



FIRST-PAK[™]

HP 

*Space Constrained Heat Pump
with Electric Heat*

1.0 - 2.5 Tons

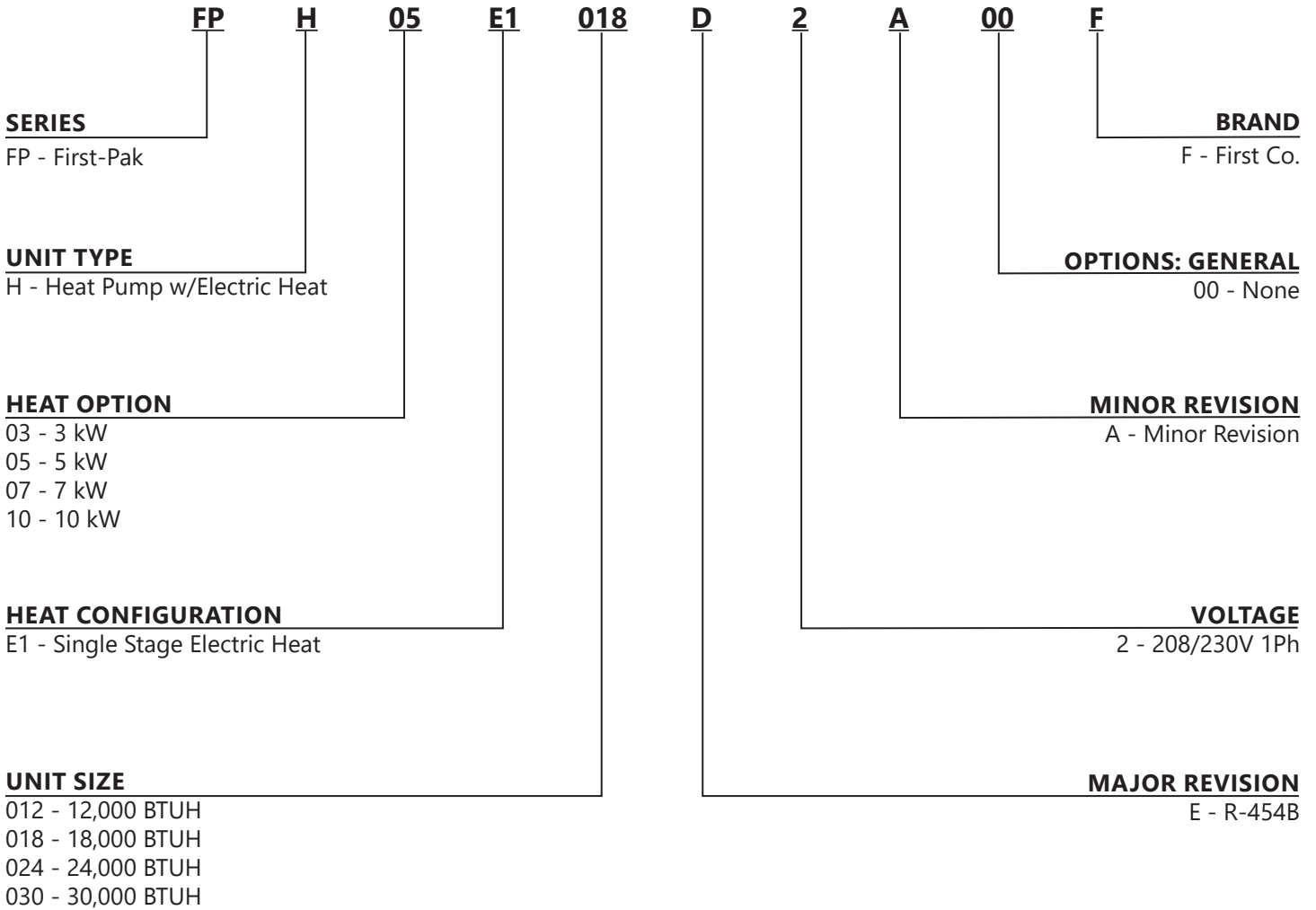
3 – 10 kW Electric Heat

11.9 SEER2 & 6.3 HSPF2

R-454B



NOMENCLATURE



In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice.

FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

PRODUCT DESCRIPTION

- Self-contained packaged units with heat pump cooling and electric back up heat.
- Pre-wired and pre-charged with R-454B refrigerant.
- Eliminates the need for outdoor units, electrical lines, and refrigerant lines.
- FPH units are compatible replacements for Magic Pak PWC.

STANDARD FEATURES

- Insulated chassis compartment to improve cooling performance, reduce noise and prevent sweating
- Blower collar locking mechanism to improve seal between cooling chassis and cabinet
- High efficiency ECM indoor blower motor with multiple speed taps for precise airflow selection
- High efficiency ECM outdoor fan motor to improve system efficiency
- Dual inlet indoor blower to lower fan RPMs, improve efficiency and reduce noise.
- High efficiency single stage scroll and rotary compressors
- Double isolated compressor mount to lower compressor noise and vibration
- Larger evaporator coil with low face velocity for improved cooling performance.
- Two drain pans with corrosion resistant coating to drain condensate in cooling and heating operations.
- Factory installed condensate float switch for overflow protection.
- Two thermal expansion valves (TXVs) for both cooling and heating to optimize performance.
- Operates down to as low as 5°F ambient temperature.
- Time-temperature defrost board with selectable defrost interval times (30, 60, 90 mins.) and test mode.
- High and low pressure switch protection.
- Single stage electric heat with automatic reset limit switch and non-resettable fuse link.
- Units charged over 4lbs come with factory installed refrigerant leak mitigation.

SERVICEABILITY FEATURES

- All electrical components and control board are serviceable from front of the unit.
- Slide out cooling chassis for ease of maintenance, service and replacement.
- Easily accessible refrigeration service ports located on exterior of cooling chassis with temperature probe area
- Slide out electric heater for ease of maintenance, service and replacement.

INSTALLED FEATURE

- Drain Pan Heater Kit pre-installed in each unit.

LIMITED WARRANTY

5 year limited warranty on parts and compressor.

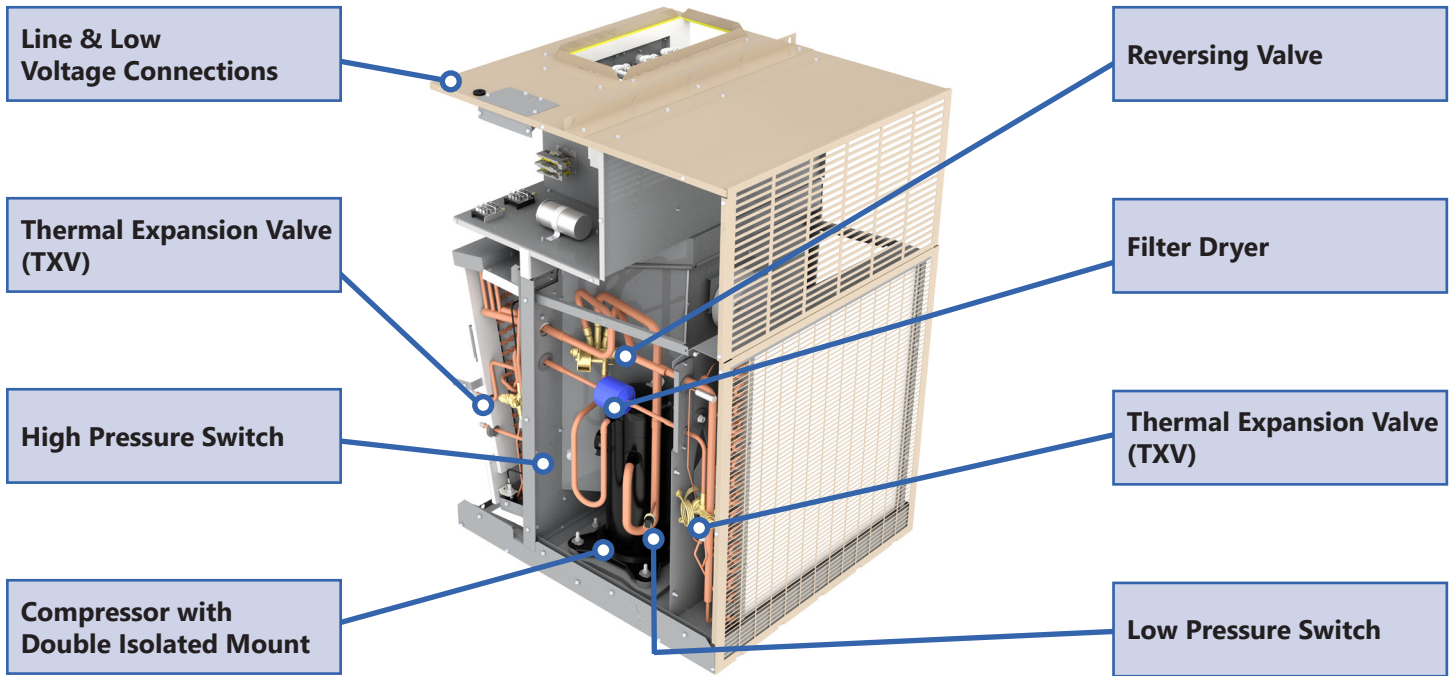
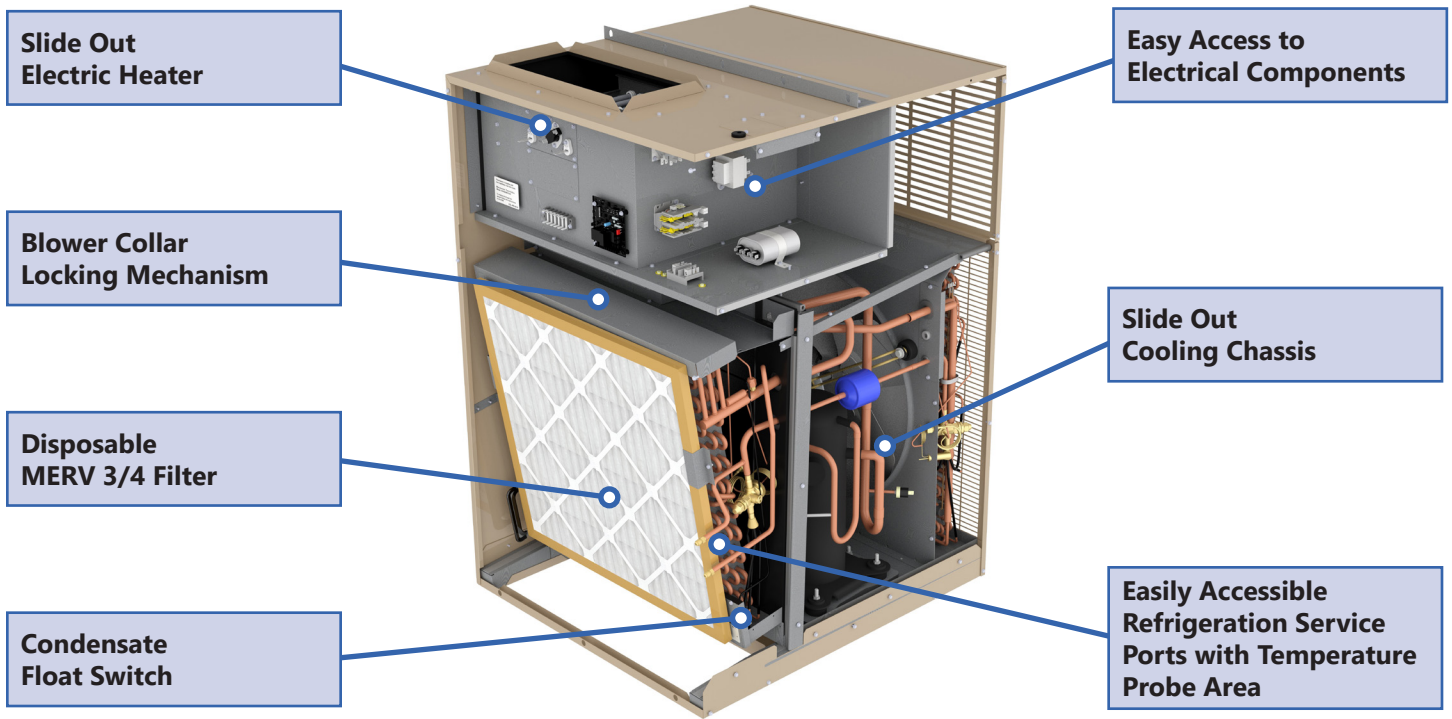
ACCESSORIES

- Wall Sleeves
- Architectural Louvers
- Drain Pan Heater Kit - Wiring Harness EW84060 kit (field installed only)
- Filler Plate for Magic-Pak Replacement Kit. (9KFPADAPT)

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SPACE CONSTRAINED HEAT PUMP

FEATURES AND BENEFITS



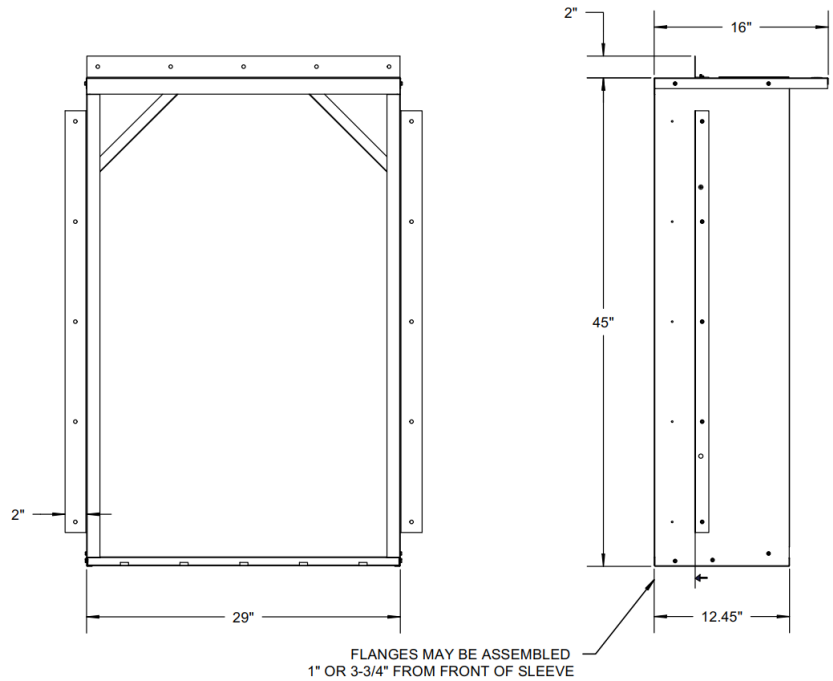
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SPACE CONSTRAINED HEAT PUMP

ACCESSORIES WALL SLEEVES

- Part number 929-10
- Ships unassembled in carton



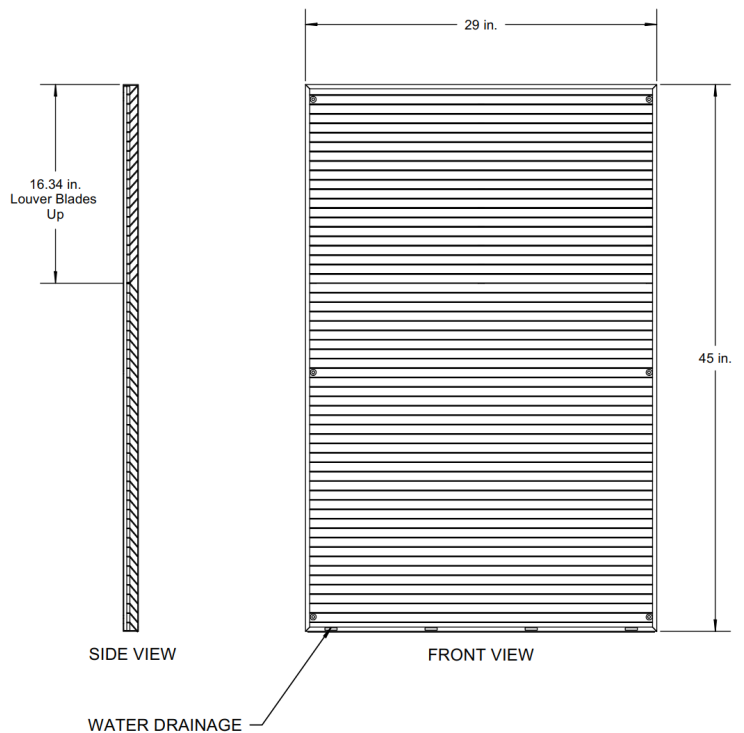
ALUMINUM ARCHITECTURAL LOUVERS (OPTIONAL)

- Part number G230A Clear Anodized Finish
- Part number G230S* Custom Painted Finish

STANDARD PAINT COLORS

*ASCOT WHITE (19)	*LIGHT STONE (43)	*SHELBURNE (69)
*BONE WHITE (24)	*PORTLAND STONE (49)	*MEDIUM BRONZE (72)
*CORONADO RED (34)	*TAUPE (52)	*DARK BRONZE (75)
*FOREST GREEN (36)	*SAHARA TAN (65)	*STONE GRAY (78)
*HERRINGBONE (37)	*SANDSTONE (67)	*BLACK (89)

*Custom Color with paint matching.



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FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

PHYSICAL DATA

Model Number	FPH03E1012D	FPH05E1012D	FPH07E1012D	FPH05E1018D	FPH07E1018D	FPH10E1018D
Compressor Qty/Type	Rotary (1)	Rotary (1)	Rotary (1)	Rotary (1)	Rotary (1)	Rotary (1)
Factory Charge (R-454B) lbs. [kg]	4.0 [1.8]	4.0 [1.8]	4.0 [1.8]	4.4 [2.0]	4.4 [2.0]	4.4 [2.0]
Compressor Capacitor	35/370	35/370	35/370	35/370	35/370	35/370
Condenser Fan HP [kW]	1/5 [.15]	1/5 [.15]	1/5 [.15]	1/3 [.25]	1/3 [.25]	1/3 [.25]
Indoor Fan HP [kW]	1/4 [.17]	1/4 [.17]	1/4 [.17]	1/4 [.17]	1/3 [.25]	1/3 [.25]
Blower Size (D x W) in. [cm]	10.0" x 6.0" [25.4 x 15.2]					
Condenser Dimension (H x W) in. [cm]	26.5 x 22.3 [67.2 x 56.5]					
Evaporator Dimension (H x W) in. [cm]	23.2 x 22.3 [58.8 x 56.5]			24.0 x 22.0 [61.0 x 55.9]		
Filter Size (H x W) in. [cm]	24.0 x 24.0 [61.0 x 61.0]					
Electric Heater [kW] @240V	3	5	7 (2 x 3.5 kW)	5	7 (2 x 3.5 kW)	10 (2 x 5 kW)
Max. Static Pressure IWC [pa]	0.5 [125]					
Operating Weight lb. [kg]	265 [120]	265 [120]	265 [120]	300 [136]	300 [136]	300 [136]
Shipping Weight lb. [kg]	295 [133]	295 [133]	295 [133]	330 [149]	330 [149]	330 [149]

FPE Models	FPH05E1024D	FPH07E1024D	FPH10E1024D	FPH05E1030D	FPH07E1030D	FPH10E1030D
Compressor Qty/Type	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)
Factory Charge (R-454B) lbs. [kg]	4.0 [1.8]	4.0 [1.8]	4.0 [1.8]	4.9 [2.2]	4.9 [2.2]	4.9 [2.2]
Compressor Capacitor	35/370	35/370	35/370	40/370	40/370	40/370
Condenser Fan HP [kW]	1/3 [.25]	1/3 [.25]	1/3 [.25]	1/3 [.25]	1/3 [.25]	1/3 [.25]
Indoor Fan HP [kW]	1/3 [.25]	1/2 [.37]	1/2 [.37]	1/2 [.37]	1/2 [.37]	1/2 [.37]
Blower Size (D x W) in. [cm]	10.0 x 6.0 [25.4 x 15.2]					
Condenser Dimension (H x W) in. [cm]	26.5 x 22.3 [67.2 x 56.5]					
Evaporator Dimension (H x W) in. [cm]	24.0 x 22.0 [61.0 x 55.9]					
Filter Size (H x W) in. [cm]	24.0 x 24.0 [61.0 x 61.0]					
Electric Heater [kW] @240	5	7 (2 x 3.5 kW)	10 (2 x 5 kW)	5	7 (2 x 3.5 kW)	10 (2 x 5 kW)
Max. Static Pressure IWC [pa]	0.5 [125]					
Operating Weight lb. [kg]	305 [138]	305 [138]	305 [138]	310 [140]	310 [140]	310 [140]
Shipping Weight lb. [kg]	335 [151]	335 [151]	335 [151]	340 [153]	340 [153]	340 [153]

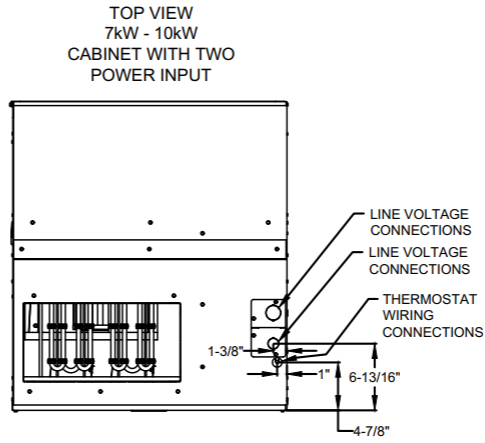
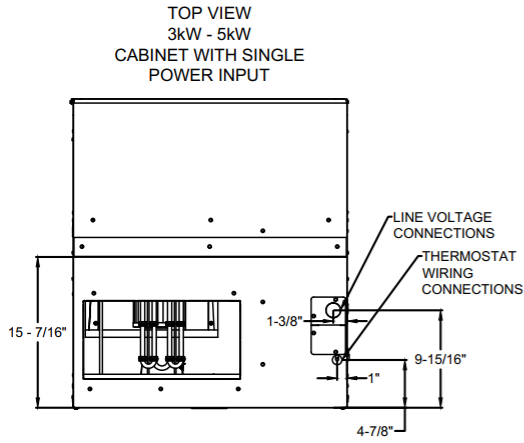
NOTE: * Electric heat is single stage and wired for single W signal

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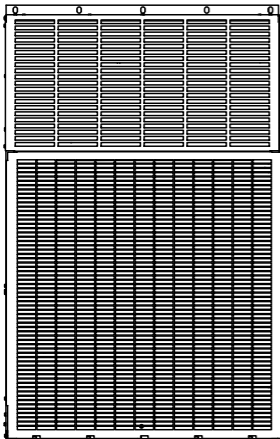
FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

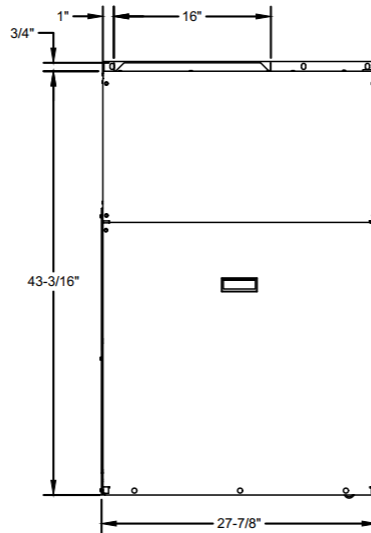
PHYSICAL DATA UNIT DIMENSIONS



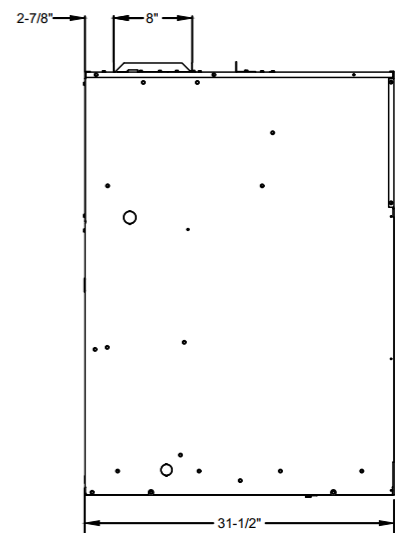
REAR VIEW



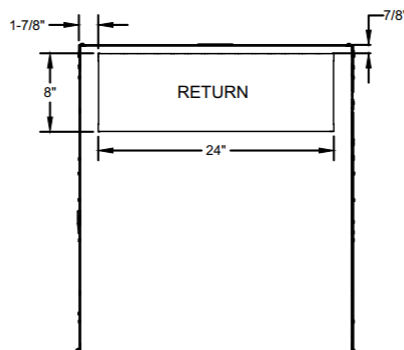
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



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FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

ELECTRICAL DATA

FIRST-PAK HP															
Model Number	Voltage	Compressor		Outdoor Motor		Indoor Motor		Min. Circuit Ampacity (MCA)				Max. Overcurrent Protection (MOP)			
		RLA	LRA	FLA	HP	FLA	HP	Circuit 1 (L1-L2)		Circuit 2 (L3-L4)		Circuit 1 (L1-L2)		Circuit 2 (L3-L4)	
								240V	208V	240V	208V	240V	208V	240V	208V
FPH03E1012D*	208/230-1-60	4.6	25	1.9	1/5	2.3	1/4	26	23	0	0	30	25	0	0
FPH05E1012D*	208/230-1-60	4.6	25	1.9	1/5	2.3	1/4	36	32	0	0	40	35	0	0
FPH07E1012D*	208/230-1-60	4.6	25	1.9	1/5	2.3	1/4	10	10	39	32	15	15	40	30
FPH05E1018D*	208/230-1-60	7.2	47	2.8	1/3	2.8	1/3	41	37	0	0	45	40	0	0
FPH07E1018D*	208/230-1-60	7.2	47	2.8	1/3	2.8	1/3	15	15	39	32	20	20	40	30
FPH10E1018D*	208/230-1-60	7.2	47	2.8	1/3	2.8	1/3	15	15	55	45	20	20	60	40
FPH05E1024D*	208/230-1-60	10.2	58	2.8	1/3	4.1	1/2	46	42	0	0	50	45	0	0
FPH07E1024D*	208/230-1-60	10.2	58	2.8	1/3	4.1	1/2	20	20	41	32	25	25	45	30
FPH10E1024D*	208/230-1-60	10.2	58	2.8	1/3	4.1	1/2	20	20	56	45	25	25	60	45
FPH05E1030D*	208/230-1-60	12.8	77	2.8	1/3	4.1	1/2	49	45	0	0	60	50	0	0
FPH07E1030D*	208/230-1-60	12.8	77	2.8	1/3	4.1	1/2	23	23	41	32	35	35	45	30
FPH10E1030D*	208/230-1-60	12.8	77	2.8	1/3	4.1	1/2	23	23	56	45	35	35	60	45

NOTES:

- * Circuits 1 and 2 require separate sets of power wires connected to the unit, each backed by an independent circuit breaker
- Circuit 1 is used exclusively to power electric heaters
- Refer to wiring diagram in FPH Installation & Operation Manual for additional details
- Wire size should be determined in accordance with National Electrical Codes
- Units are rated at 208/230V, but MOP & MCA values are calculated at 208/240V

RLA – Rated Load Amps
LRA – Locked Rotor Amps
FLA – Full Load Amps
HP – Horsepower

FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

RATED COOLING AND HEATING PERFORMANCE

FIRST-PAK HP													
Model Number	Cooling						Heating		Heating				
	Btu/hr	EER	SEER	S/T	CFM Full Load	CFM Part Load	Net Capacity at 47°F (BTU/H)	HSPF2	240V		208V		
									KW	Btu/Hr	KW	Btu/Hr	
FPH03E1012D*	10,600	10.5	11.9	0.85	450	-	11,000	6.3	03	10,236	2.3	7,677	
FPH05E1012D*									05	17,061	3.8	12,796	
FPH07E1012D*									07	23,885	5.3	17,914	
FPH05E1018D*	16,500	10.5	11.9	0.78	650	-	16,000	6.3	05	17,061	3.8	12,796	
FPH07E1018D*									07	23,885	5.3	17,914	
FPH10E1018D*									10	34,121	7.5	25,591	
FPH05E1024D*	22,500	10	11.7	0.78	850	-	21500	6.3	05	17,061	3.8	12,796	
FPH07E1024D*									07	23,885	5.3	17,914	
FPH10E1024D*									10	34,121	7.5	25,591	
FPH05E1030D*	25,800	9	11.7	0.73	950	700	25,000	6.3	05	17,061	3.8	12,796	
FPH07E1030D*									07	23,885	5.3	17,914	
FPH10E1030D*									10	34,121	7.5	25,591	

NOTE:

*S/T is not a rated value

EXTENDED HEATING PERFORMANCE HEAT PUMP ONLY

FIRST-PAK HP													
Model	Airflow	47/43			35/33			17/15			5/0		
		Net Capacity	Power Input	Outlet Dry Bulb	Net Capacity	Power Input	Outlet Dry Bulb	Net Capacity	Power Input	Outlet Dry Bulb	Net Capacity	Power Input	Outlet Dry Bulb
		BTUH	kW	°F	BTUH	kW	°F	BTUH	kW	°F	BTUH	kW	°F
FPH*12D*	450	11000	0.9	92	7500	0.9	87	5000	0.9	82	4000	0.8	79
FPH*18D*	650	16000	1.3	93	11500	1.3	88	9000	1.2	83	6800	0.1	80
FPH*24D*	850	21500	1.9	93	16000	1.8	88	12000	1.8	83	8500	0.2	80
FPH*30D*	950	25000	2.2	93	17000	2.1	88	14000	2.1	83	10500	2.1	83

NOTES:

1. Performance data is based on nominal CFM and 70°F indoor dry bulb
2. *May experience some loss in capacity.
3. *This data is to be used as reference values only and does not constitute a rating or a guarantee that the installed system will perform as indicated

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FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

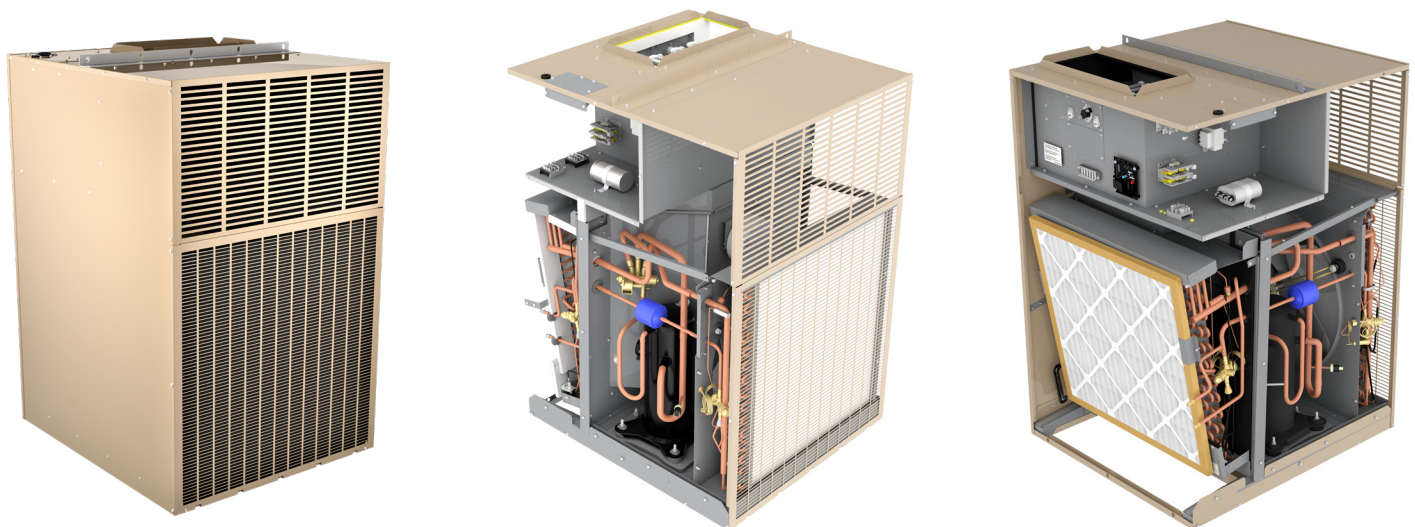
COMBINED EXTENDED HEATING PERFORMANCE

HEAT PUMP AND ELECTRIC HEAT

FIRST-PAK HP									
Model	Heater Size, 240V	47/43		35/33		17/15		5/0	
		Net Capacity	Power Input	Net Capacity	Power Input	Net Capacity	Power Input	Net Capacity	Power Input
	kW	BTUH	kW	BTUH	kW	BTUH	kW	BTUH	kW
FPH03E1012D2A00F	3	21,230	11.1	17,730	11.1	15,230	11.1	14,230	11.0
FPH05E1012D2A00F	5	28,060	18.0	24,560	18.0	22,060	17.9	21,060	17.8
FPH07E1012D2A00F	7	34,880	24.8	31,380	24.8	28,880	24.7	27,880	24.6
FPH05E1018D2A00F	5	33,060	18.4	28,560	18.4	26,060	18.3	23,860	18.3
FPH07E1018D2A00F	7	39,880	25.2	35,380	25.2	32,880	25.1	30,680	25.1
FPH10E1018D2A00F	10	50,120	35.4	45,620	35.4	43,120	35.3	40,920	35.3
FPH05E1024D2A00F	5	38,560	19.0	33,060	18.9	29,060	18.9	25,560	18.8
FPH07E1024D2A00F	7	45,380	25.8	39,880	25.7	35,880	25.7	32,380	25.6
FPH10E1024D2A00F	10	55,620	36.0	50,120	35.9	46,120	35.9	42,620	35.8
FPH05E1030D2A00F	5	42,060	19.3	34,060	19.2	31,060	19.2	27,560	19.1
FPH07E1030D2A00F	7	48,880	26.1	40,880	26.0	37,880	26.0	34,380	25.9
FPH10E1030D2A00F	10	59,120	36.3	51,120	36.2	48,120	36.2	44,620	36.2

NOTES:

1. Performance data is based on nominal CFM and 70°F indoor dry bulb
2. *May experience some loss in capacity.
3. *This data is to be used as reference values only and does not constitute a rating or a guarantee that the installed system will perform as indicated



First-Pak HP

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FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

BLOWER PERFORMANCE

FIRST-PAK HP												
Model	Motor Tap	Motor Speed	IWC Static Pressure									
			0.10		0.20		0.30		0.40		0.50	
			SCFM	W	SCFM	W	SCFM	W	SCFM	W	SCFM	W
FPH03E1012D*	1	-	403	42	369	47	341	51	307	56	275	61
	2	W ^H	464	57	430	61	402	66	368	71	335	75
	3	G ^C	550	81	516	85	488	90	454	95	422	99
	4	Y2	601	98	567	103	539	108	505	112	473	117
FPH05E1012D*	1	-	505	67	471	72	443	77	409	81	377	86
	2	W ^H	464	57	430	61	402	66	368	71	335	75
	3	G ^C	550	81	516	85	488	90	454	95	422	99
	4	Y2	601	98	567	103	539	108	505	112	473	117
FPH07E1012D*	1	-	602	99	566	104	537	108	504	112	472	117
	2	W ^H	465	57	429	62	399	66	366	71	335	75
	3	G ^C	551	81	515	86	486	90	453	95	421	99
	4	Y2	602	99	566	104	537	108	504	112	472	117
FPH05E1018D*	1	-	607	67	581	72	553	77	526	83	499	88
	2	-	657	80	631	85	603	91	576	96	549	102
	3	W ^H	748	108	722	113	694	119	667	124	640	130
	4	G ^C	765	114	738	119	710	125	684	130	657	136
	5	Y2	805	129	778	134	750	140	724	145	697	151
FPH07E1018D*	1	-	607	67	581	72	553	77	526	83	499	88
	2	-	657	80	631	85	603	91	576	96	549	102
	3	W ^H	748	108	722	113	694	119	667	124	640	130
	4	G ^C	765	114	738	119	710	125	684	130	657	136
	5	Y2	805	129	778	134	750	140	724	145	697	151
FPH10E1018D*	1	-	607	67	581	72	553	77	526	83	499	88
	2	-	828	138	801	144	773	149	746	154	720	160
	3	W ^H	748	108	722	113	694	119	667	124	640	130
	4	G ^C	932	188	905	193	877	198	850	203	824	209
	5	Y2	995	223	968	228	940	233	913	238	887	244

NOTES:

1. C - Factory-set default tap cooling and heat pump
2. H - Factory-set default tap electric heat
3. Tap T1 is fan only operation (all models)
4. Tap T2 is electric heat only operation (FPH**E1012)
5. T2 and T3 are electric heat only operation (FPH**E1018 - 030)
6. Tap T3 and T4 are cooling and heat pump operation; (FPH**E1012)
7. T4 and T5 are cooling and heat pump operation (FPH**E1018 - 030)
8. Blower performance data based on dry coil at 70°F DB EAT with standard 1" clean air filter

SCFM - Standard Cubic Feet Per Minute

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FIRST-PAK HP

SPACE CONSTRAINED HEAT PUMP

BLOWER PERFORMANCE (CONT'D)

FIRST-PAK HP												
Model	Motor Tap	Motor Speed	IWC Static Pressure									
			0.10		0.20		0.30		0.40		0.50	
			SCFM	W	SCFM	W	SCFM	W	SCFM	W	SCFM	W
FPH05E1024D*	1	-	608	68	577	74	550	80	523	85	496	91
	2	-	655	80	623	86	597	92	570	97	543	102
	3	W ^H	752	106	721	112	694	118	667	123	640	129
	4	G ^C	924	171	893	177	866	183	839	188	812	194
	5	Y2	1025	225	994	232	967	237	940	243	913	248
FPH07E1024D*	1	-	608	68	577	74	550	80	523	85	496	91
	2	-	655	80	623	86	597	92	570	97	543	102
	3	W ^H	752	106	721	112	694	118	667	123	640	129
	4	G ^C	924	171	893	177	866	183	839	188	812	194
	5	Y2	1025	225	994	232	967	237	940	243	913	248
FPH10E1024D*	1	-	608	68	577	74	550	80	523	85	496	91
	2	-	870	147	839	153	812	159	785	165	758	170
	3	W ^H	752	106	721	112	694	118	667	123	640	129
	4	G ^C	924	171	893	177	866	183	839	188	812	194
	5	Y2	1025	225	994	232	967	237	940	243	913	248
FPH05E1030D*	1	-	684	87	653	93	626	99	599	105	572	110
	2	-	813	126	782	132	755	138	728	143	701	148
	3	W ^H	881	152	850	158	823	164	796	169	769	174
	4	G ^C	1025	225	994	232	967	237	940	243	913	248
	5	Y2	1119	288	1088	294	1061	300	1034	305	1007	311
FPH07E1030D*	1	-	684	87	653	93	626	99	599	105	572	110
	2	-	813	126	782	132	755	138	728	143	701	148
	3	W ^H	881	152	850	158	823	164	796	169	769	174
	4	G ^C	1025	225	994	232	967	237	940	243	913	248
	5	Y2	1119	288	1088	294	1061	300	1034	305	1007	311
FPH10E1030D*	1	-	684	87	653	93	626	99	599	105	572	110
	2	-	924	171	893	177	866	183	839	188	812	194
	3	W ^H	1025	225	994	232	967	237	940	243	913	248
	4	G ^C	752	106	721	112	694	118	667	123	640	129
	5	Y2	1025	225	994	232	967	237	940	243	913	248

NOTES:

1. C - Factory-set default tap cooling and heat pump
2. H - Factory-set default tap electric heat
3. Tap T1 is fan only operation (all models)
4. Tap T2 is electric heat only operation (FPH**E1012)
5. T2 and T3 are electric heat only operation (FPH**E1018 - 030)
6. Tap T3 and T4 are cooling and heat pump operation; (FPH**E1012)
7. T4 and T5 are cooling and heat pump operation (FPH**E1018 - 030)
8. Blower performance data based on dry coil at 70°F DB EAT with standard 1" clean air filter

SCFM - Standard Cubic Feet Per Minute



In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice.



AMERICAN MADE. FAMILY OWNED.



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MARCH 2026