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 HAFC201 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

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

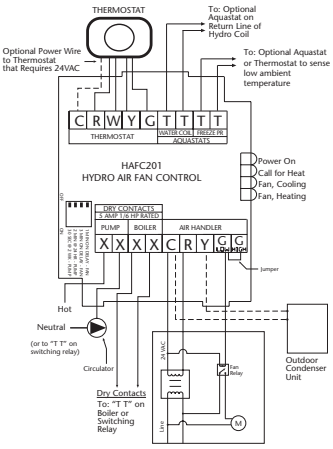
Additional Features of HAFC201

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

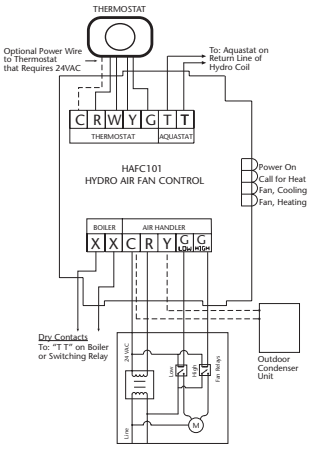
External Diagnostics

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.

Wiring Diagram for 1 & 2 Speed Motors



1 Speed Air Handler*



2 Speed Air Handler*

* Both HAFC101 and 201 capable of 1 and 2 speed applications.

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 (HAFC201)

1 1 minute on fan delay, in heating mode.
2 3 minute on fan delay, in heating mode.
1&2 4 minute on fan delay, in heating mode.
3 Pump dry contact activated for 2 minutes every 24 hours (boiler contracts not activated).
4 Pump dry contacts activated for 30 seconds every two weeks (boiler contacts 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
HAFC101**	1 Zone	24 VAC Input	DPDT	.1A	1/6 HP(5A) @120 VAC	4 1/4" 5 3/4" 2 3/4"
HAFC201	1 Zone	24 VAC Input	DPDT	.1A	1/6 HP(5A) @120 VAC	4 1/4" 5 3/4" 2 3/4"

** Model number changed from SR501-F

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