



## LAAWHTMM 50-60-80-100

Cooling capacity: 50-101.3 kw

Heating capacity: 56-106.3 kw

## FEATURES

### STRUCTURE

The master module can work independently or together with up to 15 slave modules, cooling capacity from 50 to 868 kw.

### HERMETIC COMPRESSORS

3-phase scroll type compressor  
overload cut-out and crankcase heater, mounted on rubber vibration dampers.

### AXIAL FANS

External rotor direct drive motors, low noise 8 poles, protection level IP54, provided with a protective outlet grille.

### EVAPORATOR

Evaporator built with high efficiency exchanger, factory insulated with flexible close cell material.

### CONDENSER

Condenser built with seamless internal screw thread copper mechanically expanded into blue wave hydrophilic aluminum fins.

### REFRIGERANT

Refrigerant circuit complete with sight glass, gas-liquid separator, thermostatic expansion valve, high & low pressure switch. The heat pump unit is completed also with 4-way valve, liquid receiver and one way valve.

### HYDRAULIC CIRCUIT

Hydraulic circuit built with galvanized pipe, complete with water discharge connection for tube in tube heat exchanger and flange type hydraulic connectors in two directions easy for connections from both sides of the units.

### ELECTRIC PANEL

Electric panel consists of: Compressor contactor, fan motor contactor, compressor protection breaker, fan protection breaker, phase sequence relay and microprocessor with function display (display only for master/package unit).

Automatic operation dramatically reducing maintenance cost thanks to reliable microprocessor system.

### OPTIONAL

- Paddle flow switch
- Metallic filter for hydraulic circuit
- Water pump
- Rubber anti-vibration mounting
- BMS
- Stainless steel covering
- Heat recovery 20%~25%
- Copper fin

## NOMENCLATURE

LA AW H C T MM 10  
① ② ③ ④ ⑤ ⑥ ⑦

- ① LA: ATD air product  
② Unit type  
AW: Air to Water  
AA: Air to Air  
WA: Water to Air  
WW: Water to Water

- ③ C: Cooling only  
H: Heat pump  
④ Refrigerant type  
A: R410a  
B: R134a  
C: R407c  
⑤ Type of heat exchanger  
T: Tube in Tube type  
P: Plate type

- ⑥ Modular type  
MM: Modular Master  
MS: Modular Slave  
⑦ Model

## TECHNICAL DATA

Model LAAWHTMM		50	60	80	100
<b>Capacity</b>					
Cooling	kW	50	60	79	101.3
Heating	kW	54	66	83.1	106.3
<b>Compressor</b>					
Qty/refrigerant circuit	Nr.	2	2	2	2
Cooling power input*	kW	8.3×2	11.5×2	13.1×2	10.5×3
Heating power input**	kW	12.25×2	12.9×2	13.6×2	10.2×3
Energy adjustment	%	0-50-100			
<b>Axial fan</b>					
Quantity	Nr.	2	2	2	3
Air flow	m <sup>3</sup> /h	24000	30000	42000	48000
<b>Evaporator</b>					
Type	/	Tube in tube heat exchanger			
Water flow	m <sup>3</sup> /h	8.6	10.3	13.76	17.2
<b>Water side pressure drop</b>	kPa	43	49	39	38
<b>Power supply</b>	/	400V/3Ph/50Hz			
<b>Noise level</b>	dB(A)	66	71	71	73
<b>Dimensions</b>					
Length	mm	1840	2200	2200	3000
Width	mm	1070	1150	1420	1100
Height	mm	1150	1900	2015	2015
<b>Net weight</b>	kg	510	670	1000	1240

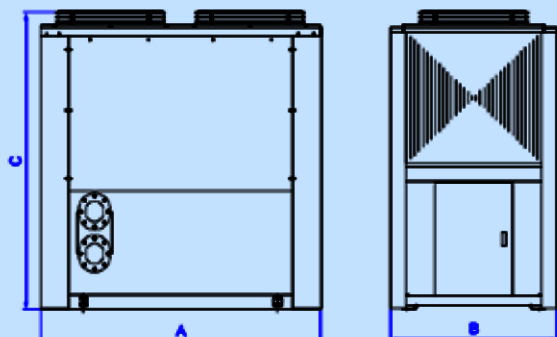
\* Ambient temperature 35°C ; evaporator water in/out 12/7°C ;

\*\* Ambient temperature DB 7°C , WB 6°C ; condenser water in/out temperature 40/45°C ;

\*\*\* In the nominal water flow condition the pressure drop is between this range;

\*\*\*\* Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a dear field (fan side).

## OVERALL DIMENSIONS



Mod.	50	60	80	100
<b>A</b>	1840	2200	2200	3000
<b>B</b>	1070	1150	1420	1100
<b>C</b>	1150	1900	2015	2015

The technical data in this documents are not binding. ATD air reserves the right to make whatever modifications it deems necessary to improve the product at any time.

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