



## TECHNICAL GUIDE

### SINGLE PIECE AIR HANDLERS

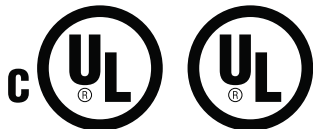
FOR USE WITH SPLIT-SYSTEM  
COOLING & HEAT PUMPS

HEAT PUMP MODELS:

F4FP024H06T2\* - F4FP060H06T2\*

VARIABLE SPEED MODEL:

F4FV060H06T2C



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at [www.york.com](http://www.york.com) for the most up-to-date technical information.

Additional rating information can be found at [www.ariprimer.net.org](http://www.ariprimer.net.org).

### DESCRIPTION

This fan coil unit provides the flexibility for installation in any upflow or horizontal application. These versatile models may be used for split-system cooling or heat pump operation. Compact cabinets along with return air options in both the upflow and horizontal positions allow this unit to fit into tight spaces such as attics, crawl spaces, and closets.

**NOTE:** For matching condensing units and performance data, refer to condenser technical guides.

### FEATURES

**CABINET** - The compact and sturdy cabinet is protected with a durable, attractive finish to prevent rust. The cabinet is also insulated to prevent cabinet sweating. F4FP and F4FV models have 3/4 inch insulation.

**BLOWERS** - Blowers are sized to circulate air both quietly and efficiently. The direct-drive, 3-speed motors provide a selection of air volume to match any application. Motor speeds may be selected via quick connect terminal at the motor. Slide-out blower/motor assemblies provide for easy servicing.

**COILS** - Using the latest in heat transfer technology, the rifled tube coil/aluminum fin coils produce high performance ratings and provide long lasting quality. The coils are capable of bottom return air in the upflow position, and right or left end return air in the horizontal position.

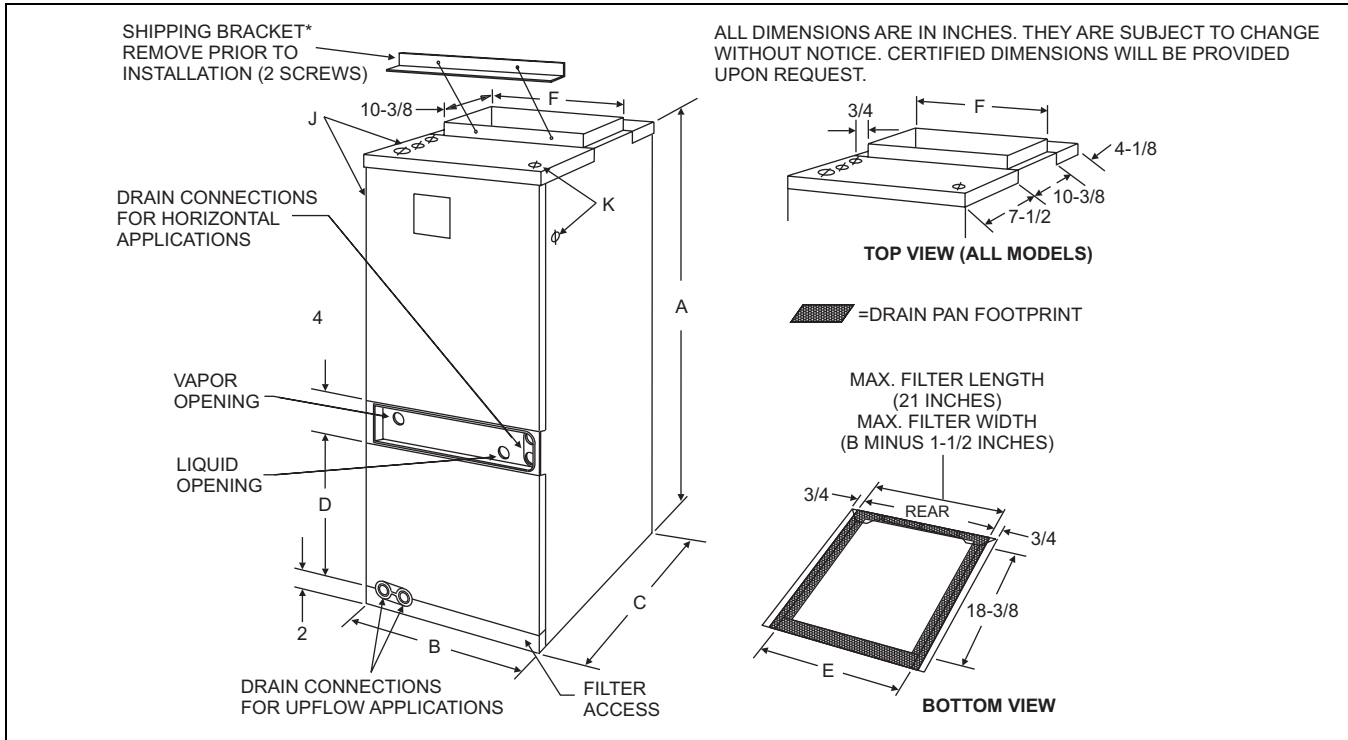
**FACTORY INSTALLED TXV** - Air handler models F4FP and F4FV have factory installed TXV metering device.

**ELECTRIC HEATERS** - Models providing up to 25kw of heat are available as field installed accessories. Electric heaters are available in both single and three phase.

**EASY INSTALLATION** - These fan coil units are designed to provide the lowest total installation cost. Accessible color coded control wiring, top and side power wiring knockouts, easy to install drain connections and electric heaters all combine to minimize installed cost on every job.

**CONTROL BOARD** - The control board is equipped with low voltage terminal strips for easy installation. The control board is also equipped with plug-in receptacles for the auxiliary heaters.

**DIMENSIONS**



MODEL F4FP F4FV	DIMENSIONS						WIRING K.O.S <sup>1</sup>		REFRIGERANT CONNECTIONS LINE SIZE	
	A	B	C	D	E	F	J	K	LIQUID	VAPOR
	HEIGHT	WIDTH	DEPTH				POWER	CONTROL		
024	40-3/4	18	22	12-1/8	14-7/8	16-1/2	7/8 (1/2) 1-3/8 (1)	7/8 (1/2)	3/8	5/8
030	40-3/4	18			14-7/8	16-1/2				3/4
036	40-3/4	21-1/2			18-3/8	20				3/4
040	40-3/4	21-1/2			18-3/8	20				7/8
042	40-3/4	21-1/2		18-3/8	20	7/8				
045	50-3/4	24		17-3/8	20-7/8	22-1/2	7/8 (1/2)	7/8		
048	50-3/4	24			20-7/8	22-1/2	1-3/8(1)	7/8		
060	50-3/4	24	20-7/8		22-1/2	1-23/32 (1-1/4)	7/8			

1. Actual conduit size is shown in parenthesis.  
 2. All models only available with factory installed horizontal drain pan.

**COIL TECHNICAL DATA**

AIR HANDLER MODEL	APPLICATION	REFRIG. CONN. TYPE	FACE AREA (SQ. FT.)	DEEP ROWS	FINS PER INCH	COIL SLABE SIZE		TUBE GEOMETRY	TUBE DIA.	FIN. TYPE	METERING DEVICE
						H	W				
F4FP024H06T2A	A/C & HP	Sweat	3.40	2	14	14	17.5	1 x .886	3/8	Enhanced	TXV-2A
F4FP024H06T2B	A/C & HP		3.40	2	14	14	17.5				TXV-2B
F4FP030H06T2A	A/C & HP		3.89	2	14	16	17.5				TXV-2A
F4FP036H06T2A	A/C & HP		3.40	3	12	14	17.5				TXV-2A
F4FP040H06T2A	A/C & HP		3.89	3	11	16	17.5				TXV-2A
F4FP040H06T2C	A/C & HP		3.89	3	11	16	17.5				TXV-2C
F4FP042H06T2A	A/C & HP		3.89	3	11	16	17.5				TXV-2A
F4FP042H06T2C	A/C & HP		3.89	3	11	16	17.5				TXV-2C
F4FP045H06T2C	A/C & HP		5.83	3	12	24	17.5				TXV-2C
F4FP048H06T2C	A/C & HP		5.35	3	12	22	17.5				TXV-2C
F4FP060H06T2C	A/C & HP		5.83	3	12	24	17.5				TXV-2C
F4FV060H06T2C	A/C & HP		5.83	3	12	24	17.5				TXV-2C

**COOLING CAPACITY**

BLOWER MODEL	RATED CFM	ENTERING AIR °F (DRY / WET BULB)	MBH @ EVAPORATOR TEMPERATURE AND CORRESPONDING PRESSURE °F / PSIG			
			35 / 61.5	40 / 68.5	45 / 76.0	50 / 84.0
<b>UPFLOW / HORIZONTAL POSITIONS ONLY</b>						
F4FP024	830	85 / 72	36.3	33.0	29.5	25.6
		80 / 67	33.4	30.2	26.7	23.1
		75 / 62	27.4	24.3	21.0	17.7
		70 / 57	22.2	19.3	16.2	12.6
F4FP030	1050	85 / 72	41.5	37.8	33.7	29.5
		80 / 67	36.2	32.4	28.6	24.5
		75 / 62	29.1	25.3	24.0	19.2
		70 / 57	24.1	21.5	18.7	15.8
F4FP036	1250	85 / 72	53.4	48.6	43.4	38.3
		80 / 67	42.8	37.8	33.1	28.2
		75 / 62	33.4	28.1	30.6	22.8
		70 / 57	28.7	26.5	24.5	22.8
F4FP040	1050	85 / 72	55.3	47.5	39.6	31.2
		80 / 67	44.2	37.1	30.2	23.1
		75 / 62	34.5	27.5	22.4	18.7
		70 / 57	29.6	26.0	22.4	18.7
F4FP042	1400	85 / 72	88.4	76.0	63.3	50.0
		80 / 67	70.8	59.4	48.4	37.0
		75 / 62	55.2	43.9	35.8	29.9
		70 / 57	47.4	41.5	35.8	29.9
F4FP045	1400	85 / 72	92.7	78.1	63.4	48.1
		80 / 67	74.2	61.3	48.4	35.4
		75 / 62	57.8	45.3	35.7	28.6
		70 / 57	49.7	42.8	35.7	28.6
F4FP048	1600	85 / 72	100.5	86.4	72.0	56.8
		80 / 67	80.4	67.5	55.0	42.1
		75 / 62	62.7	49.9	40.7	34.0
		70 / 57	53.9	47.2	40.7	34.0
F4FP060	1850	85 / 72	119.9	101.0	82.0	62.2
		80 / 67	96.0	79.2	62.6	45.8
		75 / 62	74.8	58.6	46.2	37.0
		70 / 57	64.3	55.4	46.2	37.0
F4FV060	1980	85 / 72	122.0	103.1	84.1	64.3
		80 / 67	98.1	81.3	64.7	47.9
		75 / 62	76.9	60.7	50.3	39.1
		70 / 57	66.4	57.5	48.3	39.1

**ACCESSORIES**

Refer to Price Manual for specific model numbers.

**VERTICAL SUSPENSION KIT** - The suspension kit is designed to be used with all sizes of fan coil units whenever the application requires vertical suspension of the unit.

**ELECTRIC HEATERS** - Models shown under Electrical Data include sequencers and temperature dual limit switches for safe, efficient operation. Circuit breakers are provided where shown.

**BOLT-ON THERMAL EXPANSION VALVE** - TXV kits are available for enhanced efficiency. These fan coil units have factory installed TXV's.

**LIMITATIONS**

These units must be wired and installed in accordance with all national and local safety codes. Voltage limits are as follows:

Normal Operating voltage Range <sup>1</sup>	187-253
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1. Utilization range "A" in accordance with ARI Std. 110.

Air flow must be within the minimum and maximum limits approved for electric heat, evaporator coils and outdoor units:

ENTERING AIR TEMPERATURE LIMITS			
WET BULB TEMP. °F		DRY BULB TEMP. °F	
Min.	Max.	Min.	Max.
57	72	65	95

**EXTENDED AIRFLOW DATA<sup>1</sup> - F4FP HEAT PUMP MODELS**

MODEL F4FP	BLOWER MOTOR SPEED	230 VOLT									
		CFM @ EXTERNAL STATIC PRESSURE - IWC									
		0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
024	High	950	910	865	835	775	730	662	590	502	400
	Med.	845	815	785	745	705	654	594	524	439	344
	Low	650	630	605	575	540	508	450	383	285	158
030	High	1,270	1,210	1,150	1,085	1,015	946	862	769	645	502
	Med.	1,050	1,040	995	930	855	804	714	624	494	364
	Low	855	820	780	735	680	624	550	447	333	190
036	High	-	1,310	1,250	1,175	1,120	1,053	983	894	779	645
	Med.	1,200	1,150	1,100	1,040	985	933	879	795	711	587
	Low	1,060	1,015	970	925	860	809	740	661	572	453
040	High	1,270	1,210	1,150	1,085	1,015	946	802	769	645	502
	Med.	1,050	1,040	995	930	855	804	714	624	494	364
	Low	855	820	780	735	680	624	550	447	333	190
042	High	-	1,575	1,500	1,420	1,350	1,273	1,192	1,102	996	871
	Med.	1,460	1,395	1,330	1,260	1,190	1,125	1,052	960	842	695
	Low	1,250	1,200	1,155	1,100	1,050	1,001	931	851	751	631
045	High	1,575	1,535	1,475	1,390	1,310	1,245	1,147	1,030	897	735
	Med-high	1,375	1,315	1,255	1,185	1,110	1,040	944	848	732	606
	Med-low	1,210	1,160	1,110	1,050	980	921	844	737	640	533
	Low	1,035	990	940	890	825	770	698	616	524	432
048	High	1,855	1,795	1,730	1,670	1,605	1,534	1,461	1,379	1,296	1,194
	Med.	1,685	1,630	1,575	1,520	1,470	1,404	1,340	1,266	1,182	1,068
	Low	1,465	1,435	1,405	1,370	1,335	1,305	1,242	1,170	1,087	995
060	High	2,285	2,195	2,105	2,015	1,950	1,845	1,770	1,685	1,590	1,485
	Med.	2,125	2,020	1,910	1,805	1,705	1,597	1,491	1,386	1,280	1,175
	Low	1,655	1,605	1,550	1,500	1,450	1,398	1,326	1,245	1,153	1,052

**NOTE:** Air flow data shown above 0.50" W.C. external static pressure is for REFERENCE ONLY. Maximum allowable external static when electric heat is used is limited to 0.50" W.C. Maximum allowable external static pressure may also be limited by minimum CFM requirements for proper Heat Pump operation.

1. Includes Return Air Filter and Largest Electric Heater.

All F4FP series air handler units are UL Listed up to 0.50" w.c. external static pressure, including air filter, wet coil, and largest KW size heater.

**EXTENDED AIR FLOW DATA<sup>1</sup> - F4FP HEAT PUMP MODELS**

MODEL F4FP	BLOWER MOTOR SPEED	208 VOLT									
		CFM @ EXTERNAL STATIC PRESSURE - IWC									
		0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
024	High	855	819	779	752	698	657	596	531	452	360
	Med.	760	733	706	670	634	589	535	472	395	310
	Low	585	567	545	518	486	457	405	344	257	142
030	High	1,143	1,089	1,035	977	914	851	776	692	581	451
	Med.	941	936	895	837	770	724	643	562	445	328
	Low	770	738	702	662	612	561	495	402	300	171
036	High	1,235	1,179	1,125	1,058	1,008	947	885	804	701	580
	Med.	1,080	1,035	990	936	887	840	791	716	640	528
	Low	954	914	873	833	774	728	666	595	515	408
040	High	1,143	1,089	1,035	977	914	851	776	692	581	451
	Med.	941	936	895	837	770	724	643	562	445	328
	Low	770	738	702	662	612	561	495	402	300	171
042	High	1,400	1,418	1,350	1,278	1,215	1,145	1,073	991	897	784
	Med.	1,314	1,266	1,197	1,135	1,071	1,012	947	864	758	625
	Low	1,125	1,080	1,040	990	945	901	838	766	676	568
045	High	1,418	1,382	1,328	1,251	1,179	1,120	1,032	927	807	661
	Med-high	1,238	1,184	1,130	1,067	999	936	850	763	659	545
	Med-low	1,089	1,044	999	945	882	829	760	663	576	480
	Low	932	891	846	801	743	693	628	554	472	389
048	High	1,670	1,616	1,557	1,503	1,445	1,380	1,315	1,241	1,167	1,074
	Med.	1,517	1,467	1,418	1,368	1,323	1,264	1,206	1,140	1,064	961
	Low	1,319	1,292	1,265	1,233	1,202	1,174	1,118	1,053	978	895
060	High	2,057	1,976	1,895	1,814	1,728	1,661	1,593	1,517	1,431	1,337
	Med.	1,913	1,818	1,719	1,625	1,535	1,437	1,342	1,247	1,152	1,057
	Low	1,490	1,445	1,395	1,350	1,305	1,258	1,194	1,120	1,038	946

**NOTE:** Air flow data shown above 0.50" W.C. external static pressure is for REFERENCE ONLY. Maximum allowable external static when electric heat is used is limited to 0.50" W.C. Maximum allowable external static pressure may also be limited by minimum CFM requirements for proper Heat Pump operation.

1. Includes Return Air Filter and Largest Electric Heater.  
All F4FP series air handler units are UL Listed up to 0.50" w.c. external static pressure, including air filter, wet coil, and largest KW size heater.

**APPLICATION FACTORS-RELATED CFM VS. ACTUAL CFM**

% OF RATED AIRFLOW	80%	90%	RATED CFM	110%	120%
CAPACITY FACTOR	0.96	0.98	1.00	1.02	1.03

**EXTENDED AIR FLOW DATA - F4FV VARIABLE SPEED MODELS****CFM/TAP SELECTION - F4FV<sup>1</sup>**

HIGH SPEED	COOLING AND	HEAT PUMP CFM
MODEL	JUMPER	SETTING
F4FV060	"COOL" TAP	"ADJ TAP"
2100	"A"	"B"
1980	"B"	"B"
1860	"A"	"A"
1750	"B"	"A"
1675	"A"	"C"
1605	"C"	"B"
1575	"B"	"C"
1510	"D"	"B"
1420	"C"	"A"
1335	"D"	"A"
1280	"C"	"C"
1200	"D"	"C"

**NOTE:**

- Both the "COOL" and the "ADJ" tap must be set for the cooling CFM.
- Fan only CFM = 63% of high speed cooling.
- Low speed cooling used only with two stage outdoor units. (Speed is preset to 65% of high speed).
- Dehumidification speed is 85% of cooling speed.
- When operating in both heat pump and electric heat modes, the CFM will be whichever is greater.
- CFM indicator light flashes once for every 100 CFM (i.e., 12 Flashes is 1200 CFM).

**ELECTRIC HEAT CFM**

MODEL	CFM	TAP SELECTIONS
F4FV060	—	"HEAT"
	1860	"A"
	1750	"B"
	1420	"C"
	1335	"D"

**DELAY PROFILE**

"DELAY" TAP	COMFORT SETTING
A	Normal
B	Humid
C	Dry
D	Temperate

**Normal**

The normal setting provides a 30-second ramp-up from zero airflow to full capacity and a 30-second ramp-down from full capacity back to zero airflow. Whenever there is a change in airflow mode, such as a call for cooling or a change from low heat to high heat, the motor will take 30 seconds to ramp from one speed to the other.

**Humid**

The humid setting is best-suited for installations where the humidity is frequently very high during cooling season, such as in the southern part of the country. On a call for cooling, the blower will ramp up to 50% of full capacity and will stay there for two minutes, then will ramp up to 82% of full capacity and will stay there for five minutes, and then will ramp up to full capacity, where it will stay until the wall thermostat is satisfied. In every case, it will take the motor 30 seconds to ramp from one speed to another.

**Dry**

The dry setting is best suited to parts of the country where excessive humidity is not generally a problem, where the summer months are usually dry. On a call for cooling the motor will ramp up to full capacity and will stay there until the thermostat is satisfied. At the end of the cooling cycle, the blower will ramp down to 50% of full capacity where it will stay for 60 seconds. Then it will ramp down to zero. In every case, it will take the motor 30 seconds to ramp from one speed to another.

**Temperate**

The temperate setting is best suited for most of the country, where neither excessive humidity nor extremely dry conditions are the norm. On a call for cooling, the motor will ramp up to 63% of full capacity and will stay there for 90 seconds, then will ramp up to full capacity. At the end of the cooling cycle, the motor will ramp down to 63% of full capacity and will stay there for 30 seconds, then will ramp down to zero. In every case, it will take the motor 30 seconds to ramp from one speed to another.

**Physical and Electrical Data**

<b>MODEL F4FP</b>		024	030	036	040	—
<b>Blower - Diameter Width</b>		10x6	10x8	10x8	10x8	—
<b>Motor</b>	<b>HP</b>	1/4	1/3	1/2	1/3	—
	<b>Nominal RPM</b>	1075	1075	1075	1075	—
<b>Voltage</b>		208/230				
<b>AMPS</b>	<b>Full Load</b>	1.6/1.4	2.5/2.2	3.3/2.9	2.5/2.2	—
	<b>Locked Rotor</b>	3.3/2.9	6.2/5.5	7.4/6.5	6.2/5.5	—
<b>Filter<sup>1</sup></b>	<b>Type</b>	Disposable/Permanent				
	<b>Size</b>	16x20x1	16x20x1	20x20x1	20x20x1	—
	<b>Permanent Type Kit</b>	1PF0601BK	1PF0601BK	1PF0602BK	1PF0601BK	—
<b>Shipping/Operating Weight (lbs.)</b>		93/98	100/105	109/115	115/121	—
<b>MODEL F4FP / F4FV</b>						
<b>Blower - Diameter x Width</b>		10x8	10x10	11x10	11x10	11x10
<b>Motor</b>	<b>HP</b>	3/4	1/3	1/2	3/4	1.0
	<b>Nominal RPM</b>	1130	925	1085	1100	1200
<b>Voltage</b>		208/230				
<b>Amps</b>	<b>Full Load</b>	4.4/3.8	3.0/2.7	3.8/3.3	4.4/3.8	7.8/7.0
	<b>Locked Rotor</b>	11.9/10.3	4.8/4.1	4.6/4.0	8.4/7.3	—
<b>Filter<sup>1</sup></b>	<b>Type</b>	Disposable/Permanent				
	<b>Size</b>	20x20x1	22x20x1	22x20x1	22x20x1	22x20x1
	<b>Permanent Type Kit</b>	1PF0602BK	1PF0603BK	1PF0603BK	1PF0603BK	1PF0603BK
<b>Shipping/Operating Weight (lbs.)</b>		115/121	144/150	142/148	149/155	160

1. Field Supplied.

**ELECTRICAL DATA - Cooling Only**

<b>MODEL F4FP</b>	<b>TOTAL MOTOR AMPS</b>		<b>MINIMUM CIRCUIT AMPACITY</b>		<b>Max. O.C.P.<sup>1</sup> Amps/Type</b>	<b>MINIMUM WIRE SIZE A.W.G.</b>
	<b>208V</b>	<b>240V</b>	<b>208V</b>	<b>240V</b>		
024	1.6	1.5	2.0	1.8	15	14
030	2.5	2.3	3.2	2.8	15	14
036	3.3	3.0	4.2	3.7	15	14
040	2.5	2.3	3.2	2.8	15	14
042	4.4	4.0	5.5	4.8	15	14
045	3.1	2.6	3.9	3.4	15	14
048	3.9	3.5	4.9	4.3	15	14
060	4.6	4.4	6.4	5.5	15	14
<b>VARIABLE SPEED MODEL</b>						
F4FV060	—	—	—	—	15	14

1. O.C.P. = Over Current Protection device, must be HACR type Circuit Breaker or Time Delay Fuse.

## ELECTRICAL DATA - 1Ø - 208/230 - 1-60

MODEL F4FP F4FV	HEATER <sup>1</sup> MODEL	MAX. STATIC & MIN. CFM		TOTAL HEAT <sup>2</sup>				KW STAGING					
				KW		MBH		W1 ONLY		W2 ONLY		W1 + W2	
		STATIC	TAP	208V	240V	208V	240V	208V	240V	208V	240V	208V	240V
024	2HK*6500506B	0.5		3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK*6500806B		LO	5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B			7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
030	2HK*6500506B	0.5	LO	3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK*6500806B		LO	5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B		LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B		HI	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
036	2HK*6500506B	0.5	LO	3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK*6500806B		LO	5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B		LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B		MED	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
	2HK16501906B <sup>3</sup>		HI	13.2	17.6	45.1	60.1	2.8	3.8	10.4	13.8	13.2	17.6
040	2HK*6500506B	0.5	LO	3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK*6500806B		LO	5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B		LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B		HI	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
042	2HK*6500506B	0.5	LO	3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK*6500806B			5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B			7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B			11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
045	2HK*6500506B	0.5	LO	3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK*6500806B		LO	5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B		MED	7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B		HI	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
048	2HK16500506B	0.5	LO	3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK16500806B			5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B			7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B			11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
	2HK16502006B			15.0	20.0	51.2	68.3	3.8	5.0	11.3	10.0	15.0	20.0
	2HK16502506B			18.8	25.0	64.2	85.3	3.8	5.0	11.3	15.0	18.8	25.0
060	2HK*6501006B	0.5	LO	3.8	5.0	13.0	17.1	3.8	5.0	3.8	5.0	3.8	5.0
	2HK16500806B			5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK16501006B			7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B			11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
	2HK16502006B			15.0	20.0	51.2	68.3	3.8	5.0	7.5	10.0	15.0	20.0
	2HK16502506B			18.8	25.0	64.2	85.3	3.8	5.0	11.3	15.0	18.8	25.0
F4FV060	2HK*6500806B	0.5	1335	5.6	7.5	19.1	25.6	3.8	5.0	5.6	7.5	5.6	7.5
	2HK*6501006B			7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK16501506B			11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
	2HK16502006B			15.0	20.0	51.2	68.3	3.8	5.0	7.5	10.0	15.0	20.0
	2HK16502506B			18.8	25.0	64.2	85.3	3.8	5.0	11.3	15.0	18.8	25.0

NOTE: All models available with factory installed horizontal drain pan.

- 0 or as follows: 0 = No Breaker, 1 = Breaker.
- See Conversion Table below:
- 2HK16501906B only applies to F4FP036 Model.

## KW &amp; MBH CONVERSIONS - FOR TOTAL POWER INPUT REQUIREMENT

FOR	230V	OPERATION MULTIPLY	240V	TABULATED KW & MBH BY	.918
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**ELECTRICAL DATA - 1Ø (SINGLE SOURCE POWER SUPPLY) - COPPER WIRE**

MODEL F4FP F4FV	HEATER MODEL <sup>1</sup>	HEATER AMPS 240V	FIELD WIRING					
			MIN. CIRCUIT AMPACITY		Max. O.C.P. <sup>2</sup> Amps/ Type		75°C WIRE SIZE - AWG	
			208V	240V	208V	240V	208V	240V
024	2HK*6500506B	20.8	24.7	27.7	25	30	10	10
	2HK*6500806B	31.3	35.5	40.7	40	45	8	8
	2HK*6501006B	41.7	46.9	53.7	50	60	8	6
030	2HK*6500506B	20.8	25.8	28.7	30	30	10	10
	2HK*6500806B	31.3	36.7	41.7	40	45	8	8
	2HK*6501006B	41.7	48.1	54.7	50	60	8	6
	2HK16501506B	62.5	70.9	80.8	80	90	4	3
036	2HK*6500506B	20.8	26.8	29.5	30	30	10	10
	2HK*6500806B	31.3	37.7	42.6	40	45	8	8
	2HK*6501006B	41.7	49.1	55.6	50	60	8	6
	2HK16501506B	62.5	71.9	81.6	80	90	4	3
	2HK16501906B <sup>3</sup>	73.3	83.3	95.2	90	100	3	3
040	2HK*6500506B	20.8	25.8	28.7	30	30	10	10
	2HK*6500806B	31.3	36.7	41.7	40	45	8	8
	2HK*6501006B	41.7	48.1	54.7	50	60	8	6
	2HK16501506B	62.5	70.9	80.8	80	90	4	3
042	2HK*6500506B	20.8	28.1	30.5	30	35	10	8
	2HK*6500806B	31.3	38.9	43.6	40	45	8	8
	2HK*6501006B	41.7	50.3	56.6	60	60	6	6
	2HK16501506B	62.5	73.2	82.6	80	90	4	3
045	2HK*6500506B	20.8	26.6	29.3	30	30	10	10
	2HK*6500806B	31.3	37.4	42.3	40	45	8	8
	2HK*6501006B	41.7	48.8	55.3	50	60	8	6
	2HK16501506B	62.5	71.7	81.4	80	90	4	3
048	2HK16500506B	20.8	27.6	30.2	30	35	10	8
	2HK*6500806B	31.3	38.4	43.2	40	45	8	8
	2HK*6501006B	41.7	49.8	56.2	50	60	8	6
	2HK16501506B	62.5	72.7	82.3	80	90	4	3
	2HK16502006B	83.3	94.9	108.3	100	110	3	2
	2HK16502506B	104.2	117.7	134.3	125	150	1	1/0
060	2HK*6500506B	20.8	29.0	31.3	30	35	10	8
	2HK*6500806B	31.3	39.8	44.3	40	45	8	8
	2HK*6501006B	41.7	51.2	57.3	60	60	6	6
	2HK16501506B	62.5	74.0	83.4	80	90	4	3
	2HK16502006B	83.3	96.3	109.4	100	110	3	2
	2HK16502506B	104.2	119.1	135.5	125	150	1	1/0
F4FV060	2HK*6500806B	31.3	43.8	47.8	45	50	8	8
	2HK*6501006B	41.7	55.2	60.8	60	70	6	4
	2HK16501506B	62.5	78.0	86.9	80	90	4	3
	2HK16502006B	83.3	100.3	112.9	110	125	2	1
	2HK16502506B	104.2	123.1	139.0	125	150	1	1/0

- 0 or 1 as follows: 0 = No Breaker, 1 = Breaker
- OCP = Over Current Protection device, must be HACR type Circuit Breaker or Time Delay fuse.
- 2HK16501906B only applies to F4FP036 Model.

**ELECTRICAL DATA - 1 Ø (MULTI-SOURCE POWER SUPPLY) - COPPER WIRE**

MODEL F4FP F4FV	HEATER MODEL	MIN. CIRCUIT AMPACITY			Max. O.C.P. <sup>1</sup> Amps/Type			75°C WIRE SIZE - AWG		
		CIRCUIT			CIRCUIT			CIRCUIT		
		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD
		208/240V	208/240V	208/240V	208/240V	208/240V	208/240V	208/240V	208/240V	208/240V
030	2HK16501506B	25.8/28.7	45.1/52.1	—	30/30	50/60	—	10/10	8/6	—
036	2HK16501506B	26.8/29.5	45.1/52.1	—	30/30	50/60	—	10/10	8/6	—
	2HK16501906B <sup>2</sup>	38.3/42.6	45.7/52.6	—	40/45	50/60	—	8/8	8/6	—
040	2HK16501506B	25.8/28.7	45.1/52.1	—	30/30	50/60	—	10/10	8/6	—
042	2HK16501506B	28.1/30.5	45.1/52.1	—	30/35	50/60	—	10/8	8/6	—
045	2HK16501506B	26.6/29.3	45.1/52.1	—	30/30	50/60	—	10/10	8/6	—
048	2HK16501506B	27.6/30.2	45.1/52.1	—	30/35	50/60	—	10/8	8/6	—
	2HK16502006B	49.8/56.2	45.1/52.1	—	50/60	50/60	—	8/6	8/6	—
	2HK16502506B	27.6/30.2	45.1/52.1	45.1/52.1	30/35	50/60	50/60	10/8	8/6	8/6
060	2HK16501506B	29.0/31.3	45.1/52.1	—	30/35	50/60	—	10/8	8/6	—
	2HK16502006B	51.2/57.3	45.1/52.1	—	60/60	50/60	—	6/6	8/6	—
	2HK16502506B	29.0/31.3	45.1/52.1	45.1/52.1	30/35	50/60	50/60	10/8	8/6	8/6
F4FV060	2HK16501506B	33.0/34.8	45.1/52.1	—	35/35	50/60	—	8/8	8/6	—
	2HK16502006B	55.2/60.8	45.1/52.1	—	60/70	50/60	—	6/4	8/6	—
	2HK16502506B	33.0/34.8	45.1/52.1	45.1/52.1	35/35	50/60	50/60	8/8	8/6	8/6

- OCP = Over Current Protection device, must be HACR type Circuit Breaker or Time Delay fuse.
- 2HK16501906B only applies to F4FP036 Model.

**ELECTRICAL DATA - 3Ø - 208/230-3-60**

MODEL F4FP F4FV	HEATER MODEL	MAX. STATIC & MIN. CFM		TOTAL HEAT <sup>1</sup>				KW STAGING <sup>2</sup>					
		STATIC	TAP	KW		MBH		W1 ONLY		W2 ONLY		W1 + W2	
				208V	240V	208V	240V	208V	240V	208V	240V	208V	240V
024	2HK06501025B	0.5	LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
030	2HK06501025B	0.5	LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
	2HK06501525B	0.5	HI	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
036	2HK06501025B	0.5	LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
	2HK06501525B	0.5	HI	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
040	2HK06501025B	0.5	LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
	2HK06501525B	0.5	HI	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
042	2HK06501025B	0.5	LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
	2HK06501525B	0.5	LO	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
045	2HK06501025B	0.5	MED	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
	2HK06501525B	0.5	HI	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
048	2HK06501025B	0.5	LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
	2HK06501525B	0.5	LO	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
060	2HK06501025B	0.5	LO	7.5	10.0	25.6	34.1	3.8	5.0	7.5	5.0	7.5	10.0
	2HK06501525B	0.5	LO	11.3	15.0	38.6	51.2	3.8	5.0	7.5	10.0	11.3	15.0
F4FV060	2HK06501025B	0.5	1335	7.5	10.0	25.6	34.1	3.8	5.0	7.5	10.0	7.5	10.0
	2HK06501525B	0.5	1335	11.3	15.0	38.8	51.2	3.8	5.0	7.5	10.0	11.3	15.0

- See Conversion Table below.
- If first stage heat is connected to W1/66, otherwise refer to Table below.

**KW & MBH CONVERSIONS - FOR TOTAL POWER INPUT REQUIREMENT**

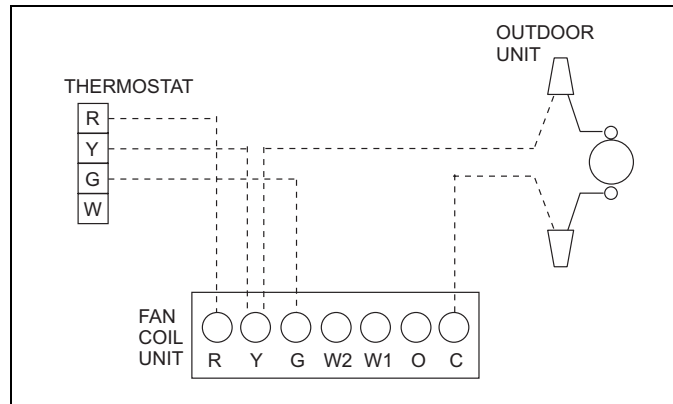
FOR	230V	OPERATION MULTIPLY	240V	TABULATED KW & MBH BY	.918
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**ELECTRICAL DATA - 3Ø - (SINGLE SOURCE POWERSUPPLY) - COPPER WIRE**

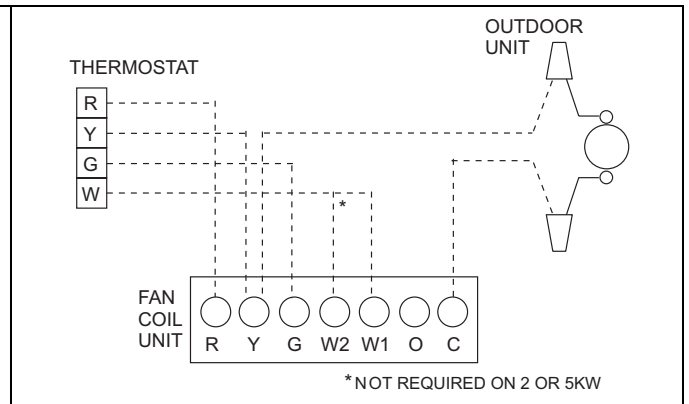
MODEL F4FP F4FV	HEATER MODELS	FIELD WIRING					
		MIN. CIRCUIT AMPACITY		MAX. O.C.P. <sup>1</sup> AMPS		75°C WIRE SIZE - AWG	
		208V	240V	208V	240V	208V	240V
024	2HK06501025B	41.2	46.5	45	50	8	8
030	2HK06501025B	42.2	47.4	45	50	8	8
	2HK06501525B	42.2	47.4	45	50	8	8
036	2HK06501025B	43.1	48.2	45	50	8	8
	2HK06501525B	43.1	48.2	45	50	8	8
040	2HK06501025B	42.2	47.4	45	50	8	8
	2HK06501525B	42.2	47.4	45	50	8	8
042	2HK06501025B	44.2	49.1	45	50	8	8
	2HK06501525B	44.2	49.1	45	50	8	8
045	2HK06501025B	42.8	47.9	45	50	8	8
	2HK06501525B	42.8	47.9	45	50	8	8
048	2HK06501025B	43.7	48.7	45	50	8	8
	2HK06501525B	43.7	48.7	45	50	8	8
060	2HK06501025B	45.0	49.7	50	50	8	8
	2HK06501525B	45.0	49.7	50	50	8	8
F4FV060	2HK06501025B	48.6	52.9	50	60	8	6
	2HK06501525B	48.6	52.9	50	60	8	6

1. O.C.P. = Over Current Protection device, must be HACR type Circuit Breaker or Time Delay fuse.

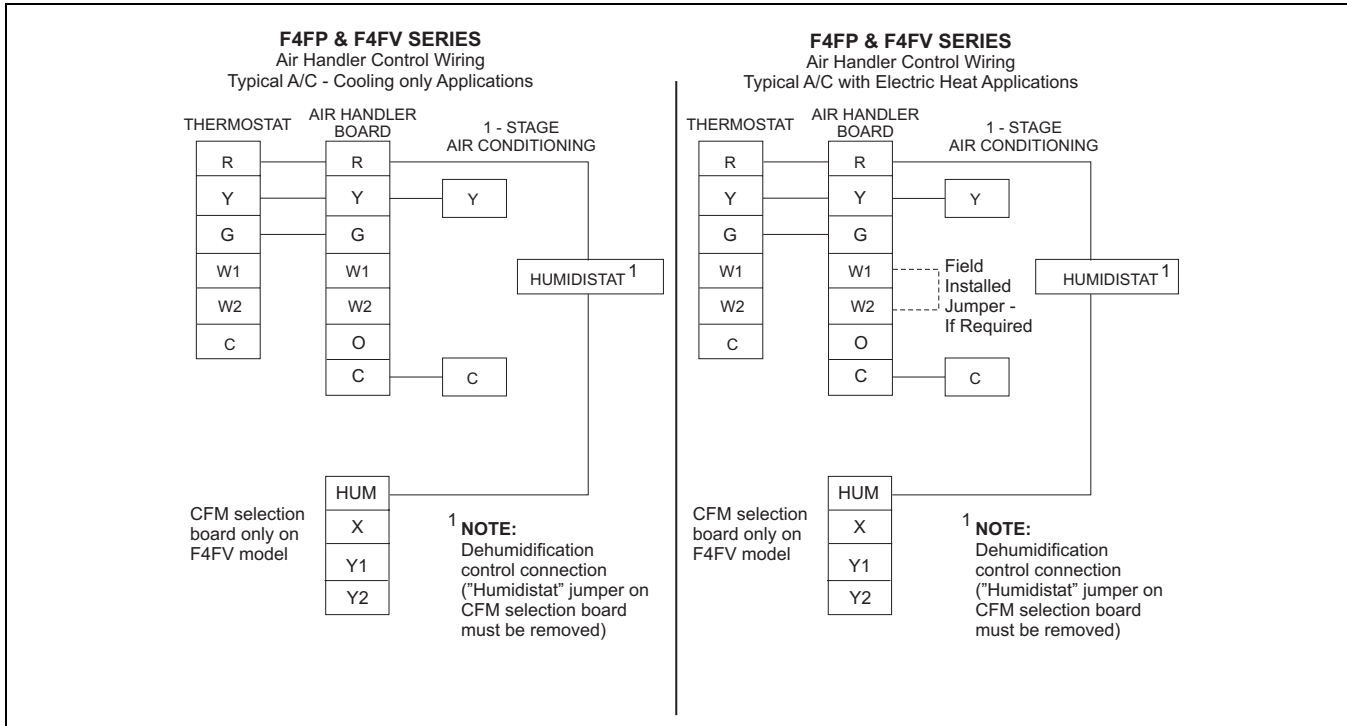
**FIELD WIRING CONNECTION - COOLING ONLY**



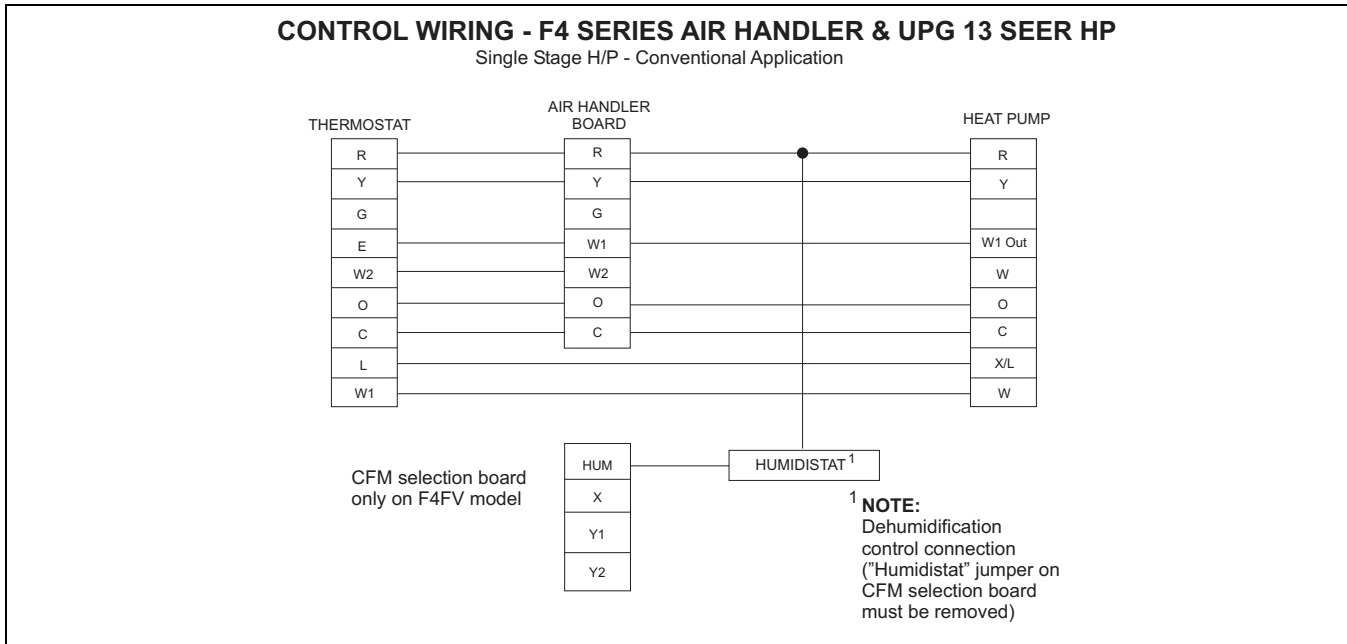
**FIELD WIRING CONNECTION - WITH HEATER KIT**



**FIELD WIRING CONNECTIONS - COOLING MODELS WITH ELECTRIC HEAT WIRING**



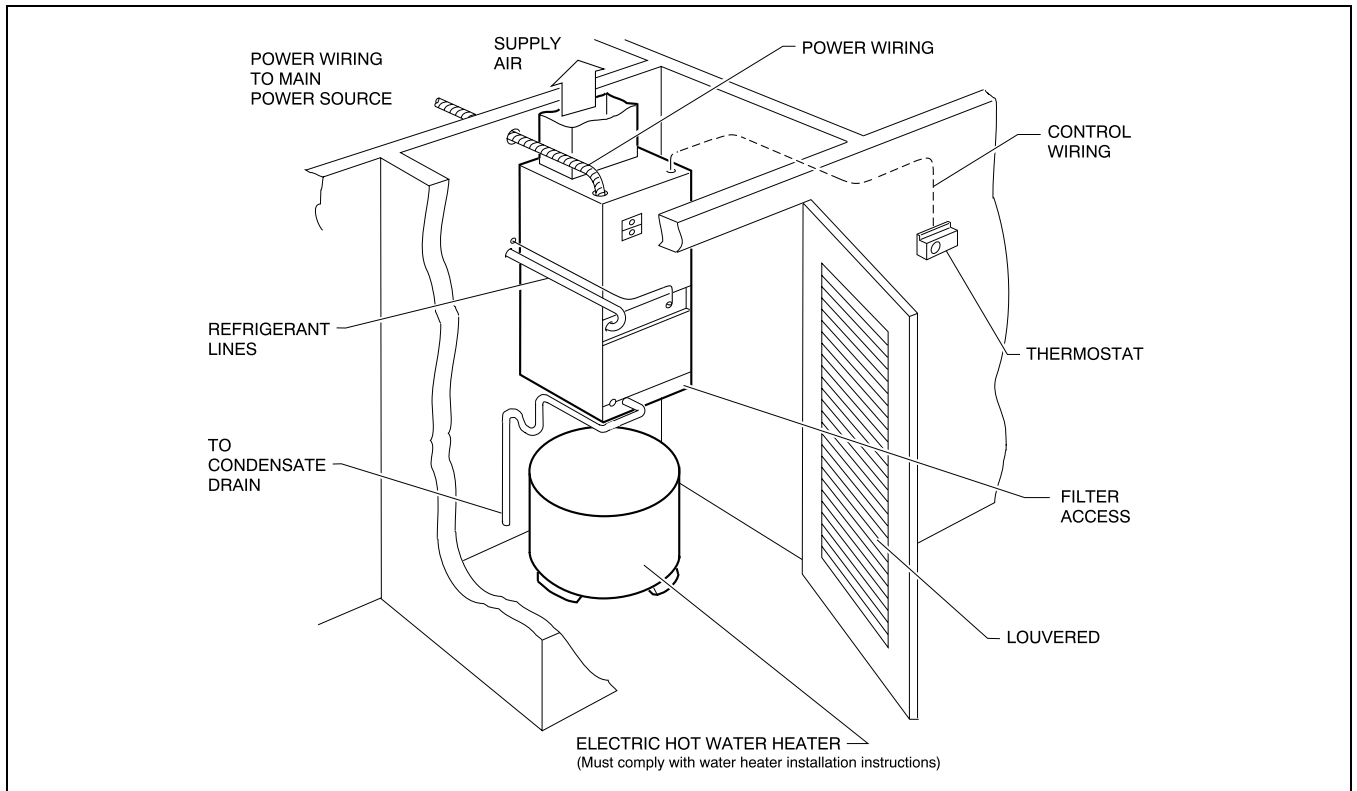
**FIELD WIRING CONNECTIONS - SINGLE STAGE HEAT PUMP**



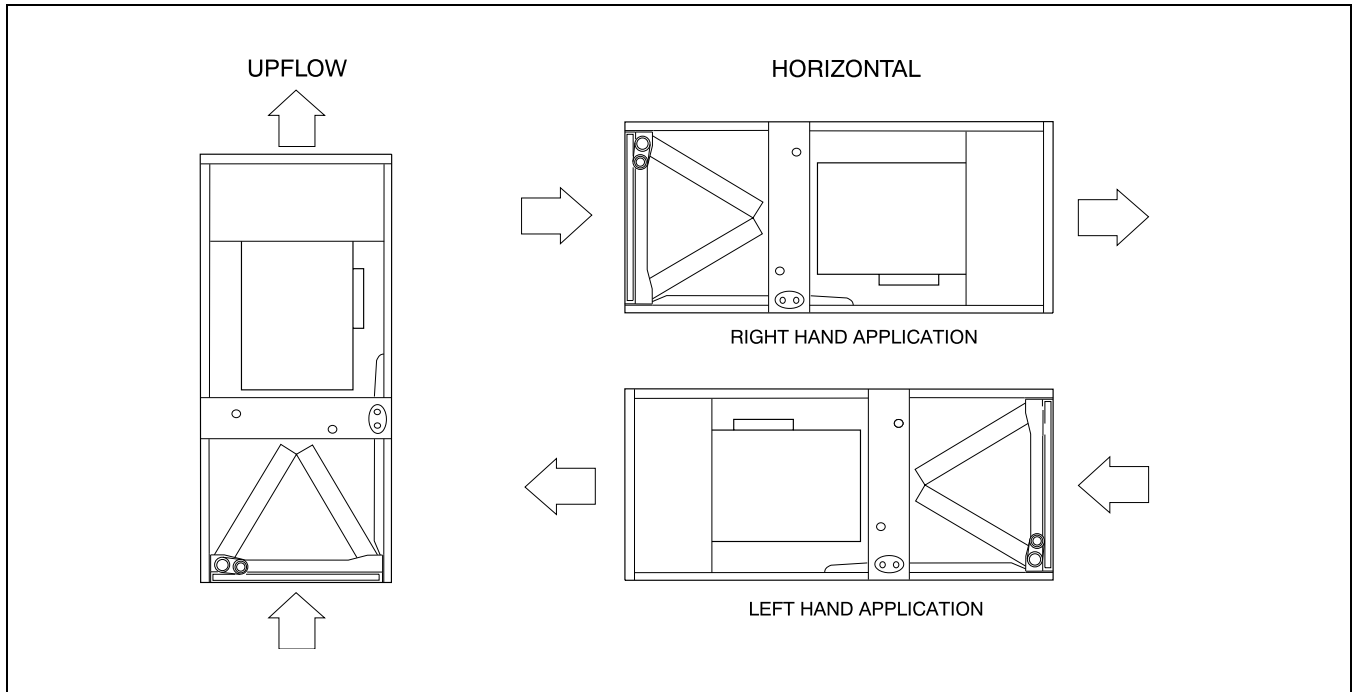
**NOTES:**

1. "Y" Terminal on Air Handler Control Board must be connected for full CFM and applications requiring 60 second Blower Off Delay for SEER enhancement.
2. <sup>1</sup>Optional Dehumidification Humidistat contacts open on rise.
3. For F4FV model - Remove Humidistat Jumper on CFM Selection Board - if used.
4. For F4FV model - For Heat Pump Applications - Remove Heat Pump Jumper on CFM Selection Board.
5. To change quantity of heat during HP defrost cycle - Reverse connections at W1 and W2 on Air Handler Control Board.

### TYPICAL INSTALLATION



### TYPICAL APPLICATIONS



## NOTES

## NOTES

# NOTES