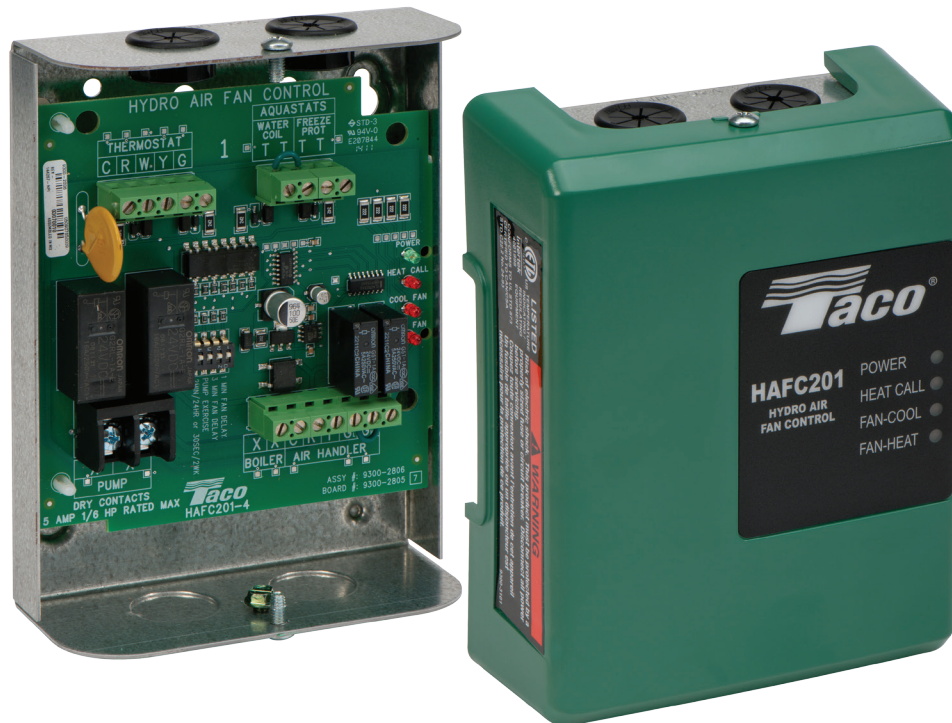


Electronic Controls

Hydro Air Fan Control

Taco Hydro Air Fan Controls are the ideal interface between the thermostat and air handler. The Fan Controls provide advance diagnostic capabilities, universal thermostat compatibility, a simplified wiring layout, and automatic multi-speed switching while increasing year round comfort and operating efficiency.



Submittal Data Information Hydro Air Fan Control

Submittal Data # 101-146

Supersedes: 101-055 • 09/01/99

Effective: 11/03/11

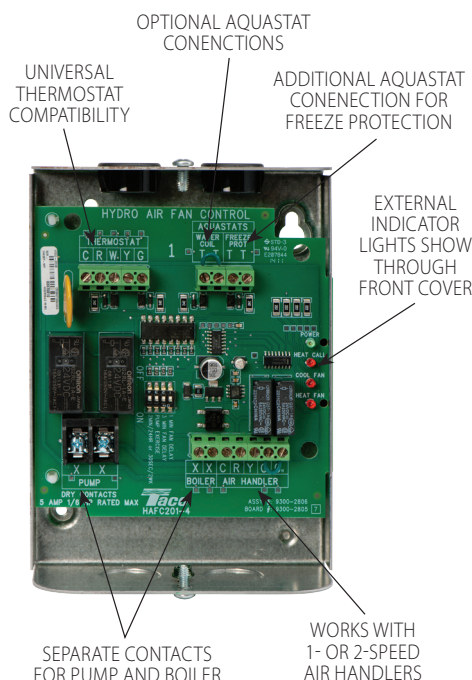
The Hydro Air Fan Control is an interface between the thermostat and air handler. It also has an isolated end switch to start the boiler and/or pump. When the thermostat calls for heat, the Fan Control energizes the end switch relay and allows the fan to operate at low speed when the water is above the optional aquastat setting. When the thermostat calls for cooling, the Fan Control energizes the condenser and operates on high speed. The Fan Control also includes three built-in fan time delay options, two selectable pump exercise modes, a secondary aquastat connection for freeze protection and the ability to switch a pump and / or boiler.

Features

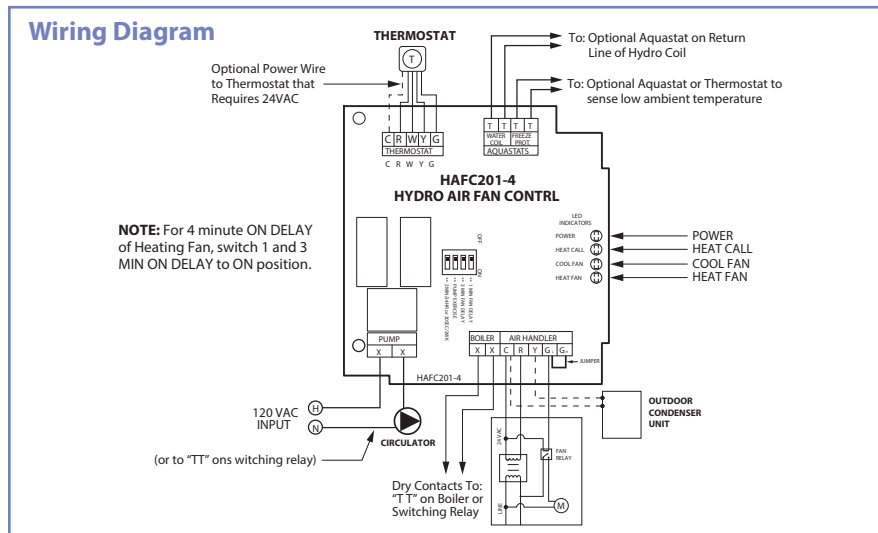
- Automatic Multi-Speed Switching
- Prevents False Calls for Fan Operation
- Simplified Wiring
- Contractor-Friendly PC-Board Layout
- Built-in Time Delays
- Pump Exercise Timer
- 100% Factory Tested

External Diagnostics

External lights show full functionality of the Hydro Air Fan Control. The green light should always be on indicating that power is connected. Red lights indicate fan operation for heating and cooling modes.



Wiring Diagram



Product Number	Power Input	Boiler Relay Rating	Pump Relay Rating	Width	Height	Depth
HAF201-4	24 VAC, 60 HZ, CLASS 2	24 VAC, 1 A	1/6 HP	4-7/8"	6-5/8"	2-3/8"

Terminal Description

THERMOSTAT

- C Optional: Common side of transformer to power some styles of thermostats
- R Red - Side of transformer use to switch all functions
- W White - Heating signal
- Y Yellow - Condenser signal
- G Green - Fan Signal

WATER COIL AQUASTAT

- TT Remove factory installed jumper and connect to aquastat at air handler to control operation of the fan when in the heating mode.

FREEZE PROTECTION AQUASTAT

- TT Connect to aquastat or thermostat to sense low ambient temperature. Reduces the chance of pipes freezing by energizing the pump dry contacts.

PUMP DRY CONTACTS

- XX May switch pump directly by bringing in external line voltage or connect to "TT" on switching relay.

BOILER DRY CONTACTS

- XX Connects to the boiler or "T" terminals on a switching relay.

AIR HANDLER

- C Common side of transformer to power the Fan Control
- R Red - Side of transformer used to switch all functions

- Y Yellow - Condenser signal

One Speed Motor

- G_{low} Connect the fan to the relay. Keep the jumper installed between G_{high} and G_{low}.

Two Speed Motor

- G_{high} Remove jumper and connect G_{high} to the high speed fan relay and connect G_{low} to low speed fan relay.

Switch Settings

- 1 minute on fan delay, in heating mode.
- 3 minute on fan delay, in heating mode.
- 4 minute on fan delay, in heating mode.
- Pump dry contact activated for 2 minutes every 24 hours (boiler contracts not activated).
- Pump dry contacts activated for 30 seconds every two weeks (boiler contacts not activated).

