

# AT Series Fresh-Air Make-Up Air Handlers

## Help Keep Air Inside the Vessel From Going Stale



AT18HV-MU

The AT series of fresh-air make-up air handlers (AT-MU) for chilled water systems duct in outside air, cool and dehumidify it, then re-heat it to room temperature and duct it to various interior spaces. Typically, crew cabins and other spaces two or more levels below deck will benefit from the use of these systems.

AT-MU air handlers consist of a water coil, valve, electric heater, and blower mounted on a condensate pan/chassis with cushioned mounts to reduce noise and vibration.

The specially-designed water coil cools and dehumidifies outside air in one pass. The coil, as well as the blower and all exposed sheet metal components, is coated to resist corrosion. A motorized three-way bypass valve controls the flow of circulated water through the coil. The high-velocity (HV) blower has a high-efficiency internal motor, and can be rotated as required for installation (brushless "WhisperCool" DC blowers are available). An electric heater with redundant over-temperature protection reheats the cooled air to room temperature.

The sloped "positive-flow" condensate pan reduces standing water and is lined with anti-fungal and anti-slosh foam. The blower, condensate pan, and other exposed areas are insulated against secondary condensation. An optional modulating loop-water flow control regulates the water through the unit to ensure proper water distribution to all air handlers.

### Key Benefits

- Compact design
- Corrosion-resistant coating on evaporator coil and blower
- Positive-flow drain pan is lined with anti-fungal and anti-slosh foam
- Insulated against secondary condensation
- Rotatable high-efficiency blower with internal motor
- Integrated three-way bypass valve with easy-to-change power head
- Electric heat with two-stage electric heat overload
- Heater assembly is accessible from top or side
- Large coil shroud volume for optimal performance
- Brass hose barbs for loop water connections included
- Remote air bleeder on 6 ft. (1.8 m) of flexible tubing with ball valve
- Water pressure test ports
- Modulating flow control ensures proper water distribution
- Hose adapter for round flex duct connection included

## Technical Specifications for AT-MU Series

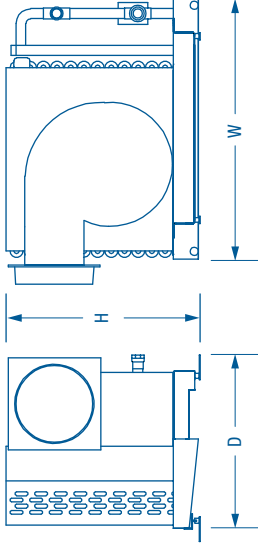
MODEL <sup>1)</sup>	AT18HVZ-1.5KW-MU	AT24HVZ-2KW-MU	AT36HVZ-3KW-MU
Capacity (BTU/hr)	17,000	27,000	53,000
Capacity (Kcal/hr)	4,284	6,804	13,356
Voltage	230	230	230
Cycle/Phase	50 or 60Hz/1	50 or 60Hz/1	50 or 60Hz/1
Full Load Amps	7.4	9.5	14.8
Max. Fuse	10	10	20
Min. Circuit Ampacity	8	10	16
Electric Heat (kW)	1.5	2.0	3.0
Water Flow (gpm/lpm)	4.5/17.0	6.0/22.7	9.0/34.1
Air Flow (cfm/cmh)	174/296	276/469	550/935
External Static Pressure (in. H2O/eq. Pa)	0.72/180	0.36/90	0.75/190
Height (in/mm)	15.0/380	16.6/422	19.5/495
Width (in/mm) <sup>2)</sup>	20.3/514	22.6/575	26.6/676
Depth (in/mm) <sup>2)</sup>	12.3/311	15.3/387	18.0/457
Supply Air Duct Ø (in/mm)	5.0/125	6.0/150	8.0/200
Return Air Inlet (sq. in./sq. cm.)	100/645	140/900	220/1,400
Loop Water Connections (in.)	0.5 FPT with brass hose barb	0.5 FPT with brass hose barb	1.0 FPT with brass hose barb
Drain Pan Connections (in.)	0.5 FPT with PVC hose barb	0.5 FPT with PVC hose barb	0.5 FPT with PVC hose barb
Net Weight (lbs./kg.)	34.0/15.5	41.0/18.6	63.0/28.6
Gross Weight (lbs./kg.)	38.0/17.3	55.0/25.0	69.0/31.4

### Notes:

<sup>1)</sup> Interpreting model numbers: AT = AT-style air handler; 18 = BTU/hr capacity X 1,000; HV = high-velocity blower (DC = optional brushless DC blower); Z = 230V; -FC = add for optional flow control; -1.5KW = amount of electric heat; -MU = fresh-air make-up; -R = valve on right (blank = valve on left); 90 = angle of blower orientation (blank = 0° horizontal discharge)

<sup>2)</sup> Cushioned mounting "feet" add 1.1 in./28 mm to both sides of depth when rotated outwards. When rotated inwards, maintain overall dimensions listed above.

## Dimensions Drawing



Dealer:



**DOMETIC GROUP, MARINE DIVISION**  
 2000 N. Andrews Ave. Ext. | Pompano Beach, FL 33069 USA  
 Tel. 954-973-2477 | Fax 954-979-4414  
 www.DometicUSA.com | MarineSales@DometicUSA.com

**24/7 TECHNICAL SUPPORT FOR UNITED STATES & CANADA**

8:00 AM to 5:00 PM Eastern Time; 800-542-2477 | After hours and weekends: 888-440-4494

**INTERNATIONAL SALES & SERVICE**

Europe & Middle East: Call +44(0)870-330-6101 | All other areas find the nearest distributor at [www.dometic.com/marinedealers](http://www.dometic.com/marinedealers)

L-2404 Rev. 20110609

Specifications and availability subject to change without notice