

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

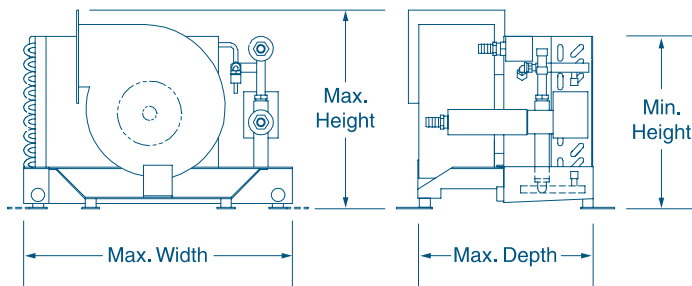
Model ⁽¹⁾	AT4HV		AT6HV		AT9HV		AT12HV		AT18HV		AT24HV		AT36HV
Nominal Capacity - Cool (BTU/h)	4000		6000		9000		12000		18000		24000		36000
Nominal Capacity - Heat (BTU/h)	TBD		3412		5118		6824		10236		10236		13648
Voltage @ 50/60Hz 1-Ph (V)	115	230	115	230	115	230	115	230	115	230	115	230	230
Full Load Amps (FLA) Cool (A)	1.06	0.41	1.6	0.83	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		3		3		4
Max. Circuit Breaker (A)	5		5		5		5		5		5		5
Min. Circuit Ampacity (A)	2	1	2	1	2	1	2	1	3	2	3	2	3
Water Flow (gpm/lpm)	1/3.8		1.5/5.7		2.3/8.8		3/11.4		4.5/17.1		6/22.8		9/34.1
Air Flow (cfm/m ³ h)	130/221		229/390		278/473		338/575		465/791		506/860		676/1149
External Static Pressure	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)	½		½		½		½		½		½		½
Drain Connection Type	FPT		FPT		FPT		FPT		FPT		FPT		FPT
Chilled Water Connection Size (in)	½		½		½		½		½		½		½
Chilled Water Connection Type	FPT		FPT		FPT		FPT		FPT		FPT		FPT
Min. Supply Duct Size (in/mm)	4/102		5/127		6/153		6/153		7/178		8/204		8/204
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.

Dimensions



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