



Submittal Data Information

101-055

Hydro Air Fan Control

Effective: September 1, 1999

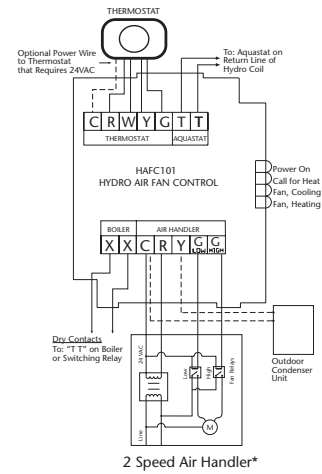
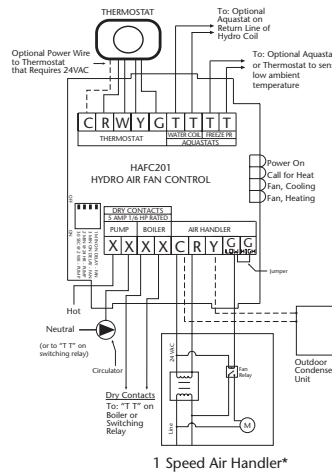
Supersedes: August 1, 1997

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	

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 HAF201 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.

Wiring Diagram for 1 & 2 Speed Motors



* Both HAF101 and 201 capable of 1 and 2 speed applications.

Features

- External Indicator Lights
- Works with 1 or 2 Speed Air Handlers
- 100% Factory Tested
- Automatic Multi-Speed Switching
- Snap-in PC Board
- Prevents False Calls for Fan Operation
- Simplified Wiring
- Universal Thermostat Compatibility
- Contractor Friendly PC Board Layout
- Increased Operating Efficiency
- Extended 3 Year Warranty
- Made in the USA

Additional Features of HAF201

- Built-in Time Delays
- Separate Contacts for Pump & Boiler
- Pump Exercise Timer
- Additional Aquastat Connection for Freeze Protection

External Diagnostics

The 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.

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 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 (HAF201)

- 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 contracts not activated).

Specifications

Product Number	Number of Zones	Power Input Voltage	Relay Type	Thermostat Current	Single Phase Motor Rating (Relay)	Dimensions of Enclosure
						Width Height Depth
HAF101**	1 Zone	24 VAC Input	DPDT	.18	1/6 HP(5A) @120VAC	4 1/4" 5 3/4" 2 3/4"
HAF201	1 Zone	24 VAC Input	DPDT	.18	1/6 HP(5A) @120VAC	4 1/4" 5 3/4" 2 3/4"

** Model number changed from SR501-F



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