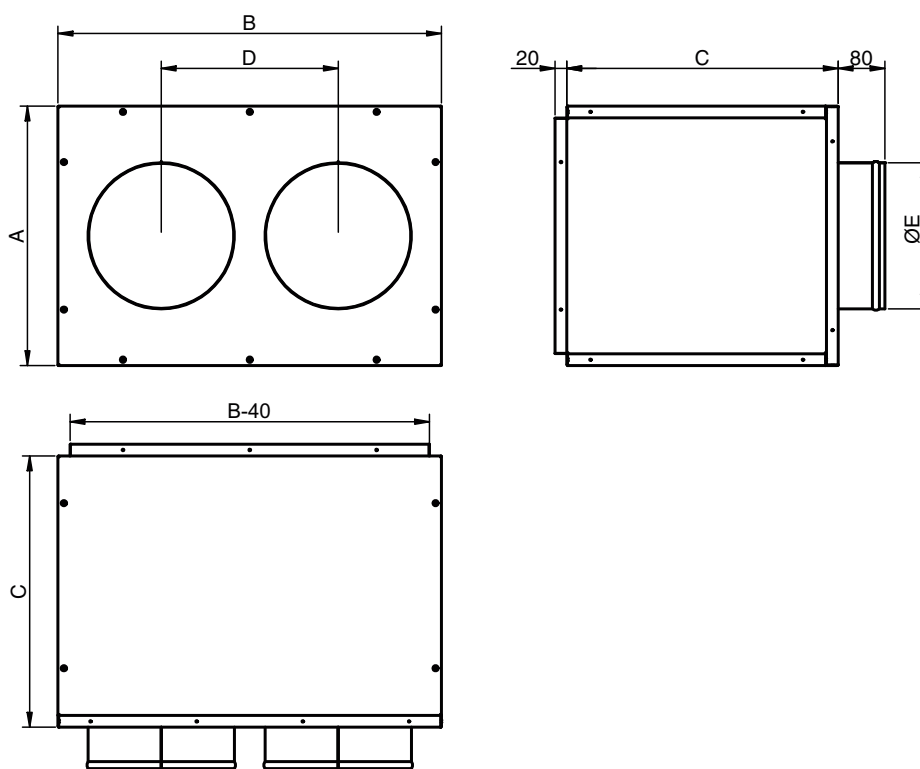
Intake section with circular fittings

Component suitable for circular ducts, spiral piping, flexible piping, etc.

Intake section



Dimensions



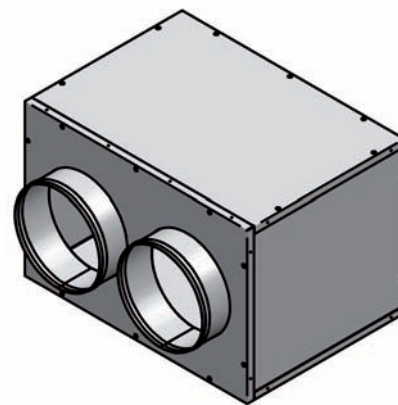
DIMENSIONS											
MWZ			102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
	C	mm	400	460	460	50	590	590	460	460	600
	D	mm	250	300	350	350	350	330	380	330	410
	ØE	mm	200	250	300	300	300	300	300	300	350
No. of circular fittings			2	2	2	2	3	4	3	4	4
Pressure drop (PA)			25	28	30	28	33	35	33	35	38
Self-tapping screws Ø3.9x32 per kit		(*x)	8	10	10	10	14	14	14	16	16
Weight		kg	16,5	21,8	25,2	26,2	42	49,3	25,2	30	60,8

12. ACCESSORIES

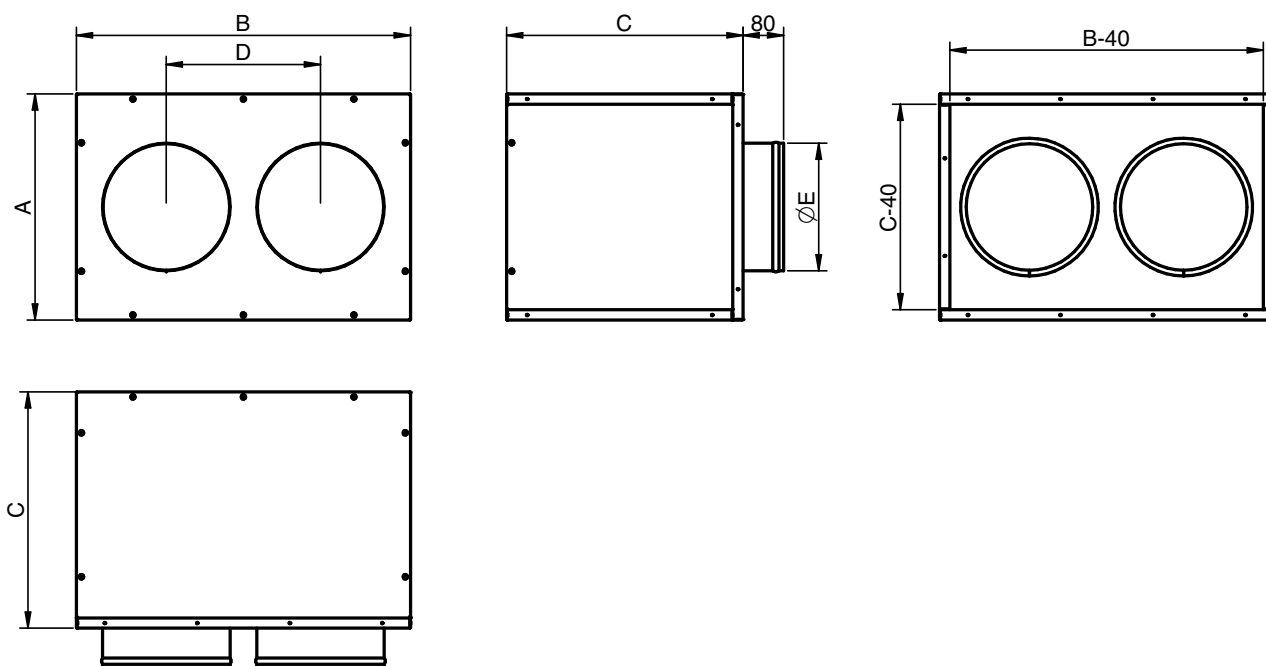
Supply section with circular fittings

Component suitable for circular ducts, spiral piping, flexible piping, etc.

Supply section



Dimensions



DIMENSIONS											
MWZ			102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
	C	mm	400	460	460	50	590	590	460	460	600
	D	mm	250	300	350	350	350	330	380	330	410
	ØE	mm	200	250	300	300	300	300	300	300	350
No. of circular fittings			2	2	2	2	3	4	3	4	4
Pressure drop (PA)			25	28	30	28	33	35	33	35	38
Self-tapping screws Ø3.9x32 per kit		(*x)	8	10	10	10	14	14	14	16	16
Weight		kg	16,5	21,8	25,2	26,2	42	49,3	25,2	30	60,8

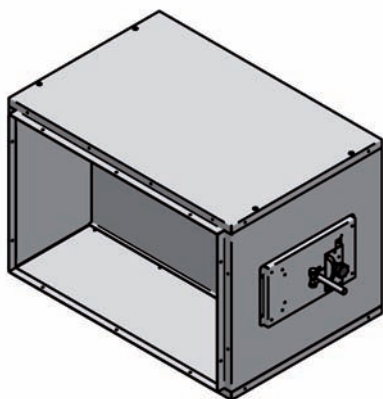
12. ACCESSORIES

Section with manual air damper, 0-100% closing

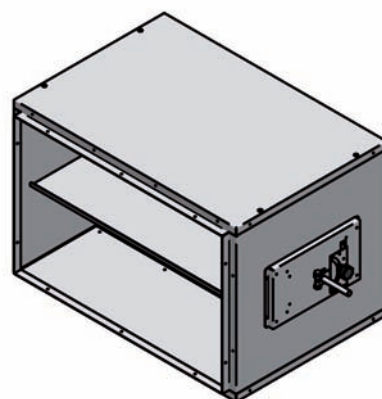
The damper control (manual and/or motorised), is pre-calibrated in the factory to manage up to 10% of the total volume of air handled by the unit. The pre-calibration can be adjusted on site.

- Section fitted with one internal blade (same height as the section) that, when turning, allows the air-conditioning unit flow-rate to be adjusted (either all inside air, or all outside air) from 100% (total opening) to 0% (total closing).
- Useful for precise calibration of air flow-rate on AC units (with asynchronous motor, i.e. not modulating fans)
- Excellent for units operating on outside air only
- The most simple and economical solution when quick adjustment of air-conditioning unit flow-rate is required.

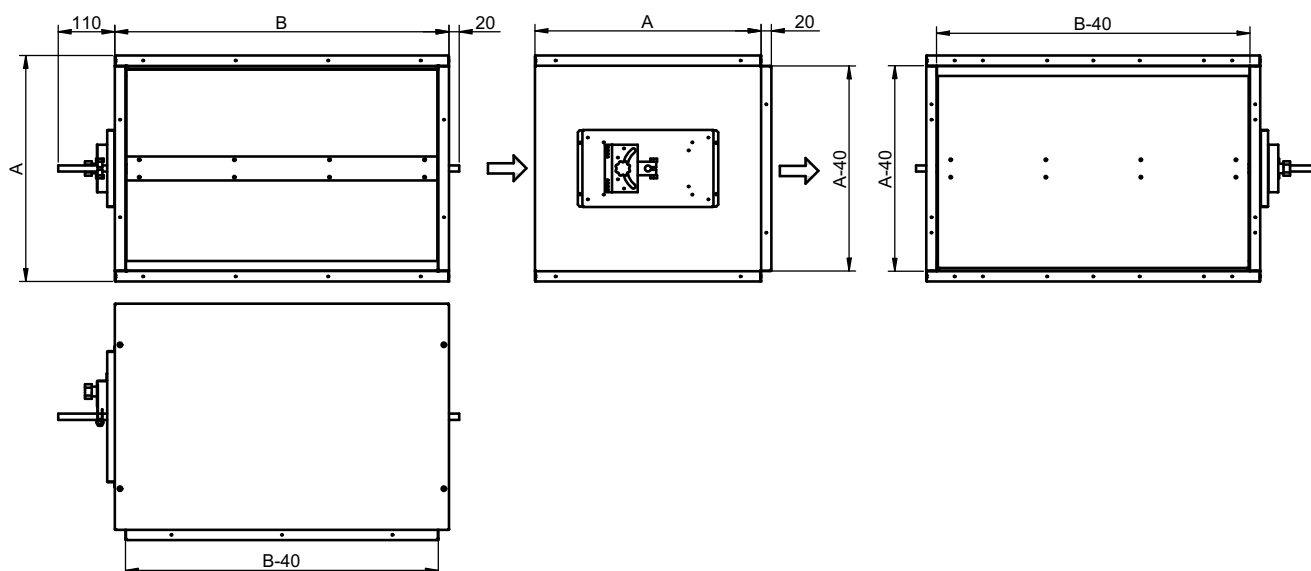
Section closed 0%



Section open 100%



Dimensions

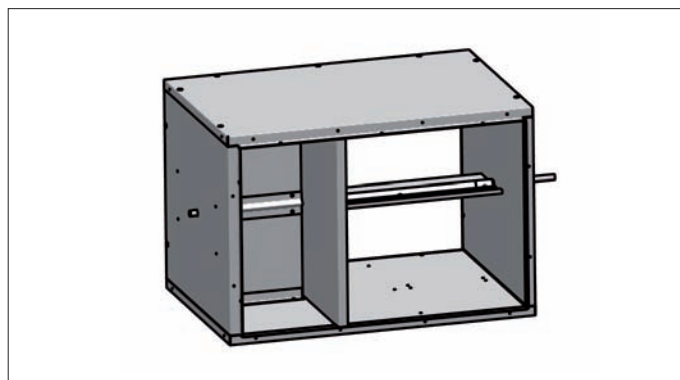
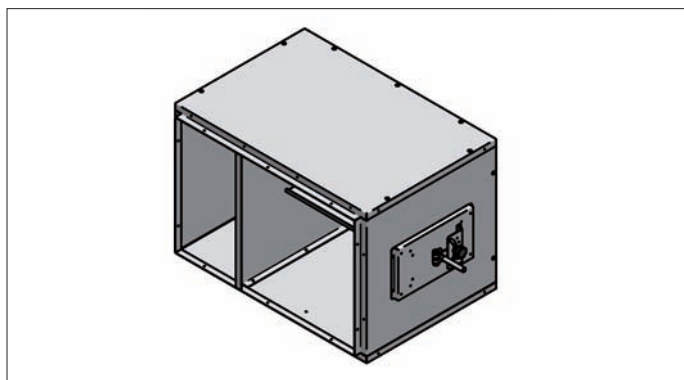


DIMENSIONS												
MWZ			102	202	302	402	502	602	702	802	902	1002
			104	204	304	404	504	604	704	804	904	1004
			106	206	306	406	506	606	706	806	906	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	480	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1350	1650
Pressure drop (PA) with damper open			12	20	20	23	13	14	23	23	26	22
Self-tapping screws Ø3.9x32 per kit		(*x)	8	10	10	10	14	14	14	16	14	16
Weight		kg	15,5	20,5	23,2	24,8	40,8	45,9	30,5	34,6	37	56

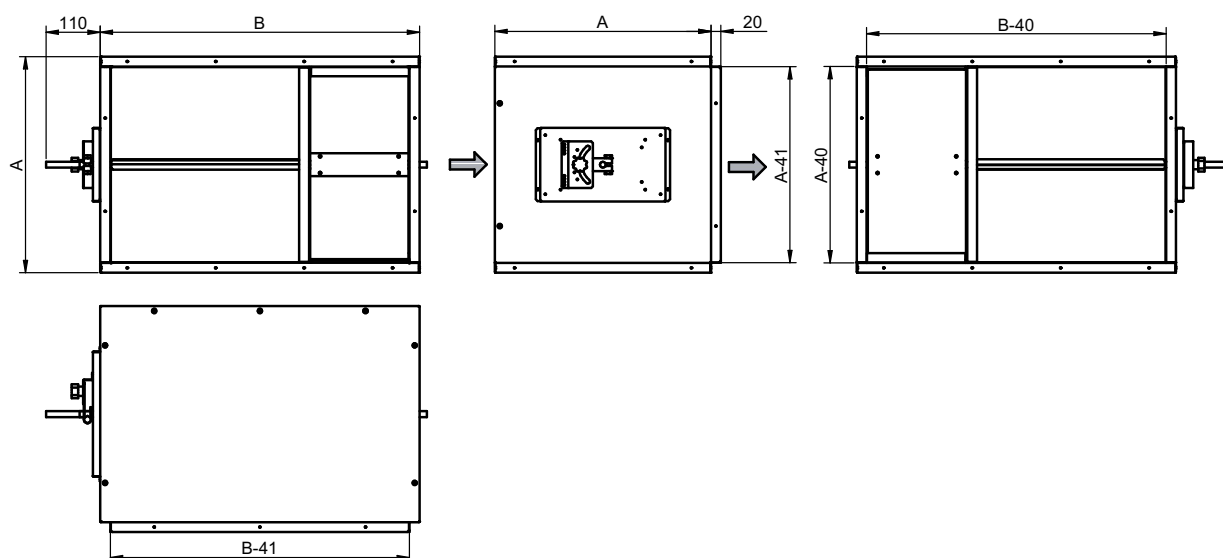
12. ACCESSORIES

External mixing section (0-33%) / internal (100-67%)

External/Internal mixing section “external air 0-33% - internal air 100-67%” or vice versa (coupled louvers with manual controls- can be motorized).



Dimensions



DIMENSIONS											
MWZ			102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
Pressure drop (PA) with an open louver			12	20	20	23	13	14	23	23	22
Self-tapping screws Ø4,8x16 for kit		(*x)	8	10	10	10	14	14	14	16	16
Weight		kg	15,5	20,5	23,2	24,8	40,8	45,9	30,5	34,6	56

12. ACCESSORIES

Mixing section with two air dampers

The damper control (manual and/or motorised), is pre-calibrated in the factory to manage up to 10% of the total volume of air handled by the unit. The pre-calibration can be adjusted on site.

- Section equipped with two classic standard adjustment/calibration dampers. Each damper is sized for design air flow-rate (100% of the unit air flow-rate).
- The two independent dampers can be connected to two different ducts, normally inside air (recirculation) and outside air (air change).
- Possibility to invert the section so as to allow air intake from the bottom (Fig. 1) or top (Fig. 2).
- Possibility to apply manual or motorised control
- Ideal solution for mixing inside and outside air, with precise calibration of the two air streams. Allows any desired proportion of mixing across the range 0-100%.

Section with intake from bottom and rear

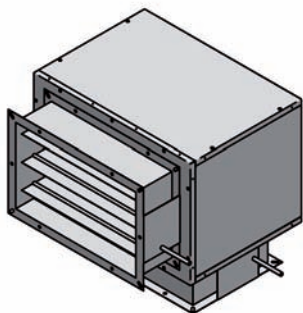


fig.1

Section with intake from top and rear

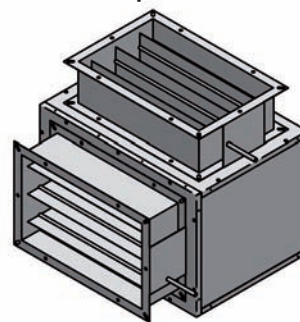
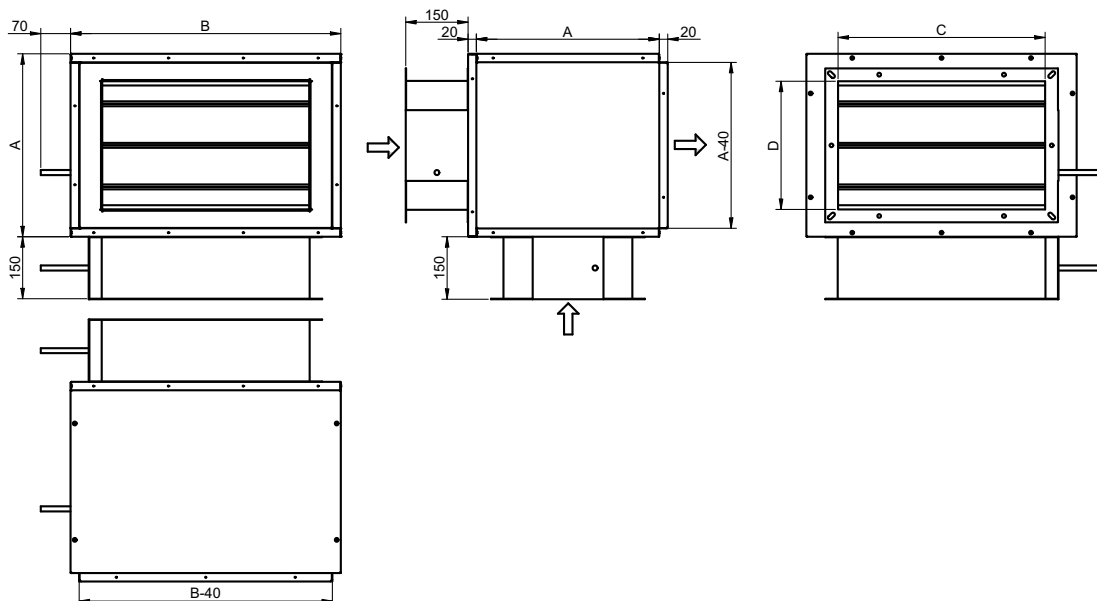


fig.2

Dimensions



DIMENSIONS				102	202	302	402	502	602	702	802	902	1002
MWZ				104	204	304	404	504	604	704	804	904	1004
				106	206	306	406	506	606	706	806	906	1006
Main dimensions	A	mm		380	440	440	480	570	570	440	440	480	600
	B	mm		550	650	750	750	1150	1350	1150	1350	1350	1650
	C	mm		400	500	600	600	1000	1200	1000	1200	1200	1500
	D	mm		310	310	310	410	510	510	310	310	410	510
Pressure drop (PA) with damper open				20	34	34	39	22	23	39	38	44	36
Self-tapping screws Ø3.9x32 per kit				(*x)	8	10	10	14	14	14	16	14	16
Weight				kg	24,8	30,5	32,8	36,4	56,3	62,6	39,6	45,5	83,2

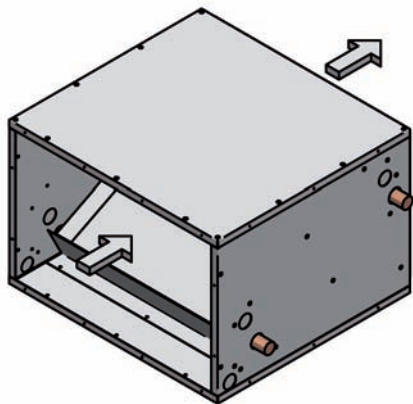
12. ACCESSORIES

2 row coil section for heating / reheating:

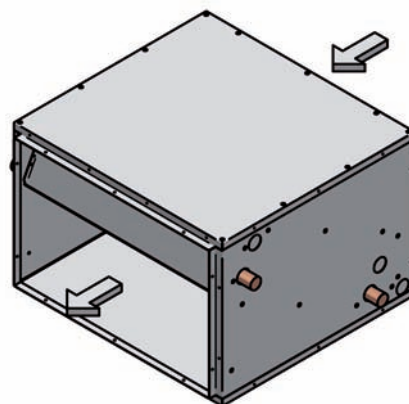
Component suitable for circular ducts, spiral piping, flexible piping, etc.

- Additional coil section suitable to be installed in series with the main unit, to increase system heating capacity or for reheating.

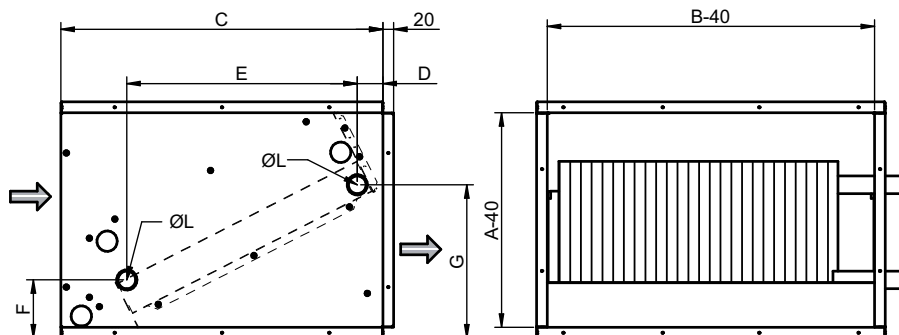
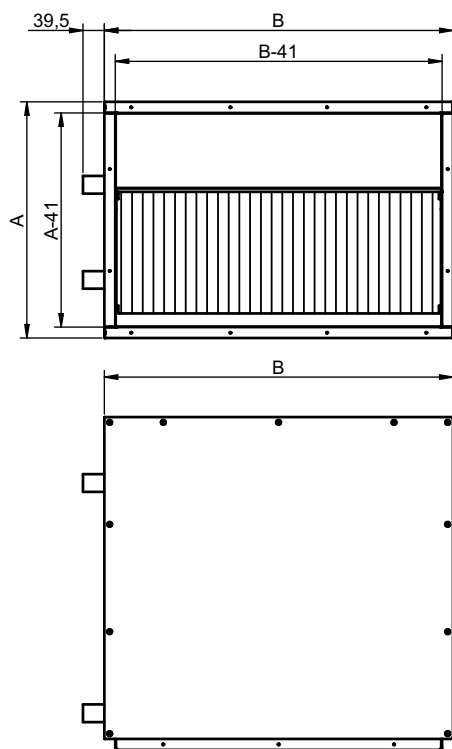
Section with air flow on the right



Section with air flow on the left



Dimensions (water fittings on the right)



DIMENSIONS

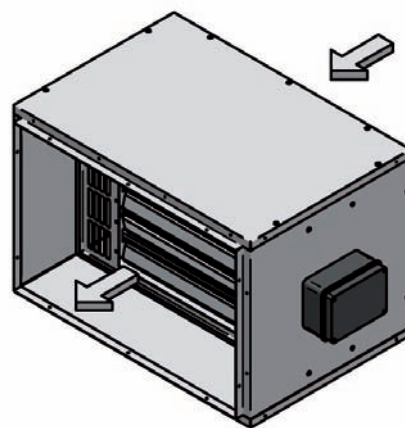
MWZ	2-pipe	102	202	302	402	502	602	702	802	902	1002	
Main dimensions	A mm	380	440	440	480	570	570	440	440	480	600	
	B mm	550	650	750	750	1150	1350	1150	1350	1350	1650	
	C mm	510	600	700	700	600	700	600	700	700	890	
Water connections	D mm	47	48	44	52	87	75	47	47	62	94	
	E mm	350	429	542	525	349	472	429	529	517	651	
	F mm	108	108	123	119	132	127	112	115	119	126	
	G mm	230	286	281	324	428	412	271	269	318	356	
	L DN	3/4"-M	1"-M	1"-M	1"-M	1-1/4"-M						
Pressure drop (PA)		21	22	15	22	23	16	22	15	22	23	
Self-tapping screws Ø3.9x32 per kit		8	10	10	10	14	14	14	16	14	16	
Weight		kg	21,4	28,2	35,8	36,8	46,4	57,5	41,5	54,4	56,9	95

12. ACCESSORIES

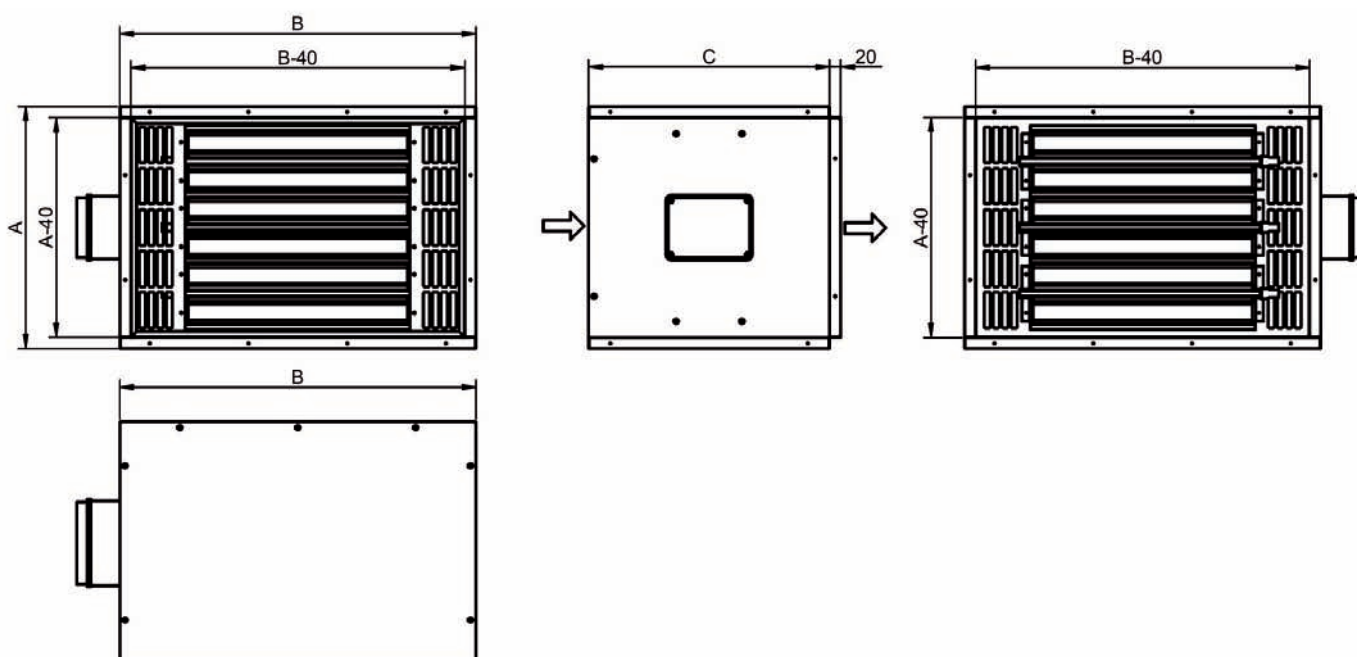
Supplementary heating section with 230 v electric heaters and relay

Additional section suitable to be installed in series with the main unit, to be used in spring/autumn, for reheating or in place of the heating coil.

Section



Dimensions



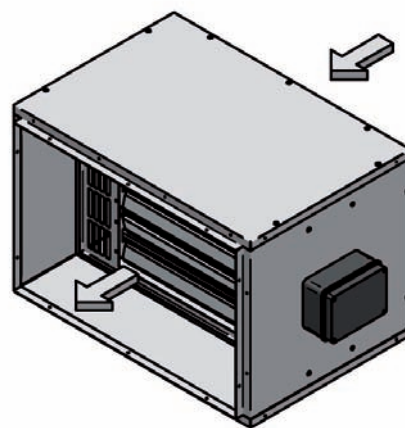
DIMENSIONS												
MWZ			102	202	302	402	502	602	702	802	902	1002
			104	204	304	404	504	604	704	804	904	1004
			106	206	306	406	506	606	706	806	906	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	480	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1350	1650
	C	mm	380	440	440	480	570	570	440	440	480	600
Pressure drop (PA)			16	17	27	31	17	18	31	30	35	29
Power consumption		W	4500	9000	9000	9000	9000	18000	9000	18000	18000	18000
Current draw		A	19,57	39,14	39,14	39,14	39,14	78,27	39,14	78,27	78,27	78,27
Operating voltage		V	230	230	230	230	230	230	230	230	230	230
Self-tapping screws Ø3.9x32 per kit		(*x)	8	10	10	10	14	14	14	16	14	16
Weight		kg	15	22	24,3	27	38,5	48,4	29	37,7	41	52,5

12. ACCESSORIES

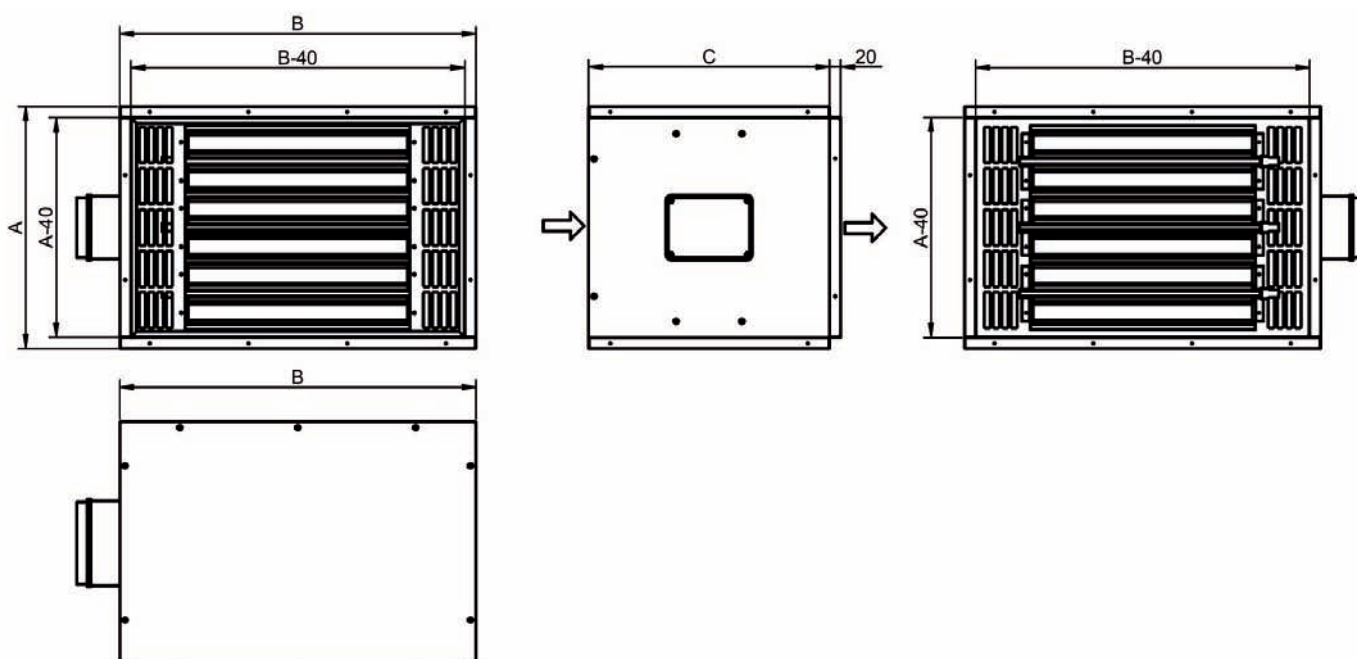
Supplementary heating section with 400v electric heaters and relay

Additional section suitable to be installed in series with the main unit, to be used in spring/autumn, for reheating or in place of the heating coil.

Section



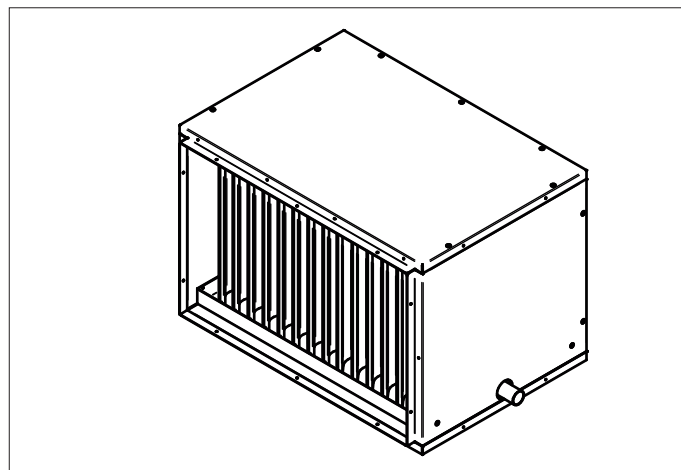
Dimensions



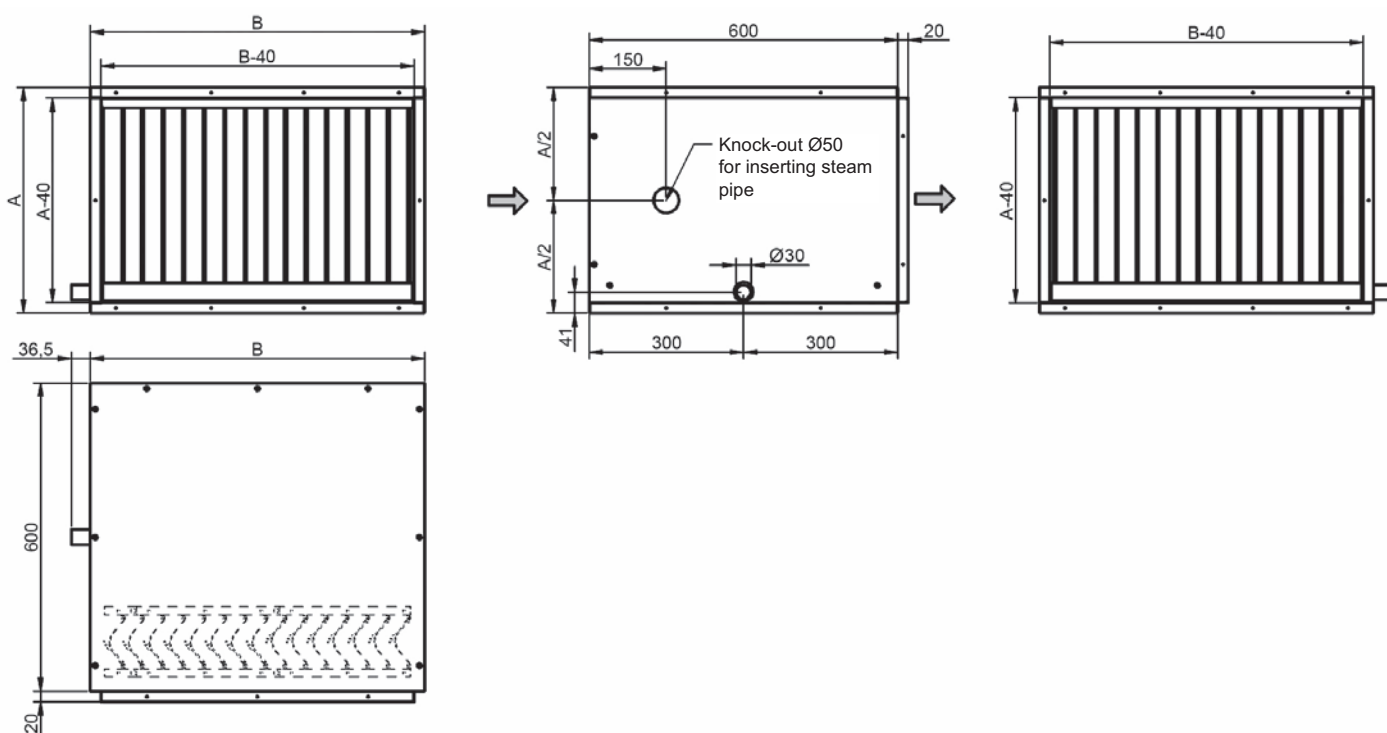
DIMENSIONS													
MWZ			102	202	302	402	502	602	702	802	902	1002	
			104	204	304	404	504	604	704	804	904	1004	
			106	206	306	406	506	606	706	806	906	1006	
Main dimensions	A	mm	380	440	440	480	570	570	440	440	480	600	
	B	mm	550	650	750	750	1150	1350	1150	1350	1350	1650	
	C	mm	380	440	440	480	570	570	440	440	480	600	
Pressure drop (PA)			16	17	27	31	17	18	31	30	35	29	
Power consumption			W	4500	9000	9000	9000	18000	9000	18000	18000	18000	
Current draw			A	3x6,53	3x13,05	3x13,05	3x13,05	3x26,09	3x13,05	3x26,09	3x26,09	3x26,09	
Operating voltage			V	400	400	400	400	400	400	400	400	400	
Self-tapping screws Ø3.9x32 per kit			(*x)	8	10	10	10	14	14	16	14	16	
Weight			kg	15	22	24,3	27	38,5	48,4	29	37,7	41	52,5

12. ACCESSORIES

Section with pan and droplet separator baffles for steam humidifier installation on intake or supply



Dimensions

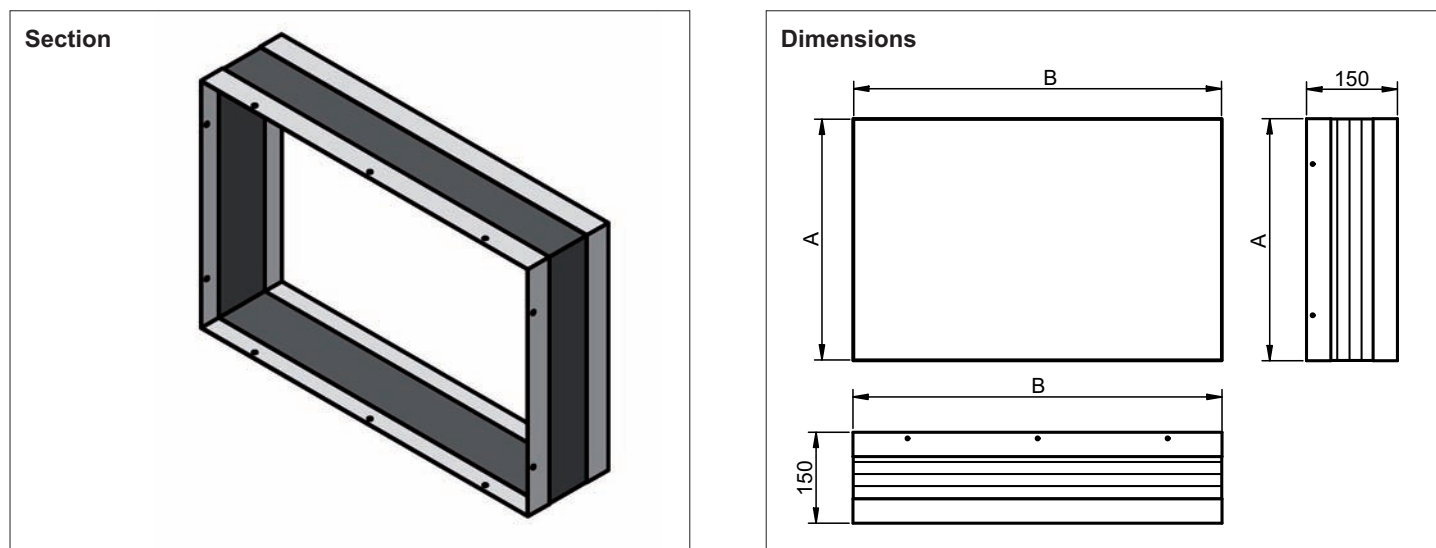


DIMENSIONS											
MWZ			102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
Number of baffles			12	15	18	18	27	32	27	32	40
Pressure drop (PA)			20	32	32	37	20	22	37	36	35
Self-tapping screws Ø3.9x32 per kit		(*x)	8	10	10	10	14	14	14	16	16
Weight		kg	23,6	28,9	32	35,2	64	75,2	50	57,2	96,8

12. ACCESSORIES

Vibration-isolating joint on supply

Component suitable for connection to the ducting or to isolate the unit from existing systems, avoiding the transmission of vibrations.



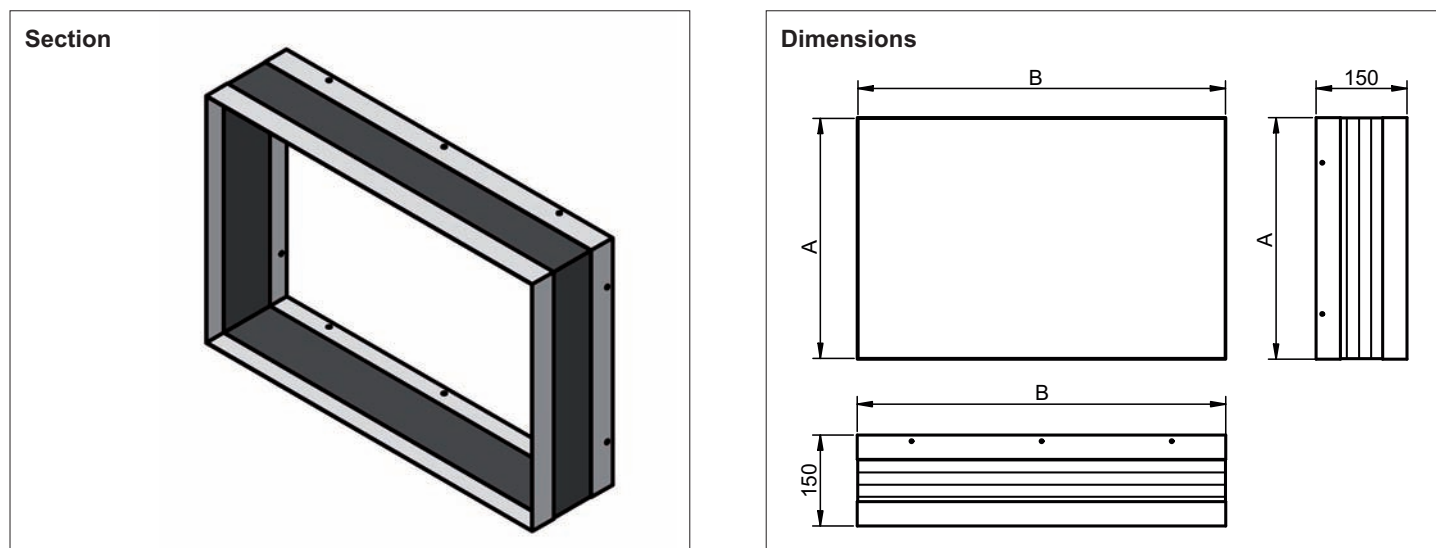
DIMENSIONS											
MWZ			102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
			106	206	306	406	506	606	706	806	1006
Main dimensions	A	mm	341	401	401	441	531	531	401	401	441
	B	mm	511	611	711	711	1111	1311	1111	1311	1611
Pressure drop (PA)			<10	<10	<10	<10	<10	<10	<10	<10	<10
Self-tapping screws Ø3.9x32 per kit			(*x)	8	10	8	10	10	14	14	18

MWZ		102	202	302	402	502	602	702	802	902	1002
A	mm	90	90	90	90	95	95	75	105	75	105
B	mm	90	90	90	90	95	95	75	105	75	105
C	mm	/	305	355	355	325	375	315	325	365	385
D	mm	/	/	/	/	325	375	315	325	365	385
E	mm	/	/	/	/	555	655	555	545	655	665
F	mm	/	/	/	/	/	/	/	545	/	665
G	mm	60	75	75	95	95	95	75	75	95	60
H	mm	60	75	75	95	95	95	75	75	95	60
I	mm	/	/	/	/	/	/	/	/	/	280

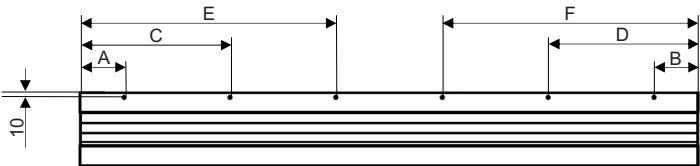
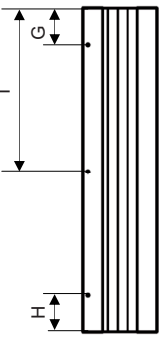
12. ACCESSORIES

Vibration-isolating joint on intake

Component suitable for connection to the ducting or to isolate the unit from existing systems, avoiding the transmission of vibrations.



DIMENSIONS												
MWZ			102	202	302	402	502	602	702	802	902	1002
			104	204	304	404	504	604	704	804	904	1004
			106	206	306	406	506	606	706	806	906	1006
Main dimensions	A	mm	339	399	399	439	529	529	399	399	439	559
	B	mm	509	609	709	709	1109	1309	1109	1309	1309	1609
Pressure drop (PA)			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Self-tapping screws Ø3.9x32 per kit		(*x)	8	10	10	10	14	14	14	16	14	18

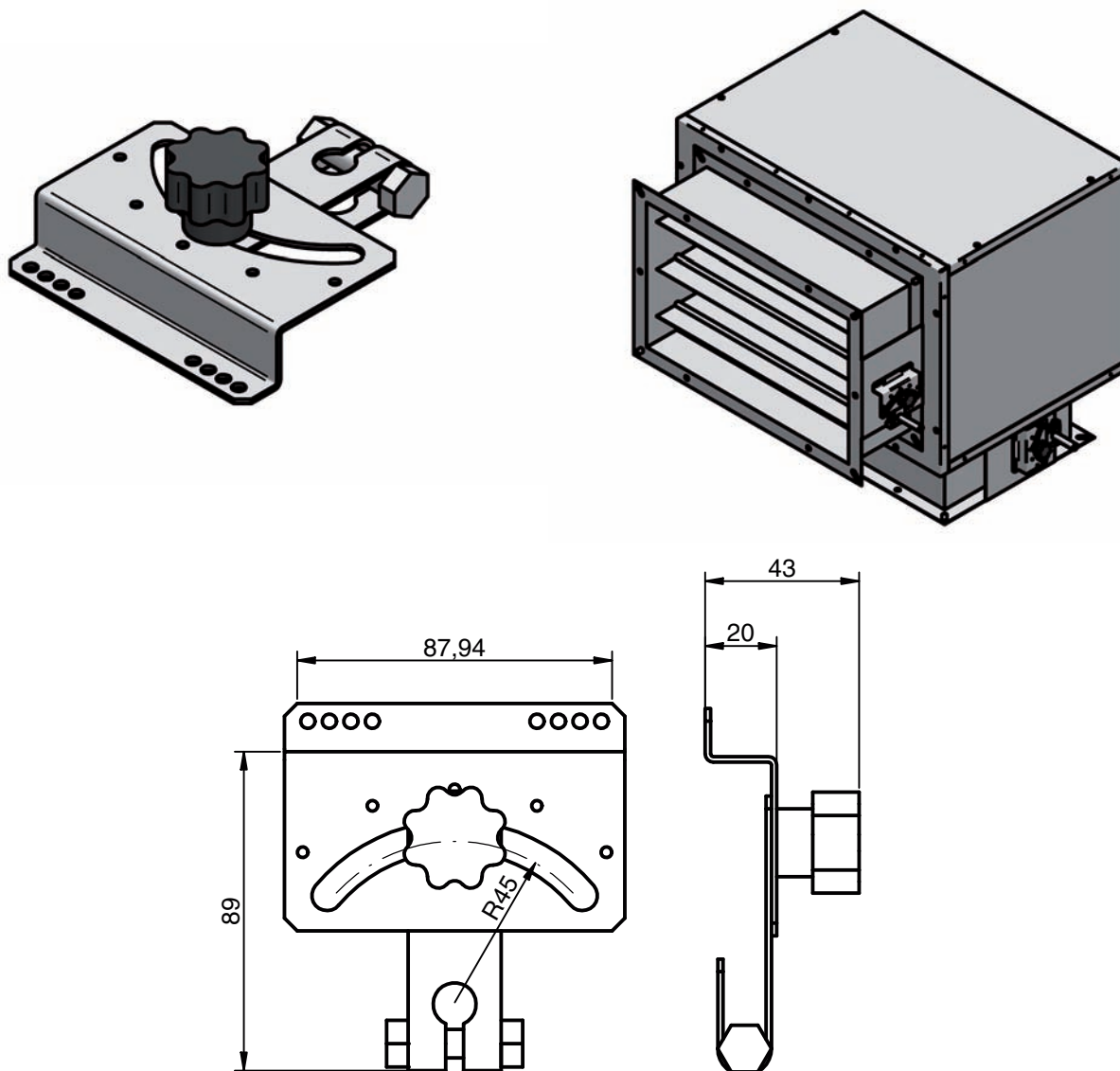



MWZ		102	202	302	402	502	602	702	802	902	1002
A	mm	90	90	90	90	95	95	75	105	75	105
B	mm	90	90	90	90	95	95	75	105	75	105
C	mm	/	305	355	355	325	375	315	325	365	385
D	mm	/	/	/	/	325	375	315	325	365	385
E	mm	/	/	/	/	555	655	555	545	655	665
F	mm	/	/	/	/	/	/	/	545	/	665
G	mm	60	75	75	95	95	95	75	75	95	60
H	mm	60	75	75	95	95	95	75	75	95	60
I	mm	/	/	/	/	/	/	/	/	/	280

12. ACCESSORIES

Manual control for dampers

The damper control (manual and/or motorised), is pre-calibrated in the factory to manage up to 10% of the total volume of air handled by the unit. The pre-calibration can be adjusted on site.



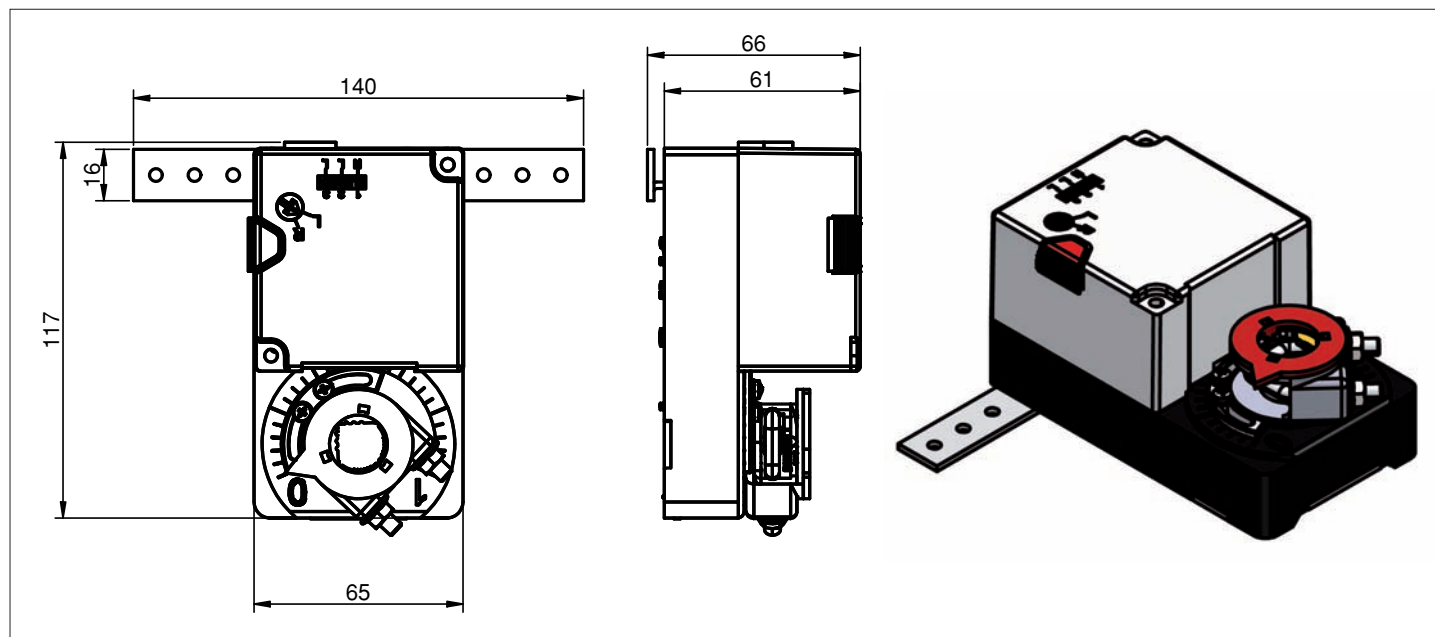
12. ACCESSORIES

Motorised control for dampers

The damper control (manual and/or motorised), is pre-calibrated in the factory to manage up to 10% of the total volume of air handled by the unit. The pre-calibration can be adjusted on site.

TECHNICAL SPECIFICATIONS

Rated voltage	AC 230-50 Hz
Power consumption	2 W
Motor torque	5 Nm
Control	2/3 position
Angle of rotation	0° ... 90° adjustable
Motor connection	1 m cable, 3X0.75 mm ²
Safety class	II (protective insulation)
Position indicator	mechanical
Room temperature	-30...+50°C
Humidity	in accordance with EN60335-1
Weight	650 gr.
Maintenance	none

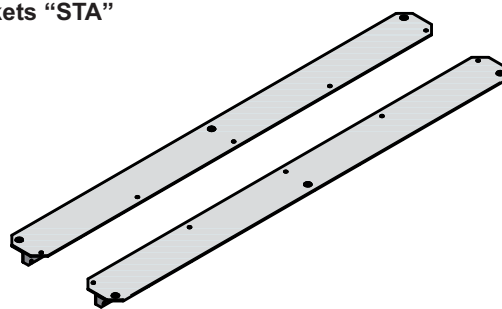


12. ACCESSORIES

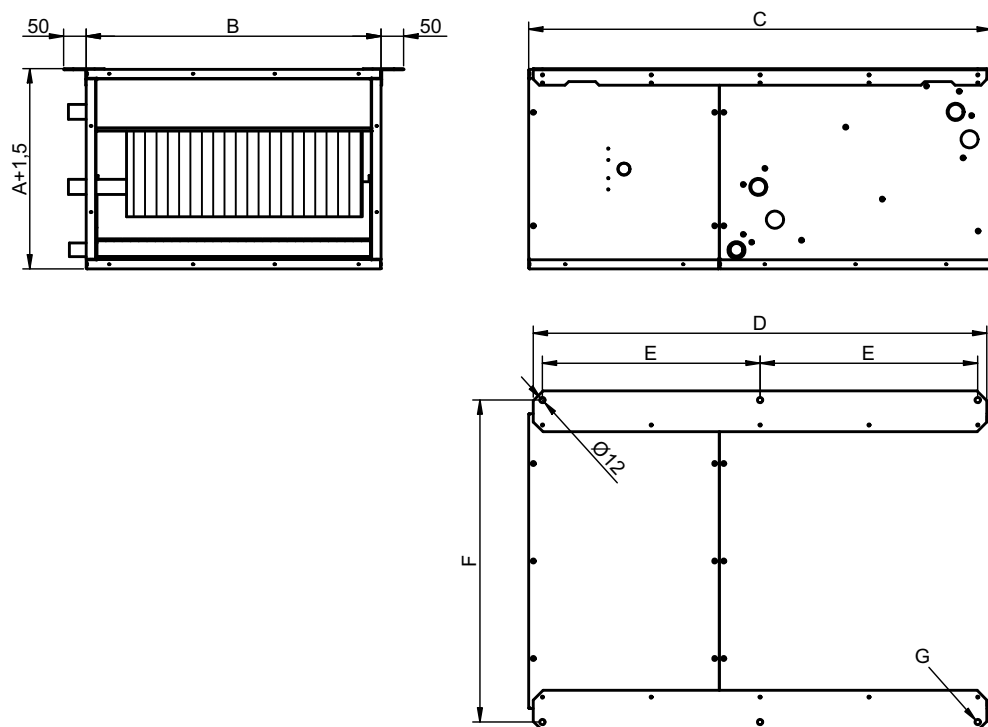
Ceiling fastening brackets

Accessory suitable for fixing the unit directly to or suspended from the ceiling.

Brackets "STA"



Dimensions



DIMENSIONS											
MWZ	STA		102	202	302	402	502	602	702	802	1002
			104	204	304	404	504	604	704	804	1004
Main dimensions	A	mm	380	440	440	480	570	570	440	440	600
	B	mm	550	650	750	750	1150	1350	1150	1350	1650
	C	mm	870	1020	1120	1160	1150	1250	1020	1120	1470
	D	mm	850	1000	1100	1140	1130	1230	1000	1100	1450
	E	mm	400	480	520	550	540	590	480	520	460
	F	mm	610	710	810	810	1210	1410	1210	1410	1710
Holes for fastening to the ceiling	G	No.	6	6	6	6	6	6	6	6	8
Self-tapping screws Ø4,8X16		No.	30	30	30	30	30	30	30	30	42
Weight		Kg	2,3	2,6	4,3	4,5	5,2	5,4	3,9	4,2	6,8

12. ACCESSORIES

Condensate pump for units with horizontal installation

Accessory suitable for removing condensate when draining by gravity is prevented by architectural barriers or other systems.

Description	Qty.
A Metal support bracket for horizontal versions	1
B Self-tapping screws Ø3.9 x13	3
C Sauermann condensate pump, model SI 1805	1
D* Adapter-reducer from Ø1" to Ø 25 mm.	1
E* Elbow connector with lip seal	1

* D+E Supplied already fitted

CONDENSATE PUMP TECHNICAL SPECIFICATIONS	
Rated voltage	AC 230V 50-60 Hz
Power consumption	90 W
Maximum flow-rate	500 litres/hour
Maximum discharge head	5.4 metres
Noise level	47 dbA
Alarm contact	NC 4 A resistive 250V
Thermal protection (overheating)	130°C
Pan water content	0,5 litres
Weight	2 Kg

Horizontal condensate drain KIT

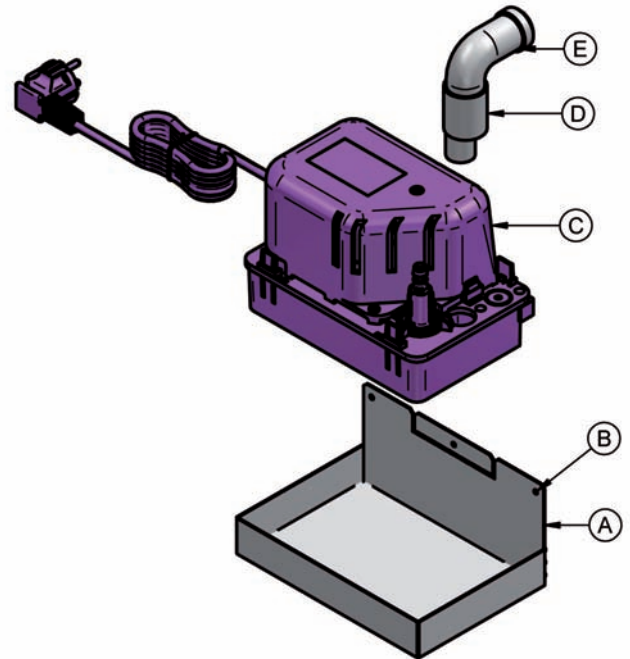


TABLE OF FLOW-RATES in litres/hour referring to piping with internal diameter 10 mm.

Vertical discharge lift, metres	Horizontal discharge length			
	5 metres	10 metres	20 metres	30 metres
1	460	380	280	200
2	390	320	240	180
3	300	250	190	150
4	200	180	130	100
5	90	80	60	50

12. ACCESSORIES

Condensate pump for units with vertical installation

Accessory suitable for removing condensate when draining by gravity is prevented by architectural barriers or other systems.

Description	Qty.
A Metal support bracket for vertical versions	1
B Self-tapping screws Ø3.9 x13	3
C Sauermann condensate pump, model SI 1805	1
D* Adapter-reducer from Ø1" to Ø 25 mm.	1
E* Elbow connector with lip seal	1

* D+E Supplied already fitted

CONDENSATE PUMP TECHNICAL SPECIFICATIONS	
Rated voltage	AC 230V 50-60 Hz
Power consumption	90 W
Maximum flow-rate	500 litres/hour
Maximum discharge head	5,4 metres
Noise level	47 dbA
Alarm contact	NC 4 A resistive 250V
Thermal protection (overheating)	130°C
Pan water content	0,5 litres
Weight	2 Kg

Vertical condensate drain KIT

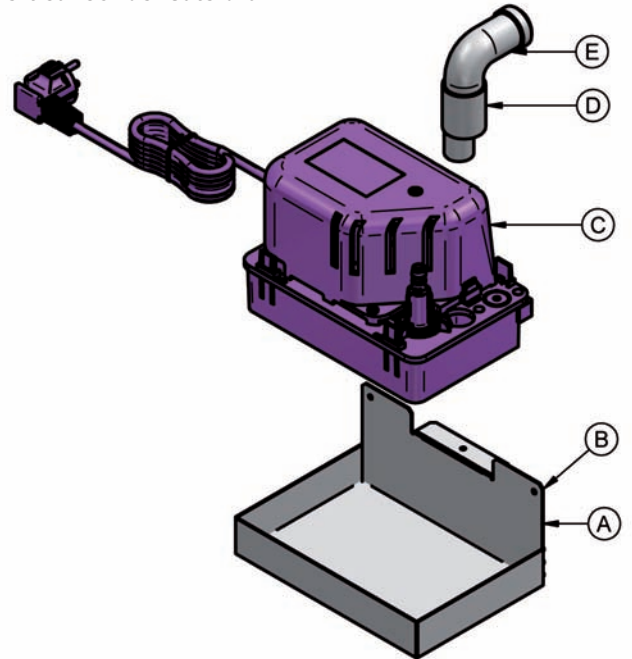


TABLE OF FLOW-RATES in litres/hour referring to piping with internal diameter 10 mm.

Vertical discharge lift, metres	Horizontal discharge length			
	5 metres	10 metres	20 metres	30 metres
1	460	380	280	200
2	390	320	240	180
3	300	250	190	150
4	200	180	130	100
5	90	80	60	50

12. ACCESSORIES

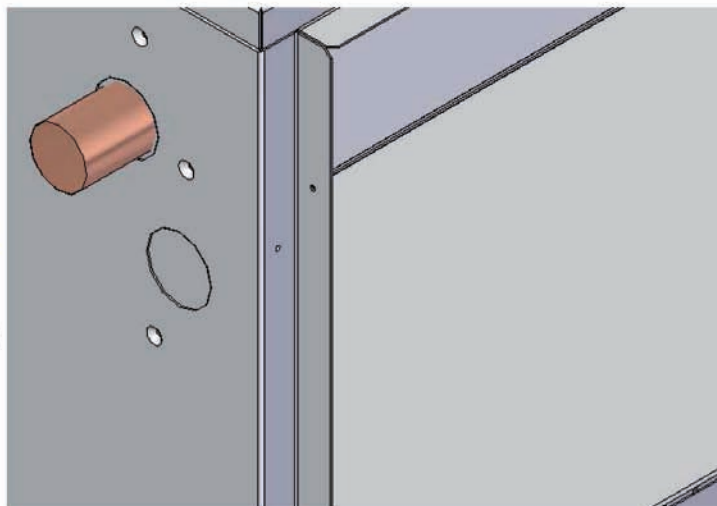
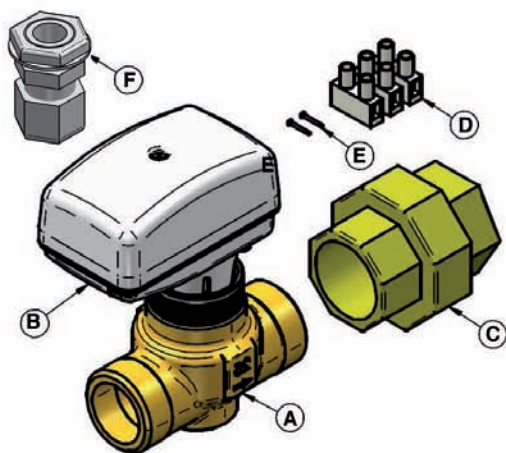
2-way valve kit with 1" fittings (0-10 v and 3 position)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans. The 0-10 V or 3-position modulating valve kits can be managed directly by Climaveneta controllers; the (i)-HB power board is required with the 0-10 V valve expansion module.

2-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT)

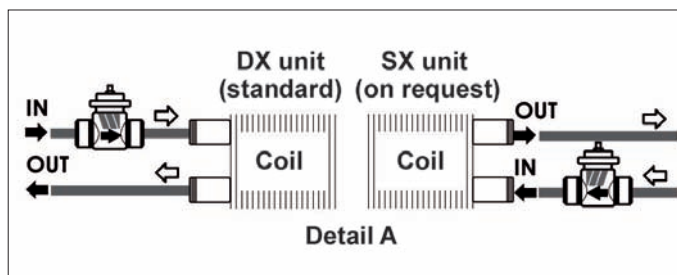
Description	Qty.
A 2-way valve, 1"M – 1"M	1
B Modulating actuator	1
C 3-piece straight fitting, 1" F-F	1
D Junction terminal	1
E Self-tapping screw, Ø3.9x19	2
F PG9 cable gland	1

2-way valve kit (0-10 V and 3 POSITION)

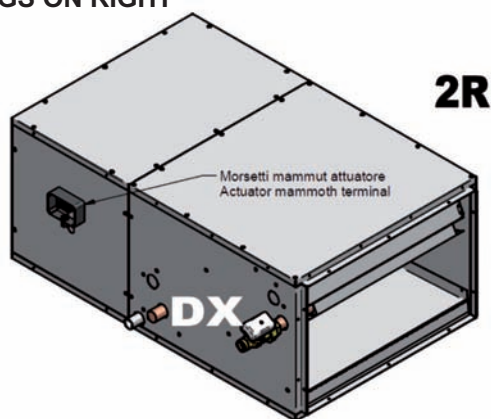


TECHNICAL SPECIFICATIONS

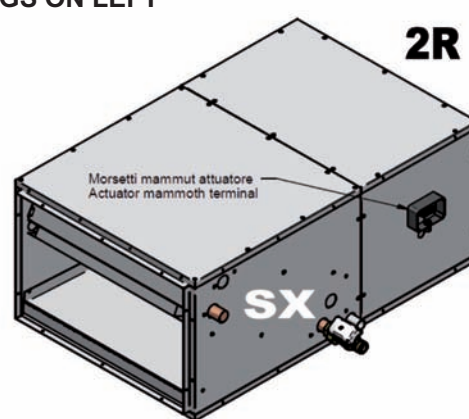
Max operating temp.	110°C
Actuator travel	5,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	0-10 Vdc
Amb. operating temp.	0-50°C
Thrust	120N
Flow coefficient when fully open	5,2 Kv
Protection class	IP 44



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



12. ACCESSORIES

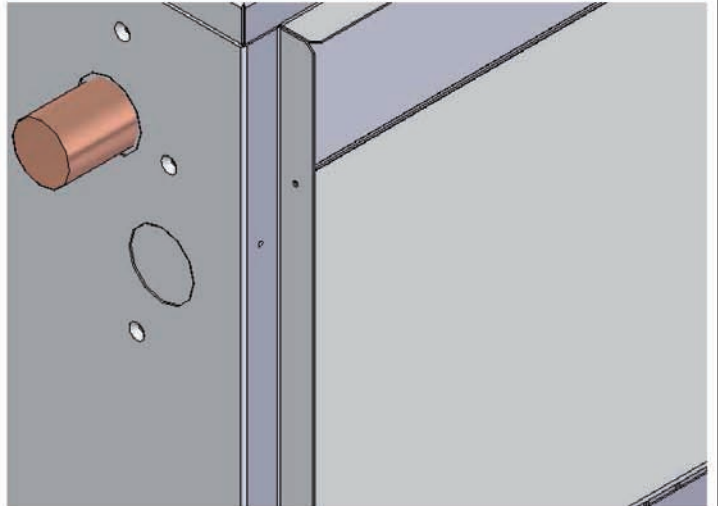
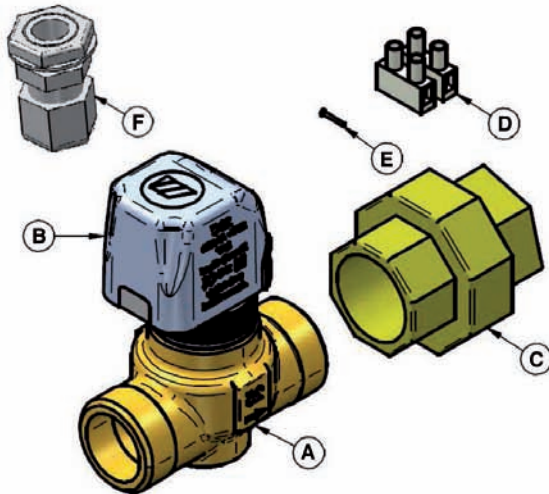
2-way valve kit with 1" fittings (ON/OFF-PWM)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans.

2-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT)

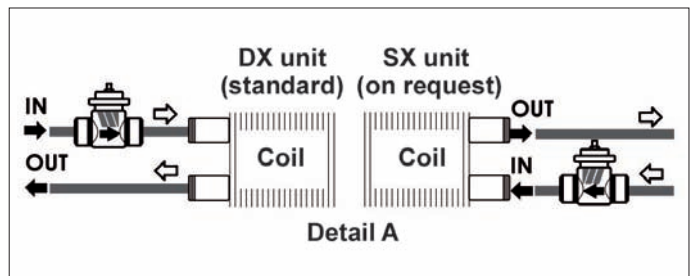
Description	Qty.
A 2-way valve, 1"M – 1"M	1
B ON/OFF-PWM actuator	1
C 3-piece straight fitting, 1" F-F	1
D Junction terminal	1
E Self-tapping screw, Ø3.9x19	1
F PG9 cable gland	1

2-way valve kit (On/Off-PWM)



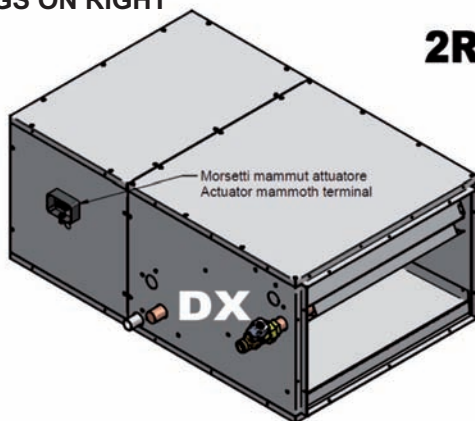
TECHNICAL SPECIFICATIONS

Max operating temp.	110°C
Actuator travel	5,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	ON/OFF-PWM
Amb. operating temp.	0-50°C
Max. differential pressure	0,7 BAR
Flow coefficient when fully open	5,2 Kv
Protection class	IP 44



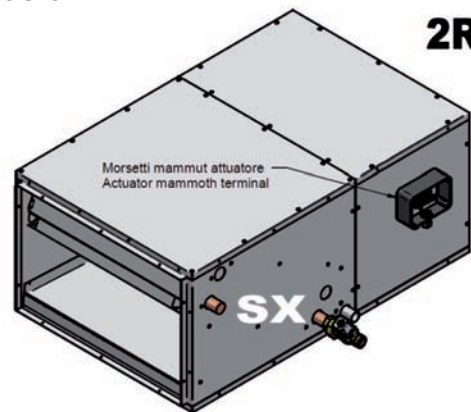
2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT

2R



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT

2R

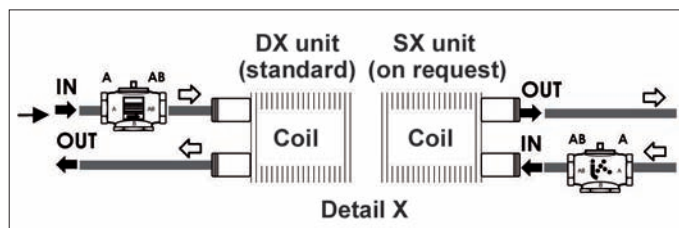


12. ACCESSORIES

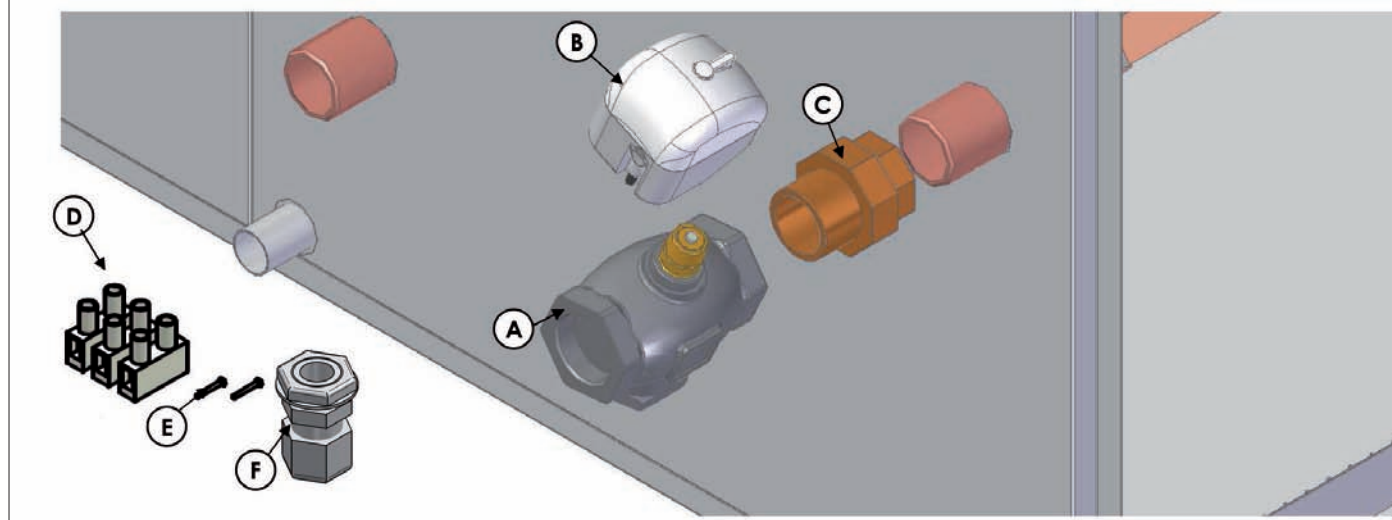
2-way valve kit with 1"-1/4 fittings (on/off; 3 position; 0-10 v);

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans. The 0-10 V or 3-position modulating valve kits can be managed directly by Climaveneta controllers; the (i)-HB power board is required with the 0-10 V valve expansion module.

2-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT)		
Description		Qty.
A	2-way valve, 1"-1/4 F-F	1
B	Actuator	1
C	3-piece straight fitting, 1"-1/4 M-F	1
D	Junction terminal	1
E	Self-tapping screw, Ø3.9x19	2
F	PG9 cable gland	1



2-way valve kit (0-10 V and 3 POSITION)



Valve TECHNICAL SPECIFICATIONS	
Max operating temp	120°C
Actuator travel	5,5 mm
Amb. operating temp.	-10 +120°C
Rated pressure	16 BAR
Flow coefficient when fully open	13 Kv

For further information, see the enclosed valve data sheet.

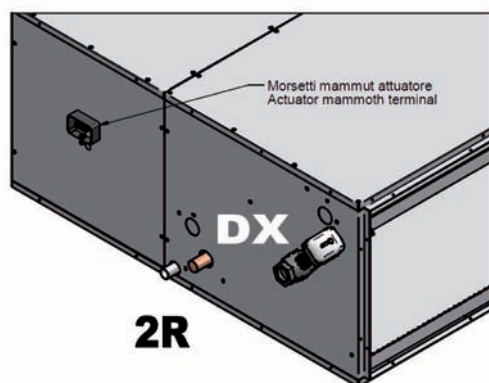
Modulating and floating actuator TECHNICAL SPECIFICATIONS	
Power supply	24 Vac $\pm$ 10% 50-60Hz
Travel time	70 sec.
Manual control	hex spanner 3 mm
Action	Direct/reverse
Amb. operating temp.	0-50°C
Power cable	3x0.5 mm ² , 1.5 m long
Ingress protection	IP 54
Weight	0,36 Kg

For further information, see the enclosed actuator data sheet.

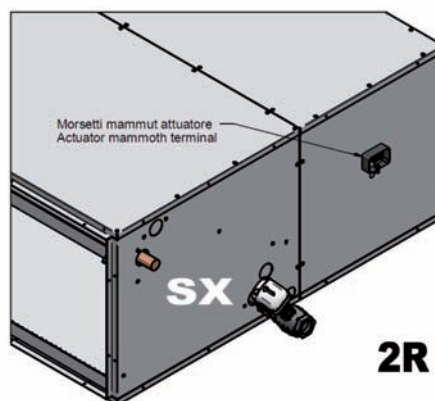
DATI TECNICI Attuatore ON-OFF	
Power supply	110...230 $\pm$ 10% 50-60Hz
Travel time	70 sec.
Manual control	hex spanner 3 mm
Action	Direct/reverse
Amb. operating temp.	0-50°C
Power cable	3x0.5 mm ² , 1.5 m long
Ingress protection	IP 54
Weight	0,36 Kg

For further information, see the enclosed actuator data sheet.

2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



12. ACCESSORIES

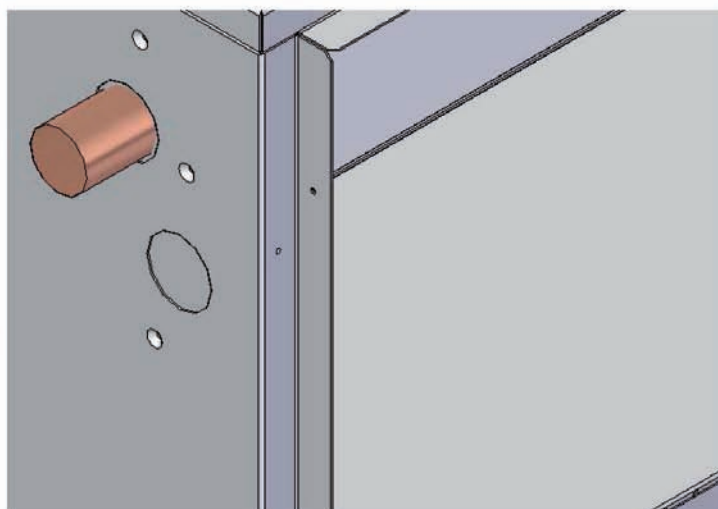
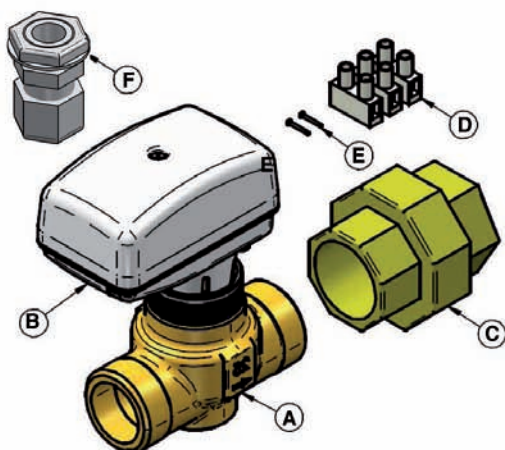
2-way valve kit with 3/4" fittings (0-10 v and 3 position)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans. The 0-10 V or 3-position modulating valve kits can be managed directly by Climaveneta controllers; the (i)-HB power board is required with the 0-10 V valve expansion module.

2-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT)

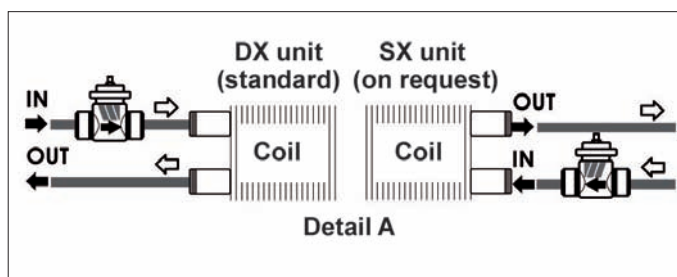
Description	Qty.
A 2-way valve, 3/4"M – 3/4"M	1
B Modulating actuator	1
C 3-piece straight fitting, 3/4" F-F	1
D Junction terminal	1
E Self-tapping screw, Ø3.9x19	2
F PG9 cable gland	1

2-way valve kit (0-10 V and 3 POSITION)

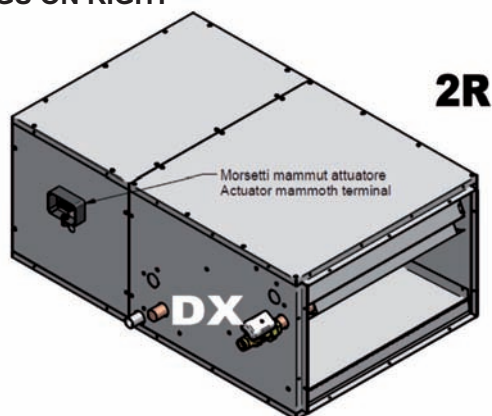


TECHNICAL SPECIFICATIONS

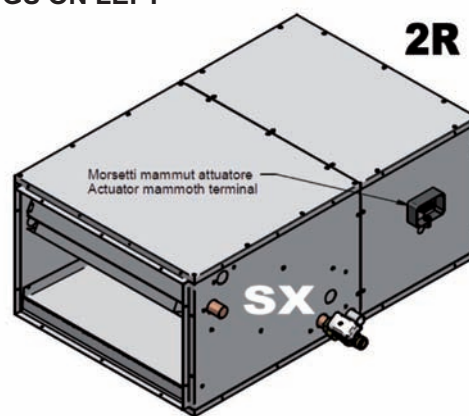
Max operating temp	110°C
Actuator travel	5,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	0-10 Vdc
Amb. operating temp.	0-50°C
Thrust	120N
Flow coefficient when fully open	2,8 Kv
Protection class	IP 44



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



12. ACCESSORIES

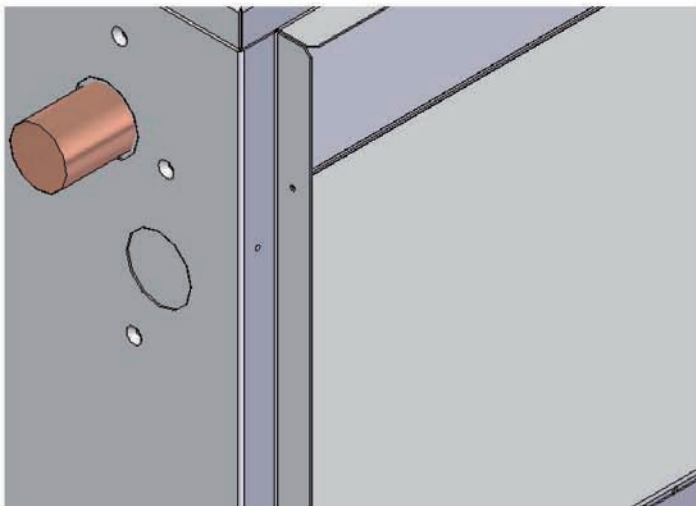
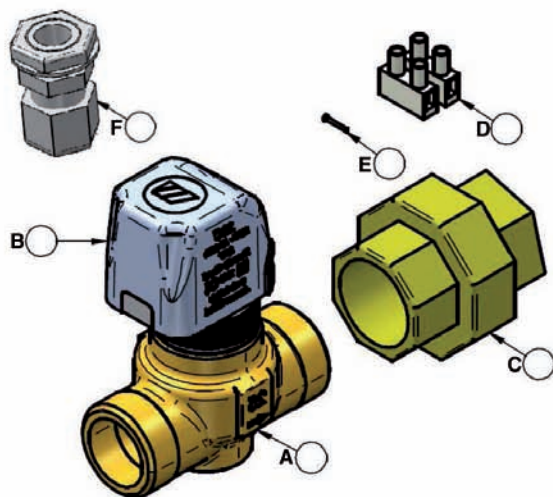
2-way valve kit with 3/4" fittings (ON/OFF-PWM)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans.

2-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT)

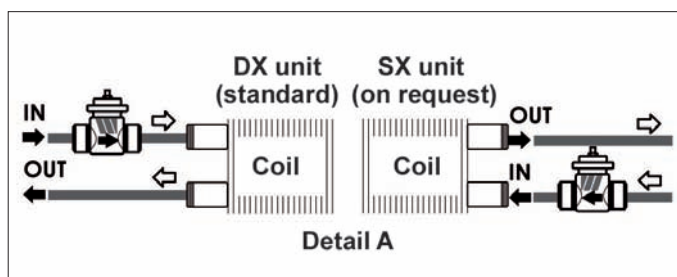
Description	Qty.
A 2-way valve, 3/4"M – 3/4"M	1
B ON/OFF-PWM actuator	1
C 3-piece straight fitting, 3/4" F-F	1
D Junction terminal	1
E Self-tapping screw, Ø3.9x19	1
F PG9 cable gland	1

2-way valve kit (On/Off-PWM)

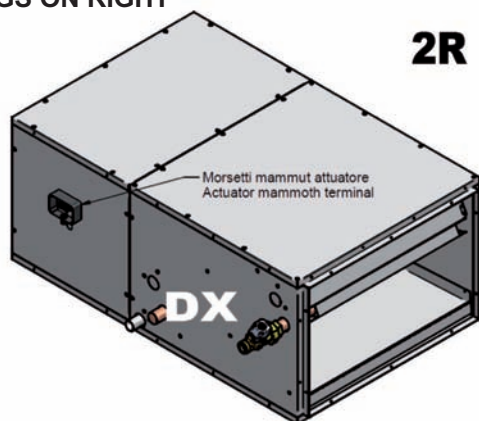


TECHNICAL SPECIFICATIONS

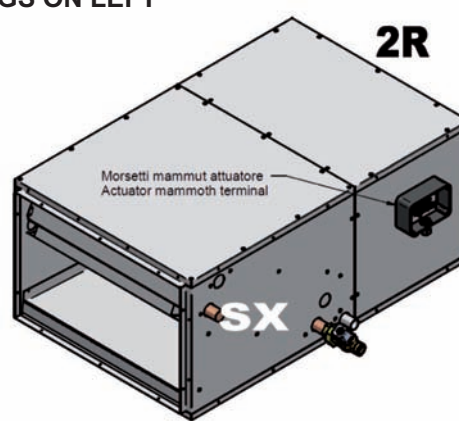
Max operating temp	110°C
Actuator travel	2,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	ON/OFF-PWM
Amb. operating temp.	0-50°C
Max. differential pressure	0,7 BAR
Flow coefficient when fully open	2,8 Kv
Protection class	IP 44



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



2-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



12. ACCESSORIES

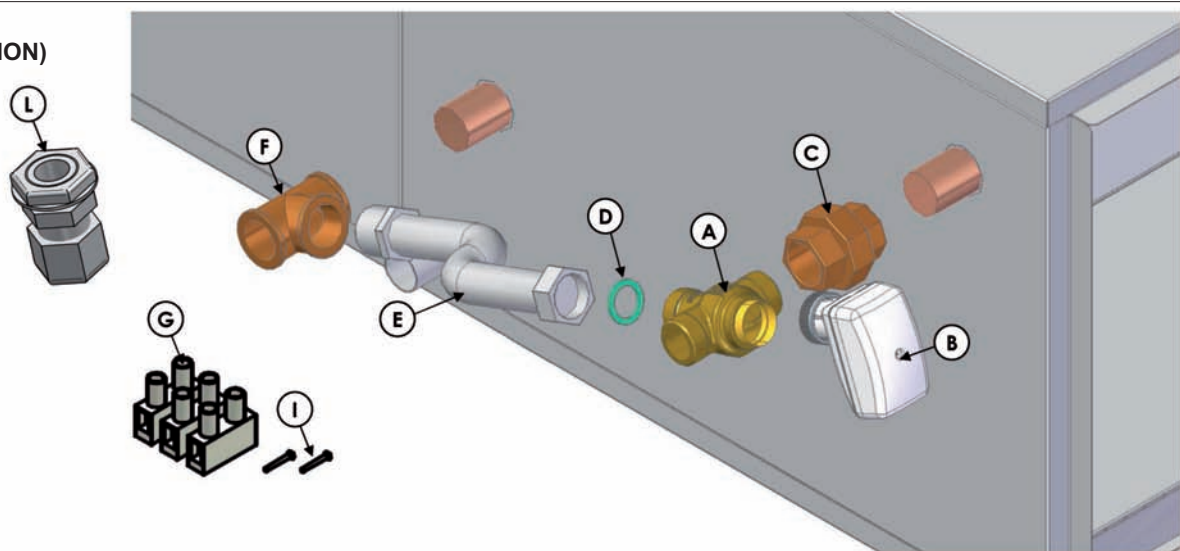
3-way valve kit with 1" fittings (0-10 v and 3 position)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans. The 0-10 V or 3-position modulating valve kits can be managed directly by Climaveneta controllers; the (i)-HB power board is required with the 0-10 V valve expansion module.

3-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT)

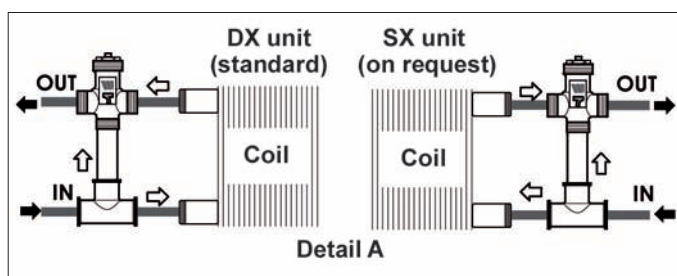
Description	Qty.
A 3-way valve, 1"M – 1"M	1
B Modulating actuator	1
C 3-piece straight fitting, 1" F-F	1
D 1" gasket	1
E 1" flexible steel tubing	1
F 1" 'T' fitting	1
G Junction terminal	1
I Self-tapping screw, Ø3.9x19	2
L Cable gland	1

3-way valve kit (0-10 V and 3 POSITION)

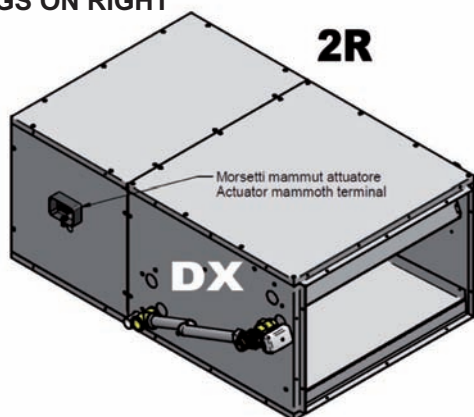


TECHNICAL SPECIFICATIONS

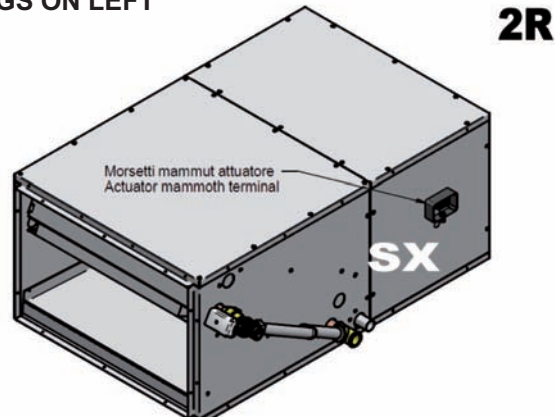
Max operating temp	110°C
Actuator travel	5,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	0-10 Vdc
Amb. operating temp.	0-50°C
Thrust	120N
Flow coefficient when fully open	5,2 Kv
Protection class	IP 44



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



12. ACCESSORIES

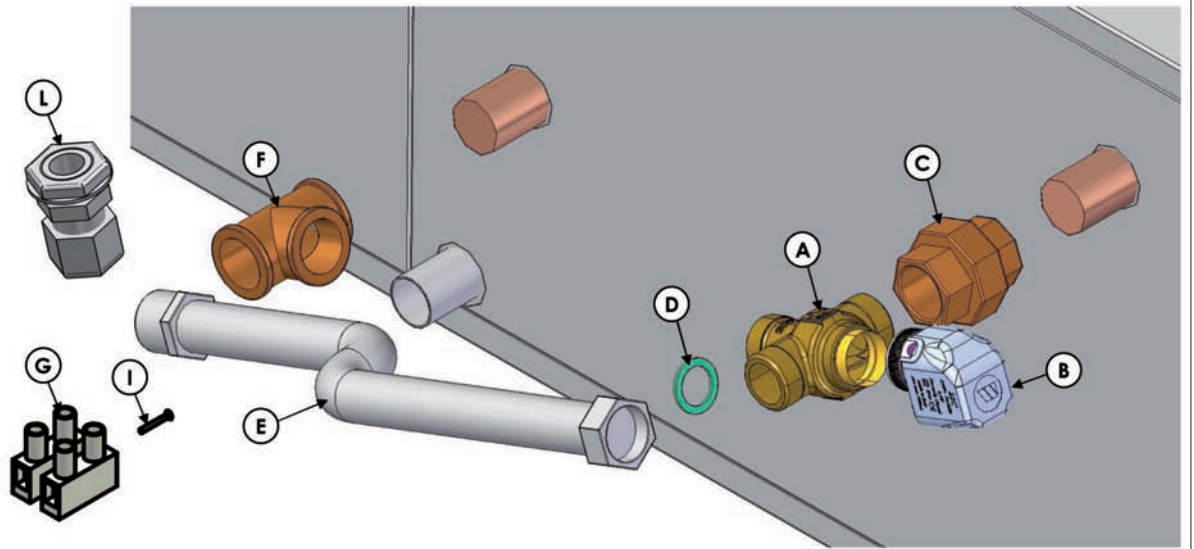
3-way valve kit with 1" fittings (ON/OFF-PWM)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans.

3-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT)

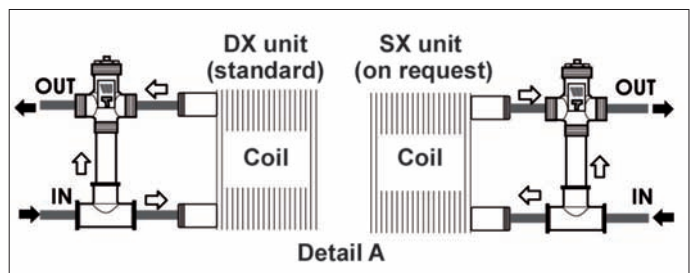
Max operating temp	110°C
Actuator travel	5,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	ON/OFF-PWM
Amb. operating temp.	0-50°C
Max. differential pressure	0,7 BAR
Flow coefficient when fully open	5,2 Kv
Protection class	IP 44

3-way valve kit
(On/Off-PWM)

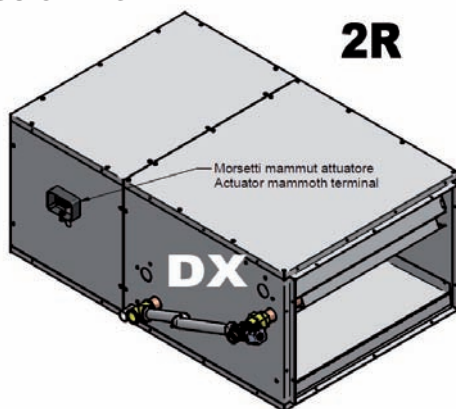


TECHNICAL SPECIFICATIONS

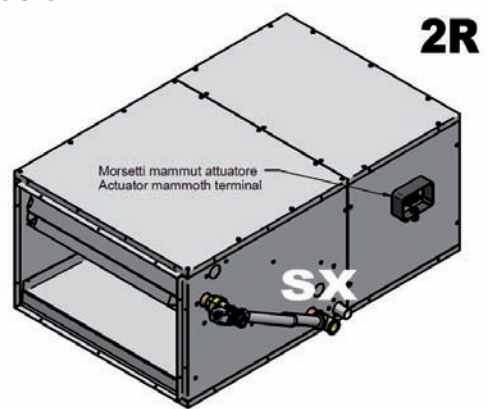
Max operating temp	110°C
Actuator travel	5,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	ON/OFF-PWM
Amb. operating temp.	0-50°C
Max. differential pressure	0,7 BAR
Flow coefficient when fully open	5,2 Kv
Protection class	IP 44



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL,
FITTINGS ON RIGHT



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL,
FITTINGS ON LEFT



12. ACCESSORIES

3-way valve kit with 1"-1/4 fittings (ON/OFF; 3 position; 0-10 v)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans.

3-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT) (MWZ 502,504,506,604,702,704,706,804,904)	
Description	Qty.
A 3-way valve, 1"-1/4 F-F	1
B Actuator	1
C 3-piece straight fitting, 1"-1/4 M-F	1
D 1"-1/4 gasket	1
E 1"-1/4 M-F flexible steel tubing	1
F 1"-1/4 'T' fitting	1
G Junction terminal	1
I Self-tapping screw, Ø3.9x19	2
L Cable gland	1
M 1"-1/4 M-M compression fittings	1

3-WAY VALVE KIT (VALVE BODY KIT + ACTUATOR KIT) (MWZ 1004)	
Description	Qty.
A 3-way valve, 1"-1/4 F-F	1
B Actuator	1
C 3-piece straight fitting, 1"-1/4 M-F	1
D 1"-1/4 gasket	1
E 1"-1/4 M-F flexible steel tubing	1
F 1"-1/4 'T' fitting	1
G Junction terminal	1
I Self-tapping screw, Ø3.9x19	2
L Cable gland	1
M 1"-1/4 M-M compression fittings	1
N 1"-1/4 bushing	1
O 1"-1/4 extension, L=120 mm	1

3-way valve kit (MWZ 502,504,506,604,702,704,706,804,904)

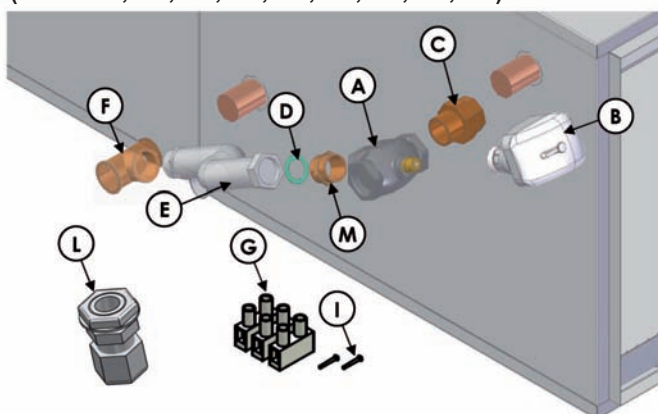


fig. 1

3-way valve kit (MWZ 1004)

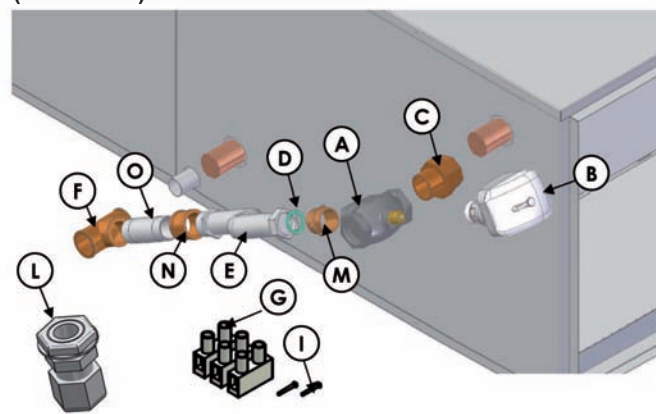


fig. 2

Valve TECHNICAL SPECIFICATIONS

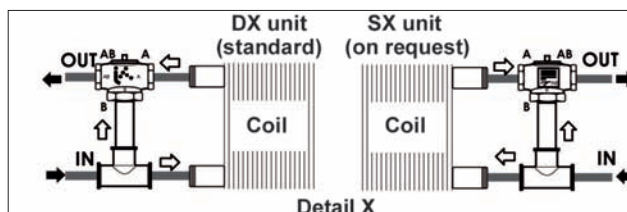
Max operating temp	120°C
Actuator travel	5,5 mm
Amb. operating temp.	-10 +120°C
Rated pressure	16 BAR
Flow coefficient when fully open	13 Kv

For further information, see the enclosed valve data sheet.

Modulating and floating actuator TECHNICAL SPECIFICATIONS

Power supply	24 Vac ± 10% 50-60Hz
Travel time	70 sec.
Manual control	hex spanner 3 mm
Action	Direct/reverse
Amb. operating temp.	0-50°C
Power cable	3x0.5 mm², 1.5 m long
Ingress protection	IP 54
Weight	0,36 Kg

For further information, see the enclosed actuator data sheet.

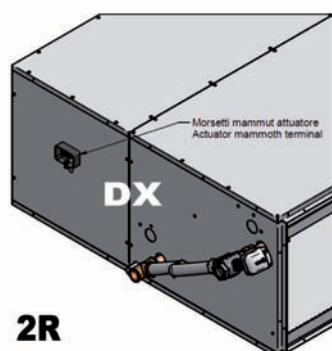


ON-OFF actuator TECHNICAL SPECIFICATIONS

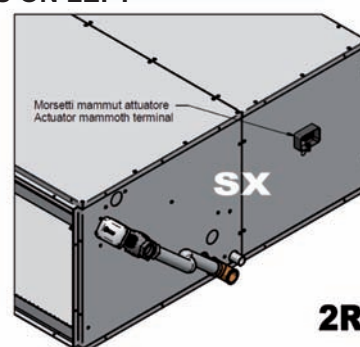
Power supply	110...230 ± 10% 50-60Hz
Travel time	70 sec.
Comando manuale	hex spanner 3 mm
Action	Direct/reverse
Amb. operating temp.	0-50°C
Power cable	3x0.5 mm², 1.5 m long
Ingress protection	IP 54
Weight	0,36 Kg

For further information, see the enclosed actuator data sheet.

3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



12. ACCESSORIES

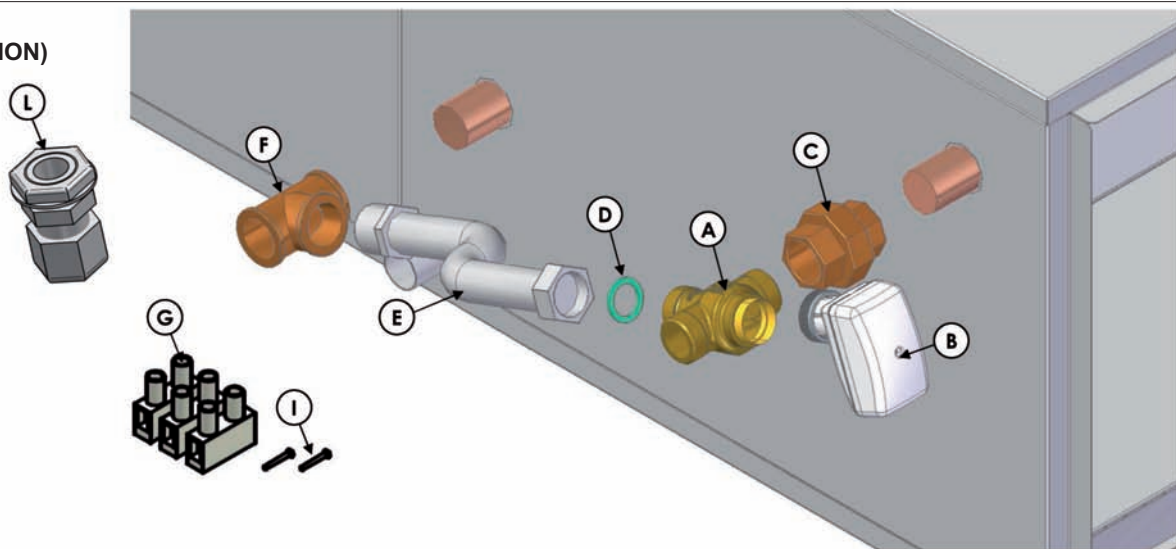
3-way valve kit with 3/4" fittings (0-10 v and 3 position)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans. The 0-10 V or 3-position modulating valve kits can be managed directly by Climaveneta controllers; the (i)-HB power board is required with the 0-10 V valve expansion module.

3-WAY VALVE KIT

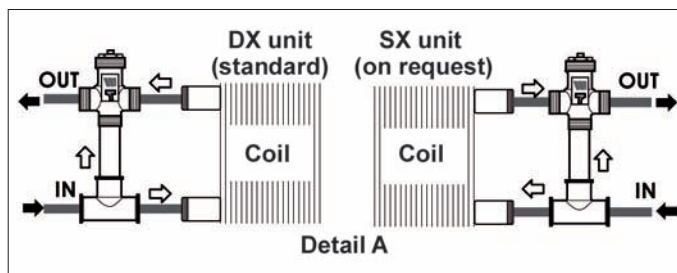
Description	Qty.
A 3-way valve, 3/4"M – 3/4"M	1
B Modulating actuator	1
C 3-piece straight fitting, 3/4" F-F	1
D 3/4" gasket	1
E 3/4" flexible steel tubing	1
F 3/4" 'T' fitting	1
G Junction terminal	1
I Self-tapping screw, Ø3.9x19	2
L Cable gland	1

3-way valve kit (0-10 V and 3 POSITION)

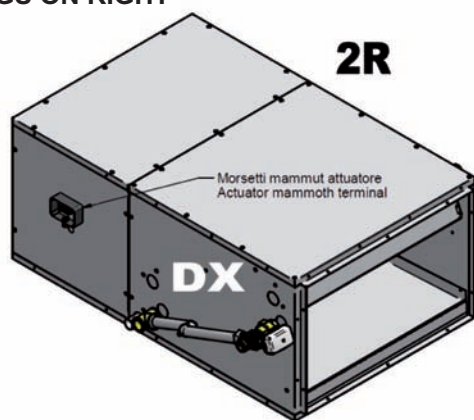


TECHNICAL SPECIFICATIONS

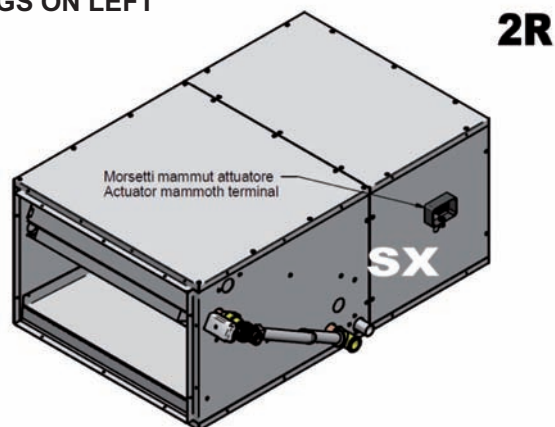
Max operating temp	110°C
Actuator travel	5,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	0-10 Vdc
Amb. operating temp.	0-50°C
Thrust	120N
Flow coefficient when fully open	2,8 Kv
Protection class	IP 44



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



12. ACCESSORIES

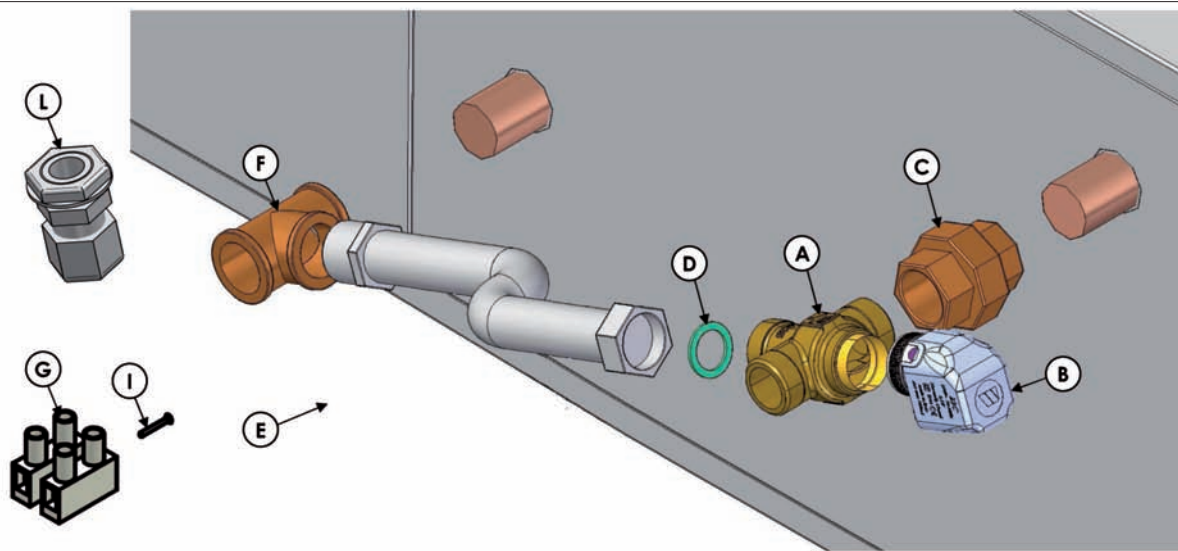
3-way valve kit with 3/4" fittings (ON/OFF-PWM)

The kit is used to open or close the water flow in the hydronic unit coil with centrifugal fans.

3-WAY VALVE KIT

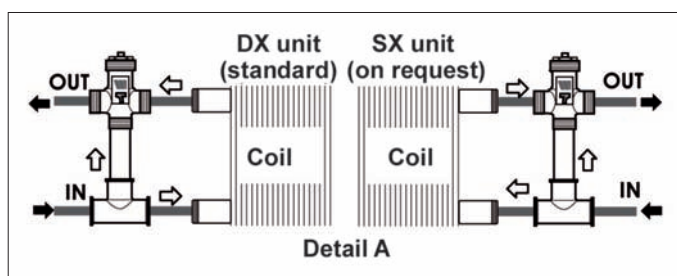
Description	Qty.
A 3-way valve, 3/4"M – 3/4"M	1
B ON/OFF-PWM actuator	1
C 3-piece straight fitting, 3/4" F-F	1
D 3/4" gasket	1
E 3/4" flexible steel tubing	1
F 3/4" 'T' fitting	1
G Junction terminal	1
I Self-tapping screw, Ø3.9x19	1
L Cable gland	1

3-way valve kit (On/Off-PWM)

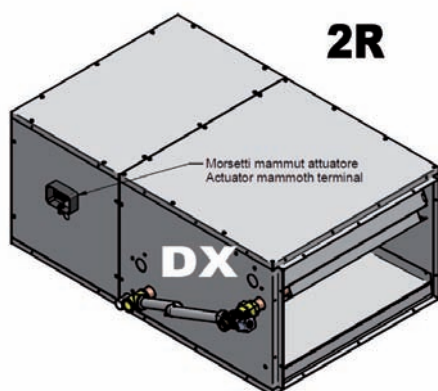


TECHNICAL SPECIFICATIONS

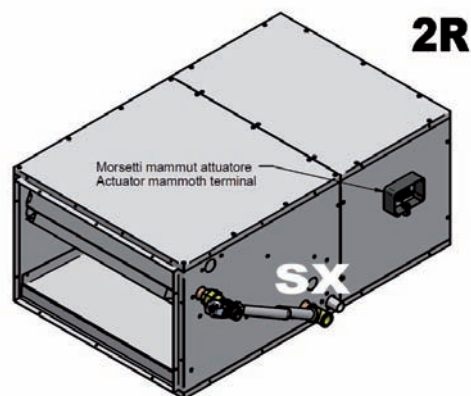
Max operating temp	110°C
Actuator travel	2,5 mm.
Power supply	230 V
Power cable length	2 mt
Control signal	ON/OFF-PWM
Amb. operating temp.	0-50°C
Max. differential pressure	0,7 BAR
Flow coefficient when fully open	2,8 Kv
Protection class	IP 44



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON RIGHT



3-WAY VALVE ASSEMBLY FOR 2 ROW COIL, FITTINGS ON LEFT



13. INVERTING THE WATER CONNECTIONS

⚠ WARNING: (Compulsory for vertical units only)
Run the electrical cables on the opposite side to the water connections.

If the terminal block is fitted (or electrical panel, or electronic boards), remove and position on the opposite side.

Reassemble the component by following the same procedure used for dismantling, in reverse order.

Replace the component on the opposite side, corresponding (mirrored and symmetrical) to the original.

Inverting the main coil from right to left

Fig. 1 Remove the Ø3.9x32 screws "A" from the coil compartment, all around the unit.

Fig. 2 **Separate the fan unit "1" from the coil compartment "2"**

Fig. 3 Remove the Ø3.9x32 screws "B" that fix the top panel, as shown in the figure.

Fig. 4 **Lift and remove the top panel "3" from the coil compartment.**

Fig. 5 Remove the Ø3.9x32 screws on the left and right sides as indicated in the next steps (Fig. 5)

Pos. "C" = louvre fixing screws.

Pos. "D" = 3, 4, 6 row coil fixing screws.

Pos. "E" = 2 row coil fixing screws.

Loosen the Ø3.9x32 screws that secure the pan, pos. "F".

Fig. 6 Open the panel "4" slightly and turn the louvre "5" and the coil "6" away from the through-holes for panel "7", following the direction of the arrow.

Fig. 7 Turn the coil 180° in the direction of the arrow.

Fig. 8 Open the 2 knock-outs provided on the opposite shoulder, corresponding to the coil water connections.

Pos. "G" = knock-out for 3, 4 row coil.

Pos. "N" = knock-out for 2 row coil.

Pos. "M" = knock-out for 6 row coil.

Note: for technical reasons, it is not possible to invert the pan draining position. If this is required, the pan with L-side drain must be ordered.

Fig. 9 Insert the coil "6", tilting it in the direction of the arrow, as shown in the figure, placing the water connections into the openings made previously. (Fig. 8).

Fig. 10 Insert the louvre "5", tilting it in the direction of the arrow, as shown in the figure, and resting it on the coil.

Fig. 11 Insert the Ø3.9x32 screws on the right and left sides as shown in the next steps (Fig. 11), without fully tightening them.

Pos. "D" = 3, 4, 6 row coil fixing screws.

Pos. "E" = 2 row coil fixing screws.

Pos. "C" = louvre fixing screws.

When finished, tighten all the screws, including those previously loosened for the pan (Fig. 5).

Fig. 12 Position the previously removed panel "3" (Fig. 4) and tighten the Ø3.9x32 screws in position "B"

Fig. 13 Insert the fan unit "1" into the coil compartment "2" as shown in the figure, paying close attention to the position of the fan outlet opening.

The opening should be facing upwards, as shown in Fig. 13, otherwise air flow will be obstructed by the pan.

Tighten the Ø3.9x32 screws in pos. "A" all around the unit, as shown in the figure.

Fig. 14 The water connections have now been inverted from right to left.

Inverting the main coil from left to right

To reverse the position of the coil, follow the previous instructions, however considering the left shoulder as the starting point rather than the right.

Fig. 1

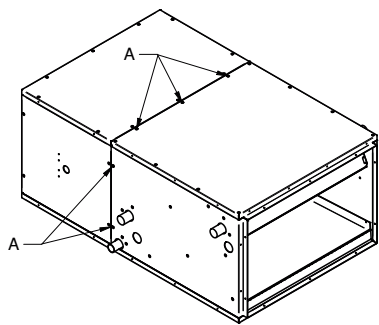


Fig. 2

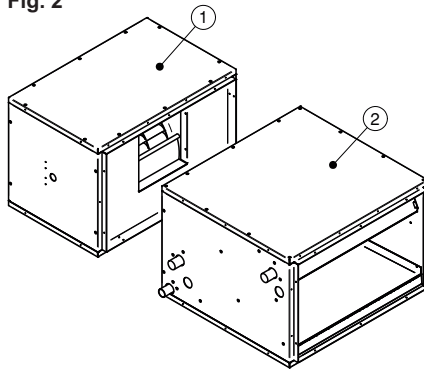


Fig. 3

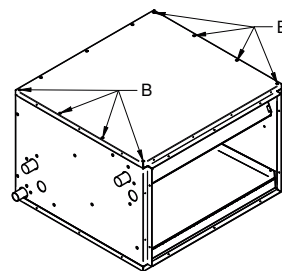


Fig. 4

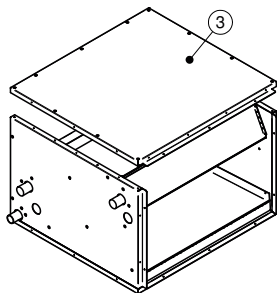


Fig. 5

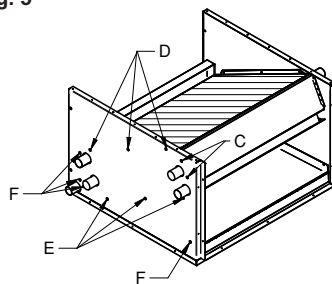


Fig. 6

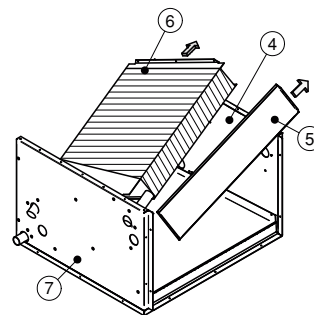


Fig. 7

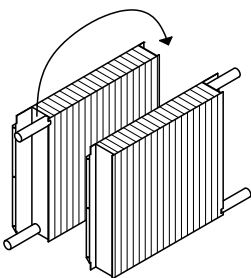


Fig. 8

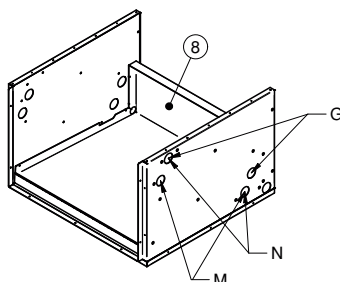


Fig. 9

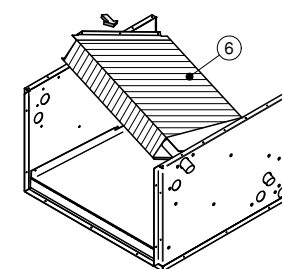


Fig. 10

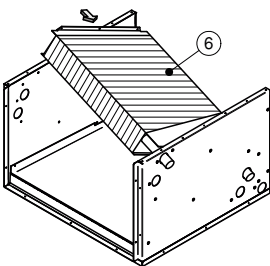


Fig. 11

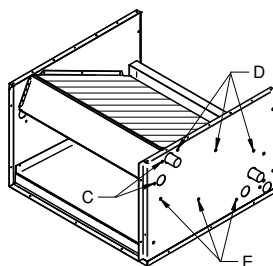


Fig. 12

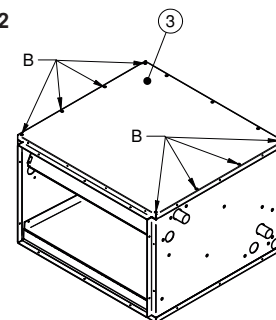


Fig. 13

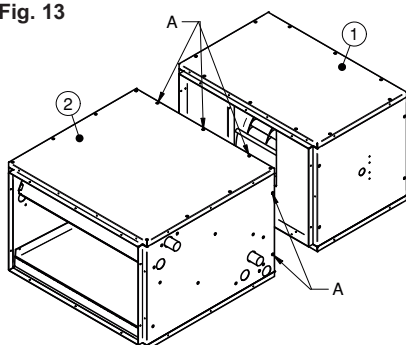
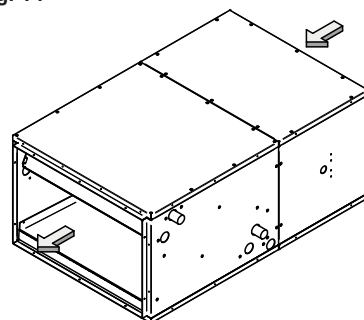


Fig. 14



14. ELECTRICAL CONNECTION

⚠ WARNING: before performing any work, make sure that power is disconnected.

WARNING: electrical connections, installation of the unit and its accessories must only be performed by specialist personnel.

Remember that the warranty will be void in the event of any electrical or mechanical modifications or tampering in general.

- Observe the applicable safety regulations in the country where the unit is installed.
- Verify that the characteristics of the mains power supply match the unit's rated data.
- Unit power supply and accessories (230V electric heater, remote controls, etc.): Make sure that the mains power supply is single-phase, 230V / 1Ph / 50Hz and that the power supply voltage is within the limits $V_{min} > 195$ to $V_{max} < 265$.
- Accessory power supply for section with 400V electric heater:
- Make sure that the mains power supply is three-phase, 400V / 3Ph / 50Hz and that the power supply voltage is within the limits $V_{min} > 340$ to $V_{max} < 460$.
- The warranty is void in the event of unit operation at voltages not within the limits specified above.
- Ensure that the electrical system is able to deliver, in addition to the operating current required by the unit, the current needed to power any other appliances and units already in use..

CHECK THE EARTH CONNECTION

- The unit's electrical safety is only ensured when it is properly connected to an effective earthing system, in accordance with current safety regulations.
- When making the connections, the earth wire is longer than the power wires. This will be the last wire to detach if the power cable is accidentally pulled, and will thus ensure good earth continuity.

CHARACTERISTICS OF CONNECTION CABLES:

- Make sure the unit and all of its accessories are connected using suitably-sized power cables in accordance with local regulations. The cables must be sized to ensure a voltage drop when starting of less than 3% of nominal voltage.
- Use H05V-K or N07V-K cables with 300/500 V isolation, laid in tubes or conduits.
- All cables must be laid in tubes or conduits until reaching the unit's terminal block.
- The cables exiting the tube or conduit must be positioned so that they are not in tension or twisted, and are protected against external elements. Twisted cables can only be used with cable ends. Make sure that wire strands are securely inserted.

ELECTRICAL CONNECTION:

- Make the electrical connections according to the wiring diagram.

ALL WIRING DIAGRAMS ARE SUBJECT TO UPDATES: ALWAYS REFER TO THE WIRING DIAGRAM SUPPLIED WITH THE UNIT.

- Adapters, multiple sockets and/or extensions cannot be used on the unit's main power supply.
- It is the installer's responsibility to ensure installation of a power disconnect device as close as possible to the unit !!
- To protect the unit against short-circuits, the unit must be connected to the power supply line via an appropriate double-pole circuit breaker with a minimum contact opening of 3 mm (to choose the most suitable circuit breaker, see the current draw on the unit's rating plate). A double pole circuit breaker breaks both poles, i.e. line and neutral. This means that when breaking, both contacts are open. The double pole circuit breaker and any plug (cable and plug connection) must be located in accessible positions.

POWER CONSUMPTION: See the power consumption values shown on the unit's rating plate.

Power consumption and current draw		102/104	202/204	302/304	402/404	502/504	602/604	702/704	802/804	902/904	1002/1004
		10	20	30	40	50	60	70	80	90	100
MWZ AC motor	Max. power consumption (W) (Rated data)	640	1150	1150	1670	2130	1950	2200	2200	3340	4260
MWZ EC motor	Max. power consumption (W) (Rated data)	1060	1060	1060	1060	1040	2190	2120	2120	2120	2080



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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