



TECHNICAL GUIDE

SINGLE PIECE AIR HANDLERS

FOR USE WITH SPLIT-SYSTEM
COOLING & HEAT PUMPS

HEAT PUMP MODELS:

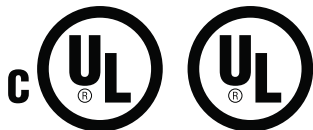
F2RP/F2FP018 THRU 060
F3RP/F3FP018 THRU 060(T)

COOLING MODELS

F2RC/F2FC024 THRU 036

VARIABLE SPEED MODEL:

F2FV060
F3FV060(T)



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

Visit us on the web at www.york.com for the most up-to-date technical information.

Additional rating information can be found at www.ariprimer.net.

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. F*RP/F2RC models have 1/2 inch fiber glass insulation and F*FP/F2FC & F*FV 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.

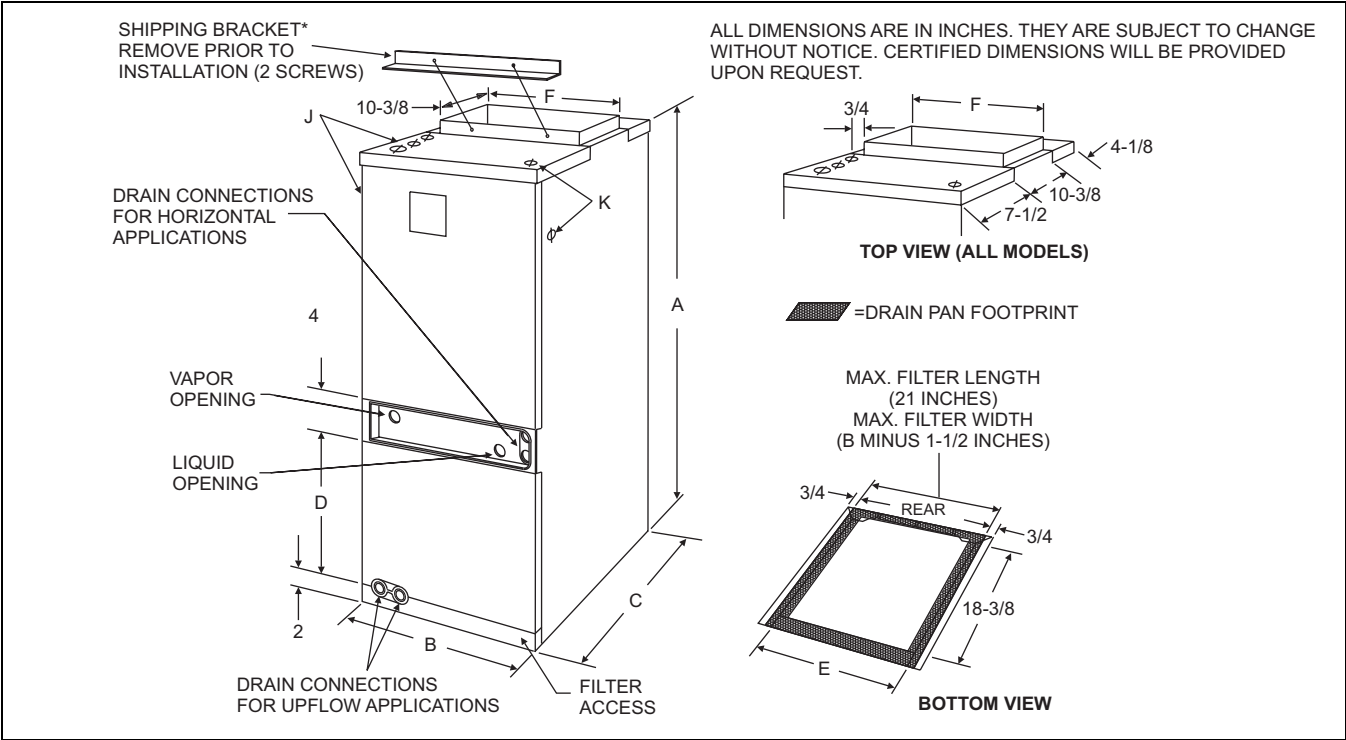
FACTORY INSTALLED TXV - Air handler models F3RP(T)/F3FP(T) & F3FV(T) have factory installed TXV metering device. All other models are orifice metered.

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 F2RP/F3RP(T)/ F2FP/F3FP(T)/ F2RC/F2FC/ F2FV/F3FV(T)	DIMENSIONS						WIRING K.O.S ¹		REFRIGERANT CONNECTIONS LINE SIZE	
	A	B	C	D	E	F	J	K	LIQUID	VAPOR
	HEIGHT	WIDTH	DEPTH				POWER	CONTROL		
018 (RP/FP)	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
024	40-3/4	18			14-7/8	16-1/2				5/8
030	40-3/4	18			14-7/8	16-1/2				3/4
036(RC)	40-3/4	18			14-7/8	16-1/2				3/4
036(RP)	40-3/4	21-1/2			18-3/8	20				3/4
040 ²	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 ²	50-3/4	24			17-3/8	20-7/8				22-1/2
048 (FP)	50-3/4	24	20-7/8	22-1/2		7/8				
060 (FP)	50-3/4	24	20-7/8	22-1/2		7/8				
060 ² (FV)	50-3/4	24	20-7/8	22-1/2		7/8				

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

COIL TECHNICAL DATA

AIR HANDLER MODEL	APPLICATION	REFRIG. CONN. TYPE	STD. ORIFICE SIZE	FACE AREA (SQ. FT.)	DEEP ROWS	FINS PER INCH	COIL SLABE SIZE		TUBE GEOMETRY	TUBE DIA.	FIN. TYPE	METERING DEVICE
							H	W				
F2RP/FP018	A/C & HP	Sweat	53	2.43	2	14	10	17.5	1x.886	3/8	Enhanced	Orifice
F2RC/FC024	A/C		61	2.92	2	14	12	17.5				Orifice
F2RP/FP024	A/C & HP		61	3.40	2	14	14	17.5				Orifice
F3RP024	A/C & HP		61	3.40	2	14	14	17.5				TXV
F2RC/FC030	A/C		65	2.92	2	14	12	17.5				Orifice
F2RP/FP030	A/C & H/P		65	3.89	2	14	16	17.5				Orifice
F3RP030	A/C & H/P		65	3.89	2	14	16	17.5				TXV
F2RC/FC036	AC		73	3.89	2	14	16	17.5				Orifice
F2RP/FP036	A/C & H/P		75	3.40	3	12	14	17.5				Orifice
F3RP036	A/C & H/P		75	3.40	3	12	14	17.5				TXV
F2FP040	A/C & H/P		63	3.89	3	11	16	17.5				Orifice
F3FP040	A/C & H/P		63	3.89	3	11	16	17.5				TXV
F2RP/FP042	A/C & H/P		78	3.89	3	11	16	17.5				Orifice
F3RP042	A/C & H/P		78	3.89	3	11	16	17.5				TXV
F2FP045	A/C & H/P		78	5.83	3	12	24	17.5				Orifice
F3FP045	A/C & H/P		78	5.83	3	12	24	17.5				TXV
F2FP048	A/C & H/P		84	5.35	3	12	22	17.5				Orifice
F3FP048	A/C & H/P		84	5.35	3	12	22	17.5				TXV
F2FP060	A/C & H/P		90	5.83	3	12	24	17.5				Orifice
F3FP060	A/C & H/P		90	5.83	3	12	24	17.5				TXV
F2FV060	A/C & H/P		90	5.83	3	12	24	17.5				Orifice
F3FV060	A/C & H/P		90	5.83	3	12	24	17.5				TXV

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
UPFLOW / HORIZONTAL POSITIONS ONLY						
F2RP018	650	85 / 72	27.2	24.8	22.1	19.2
		80 / 67	25.1	22.6	20.0	17.3
		75 / 62	20.6	18.2	15.8	13.3
		70 / 57	16.7	14.5	12.1	9.4
F2RC024	800	85 / 72	31.1	28.3	25.2	21.9
		80 / 67	28.6	25.9	22.9	19.8
		75 / 62	23.5	20.8	18.0	15.1
		70 / 57	19.1	16.5	13.8	10.8
F(2,3)RP024	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
F2RC030	1050	85 / 72	31.1	28.3	25.3	22.1
		80 / 67	27.1	24.3	21.4	18.4
		75 / 62	21.8	19.0	18.0	14.4
		70 / 57	18.1	16.1	14.0	11.8
F(2,3)RP030	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
F2RC036	1200	85 / 72	41.6	37.8	33.8	29.8
		80 / 67	33.3	29.4	25.8	21.9
		75 / 62	26.0	21.9	23.9	17.8
		70 / 57	22.3	20.6	19.0	17.8
F(2,3)RP036	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
F(2,3)FP040	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
F(2,3)RP042	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
F(2,3)FP045	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
F(2,3)FP048	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
F(2,3)FP060	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
F(2,3)FV060	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 blowers 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.

HORIZONTAL DRAIN PAN - The drain pan kit is designed for field conversion to Horizontal left or right applications. Also available as factory installed option (horizontal right only).

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 ¹	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 AIR FLOW DATA¹ - F2RC/F2FC COOLING MODELS

MODEL ² F2RC/F2FC	BLOWER MOTOR SPEED	230 VOLTS									
		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	925	885	850	805	750	704	641	568	485	392
	Med.	820	800	765	720	680	629	568	497	411	315
	Low	645	620	595	570	535	492	445	378	261	144
030	High	1,205	1,150	1,090	1,025	990	901	815	715	599	464
	Med.	1,020	1,010	960	895	825	776	690	600	464	329
	Low	840	805	760	715	660	606	536	431	326	191
036	High	1,305	1,250	1,195	1,150	1,065	1,019	951	873	765	637
	Med.	1,225	1,175	1,125	1,070	1,000	953	897	817	726	611
	Low	1,055	1,015	980	930	880	822	753	670	586	468

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.
2. All FRP/FRC/FFP/FFC/FFV 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 DATA¹ - F2RC/F2FC COOLING MODELS

MODEL ² F2RC/F2FC	BLOWER MOTOR SPEED	208 VOLTS									
		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	833	797	765	725	675	634	577	511	437	353
	Med.	738	720	688	648	612	566	511	447	370	284
	Low	581	558	536	513	482	443	401	340	235	130
030	High	1,085	1,035	981	923	891	811	734	643	539	417
	Med.	919	909	864	805	742	698	621	540	418	296
	Low	756	725	684	644	594	546	483	388	293	172
036	High	1,175	1,125	1,076	1,035	959	917	856	786	689	573
	Med.	1,103	1,058	1,013	963	900	857	807	735	654	550
	Low	950	914	882	837	792	740	678	603	528	421

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1. Includes Return Air Filter and Largest Electric Heater.
2. All FRP/FRC/FFP/FFC/FFV 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 AIRFLOW DATA¹ - F(2,3)RP/F(2,3)FP HEAT PUMP MODELS

MODEL F2RP/F3RP/ F2FP/F3FP/ F2FV/F3FV	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
018	High	855	810	765	710	650	605	537	465	377	275
	Med.	765	730	695	650	590	539	479	409	324	229
	Low	645	620	590	555	505	473	415	348	250	123
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

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1. Includes Return Air Filter and Largest Electric Heater.

All FRP/FRC/FFP/FFC/FFV 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 DATA¹ - F(2,3)RP/F(2,3)FP HEAT PUMP MODELS

MODEL F2RP/F3RP/ F2FP/F3FP/ F2FV/F3FV	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
018	High	770	729	689	639	585	544	483	418	339	247
	Med.	689	657	626	585	531	486	432	369	292	207
	Low	581	558	531	500	455	426	374	313	226	111
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 FRP/FRC/FFP/FFC/FFV 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 - F(2,3)FV VARIABLE SPEED MODELS**CFM/TAP SELECTION - F(2,3)FV¹**

HIGH SPEED	COOLING AND	HEAT PUMP CFM
MODEL	JUMPER	SETTING
F(2,3)FV060	"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	TAP SELECTIONS
	F(2,3)FV060	"HEAT"
	1860	"A"
	1750	"B"
	1420	"C"
	1335	"D"

DELAY PROFILE

"DELAY" TAP	UNIT TYPE
Jumper at "A"	"N/A"
Jumper at "B"	"Two Stage Condensor"
Jumper at "C"	"System with TXV or with Solenoid Valve"
Jumper at "D"	"System without TXV or without Solenoid Valve"

Physical and Electrical Data

MODEL F2RC/F2FC/F2RP/F3RP(T)/F2FP		018	024	030	036(RP/FP)	036(RC/FC)	--
Blower - Diameter Width		9x6	10x6	10x8	10x8	10x8	--
Motor	HP	1/4	1/4	1/3	1/2	1/2	--
	Nominal RPM	1075	1075	1075	1075	1075	--
Voltage		208/230					
AMPS	Full Load	1.6/1.4	1.6/1.4	2.5/2.2	3.3/2.9	3.3/2.9	--
	Locked Rotor	3/3/2.9	3.3/2.9	6.2/5.5	7.4/6.5	7.4/6.5	--
Filter¹	Type	Disposable/Permanent					
	Size	16x20x1	16x20x1	16x20x1	20x20x1	16x20x1	--
	Permanent Type Kit	1PF601BK	1PF601BK	1PF601BK	1PF602BK	1PF601BK	
Shipping/Operating Weight (lbs.) - RP/FP		87/92	93/98	100/105	109/115	--	--
Shipping/Operating Weight (lbs.) - RC/FC		--	90/95	90/95	--	90/95	--
MODEL F2RP/F3RP(T)/F2FP/F3FP(T)/F2FV/F3FV(T)							
Blower - Diameter x Width		10x8	10x8	10x10	11x10	11x10	11x10
Motor	HP	1/3	3/4	1/3	1/2	3/4	1.0
	Nominal RPM	1075	1130	925	1085	1100	1200
Voltage		208/230					
Amps	Full Load	2.5/2.2	4.4/3.8	3.0/2.7	3.8/3.3	4.4/3.8	7.8/7.0
	Locked Rotor	6.2/5.5	11.9/10.3	4.8/4.1	4.6/4.0	8.4/7.3	--
Filter¹	Type	Disposable/Permanent					
	Size	16x20x1	20x20x1	22x20x1	22x20x1	22x20x1	22x20x1
	Permanent Type Kit	1PF601BK	1PF602BK	1PF603BK	1PF603BK	1PF603BK	1PF603BK
Shipping/Operating Weight (lbs.) - RP/FP		115/121	115/121	144/150	142/148	149/155	160
Shipping/Operating Weight (lbs.) - RC/FC		--	--	--	--	--	--

1. Field Supplied.

ELECTRICAL DATA - Cooling Only

MODEL F2RP/F3RP(T)/F2FP/F3FP(T)/ F2RC/F2FC/F2FV/F3FV(T)	TOTAL MOTOR AMPS		MINIMUM CIRCUIT AMPACITY		Max. O.C.P. ¹ Amps/ Type	MINIMUM WIRE SIZE A.W.G.
	208V	240V	208V	240V		
018 (N/H) 06	1.6	1.5	2.0	1.8	15	14
024 (N/H) 06	1.6	1.5	2.0	1.8	15	14
030(N/H) 06	2.5	2.3	3.2	2.8	15	14
036 (N,H) 06	3.3	3.0	4.2	3.7	15	14
040H06	2.5	2.3	3.2	2.8	15	14
042(N/H) 06	4.4	4.0	5.5	4.8	15	14
045H06	3.1	2.6	3.9	3.4	15	14
048(N/H) 06	3.9	3.5	4.9	4.3	15	14
060(N/H) 06	4.6	4.4	6.4	5.5	15	14
VARIABLE SPEED MODEL						
F(2,3)FV06H06	--	--	--	--	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 F2RP/F3RP(T)/F2FP/F3FP(T)/ F2RC/F2FC/F2FV/F3FV(T)	HEATER ¹ MODEL	MAX. STATIC & MIN. CFM		TOTAL HEAT ²				KW STAGING					
				KW		MBH		W1 ONLY		W2 ONLY		W1 + W2	
				STATIC	TAP	208V	240V	208V	240V	208V	240V	208V	240V
018(N/H)06	2HK*6500206B	0.5		1.9	2.5	6.5	8.5	1.9	2.5	1.9	2.5	1.9	2.5
	2HK*6500506B		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
024(N/H)06	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(N/H)06	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(N/H)06	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 ³		HI	13.2	17.6	45.1	60.1	2.8	3.8	10.4	13.8	13.2	17.6
040H06	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(N/H)06	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
045H06	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(N/H)06	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(N/H)06	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
F*FV060H06	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: F2FP040 & F2FP045 - Only available with factory installed horizontal drain pan.

- 0 or as follows: 0 = No Breaker, 1 = Breaker.
- See Conversion Table below:
- 2HK16501906B only applies to F(2,3)RP and F(2,3)FP036 Models.

KW & MBH CONVERSIONS - FOR TOTAL POWER INPUT REQUIREMENT

FOR	208V	OPERATION MULTIPLY	240V	TABULATED KW & MBH BY	.751
	230V		240V		.918

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

MODEL F2RP/F3RP(T)/F2FP/F3FP(T)/ F2RC/F2FC/F2FV/F3FV(T)	HEATER MODEL ¹	HEATER AMPS 240V	FIELD WIRING					
			MIN. CIRCUIT AMPACITY		Max. O.C.P. ² Amps/ Type		75°C WIRE SIZE - AWG	
			208V	240V	208V	240V	208V	240V
018(N/H)06	2HK*6500206B	10.4	13.3	14.6	15	15	14	14
	2HK*6500506B	20.8	24.7	27.7	25	30	10	10
	2HK*6500806B	31.3	35.5	40.7	40	45	8	8
024(N/H)06	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(N/H)06	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(N/H)06	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 ³	73.3	83.3	95.2	90	100	3	3
040H06	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(N/H)06	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
045H06	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(N/H)06	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(N/H)06	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
F*FV060H06	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 F(2,3)RP and F(2,3)FP036 Models.

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

MODEL F2RP/F3RP(T)/ F2FP/F3FP(T)/ F2RC/F2FC/ F2FV/F3FV(T)	HEATER MODEL	MIN. CIRCUIT AMPACITY			Max. O.C.P. ¹ 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(N/H)06	2HK16501506B	25.8/28.7	45.1/52.1	-	30/30	50/60	-	10/10	8/6	-
036(N/H)06	2HK16501506B	26.8/29.5	45.1/52.1	-	30/30	50/60	-	10/10	8/6	-
F*FRP/F*FP ONLY	2HK16501906B ³	38.3/42.6	45.7/52.6	-	40/45	50/60	-	8/8	8/6	-
040H06	2HK16501506B	25.8/28.7	45.1/52.1	-	30/30	50/60	-	10/10	8/6	-
042(N/H)06	2HK16501506B	28.1/30.5	45.1/52.1	-	30/35	50/60	-	10/8	8/6	-
045H06	2HK16501506B	26.6/29.3	45.1/52.1	-	30/30	50/60	-	10/10	8/6	-
048(N/H)06	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(N/H)06	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
F*FV060H06	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

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

ELECTRICAL DATA - 3Ø - 208/230-3-60

MODEL F2RP/F3RP(T)/ F2FP/F3FP(T)/ F2RC/F2FC/ F2FV/F3FV(T)	HEATER MODEL	MAX. STATIC & MIN. CFM		TOTAL HEAT ¹				KW STAGING ²					
		STATIC	TAP	KW		MBH		W1 ONLY		W2 ONLY		W1 + W2	
				208V	240V	208V	240V	208V	240V	208V	240V	208V	240V
024(N/H)06	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(N/H)06	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(N/H)06	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
040H06	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(N/H)06	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
045H06	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(N/H)06	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(N/H)06	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
F*FV060H06	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

1. See Conversion Table page 6.
2. If first stage heat or 66 is connected to W₁, otherwise refer to Table at bottom of page 11.
3. 2HK16501906B only applies to F(2,3)RP and F(2,3)FP036 Models.

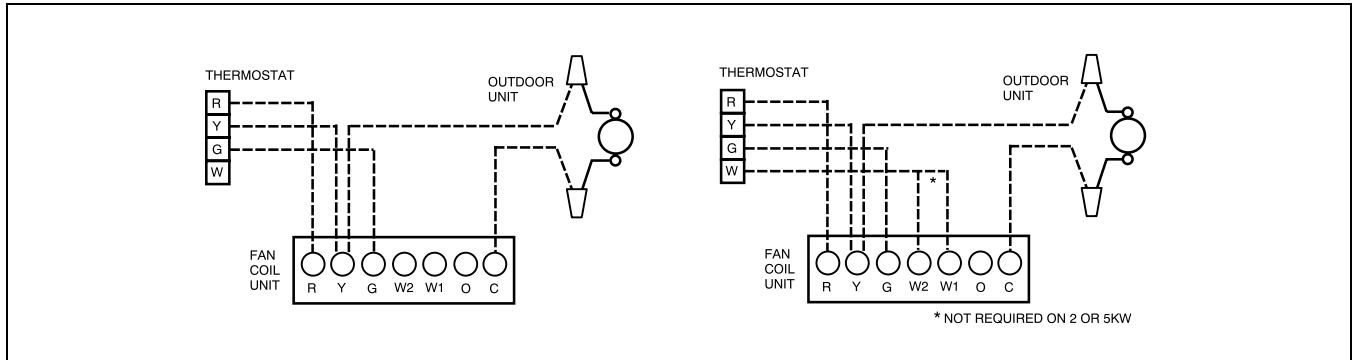
ELECTRICAL DATA - 3Ø - (SINGLE SOURCE POWERSUPPLY) - COPPER WIRE

MODEL F2RP/F3RP(T)/F2FP/F3FP(T)/ F2RC/F2FC/F2FV/F3FV(T)	HEATER MODELS	FIELD WIRING					
		MIN. CIRCUIT AMPACITY		MAX. O.C.P. ¹ AMPS		75°C WIRE SIZE - AWG	
		208V	240V	208V	240V	208V	240V
024(N/H)06	2HK06501025B	41.2	46.5	45	50	8	8
030(N/H)06	2HK06501025B	42.2	47.4	45	50	8	8
	2HK06501525B	42.2	47.4	45	50	8	8
036(N/H)06	2HK06501025B	43.1	48.2	45	50	8	8
	2HK06501525B	43.1	48.2	45	50	8	8
040H06	2HK06501025B	42.2	47.4	45	50	8	8
	2HK06501525B	42.2	47.4	45	50	8	8
042(N/H)06	2HK06501025B	44.2	49.1	45	50	8	8
	2HK06501525B	44.2	49.1	45	50	8	8
045H06	2HK06501025B	42.8	47.9	45	50	8	8
	2HK06501525B	42.8	47.9	45	50	8	8
048(N/H)06	2HK06501025B	43.7	48.7	45	50	8	8
	2HK06501525B	43.7	48.7	45	50	8	8
060(N/H)06	2HK06501025B	45.0	49.7	50	50	8	8
	2HK06501525B	45.0	49.7	50	50	8	8
F*FV060H06	2HK06501025B	48.6	52.9	50	60	8	6
	2HK06501525B	48.6	52.9	50	60	8	6

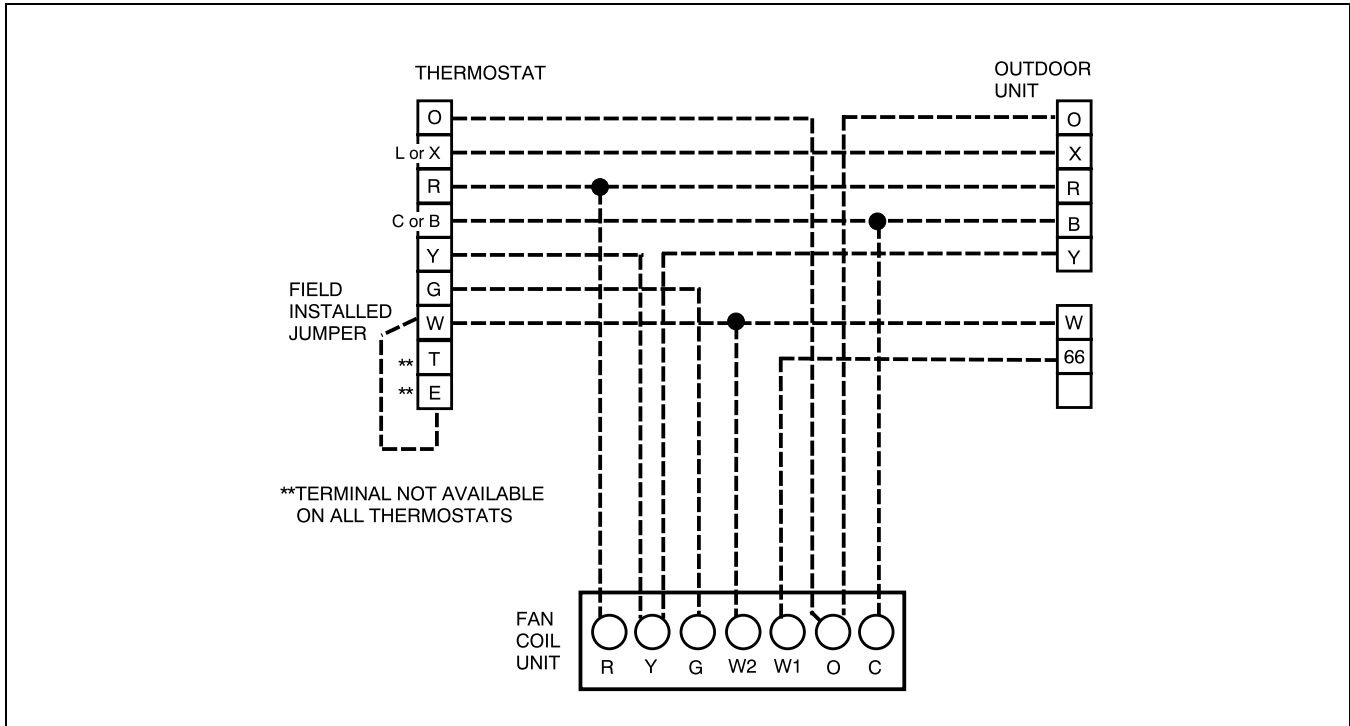
1. O.C.P. = Over Current Protection device, must be HACR type Circuit Breaker or Time Delay fuse.

FIELD WIRING CONNECTION - COOLING ONLY

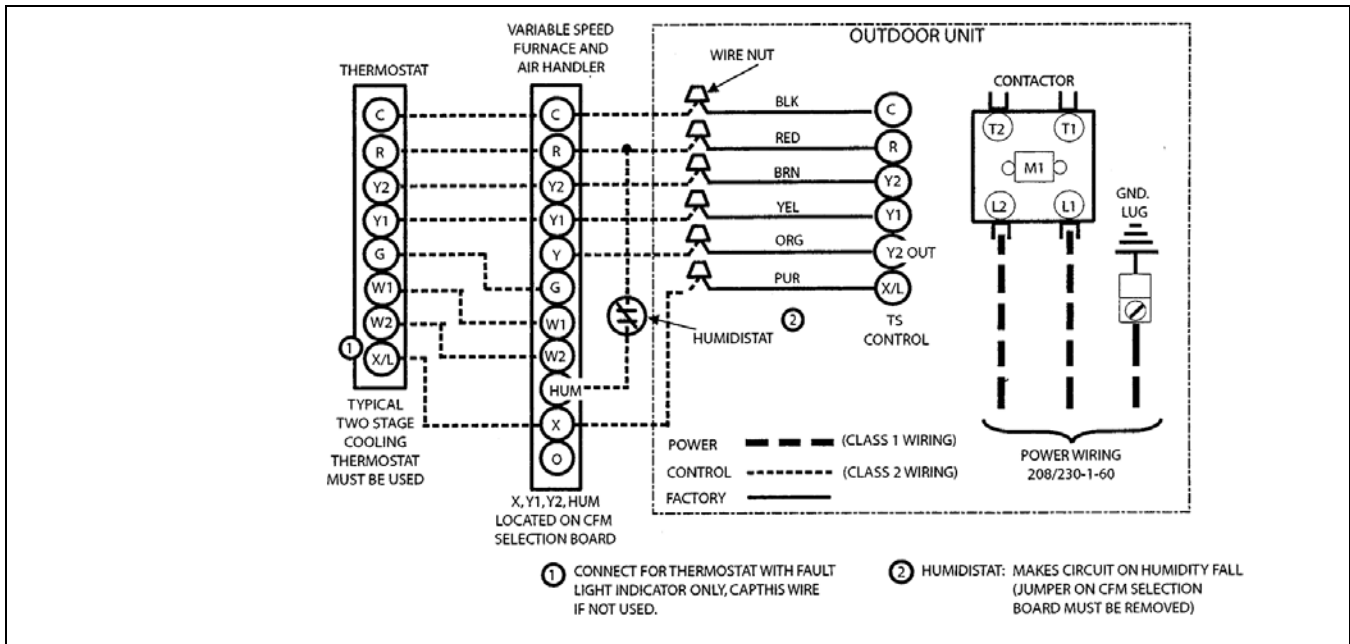
FIELD WIRING CONNECTION - WITH HEATER KIT



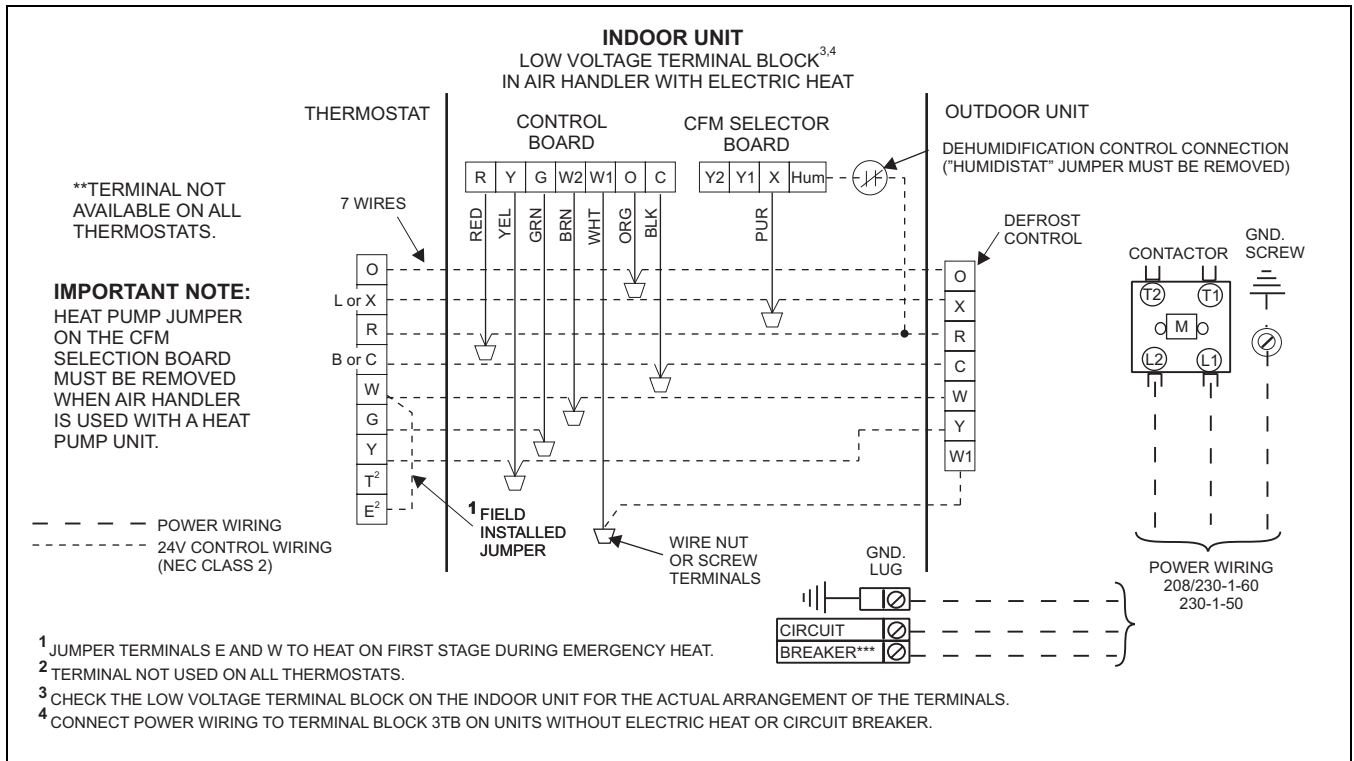
FIELD WIRING CONNECTIONS - HEAT PUMP WITH HEATER KIT - F(2,3)RP/F(2,3)FP



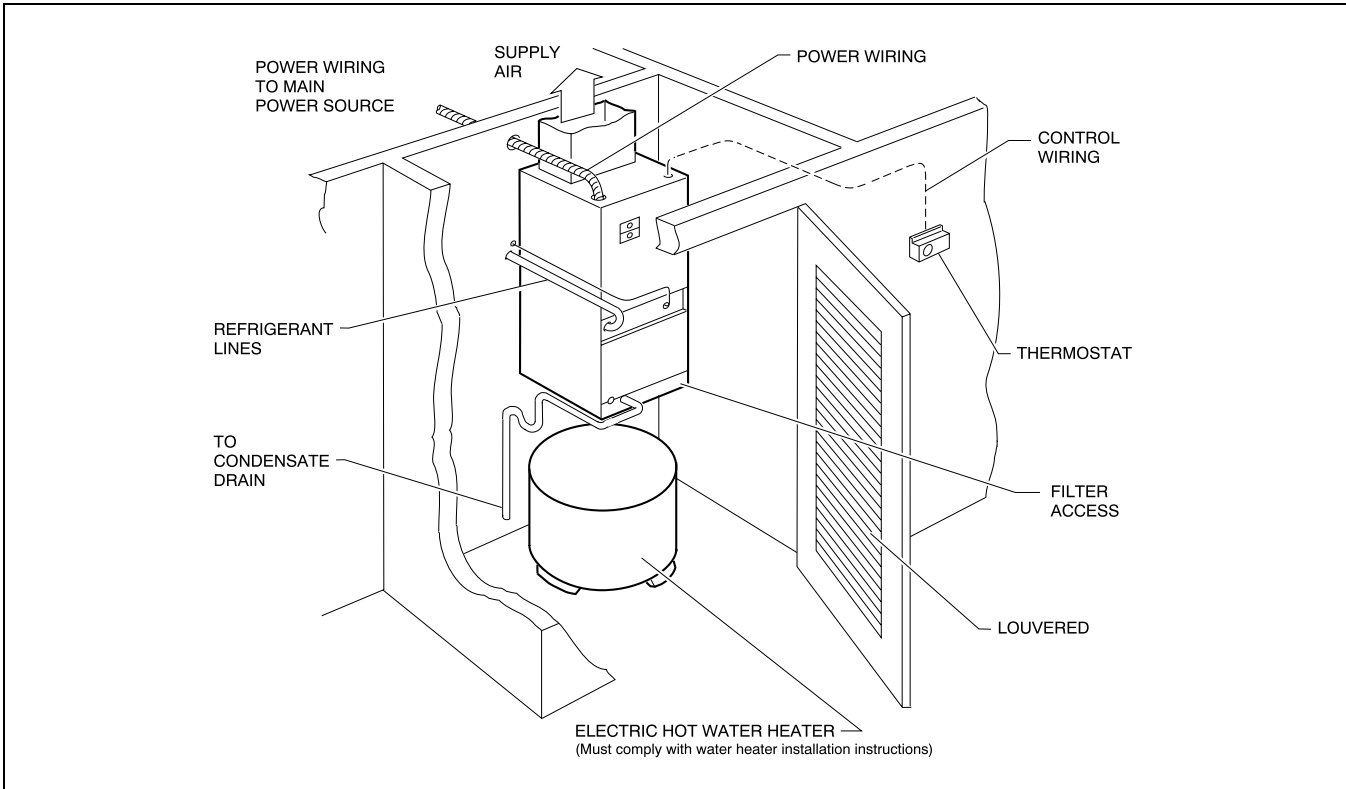
FIELD WIRING CONNECTIONS - TWO STAGE COOLING MODELS WITH F(2,3)FV VARIABLE SPEED MODEL ONLY



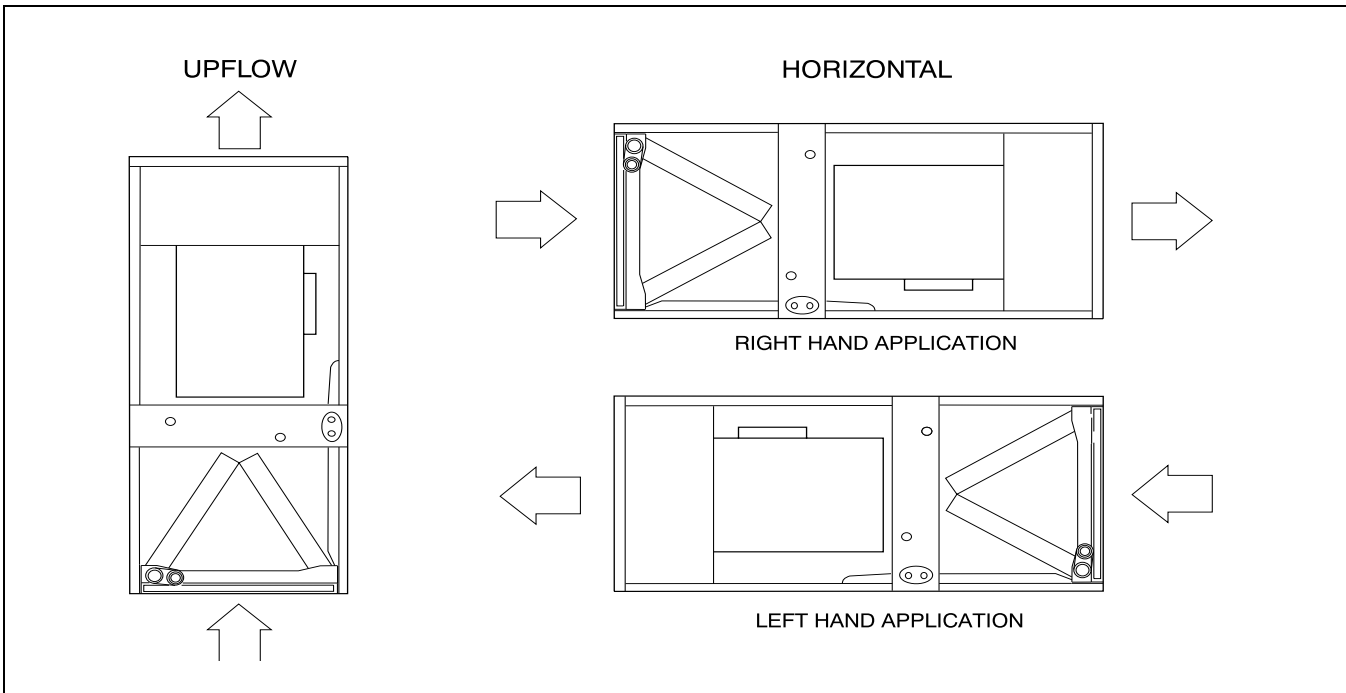
FIELD WIRING CONNECTIONS - HEAT PUMP MODELS WITH F(2,3)FV



TYPICAL INSTALLATION



TYPICAL APPLICATIONS



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