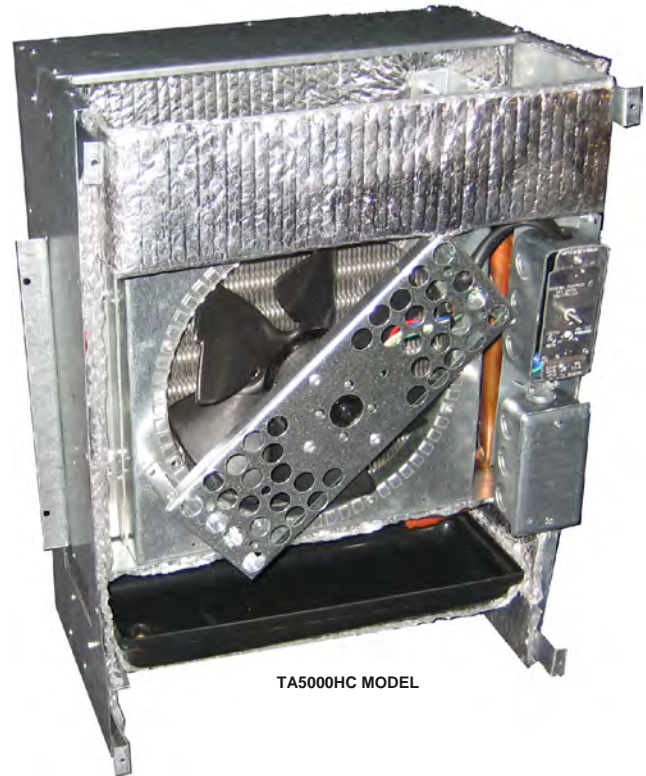


TURBO-AIRE™ WALL MOUNTS

Model Numbers
TA5000H TA5000HC
TA10000H TA10000HC

Turbo-Aire™ Heating & Heating/Cooling Wall Mounts



Heating / Heating & Cooling Wall Mounts

This hot new Heating and Heating/Cooling hydronic fan coil from Turbonics, Inc. is really cool! Built with long proven quality and reliability that is a tradition, Turbonics, Inc. introduces the Turbo-Aire™ product line designed to eliminate ducting systems using Micro-Zonal™ comfort technology that gives you the freedom and flexibility to heat and cool each area of your home or business independently. The unit comes in two sizes and two models. The TA5000H and the TA10000H are heating only models with heating capacity from 4,800 to 36,000 BTU/HR. The TA5000HC and the TA10000HC are both heating/cooling models with capacity from 1/3 to 1 full Ton. Designed as replacement to many popular but aging fan coils, such as Burnhams' Duo-Rad™, the Turbo-Aire™ series is quiet, efficient and dependable. Using a state of the art copper and aluminum core specially designed to extract the maximum amount of heating and cooling, the Turbo-Aire™ wall mounts can provide perfect thermal comfort in every room of the house, from the smallest to the largest and everything in between. Check out the long list of features:

TURBO-AIRE™ SERIES FEATURES & BENEFITS

- Highest Quality Four Pole Shaded Motor for long dependable motor life
- Highly efficient Copper & Aluminum core for maximum output capacity
- Units include a cleanable and replaceable filter to protect unit from dust
- Factory-Wired Variable Speed Fan Control for smooth quiet operation
- Solid rugged motor mount will not shift or float during shipping
- * Heat Only units feature a Factory-Wired Aquastat for simple fan activation
- Units feature Non-Fibrous cabinet insulation for noise attenuation
- Cooling Units have a double layer of insulation for condensation control
- Cooling Units have an insulated plastic condensate drain pan
- Condensate Drain Pan has a swivel connection for installation ease
- Top Air Discharge allows more convenient placement options in room
- Units can be conveniently mounted on studs or over existing sheet rock
- Designed as a direct replacement for noisy Burnham Duo-Rad™ fan coils
- Attractive cabinet can be painted to match any room decor
- Full 5 year Limited Factory Warranty is one of the best in the industry

<http://www.turbonicsinc.com>

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* * Innovation is an American Tradition * *

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Units use L/ASTM B75 type copper and have been IAPMO tested and passed ANSI/NSF 61 section 4 and are suitable for use with residential potable water

Turbonics

I. INSTALLATION: General

A. The TURBO-AIRE™ Series Fan Coils are Hydronic Forced Air Heating & Cooling units suitable for connection to Potable Water hot or chilled water supply at any pressure up to 125 P.S.I. Maximum water temperature should not exceed 200 Deg. F. The amount and temperature of water flowing through the unit determine heating & cooling output.

B. Building codes and plumbing regulation may vary. Check local codes and regulations before determining proper application and installation.. (See Application Manual)

C. Unit is designed to be mounted over or under sheetrock, at least 6" off the floor. Mounting brackets may be flipped to mount on top of drywall and cover will fit with "on" drywall mount.

D. Heating/Cooling unit models are supplied with a factory insulated plastic condensate Drain Pan which features a swivel fitting connection.

II. PIPING: General

A. The piping to the unit will usually be copper or any other locally approved piping. Accessible 1/2" threaded fittings are provided on the unit itself. With Heat/Cool models, piping connections to the unit are made with the Drain Pan removed for better access to the connections. After the connections are made the Drain Pan must be put back into place. The installer must assure proper placement to avoid condensation leaks.

B. All piping system should be designed by a technician with experience in the various piping arrangements that work with this type of unit. All supply & return piping and condensate drain line piping enters the unit from below. (See Figure 1)

C. As with any system employing circulated water, the pipes passing through unheated spaces should be insulated. Systems using chilled water systems must assure that all piping and connections are adequately and properly insulated to prevent condensation "sweating".

D. When using mono-flo or "venturi" fittings, we suggest placement of a ball valve just after the supply take-off and before the return is connected.

III. PIPING - HOT WATER BOILER

A. The unit supply line should be taken from the boiler side beyond any flo-control valve. If the system being used is a gravity-flow or cast-iron hot water system, a separate circuit must be installed.

IV. PIPING - WATER HEATER:

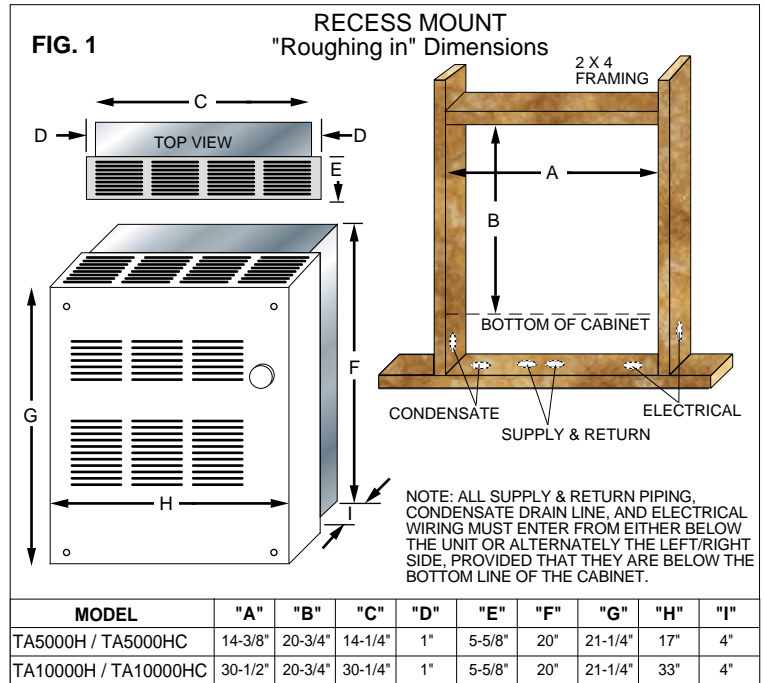
A. To install correctly, a technician with knowledge of piping arrangements and back-flo valves must design the piping system.

V. WIRING THE UNIT:

A. A field wiring box is provided in the unit. Connect wires at this point only.

B. Heating only units are manufactured with a built-in factory wired aquastat with a set point of 125°F on and 105°F off. The aquastat may be disabled in the field if not required. (See Figure 2)

C. All wiring should be done to all local and national codes.

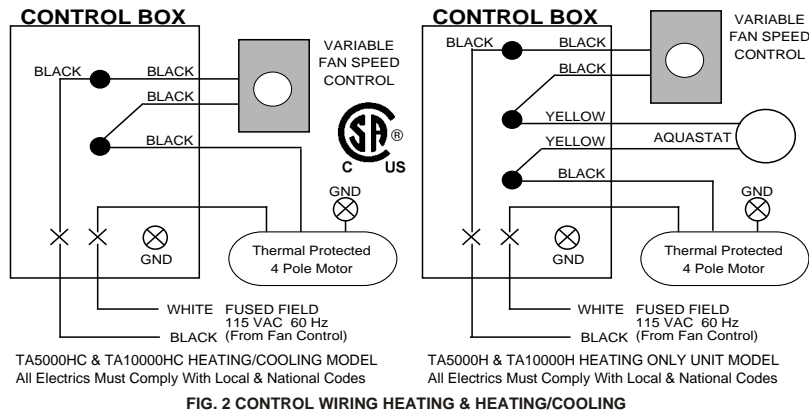


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TA10000HC MODEL

TURBO-AIRE™ PERFORMANCE

All units are to be controlled by the Variable Speed Fan Control provided. Hi, Med and Lo are estimated fan settings

*Ratings and Motor Data		Pressure Drop - Ft. Wtr			Heating Output Ratings**			Cooling Output Ratings**		
Model #	Fan Spd/Amps	CFM	2 GPM	3 GPM	120 Deg	160 Deg	200 Deg	45 Deg	42 Deg	40 Deg
TA5000H & TA5000HC	Lo .5 Amp	120	.9"	2.4"	4800	8200	12000	3600	4200	4500
	Med .65 Amp	170	.9"	2.4"	6000	10900	15000	4200	4800	5100
	Hi 1.0 Amp	230	.9"	2.4"	7200	12900	18100	5000	5700	6000
TA10000H & TA10000HC	Lo 1.0 Amp	240	1.5"	3.7"	9600	16400	24000	7200	8400	9600
	Med 1.35 Amp	350	1.5"	3.7"	12000	21800	30000	8400	9600	10400
	Hi 2.0 Amp	460	1.5"	3.7"	14400	25800	36000	10000	11200	12000

* Heat Ratings based on 2GPM and 65°F Entering Air
* Cool Ratings based on 3GPM and 80/67°F Entering Air

**System should be designed on Medium Speed as outputs on Hi Speed may be associated with fan noise
**40% Glycol reduces output by as much as 15%

5 YEAR LIMITED WARRANTY

Turbonics, Inc. warrants to the original user each new product manufactured by it or sold under its trade names to be free from defects in workmanship and material under normal use and service for a period of five years from date of shipment from the factory warehouse excluding the pump on the Chill Chaser whose warranty is one year. The sole liability of Turbonics, Inc. under this warranty is limited to repairing, or at its option, replacing free of cost, any defective part or parts f.o.b. its factory, provided that (1) the defective part is returned prepaid to Turbonics, Inc. upon its written authorization, and (2) Turbonics, Inc. determines the defective part has not been subjected to misuse, abuse, negligence, accident, or improper installation, operation, service or repair. This warranty does not include any field labor charge involved in removal of the defective part or installation of the repaired or replacement part. During the first year, with prior factory approval, a labor charge of \$15.00 per hour may be applied for on warranty repairs. This warranty is made only to the original user of the product and cannot be transferred or assigned, and it is effective only while the product is in use at the place of original installation. Such warranty shall not apply to any product on which the serial number or date of manufacture has been altered, effaced or removed. This warranty applies only to products installed within the continental boundaries of North America. This warranty constitutes the only warranty, or representation of Turbonics, Inc. and no other warranty, or representation, statutory or otherwise, is expressed or may be implied. In no event will Turbonics, Inc. be responsible for special or consequential damages of any kind whatsoever.