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WAU

General Features:

Multiple functions:

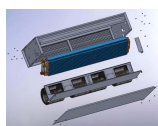
1) Pipe connection can be changed at site

If you have left pipe connection unit in your

Stock, if customers wants Right connection unit, you can remove out the coil from the unit and put back oppositely as above **sketch A**

2) 2 Pipe unit can be changed into 4 pipe unit at site. If you have 2 pipe unit in stock, then you can mount one additional hot water coil onto the main cooling coil, then it will become 4 pipe unit as above **sketch B**

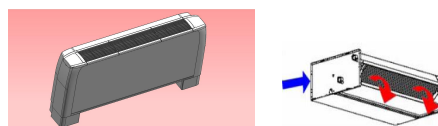
3) Remove the cabinet (4 screws on the top and 2 screws at the bottom), then the unit will become without concealed type. **Sketch C**



(A)



(B)



(C)

Casing:

Adopt strong synthetic lateral corners and adopt galvanized and pre-painted frontal steel sheet. The plastic top grid has fixed louvers and is reversible in order to distribute the air in two different directions. Inner casing is made from galvanized steel with closed cell insulation.

Standard color:

Lateral corners and top grid: Pantone Cool Grey 1C (light grey)

Frontal sheet: RAL 9010 (white)

Inner casing:

Made from galvanized steel with closed cell insulation.

Coil: Adopt seamless copper tube and High efficiency louvered coated aluminium fins expanded together, coil is designed by coil selection software and tested in factory performance test lab to guarantee the performance. Coil design is counter flow which makes higher efficiency. Tubes are manufactured from 9,5 mm (3/8") OD copper

Coil header: Adopt high quality brass with good design of less water pressure loss. Air vent is factory built in on the header part. Coil header connector OD for cooling coil is 3/4"(20mm) and coil header connector OD for heating water is 1/2"(15mm).

Fan blower: Adopt forward curved blades centrifugal fan which is dynamic and static balance tested .

Motor: Adopt three speed permanent type capacitance motor with easy capacitor maintenance design with 100% incoming test. 50Hz/60Hz AC motor both available. EC motor is available too.



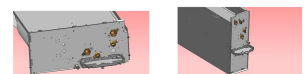
Filter: 3mm-5mm thick Washable nylon filter is for standard.
Easy insertion and removal of the filter.



Top air outlet grill: there is no screws to fix the grills which makes it is easy to remove the grills from the unit



External Drain tray: the drain pan is general used for vertical or horizontal installation which makes stock more easier and more saving.



Valve kits:

Flexible valve kits can be factory mounted. One valve kit can be used for Right connection unit or Left connection unit which makes the valve kits stock easier.



Nomenclature:

Mulan	WMU	V	02	C2 / D3	H1	L	50	R	F	A	EDP	EH20	CV2
1	2	3	4	5	6	7	8	9	10	11	12	13	14

- 1: Mulan: Universal fan coil unit
2. WMU: Mulan with cabinet WAU: Mulan without cabinet
3. V: 2 pipe P: 4 pipe
4. 02:model name
5. C2: 2 rows chilled water coil C3: 3 rows chilled water coil D3:3 rows DX coil
6. H1: 1row heating coil
7. L: left connection R: right connection
8. ESP: Blank: 0Pa 12: 12Pa(WAU) 30:30Pa(WAU) 50:50Pa(WAU) 60:60Pa(WAU)
9. R: front return plenum B: bottom return plenum
10. F: with filter Blank: no filter
11. A: 220V-1Ph-50Hz B: 220V-1Ph-60Hz E:EC motor (General use for 50Hz&60Hz)
12. EDP :with external drain pan
13. EH20: with 2 kw electric heater
14. CV2:2way cooling coil valve kits factory built in CV3: 3 way cooling coil valve kits factory built in
 HV2: 2way heating coil valve kits factory built in HV3:3way heating coil valve kits factory built in

Note: Pipe connection judging way, facing the air supply, if the pipe connection at the right side, then it is "Right"connection.

Performance data table(2ROWS 2PIPE)											
WMU/WAU			02	03	04	05	06	08	10	12	14
nominal air flow	H	m3/h	360	530	700	870	1030	1420	1740	2100	2400
	M		285	420	560	660	820	1120	1380	1600	1850
	L		210	310	420	510	590	790	1000	1180	1450
cooling capacity	H	kW	1.95	2.83	3.77	4.55	5.5	7.25	8.59	10.4	11.6
	M		1.7	2.5	3.3	4	4.9	6.5	7.5	9.3	10.3
	L		1.4	2	2.7	3.3	4	5.4	6.1	7.5	8.4
sensible cooling capacity	H	kW	1.5	2.0	2.5	3.1	3.6	5.0	5.9	7.2	7.8
	M		1.4	2.0	2.3	2.8	3.4	4.6	5.3	6.8	7.4
	L		1.2	1.8	3.0	2.5	2.8	4.0	4.7	5.7	6.2
heating capacity	H	kW	3.48	4.7	6.3	7.7	9.1	13.6	15.3	18.0	19.0
	M		2.9	3.9	4.8	6.4	7.6	10.6	12.1	14.6	16.6
	L		2.2	3.0	3.6	4.9	5.8	8.1	9.2	11.1	12.7
water flow		m3/h	0.336	0.486	0.648	0.78	0.948	1.248	1.476	1.788	1.998
noise level		dB(A)	39/37/35	41/39/37	43/41/39	45/43/41	47/45/43	48/46/44	50/48/46	52/50/48	54/52/50
MPS			AC 1φ-220V-50Hz								
power input		W	37	51	62	76	96	140	154	194	228
Water Pressure Drop		kPa	8	17	26	37	62	30	36	47	65
drain pipe OD		φ	15								
water tube OD	inlet	inch	3/4" FPT								
	outlet	inch	3/4" FPT								
dimension	length	mm	920	1020	1120	1220	1320	1520	1820	2020	2020
	width	mm	230								
	height	mm	630								

Note:

1. The above cooling capacity is under entering air temp 27°C DB/19.5 °C WB, chilled water inlet 7°C and water temperature difference is 5°C
2. The above heating capacity is under entering air temp 21°C DB and heating water inlet temp 60°C, water flow and air flow same as cooling mode
3. The above noise level is tested under back ground(<17dB(A))
4. MPT(Male Pipe Thread)-male screw FPT(Female Pipe Thread)-female screw
5. LPM:L/M, 1LPM=0.06m³ /h.
6. For WAU: ESP12/30/50/60Pa available

Performance data table(3ROWS 2 PIPE)											
WMU/WAU			02	03	04	05	06	08	10	12	14
nominal air flow	H	m3/h	340	510	680	850	1020	1360	1700	2040	2380
	M		270	400	540	670	810	1080	1360	1630	1900
	L		200	300	400	510	610	810	1000	1220	1430
cooling capacity	H	kW	2.15	3.13	3.92	4.75	5.63	7.25	9.29	11.16	12.69
	M		1.90	2.69	3.33	4.21	4.66	6.34	7.84	9.31	11.07
	L		1.50	2.11	2.65	3.43	3.78	5.15	6.37	7.57	8.92
sensible cooling capacity	H	kW	1.7	2.3	2.6	3.3	3.7	5.0	6.4	7.7	8.6
	M		1.5	2.1	2.3	2.9	3.2	4.4	5.6	6.8	7.9
	L		1.3	1.8	2.0	2.6	2.6	3.8	4.9	5.7	6.6
heating capacity	H	kW	3.5	4.80	6.68	8.03	9.39	13.0	15.92	19.0	20.52
	M		3.0	4.2	5.0	6.6	7.8	10.2	12.6	15.1	18.1
	L		2.3	3.3	3.8	5.0	6.0	7.8	9.6	11.5	13.8
water flow		m3/h	0.372	0.540	0.672	0.816	0.966	1.248	1.596	1.920	2.184
noise level		dB(A)	39/37/35	41/39/37	43/41/39	45/43/41	47/45/43	48/46/44	50/48/46	52/50/48	54/52/50
MPS			AC 1φ-220V-50Hz								
power input		W	35	48	61	75	94	134	152	189	226
Water Pressure Drop		kPa	12	23	16	24	30	25	19	30	40
drain pipe OD		φ	15								
water tube OD	inlet	inch	3/4" FPT								
	outlet	inch	3/4" FPT								
dimension	length	mm	920	1020	1120	1220	1320	1520	1820	2020	2020
	width	mm	230								
	height	mm	630								

Note:

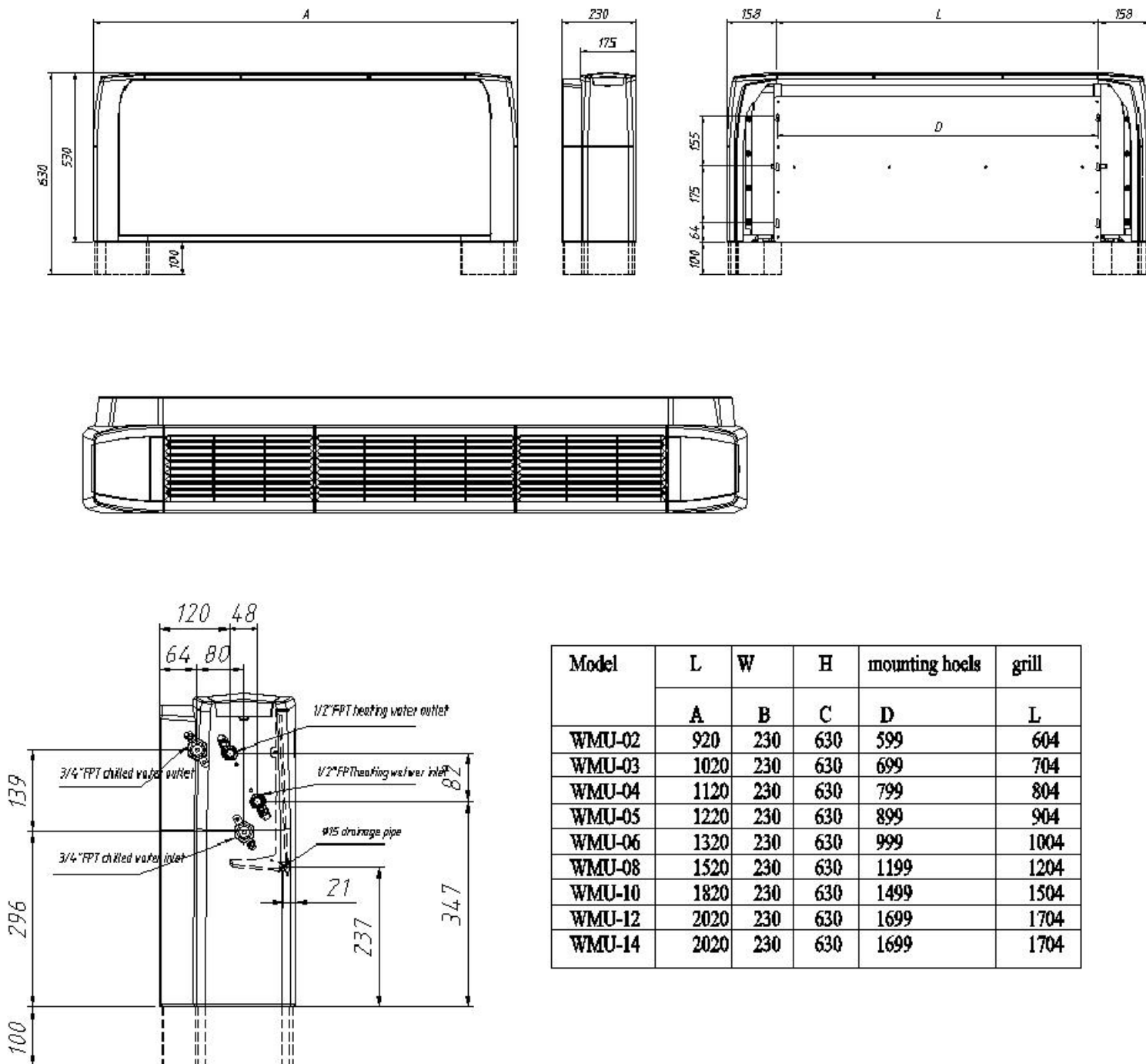
1. The above cooling capacity is under entering air temp 27°C DB/19.5 °C WB, chilled water inlet 7°C and water temperature difference is 5°C
2. The above heating capacity is under entering air temp 21°C DB and heating water inelt temp 60°C, water flow and air flow same as cooling mode
3. The above noise level is tested under back ground(<17dB(A))
4. MPT(Male Pipe Thread)-male screw FPT(Female Pipe Thread)-female screw
5. LPM:L/M, 1LPM=0.06m3 /h。
6. For WAU: ESP12/30/50/60Pa available

Performance data table(4ROWS 4 PIPE)											
WMU/WAU			02	03	04	05	06	08	10	12	14
nominal air flow	H	m3/h	320	490	650	810	980	1310	1630	1980	2300
	M		250	380	520	640	780	1040	1300	1570	1840
	L		190	290	380	490	590	780	960	1180	1380
cooling capacity	H	kW	2.15	3.13	3.92	4.75	5.63	7.25	9.29	11.16	12.69
	M		1.90	2.69	3.33	4.21	4.66	6.34	7.84	9.31	11.07
	L		1.50	2.11	2.65	3.43	3.78	5.15	6.37	7.57	8.92
sensible cooling capacity	H	kW	1.7	2.3	2.6	3.3	3.7	5.0	6.4	7.7	8.6
	M		1.5	2.1	2.3	2.9	3.2	4.4	5.6	6.8	7.9
	L		1.3	1.8	2.0	2.6	2.6	3.8	4.9	5.7	6.6
heating capacity(1 row coil)	H	kW	1.88	2.75	3.57	4.25	5.41	6.45	8.62	10.5	12.1
	M		1.6	2.3	3.0	3.6	4.5	5.4	7.2	8.8	10.2
	L		1.2	1.8	2.3	2.7	3.5	4.1	5.5	6.7	7.7
water flow(1 row coil)		m3/h	0.372	0.540	0.672	0.816	0.966	1.248	1.596	1.920	2.184
water pressure drop (1row coil)		kPa	12	23	16	24	30	25	19	30	40
noise level		dB(A)	39/37/35	41/39/37	43/41/39	45/43/41	47/45/43	48/46/44	50/48/46	52/50/48	54/52/50
MPS			AC 1φ-220V-50Hz								
power input		W	35	48	61	75	94	134	152	189	226
drain pipe OD		φ	15								
water tube OD	inlet	nch	3/4" FPT								
	outlet	inch	3/4" FPT								
dimension	length	mm	920	1020	1120	1220	1320	1520	1820	2020	2020
	width	mm	230								
	height	mm	630								

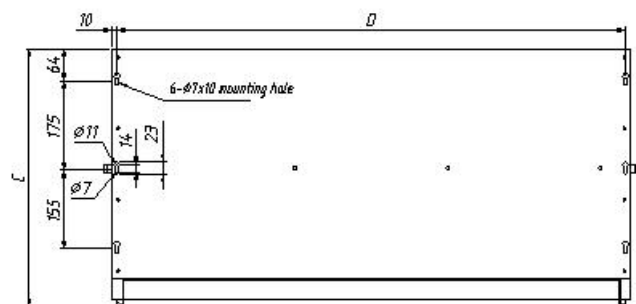
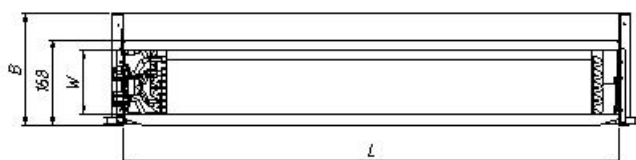
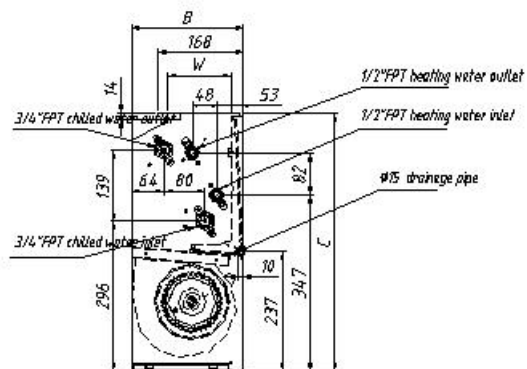
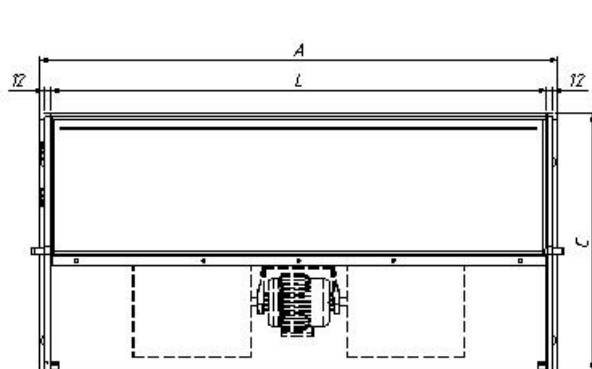
Note:

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2. The above heating capacity is under entering air temp 21°C DB and heating water inelt temp 60°C, water flow and air flow same as cooling mode
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4. MPT(Male Pipe Thread)-male screw FPT(Female Pipe Thread)-female screw
5. LPM:L/M, 1LPM=0.06m3 /h。
6. For WAU: ESP12/30/50/60Pa available

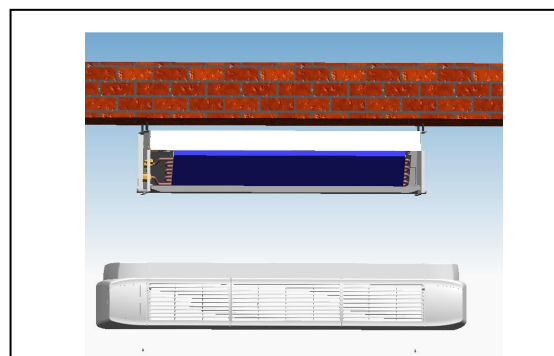
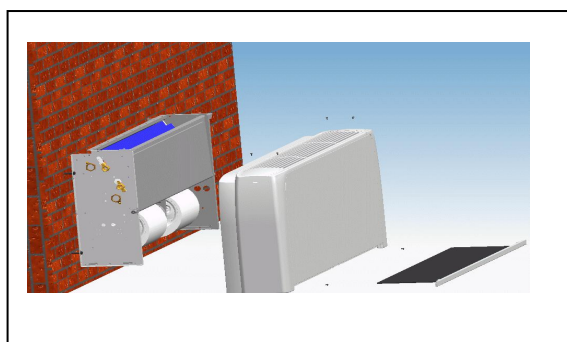
Dimension drawing (Mulan-WMU)



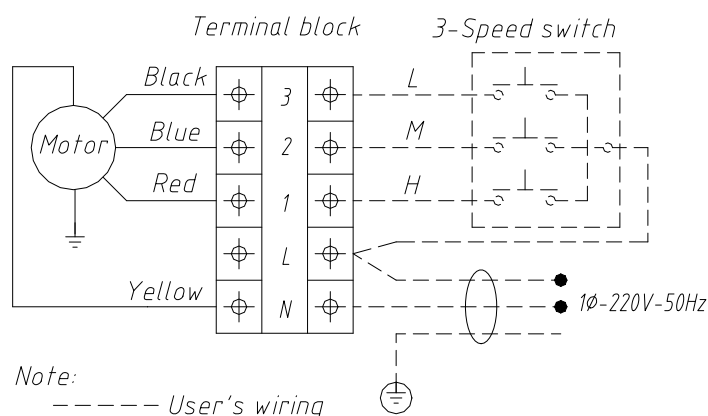
Dimension drawing (Concealed Mulan-WAU)



Model	L	W	H	mounting hole	grill	
	A	B	C	D	L	W
WAU-02	619	220	508	599	575	125
WAU-03	719	220	508	699	675	125
WAU-04	819	220	508	799	775	125
WAU-05	919	220	508	899	875	125
WAU-06	1019	220	508	999	975	125
WAU-08	1219	220	508	1199	1175	125
WAU-10	1519	220	508	1499	1475	125
WAU-12	1719	220	508	1699	1675	125
WAU-14	1719	220	508	1699	1675	125



Wiring Diagram



Optional parts introduction

Thermostat:



Dora

- 1) LCD display to show room temp, set point
- 2) heating/cooling/ventilation mode for selection
- 3) 3speed fan control/motorized valve control
- 4) remote control function for option
- 5) blue backlight for option
- 6) Auto restart for option



Patra

- 1) LCD display to show room temp, set point,full touch screen
- 2) heating/cooling/ventilation mode for selection
- 3) 3 speed fan control/motorized valve control
- 4) remote control function for option
- 5) wifi control for option 5)blue backlight for option
- 6) Auto restart for option
- 7) touch screen

Other kinds of thermostat: please contact Hammer for further information

Valve kits:



- 1) flexible mounting kits. Right connection and Left connection general used
- 2) CV2/CV3: 3/4"
HV2/HV3: 1/2"
- 3) Power supply: AC220V, 50Hz

Model	KV Value(Direct Way)m ³ /h	KV Value (m ³ /h)	Pressure (MPa)	Connecting Size
HV2/HV3	1.6	1	0.25	DN15
CV2/CV3	2.5	1.6	0.15	DN20

