

AT-HV Series Air Handlers

Compact Units With High-Velocity Blowers



The AT-HV series of air handlers for marine HVAC chilled water systems are draw-through (ducted) units with high-velocity (HV) blowers. The AT-HV series replaces Flex-Duct and Draw-Through series air handlers, and has many improvements and options over the older units.

Significant improvements include: sloped "Positive-Flow" drain pan which reduces standing water, larger drain connections, improved coil design for better cooling and dehumidifying performance, coil is offset from drain pan edge to ensure all condensation is caught in the pan, redesigned piping so the bypass valve is clear of dripping condensation, pressure test ports for troubleshooting, and the new 24,000 BTU/hr unit uses a high-efficiency, internal-motor blower for quieter operation. On units with auxiliary (electric) heat, the new heater design allows removal from the top or side for access or servicing.

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.

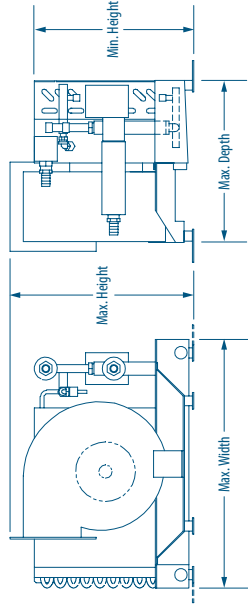
AT air handlers are available with "WhisperCool" brushless DC blowers (AT-DC series).

Key Benefits

- Compact design
- High-velocity (HV) fully-insulated blowers are rotatable
- Improved cooling and dehumidification
- Drain pan has anti-slosh, anti-fungal foam lining
- Vibration-isolation mounts reduce noise and vibration.
- Exposed sheet metal is 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)
- Water-pressure test ports for troubleshooting
- Allowance for connecting variable fan-speed drives
- Rotatable blowers
- Optional flow control automatically balances circulated water throughout the system
- Optional Electric Heat
- Optional Breathe Easy™ microparticle air filter

Specifications for AT-HV Series Air Handlers

Dimensions



Model ⁽¹⁾	AT4HV	AT6HV	AT9HV	AT12HV	AT18HV	AT24HV	AT36HV
Nominal Capacity - Cool (BTU/h)	4000	6000	9000	12000	18000	24000	36000
Nominal Capacity - Heat (BTU/h)	TBD	3412	5118	6824	10236	10236	13648
Voltage @ 50/60Hz ± Ph (V)	115 230	115 230	115 230	115 230	115 230	115 230	230
Full Load Amps (FLA) Cool (A)	1.06 0.41	1.6 0.9	1.1 0.6	1.5 0.7	2.3 1.18	2.3 1.15	1.62
Full Load Amps (FLA) Blower (A)	0.8 0.4	1.2 0.6	1.4 0.7	1.4 0.7	2.2 1	2.2 1	1.6
Optional Electric Heat (kW)	N/A	1 1.5	2 2	3 3	4 4	5 5	5 5
Max. Circuit Breaker (A)	2 2	2 2	2 2	2 2	3 3	3 3	3 3
Min. Circuit Ampacity (A)	1/3.8	1/5.7	2/3.8	3/11.4	4/5.17.1	6/22.8	9/34.1
Water Flow (gpm/lpm)	130/221	229/390	278/473	338/575	465/791	506/860	676/1149
External Static Pressure (inH ₂ O/Pa)	0.3/74.7	0.3/74.7	0.3/74.7	0.3/74.7	0.3/74.7	0.3/74.7	0.3/74.7
Min. Height (in/mm) ⁽²⁾	9.75/248	10.25/261	12.13/309	12.05/307	15/381	15.94/405	19.75/502
Max. Height (in/mm) ⁽²⁾	9.75/248	11.25/286	13.31/339	13.88/353	15/381	15.94/405	19.75/502
Max. Width (in/mm) ⁽²⁾	15/381	15.25/388	16.88/429	18.75/477	20.38/518	22.63/575	26.63/677
Max. Depth (in/mm) ⁽²⁾⁽³⁾	10.25/261	12.38/315	12.13/309	12.38/315	13.5/343	15/381	15.81/402
Drain Connection Size (in)	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Drain Connection Type	FPT	FPT	FPT	FPT	FPT	FPT	FPT
Chilled Water Connection Size (in)	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Chilled Water Connection Type	FPT	FPT	FPT	FPT	FPT	FPT	FPT
Min. Supply/Air Grille Size (sq in/sq cm)	32/207	35/226	49/317	70/452	100/646	140/904	196/1265
Min. Return Air Grille Size (sq in/sq cm)	64/413	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	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	6.13/156
Depth-Electrical Box (in/mm)	2/51	2/51	2/51	2/51	2/51	2/51	2/51

¹ Model numbers shown are for 115V units with high-velocity (HV) blowers. Add a 'Z' for 230V units; add '-FC' for optional flow control; add '-L...' or '-R...' for valve position (relative to the coil) and angle of the blower; add '...' kW for amount of optional electric heat in kilowatts (for ex. 1.5kW). See DWG H3050002 for a visual explanation of valve orientation and blower angle.
² All dimensions ± 0.30 in. (8 mm).
³ Max. depth for AT36HV with flow control option. Reduce by 1.75 in. (45 mm) without flow control.

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L-2355 Rev. 20140530

Specifications and availability subject to change without notice.

Dealer

