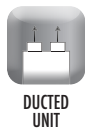
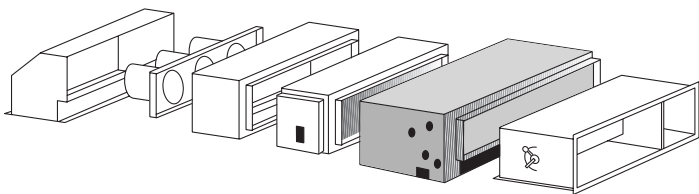


MHD

Ductable hydronic air treatment terminal units



Technical and construction characteristics

Basic Unit:

- Load-bearing structure made of 1 mm thick galvanized sheet metal; - Heat exchange coil in copper tube with fins continuous pack aluminum blocked on the tubes by means of mechanical expansion;
- The manifolds are equipped with male gas connections and valves easily accessible air vent;
- The hydraulic connections are on the left as standard;
- Electric fan unit consisting of one or two fans double inlet centrifuges with horizontally developed aluminum fans, statically and dynamically balanced;
- The electric motor, protected against overloads, has three speed, built according to international standards, with running capacitor always inserted, directly coupled to the fans and cushioned with elastic supports, particularly efficient and silent.

Accessories:

- Easily removable air filter section, consisting of a frame metal containing the filtering septum, regenerable by means of washing with water, EU2 filtration level;
- Internal/external air intake plenum with manual damper built in galvanized sheet metal, it allows the air to be exchanged in the rooms (internal air flow 100% - 66.6%, external air flow 0% - 33.3%);
- Heating section with 380V electric resistance made according to international safety standards and supplied complete with automatic reset safety thermostat, interface relay for its control, electrical wiring and control panel with main switch and thermal magnetic protection.

Model	Cooling power kW	Thermal power kW	Air flow m ³ /h	Code	€
MHD 4/3 (batt. 3 ranks)	2,71	3,06	536	5220000	950,00
MHD 7/3 (batt. 3 ranks)	4,41	4,72	800	5222000	1.250,00
MHD 9/3 (batt. 3 ranks)	6,94	7,66	1419	5224000	1.400,00
MHD 11/3 (batt. 3 ranks)	8,28	9,04	1641	5226000	1.500,00
MHD 13/3 (batt. 3 ranks)	10,85	12,43	2401	5228000	2.100,00
MHD 28/4 (batt. 4 ranks)	23,49	25,45	4134	5230000	3.690,00
MHD 51/4 (batt. 4 ranks)	42,07	46,88	7985	5232000	6.950,00

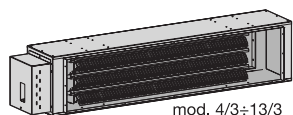
Data collected under the following conditions:

- Standard free-mouth unit (external static pressure = 0 Pa)

- Maximum fan speed

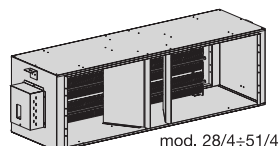
- Cooling: inlet water temperature 7 °C - outlet water temperature 12 °C - inlet air temperature 27 °C D.B. - 19 °C B.U. - Heating: inlet water temperature 45 °C - outlet water temperature 40 °C - inlet air temperature 20 °C

Accessories MHD



Heating section with electric resistance

4/3	7/3 - 9/3	11/3 - 13/3	28/4	51/4
3.000 W	6.000 W	9.000 W	12.000 W	18.000 W

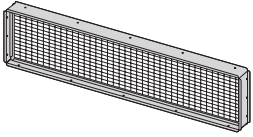
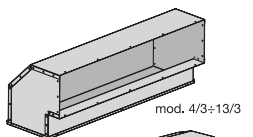
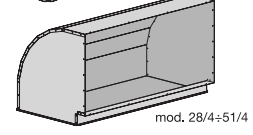
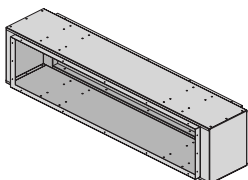

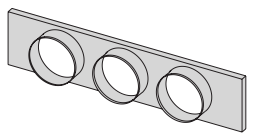



	Code	€
mod. 4/3	52202805	632,00
mod. 7/3	52222805	836,00
mod. 11/3	52262805	996,00
mod. 13/3	52282805	996,00
mod. 28/4	52302805	1.060,00
mod. 51/4	52322805	1.140,00

MHD

Ductable hydronic air treatment terminal units

Accessories MHD

		Code	€
	Removable return filter (metal frame + filter media)	mod. 4/3	52205600 48,00
		mod. 7/3	52225600 60,00
		mod. 9/3	52245600 64,00
		mod. 11/3	52265600 66,00
		mod. 13/3	52285600 70,00
		mod. 28/4	52305600 120,00
		mod. 51/4	52325600 176,00
	90° plenum of air intake	mod. 4/3	52202220 126,00
		mod. 7/3	52222220 154,00
		mod. 9/3	52242220 160,00
		mod. 11/3	52262220 170,00
		mod. 13/3	52282220 186,00
		mod. 28/4	52302220 274,00
		mod. 51/4	52322220 372,00
	90° air delivery plenum	mod. 4/3	52202221 136,00
		mod. 7/3	52222221 164,00
		mod. 9/3	52242221 170,00
		mod. 11/3	52262221 184,00
		mod. 13/3	52282221 198,00
		mod. 28/4	52302221 290,00
		mod. 51/4	52322221 398,00
	Straight plenum of air intake	mod. 4/3	52202210 154,00
		mod. 7/3	52222210 178,00
		mod. 9/3	52242210 194,00
		mod. 11/3	52262210 220,00
		mod. 13/3	52282210 250,00
		mod. 28/4	52302210 340,00
		mod. 51/4	52322210 464,00
	Straight air delivery plenum	mod. 4/3	52202211 164,00
		mod. 7/3	52222211 188,00
		mod. 9/3	52242211 204,00
		mod. 11/3	52262211 236,00
		mod. 13/3	52282211 268,00
		mod. 28/4	52302211 364,00
		mod. 51/4	52322211 492,00
	Suction plenum for flex pipes	mod. 4/3	52202216 120,00
		mod. 7/3	52222216 142,00
		mod. 9/3	52242216 154,00
		mod. 11/3	52262216 202,00
		mod. 13/3	52282216 204,00
		mod. 28/4	52302216 278,00
		mod. 51/4	52322216 364,00
	Insulated delivery plenum for flex pipes	mod. 4/3	52202215 134,00
		mod. 7/3	52222215 156,00
		mod. 9/3	52242215 168,00
		mod. 11/3	52262215 184,00
		mod. 13/3	52282215 288,00
		mod. 28/4	52302215 300,00
		mod. 51/4	52322215 406,00

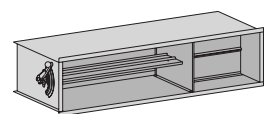
Numero di attacchi per ogni modello				
4/3	7/3 - 9/3	11/3 - 13/3	28/4	51/4
2 x Ø 200	3 x Ø 200	4 x Ø 200	2 x Ø 400	4 x Ø 400

Values in mm

MHD

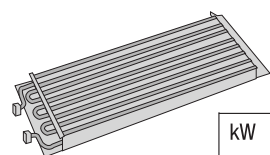
Ductable hydronic air treatment terminal units

Accessories MHD



Internal/external air intake plenum with manual shutter

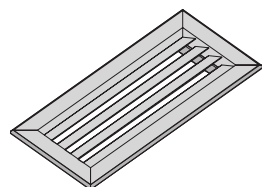
		Code	€
mod. 4/3	590 x 400 x (H) 240 mm	52202205	330,00
mod. 7/3	940 x 400 x (H) 240 mm	52222205	418,00
mod. 9/3	1040 x 400 x (H) 265 mm	52242205	438,00
mod. 11/3	1280 x 400 x (H) 265 mm	52262205	546,00
mod. 13/3	1280 x 400 x (H) 310 mm	52282205	646,00
mod. 28/4	1280 x 732 x (H) 615 mm	52302205	912,00
mod. 51/4	1967 x 732 x (H) 615 mm	52322205	1.400,00



Additional battery

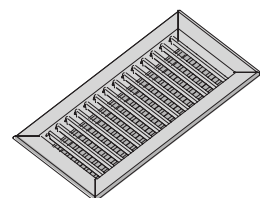
	4/3 1 rango	7/3 1 rango	9/3 1 rango	11/3 1 rango	13/3 1 rango	28/4 2 ranghi	51/4 2 ranghi
kW	4,19	6,99	9,15	10,54	13,98	38,83	70,19
kcal/h	3.607	6.031	7.890	9.086	12.057	33.475	60.514

mod. 4/3	52202800	202,00
mod. 7/3	52222800	290,00
mod. 9/3	52242800	300,00
mod. 11/3	52262800	332,00
mod. 13/3	52282800	396,00
mod. 28/4	52302800	868,00
mod. 51/4	52322800	1.378,00



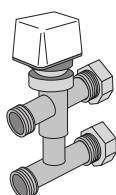
Fixed aluminum intake grille with filter

mod. 4/3	52202230	156,00
mod. 7/3	52222230	176,00
mod. 9/3	52242230	192,00
mod. 11/3	52262230	218,00
mod. 13/3	52282230	218,00
mod. 28/4	52302230	336,00
mod. 51/4	52322230	460,00



Adjustable aluminum delivery grille without filter

mod. 4/3	52202231	156,00
mod. 7/3	52222231	176,00
mod. 9/3	52242231	192,00
mod. 11/3	52262231	218,00
mod. 13/3	52282231	218,00
mod. 28/4	52302231	336,00
mod. 51/4	52322231	460,00



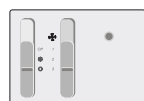
3-way on-off valve for 2-pipe systems

mod. 4/3 Ø 1/2"	37900080	196,00
mod. 7/3 Ø 3/4"	37900081	206,00
mod. 9/3-11/3 Ø 3/4"	37900082	230,00
mod. 13/3 Ø 1"	37900083	236,00
mod. 28/4 Ø 1"	37900084	646,00
mod. 51/4 Ø 1" 1/2	37900085	720,00



Mechanical consensus thermostat for wall-mounted electronic room thermostat or basic control

50005205 36,00



Basic wall control for managing the 3 speeds and for winter/summer selection

36205212 52,00




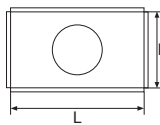

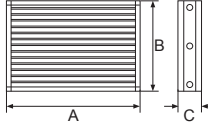

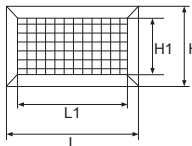

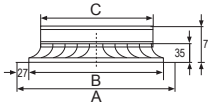

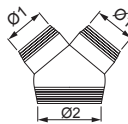

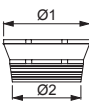


Wall-mounted electronic room thermostat with summer-off-winter selector and 3-speed switch

50005230 82,00

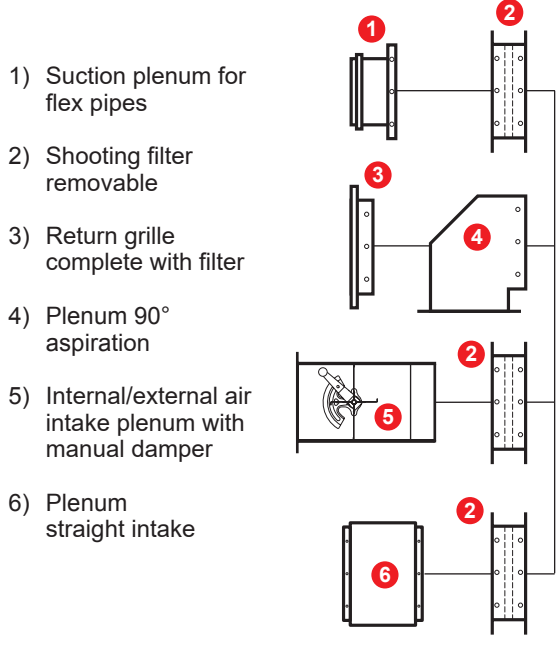
MHD

Ductable hydronic air treatment terminal units

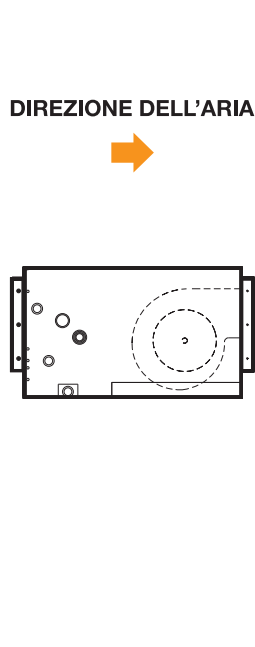
Accessories MHD

		Code	€
	Insulated plenum designed for 3 inputs, made of galvanized sheet metal with external insulation in 3 mm thick closed cell polyethylene and equipped as standard with a circular PPS collar 150/200 mm (L 410 mm - H 210 mm).		37900069 200,00
	Calibration damper for plenum composed of a frame and a double row of horizontal and vertical fins which are individually adjustable. (A 385 mm - B 180 mm - C 50 mm)		37900073 56,00
	White painted aluminum delivery vent consisting of a frame and a double row of individually adjustable horizontal and vertical fins with clip fixing. (L 432 mm - L1 400 mm - H 232 mm - H1 200 mm)		37900070 110,00
	Circular diffuser in white painted aluminium RAL - 9016 with butterfly damper and integrated collar. (A 310 mm - B 260 mm - C 200 mm)		37900027 142,00
	Insulated 3-way branch, operating temperature from 0 °C to +70 °C, PP material and insulating polyethylene covering with aluminum coating. (Ø1 200 mm - Ø2 250 mm)		37900216 146,00
	Insulated reduction for insulated 3-way branch, operating temperature from 0 °C to +70 °C, PP material and aluminum covering. (Ø1 250 mm - Ø2 200 mm)		37900446 50,00
	Kit 10 cable ties Ø 60 - 325		37900017 70,00
	Flex hose joint sleeve Ø 200		37900051 40,00

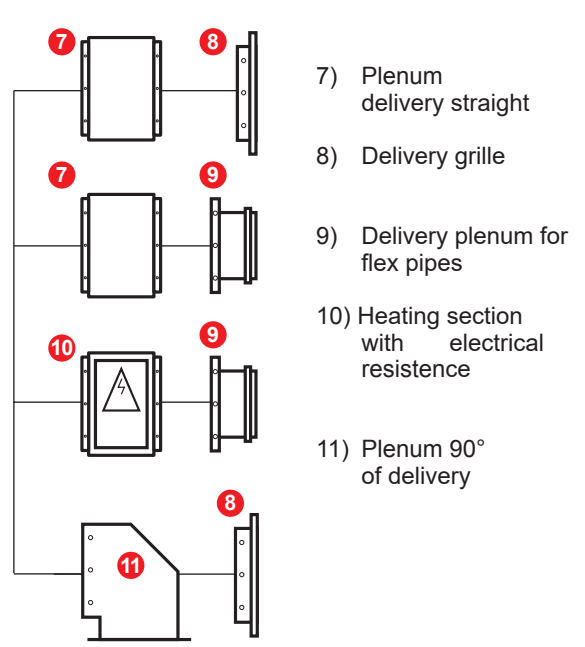
ASPIRATION



UNIT BASE



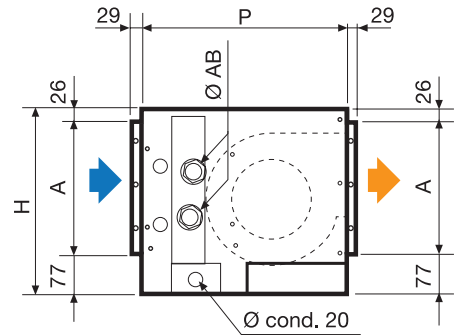
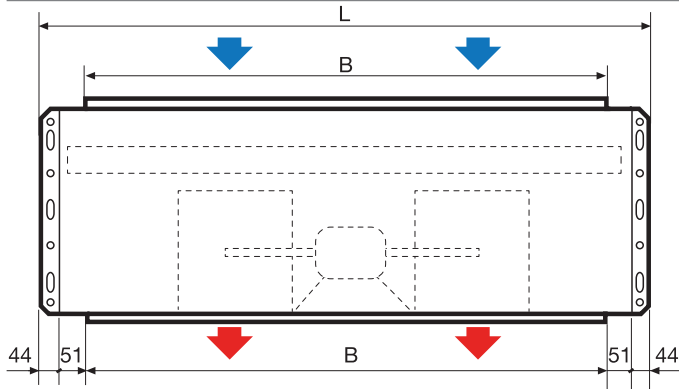
DELIVERY



MHD

Ductable hydronic air treatment terminal units

Dimensions MHD



Mod.	4/3	7/3	9/3	11/3	13/3	28/3	51/4
A	197	197	222	222	272	572	572
B	548	898	998	1238	1238	1238	1926
L	740	1090	1190	1430	1430	1480	2170
P	533	533	533	533	533	853	853
H	300	300	325	325	375	675	675
Ø AB	1/2"	3/4"	3/4"	3/4"	1"	1"1/4	1"1/2

Values in mm

Technical data table MHD

DESCRIPTION	U.M.	4/3	7/3	9/3	11/3	13/3	28/4	51/4	
Total cooling capacity ⁽¹⁾	W	max.	2714	4412	6936	8277	10850	23488	42068
		med.	2683	4084	6797	8066	9764	21629	39655
		min.	2543	3678	6536	7596	8081	19816	35610
Total thermal power ⁽²⁾	W	max.	3060	4720	7660	9040	12430	25450	46880
		med.	3030	4350	7470	8760	11010	23210	43630
		min.	2860	3900	7100	8210	8960	20970	38670
Total thermal power ⁽³⁾	W	max.	3640	5640	9120	10770	14730	30440	55840
		med.	3600	5200	8890	10440	13070	27750	52020
		min.	3400	4660	8450	9790	10670	25100	46190
Air flow	m ³ /h	max.	536	800	1419	1641	2401	4134	7985
		med.	528	721	1371	1575	2041	3676	7279
		min.	491	629	1282	1446	1560	3242	6246
Cooling water flow rate ⁽¹⁾	l/h	max.	484	777	1225	1459	1936	4200	7550
		med.	479	720	1197	1418	1736	3858	7081
		min.	454	650	1143	1336	1438	3517	6352
Heating water flow rate ⁽²⁾	l/h	max.	534	822	1335	1575	2165	4433	8166
		med.	527	758	1301	1526	1918	4042	7604
		min.	498	679	1237	1430	1562	3652	6736
Cooling water side pressure drops ⁽⁴⁾	kPa	13,4	19,9	28,3	27,7	23,9	34,4	36,4	
Pressure losses on the heating water side ⁽⁴⁾	kPa	13,1	18,1	27,1	26,1	24,0	31,1	34,5	
Number of battery ranks		3	3	3	3	3	4	4	
Useful static pressure	Pa	max.	52	42	55	56	70	122	121
		med.	50	34	50	50	50	100	100
		min.	44	26	44	42	29	76	77
Electrical supply		230V/1/50Hz							
Electrical absorption	W	162	218	322	340	582	1320	2600	
Current absorbed	A	0,74	1,00	1,47	1,55	2,65	6,01	12,05	
Sound power level ⁽⁵⁾	dB(A)	max.	61	58	66	66	66	74	75
		med.	60	56	65	65	67	69	70
		min.	58	55	62	63	63	64	65
Net weight	Kg	25	33	38	44	53	121	192	

Data collected under the following conditions:

(1) Cooling: inlet water temperature 7 °C - outlet water temperature 12 °C - inlet air temperature 27 °C D.B. - 19 °C B.w.

(2) Heating: inlet water temperature 45 °C - outlet water temperature 40 °C - inlet air temperature 20 °C

(3) Heating: inlet water temperature 50 °C - outlet water temperature 45 °C - inlet air temperature 20 °C

(4) Value referred to the maximum operating speed

(5) Sound power levels measured according to EN 16583: 2015