

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.

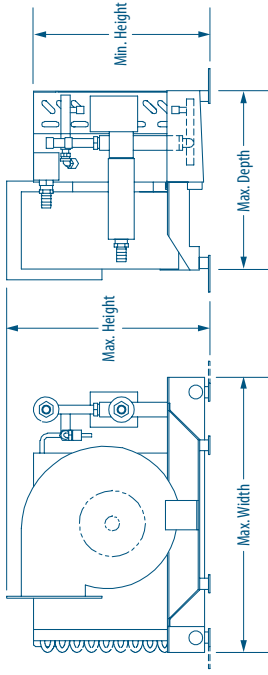
Specifications for AT-HV Series Air Handlers

Model ⁽¹⁾	AT4HV	AT6HV	AT9HV	AT12HV	AT18HV	AT24HV	AT36HV	AT48HV	AT60HV
Nominal Capacity - Cool (BTU/h)	4000	6000	9000	12000	18000	24000	36000	48000	60000
Nominal Capacity - Heat (BTU/h)	TBD	3412	5118	6824	10236	13648	20472	27296	34120
Voltage @ 50/60Hz 1-Ph (V)	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	0.7	2.3	1.15	2.0
Full Load Amps (FLA) Blower (A)	0.8	0.4	1.2	0.6	1.4	0.7	2.2	1.1	1.6
Optional Electric Heat (kW)	N/A	1.5	1.5	2	3	3	4	5	5
Max. Circuit Breaker (A)	2	2	2	2	3	3	4	5	5
Min. Circuit Ampacity (A)	2	2	2	2	3	3	4	5	5
Water Flow (gpm/lpm)	173.8	1.5/5.7	2.3/8.8	3.1/11.4	4.5/17.1	6.2/22.8	8.3/30.1	10.4/38.6	12.5/45.1
Air Flow (cfm/m ³ /h)	130/220.9	229/389.1	278/472.4	338/574.3	465/790.1	506/859.7	676/1148.6	828/1452.5	973/1706.4
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	0.3/74.7	0.3/74.7
Min. Height (in/mm) ⁽²⁾	10.1/257	10.1/257	11.9/303	12.05/307	14.96/380	16.61/422	19.5/496	22.63/575	26.63/677
Max. Height (in/mm) ⁽²⁾	10.1/257	12.63/321	13.25/337	13.88/353	16.5/420	16.68/424	19.5/496	22.63/575	26.63/677
Max. Width (in/mm) ⁽²⁾	14.8/376	15/381	16.63/423	18.75/477	20.25/515	22.63/575	26.63/677	31.5/800	36.4/925
Max. Depth (in/mm) ⁽²⁾	8.8/224	8.8/224	12.5/318	12.5/318	12.25/312	15.25/388	18/458	21.5/546	24.5/622
Drain Connection Size (in)	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Drain Connection Type	FPT	FPT	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	1/2	1/2
Chilled Water Connection Type	FPT	FPT	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	8/204	8/204
Min. Supply Air Gills Size (sq in/ sq cm)	32/207	35/226	49/317	70/452	100/646	140/904	196/1265	272/1706	360/2332
Min. Return Air Gills Size (sq in/ sq cm)	64/413	70/452	98/633	130/839	200/1291	240/1549	360/2332	480/3110	600/3896
Height-Electrical Box (in/mm)	8/204	8/204	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	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	2/51	2/51

¹ Model numbers shown are for 115V units with high-velocity (HV) blowers. Add a "7" for 230V units; add "-FC" for optional flow control; add "-L", "-R", or "-V" for valve position (relative to the blower side of the coil) and angle of the blower ("R" is the default); add "___kW" for amount of optional electric heat in kilowatts (for ex. 1.5kW).

² All dimensions ± 0.30 in. (8 mm).

Dimensions



Dealer



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

24/7 TECH SUPPORT FOR UNITED STATES & CANADA:
 8:00 AM to 5:00 PM Eastern Time: 800-542-2477
 After hours and weekends: 888-440-4494

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 Europe & the Middle East: Call +44(0)870-330-6101
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Specifications and availability subject to change without notice.