AERMEC

air conditioning

WWM

Marketing Brochure

Aermec.us

WWM

Aermec's first stackable modular unit is here …

- Water to water chiller for indoor installation
- Up to 32 connectable units
- Max 2 levels of stackable units
- Compact module

Characteristics

Key Characteristics of the WWM

- WWM consists of independent 30.9 ton modules designs specifically to be fully accessible from only one side
- The modules can be linked together side by side, back to back, and stacked to reach a capacity of 960 tons
- The WWM's industry leading modular design and minimal clearance requirements result in footprints similar to traditional screw and centrifugal chillers which make them ideal replacements of old, inaccessible machines
- The WWM is equipped with motorized Hydronic valves and factory mounted differential flow switches for operation with variable flow and constant flow systems
- Each individual module is an independent indoor chiller for producing cooled water with high efficiency scroll compressors and plate type heat exchangers
- The base, structure, and paneling are load bearing elements made of galvanized steel treated with anti-corrosion paints, this allows the units to be stacked two levels high
- With WWM, you can combine up to 32 units designed to minimize the overall dimensions
- Thanks to its modular construction, the installation can be adapted to suit the specific system development needs whilst guaranteeing improved safety and reliability
- As a result, the cooling capacity can be easily increased over time at a limited cost

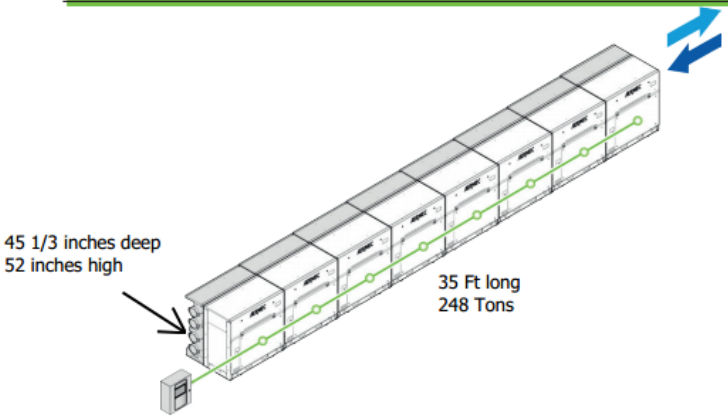
Characteristics

Key Characteristics of the WWM

- The modules are easy to install and link together hydraulically, via grooved pipe connections
- Optional power bar facilitating single point or multiple point electrical connections
- The WWM units are completely enclosed and sound proofed for industry leading sound levels
- WWM's chassis, containing all refrigeration components, can be disconnected from the piping assembly for service, maintenance, or replacement without impacting the operation of the remaining units
- Each module is capable of being operated and controlled as an individual chiller
- Each module has its own electrical panel and control logic
- Upon failure of a given module the remaining modules can continue to operate
- The controller is easily operated via a unit mounted LCD screen and multilanguage menu
- Each module manages and logs its own alarms
- WWM has butterfly shut-off valves on both hydraulic lines for disconnecting the circuit when maintenance needs to be carried out

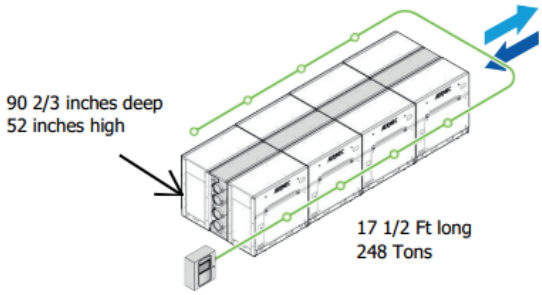
Modularity Options

CONFIGURATION 1: IN LINE



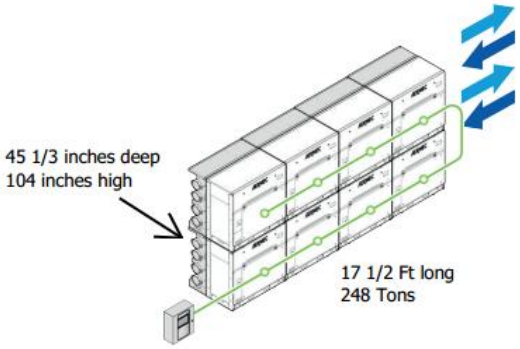
IN LINE:
Max. 8 WWM units.
1 Multichiller_EVO.

CONFIGURATION 2: BACK TO BACK



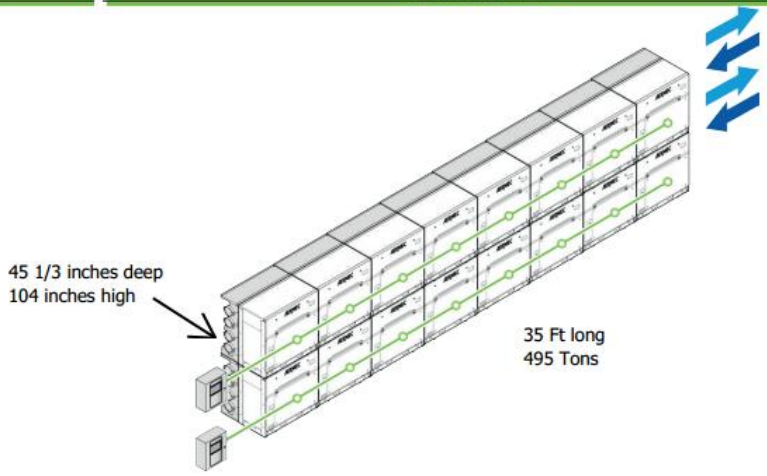
BACK TO BACK:
Max. 8 WWM units.
1 Multichiller_EVO.

CONFIGURATION 3.1: STACK IN LINE



STACK IN LINE:
Max. 8 WWM units, (4 WWM per stack).
1 Multichiller_EVO.

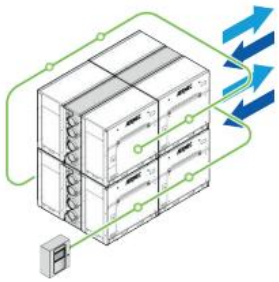
CONFIGURATION 3.2: STACK IN LINE



STACK IN LINE:
Max. 16 WWM units, (8 WWM per stack).
2 Multichiller_EVO.

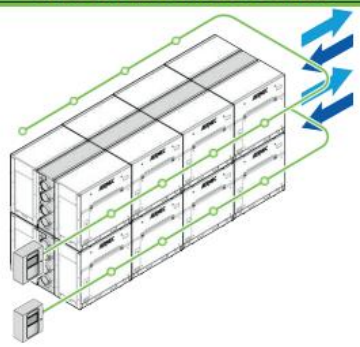
Modularity Options

CONFIGURATION 4.1: STACK IN LINE BACK TO BACK



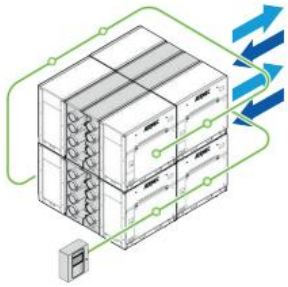
STACK IN LINE BACK TO BACK:
Max. 8 WWM units, (4 WWM per stack).
1 Multichiller_EVO.

CONFIGURATION 4.2: STACK IN LINE BACK TO BACK



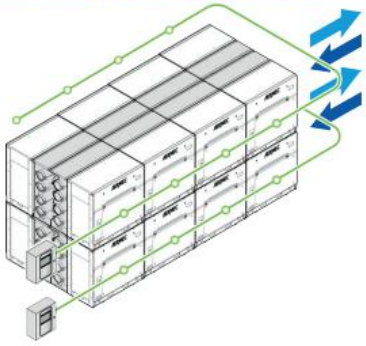
STACK IN LINE BACK TO BACK:
Max. 16 WWM units, (8 WWM per stack).
2 Multichiller_EVO.

CONFIGURATION 5.1: STACK IN LINE BACK TO BACK DOUBLE



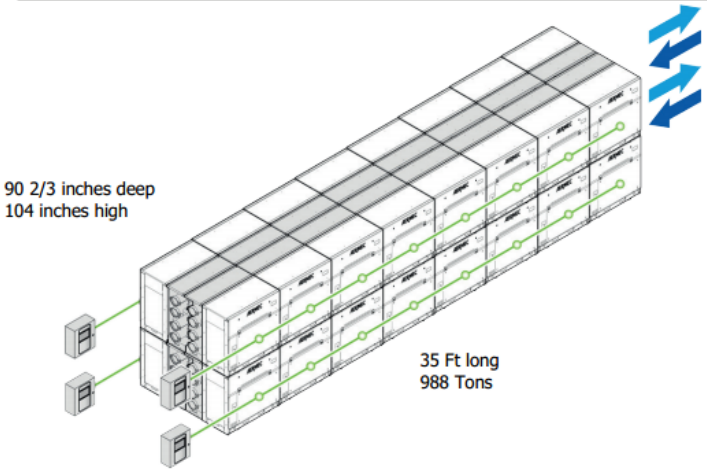
STACK IN LINE BACK TO BACK DOUBLE:
Max. 8 WWM units, (4 WWM per stack).
1 Multichiller_EVO.

CONFIGURATION 5.2: STACK IN LINE BACK TO BACK DOUBLE



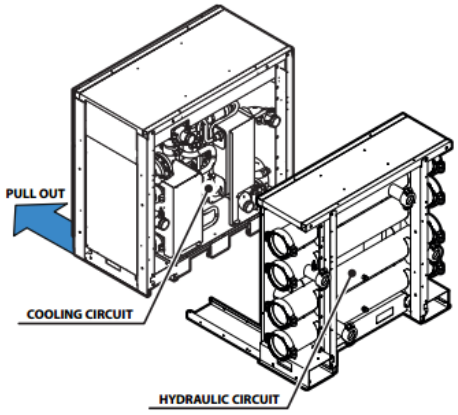
STACK IN LINE BACK TO BACK DOUBLE:
Max. 16 WWM units, (8 WWM per stack).
2 Multichiller_EVO.

CONFIGURATION 5.3: STACK IN LINE BACK TO BACK DOUBLE



STACK IN LINE BACK TO BACK DOUBLE:
Max. 32 WWM units, (16 WWM per stack).
4 Multichiller_EVO.

EASY MAINTENANCE



A module may be isolated from the system and the parts changed or the entire refrigeration circuit removed and replaced in one piece without shutting down any other modules

Technical Data

WWM		500
Cooling capacity	tons	30.9
Input power	kW	23
FL Input / Capacity	kW/ton	0.74
IPLV Input / Capacity	kW/ton	0,53
Evaporator water flow	gpm	74.1
Evaporator pressure drop	p.s.i.	2.7
Condenser water flow	gpm	96.2
Condenser pressure drop	p.s.i.	4.1

GENERAL DATA		
Electrical data		
Power supply		208-3-60
Total input current	A	107
LRA	A	416
MCA	A	130
MOP	A	186
Recomm. Fuse	A	175
Power supply		230-3-60
Total input current	A	97
LRA	A	404
MCA	A	125
MOP	A	181
Recomm. Fuse	A	175
Power supply		460-3-60
Total input current	A	47
LRA	A	210
MCA	A	61
MOP	A	88
Recomm. Fuse	A	80
Power supply		575-3-60
Total input current	A	37
LRA	A	156
MCA	A	55
MOP	A	79
Recomm. Fuse	A	75

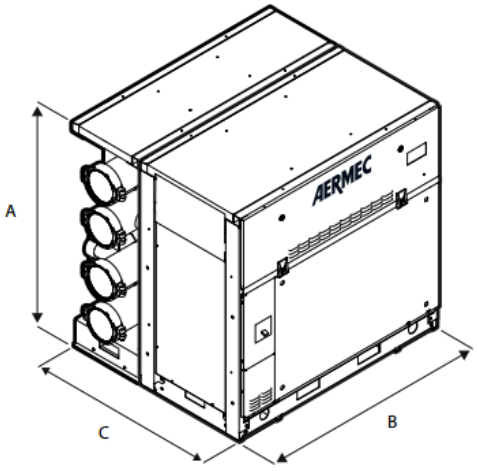
COOLING MODE: AHRI CONDITION std 550/551

(The data indicated can be modified at any time by Aermec if deemed necessary).

Technical Data

WWM		500
Compressors		
Type / nr.		Scroll / 2
Circuits		2
Capacity control	%	50-100
Refrigerant		R410A
Evaporator heat exchanger		0
Type / nr.		Plate / 1
Manifold connections	in	6"
Connection type		Victaulic
Condenser heat exchanger		
Type / nr.		Plate / 1
Manifold connections	in	6"
Connection type		Victaulic

Dimensions



WWM			Vers.	0500
Hight	in	A	All	52.0
Lenght	in	B	All	52.4
Width	in	C	All	45.3
Weight	lbs	-	All	1490.3

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