

AT-DC Series Air Handlers

Compact Units With DC "WhisperCool" Blowers



The AT-DC series of chilled water air handlers represents the new standard in marine HVAC engineering that you'll barely notice. Thanks to "WhisperCool" technology, the AT-DC series harnesses engineering refinements to eliminate the annoying "motor hum" heard from ordinary air handlers operating at very low fan speeds. Incoming alternating current is converted to drive a brushless DC internal blower motor, resulting in super-quiet and highly-efficient performance across all fan speeds.

Additional design changes in the air handlers eliminate condensate drain problems, reduce dripping condensation and standing water issues. An improved coil enhances cooling and dehumidification performance. The redesigned unit also creates easily accessible water-pressure test points for troubleshooting and maintenance.

All Marine Air air handlers use corrosion-resistant materials. They feature "positive-flow" drain pans with anti-slosh foam lining and are fully insulated against secondary condensation. Electric heat is optional.

Key Benefits

- DC "WhisperCool" blowers are extremely quiet yet powerful enough to overcome high-static-pressure duct
- Improved cooling and dehumidification
- Drain pan has anti-slosh, anti-fungal foam lining
- Vibration-isolation mounts reduce noise and vibration.
- Exposed components are insulated against secondary condensation
- Remote air bleeder on 6 ft. (1.8 m) of flexible tubing with ball valve
- Electrical box can be remotely mounted up to 6 ft. (1.8 m)
- Rotatable blowers
- Optional flow control automatically balances circulated water throughout the system
- Optional Electric Heat
- Optional Breathe Easy™ microparticle air filter

Specifications for AT-DC Series Air Handlers

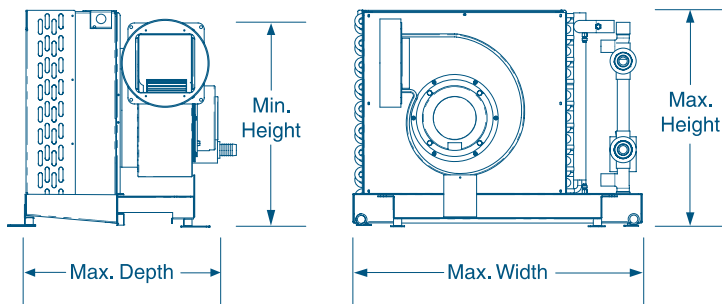
Model ⁽¹⁾	AT6DC	AT9DC	AT12DC	AT18DC	AT24DC	AT36DC
Nominal Capacity - Cool (BTU/h)	6000	9000	12000	18000	24000	36000
Nominal Capacity - Heat (BTU/h)	3412	3412	5118	5118	10236	10236
Voltage @ 50/60Hz 1-Ph (V)	230	230	230	230	230	230
Full Load Amps (FLA) Cool (A) ⁽²⁾	1.4	1.4	3.2	3.9	3.9	3.9
Full Load Amps (FLA) Blower (A)	1.4	1.4	3.2	3.9	3.9	3.9
Optional Electric Heat (kW)	1	1	1.5	1.5	3	3
Heater Amps (A)	4.3	4.3	6.5	6.5	13	13
Max. Circuit Breaker (A)	5	5	5	5	5	5
Min. Circuit Ampacity (A)	2	2	4	5	5	5
Water Flow (gpm/lpm)	1.5/5.7	2.25/8.6	3/11.4	4.5/17.1	6/22.8	9/34.1
Air Flow (cfm/m ³ h)	200/340	300/510	400/680	600/1020	700/1190	800/1360
External Static Pressure	2.9/722.1	2.8/697.2	2.6/647.4	2.1/522.9	1.4/348.6	0.5/124.5
Min. Height (in/mm) ⁽³⁾	11.08/282	11.79/300	12.05/307	14.83/377	16.7/425	16.74/426
Max. Height (in/mm) ⁽³⁾	13.63/347	13.73/349	13.94/355	16.94/431	16.7/425	19.74/502
Max. Width (in/mm) ⁽³⁾	14.81/377	16.48/419	18.75/477	20.08/511	22.48/571	26.41/671
Max. Depth (in/mm) ⁽³⁾	14.27/363	14.55/370	14.49/369	14.83/377	16.42/418	17.15/436
Drain Connection Size (in)	½	½	½	½	½	½
Drain Connection Type	FPT	FPT	FPT	FPT	FPT	FPT
Chilled Water Connection Size (in)	½	½	½	½	½	½
Chilled Water Connection Type	FPT	FPT	FPT	FPT	FPT	FPT
Min. Supply Duct Size (in/mm)	5/127	6/153	6/153	7/178	8/204	8/204
Min. Supply Air Grille Size (sq in/sq cm)	35/226	49/317	70/452	100/646	140/904	196/1265
Min. Return Air Grille Size (sq in/sq cm)	70/452	98/633	130/839	200/1291	240/1549	360/2323
Height-Electrical Box (in/mm)	8/204	8/204	8/204	8/204	8/204	8/204
Width-Electrical Box (in/mm)	6.13/156	6.13/156	6.13/156	6.13/156	6.13/156	6.13/156
Depth-Electrical Box (in/mm)	2/51	2/51	2/51	2/51	2/51	2/51

¹ 'Z' indicates 230V. Add '-FC' for optional flow control; add '-LX' or '-RX' for valve position (relative to the blower side of the coil) and angle of the blower ('-R0' is the default); add '#KW' for amount of optional electric heat in kilowatts.

² Blower amps will be reduced at lower speed/cfm or higher static pressure. Amps listed are at free air.

³ All dimensions ± 0.30 in. (8 mm).

Dimensions



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