



FIRST CO.
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FIRST-PAK[®]

GAS



SINGLE PACKAGE VERTICAL GAS UNIT (FPGN9)

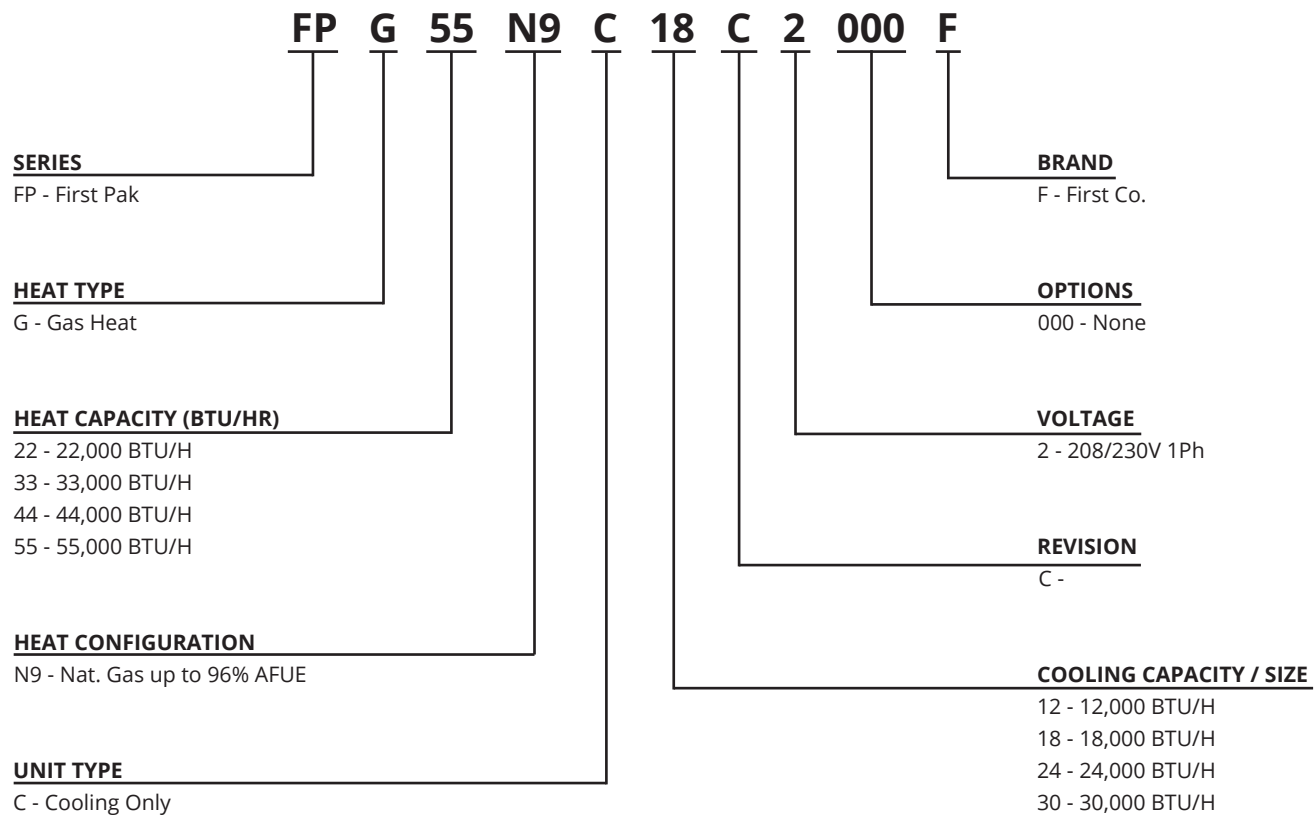
1.0 through 2.5 tons

Up to 55,000 BTU/HR heating

Up to 96% AFUE



Nomenclature



Features & Benefits



PRODUCT DESCRIPTION

- Self-contained packaged units with gas fired heating and electric cooling
- Pre-wired and pre-charged with R410a refrigerant
- Eliminates the need for outdoor condensers, electrical, refrigerant piping, and external venting
- FPG units are compatible with Magic Pak, Comfort Pack and Condo Pack

STANDARD FEATURES

- 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 rpm's, improve efficiency and reduce noise
- High efficiency single stage scroll and rotary compressors (except 2.5 ton which is two stage)
- Double isolated compressor mount to lower compressor noise and vibration
- Larger evaporator coil with low face velocity for improved cooling performance
- Galvanized steel coated drain pan to drain condensate in cooling operation
- Factory installed condensate float switch for overflow protection
- Thermal expansion valve (TXV) to optimize cooling performance
- High and low pressure switch protection
- Stainless steel heat exchanger for corrosion resistance
- Multi-faceted freeze protection; assures reliable unit operation and protection of condensate handling components



Features & Benefits

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 heating section for ease of maintenance, service and replacement
- Sight glass that allows for viewing the control board status codes and main burner function

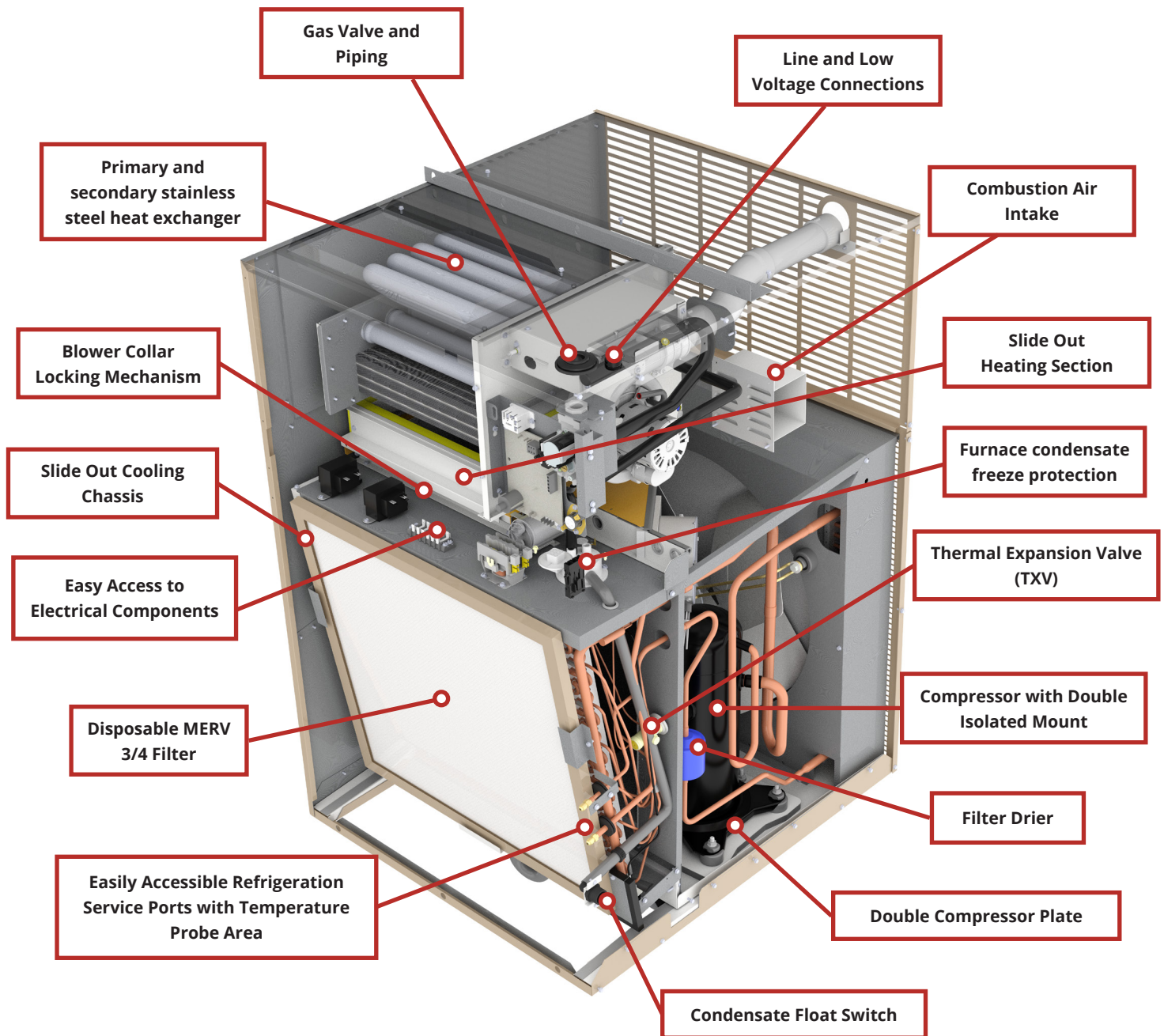
WARRANTY

- Five (5) years limited parts on compressor and all other covered components
- Twenty (20) years limited parts on heat exchanger

ACCESSORIES

- Wall Sleeves
- Architectural Louvers

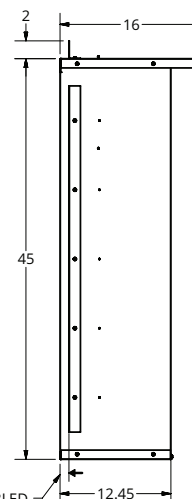
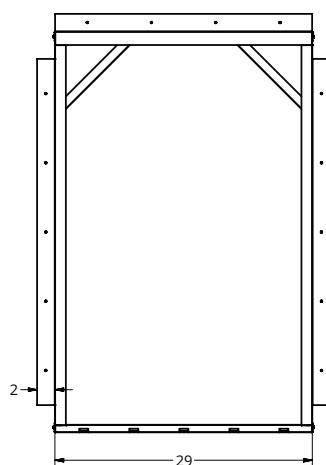
Features & Benefits



Accessories

WALL SLEEVES

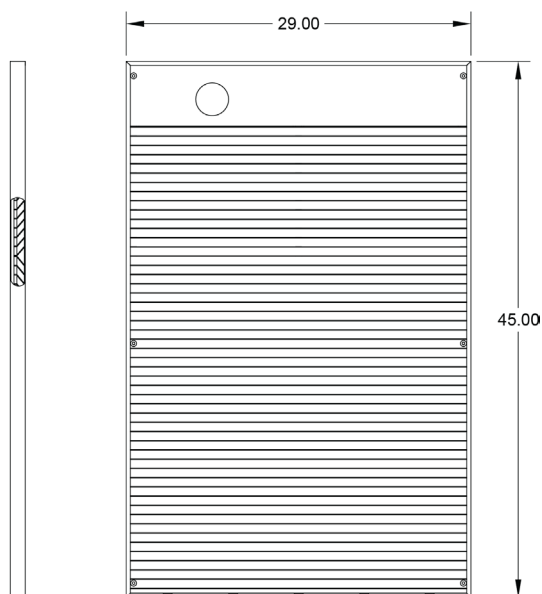
- Part number 929-10
- Ships unassembled in carton



FLANGES MAY BE ASSEMBLED
1" OR 3-3/4" FROM FRONT OF SLEEVE

ALUMINUM ARCHITECTURAL LOUVERS (OPTIONAL)

- Part number G230S* Painted Finish



SIDE VIEW

FRONT VIEW

WATER DRAINAGE



Standard Paint Colors

*Custom Color with paint matching.

HIGH ALTITUDE KIT

- Number = 9KHiAlt95

Physical Data

MODEL NUMBER	FPG22N9C12C	FPG33N9C12C	FPG44N9C12C	FPG22N9C18C	FPG33N9C18C	FPG44N9C18C	FPG55N9C18C
Compressor Type (Qty)	Rotary (1)	Rotary (1)	Rotary (1)	Rotary (1)	Rotary (1)	Rotary (1)	Rotary (1)
Factory Charge (R410A) lbs. [kg]	3.75 [1.70]	3.75 [1.70]	3.75 [1.70]	4.8 [2.18]	4.8 [2.18]	4.8 [2.18]	4.8 [2.18]
Compressor Capacitor	40MFD/370V	40MFD/370V	40MFD/370V	35MFD/370V	35MFD/ 370V	35MFD/ 370V	35MFD/ 370V
Outdoor Fan HP [kW]	1/5 [.15]	1/5 [.15]	1/5 [.15]	1/5 [.15]	1/5 [.15]	1/5 [.15]	1/5 [.15]
Indoor Fan HP [kW]	1/3 [.25]	1/3 [.25]	1/3 [.25]	1/3 [.25]	1/3 [.25]	1/2 [.37]	1/2 [.37]
Indoor Blower Size (D X W) in. [mm]	10 x 6 [25.4 x 15.24]						
Condenser Coil Dimensions (H x W) in. [mm]	26.5 x 22.25 [67.3 x 56.5]						
Evaporator Coil Dimensions (H x W) in. [cm]	23.1 x 22.25 [58.7 x 56.5]						
Filter Size (H x W) in. [cm]	24 x 24 [60.96 x 60.96]						
Input BTU/H [kW]	22000 [6.4]	33000 [9.7]	44000 [12.9]	22000 [6.4]	33000 [9.7]	44000 [12.9]	55000 [16.1]
Output BTU/H [kW]	21120 [6.2]	31350 [9.2]	41360 [12.1]	21120 [6.2]	31350 [9.2]	41360 [12.1]	51150 [15]
AFUE	96	95	94	96	95	94	93
No. of Burners	2	3	4	2	3	4	5
Orifice Size (Natural) in. [mm]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]
Max. Outlet Air Temp. °F [°C]	170 [77]	160 [71]	180 [82]	170 [77]	160 [71]	180 [82]	185 [85]
Max. External Static Pressure in. w.c. [pa]	.5 [125]						
Gas Piping Connection NPT in.	0.5						
Operating Weight lbs. [kg]	271 [123]	273 [124]	275 [125]	300 [136]	302 [137]	304 [138]	306 [139]
Shipping Weight lbs. [kg]	298 [135]	300 [136]	302 [137]	327 [148]	329 [149]	331 [150]	333 [151]

Physical Data (continued)

MODEL NUMBER	FPG33N9C24C	FPG44N9C24C	FPG55N9C24C	FPG44N9C30C	FPG55N9C30C
Compressor Type (Qty)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)
Factory Charge (R410A) lbs. [kg]	4.9 [2.21]	4.9 [2.21]	4.9 [2.21]	5.0 [2.27]	5.0 [2.27]
Compressor Capacitor	35MFD/ 370V	35MFD/ 370V	35MFD/370V	30MFD/370V	30MFD/370V
Outdoor Fan HP [kW]	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]
Indoor Blower Size (D X W) in. [mm]	10 x 6 [25.4 x 15.24]				
Condenser Coil Dimensions (H x W) in. [mm]	26.5 x 22.25 [67.3 x 56.5]				
Evaporator Coil Dimensions (H x W) in. [cm]	23.1 x 22.25 [58.7 x 56.5]				
Filter Size (H x W) in. [cm]	24 x 24 [60.96 x 60.96]				
Input BTU/H [kW]	33000 [9.7]	44000 [12.9]	55000 [16.1]	44000 [12.9]	55000 [16.1]
Output BTU/H [kW]	31350 [9.2]	41360 [12.1]	51150 [15]	41360 [12.1]	51150 [15]
AFUE	95	94	93	94	93
No. of Burners	3	4	5	4	5
Orifice Size (Natural) in. [mm]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]	.0635 [1.61]
Max. Outlet Air Temp. °F [°C]	160 [71]	180 [82]	185 [85]	180 [82]	185 [85]
Max. External Static Pressure in. w.c. [pa]	.5 [125]				
Gas Piping Connection NPT in.	0.5 [1.27]				
Operating Weight lbs. [kg]	322 [146]	324 [147]	326 [148]	338 [153]	340 [154]
Shipping Weight lbs. [kg]	349 [158]	351 [159]	353 [160]	365 [165]	367 [166]

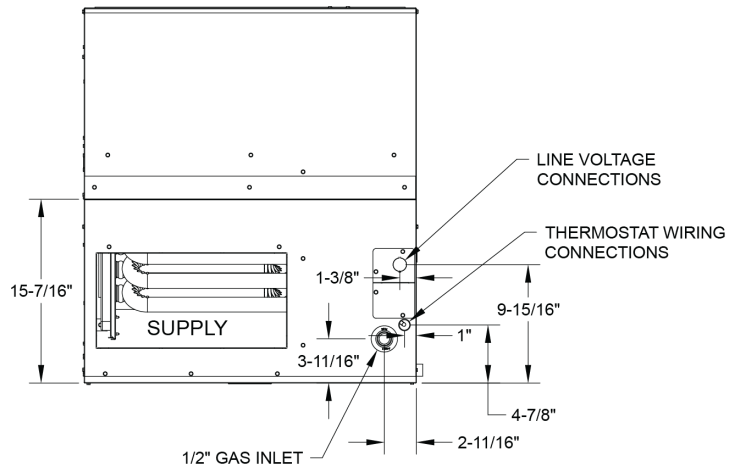
Filter Size and Pressure Drop (in. w.c.)

MODEL	FILTER SIZE	SUPPLY AIRFLOW (CFM)							
ALL MODELS	24" x 24"	300	400	500	600	700	800	900	1000
		0.008	0.017	0.027	0.036	0.046	0.055	0.065	0.074

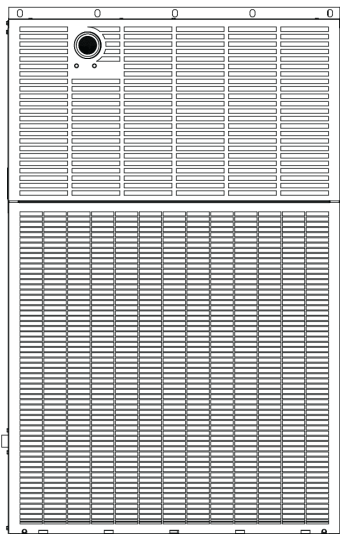
Physical Data

UNIT DIMENSIONS

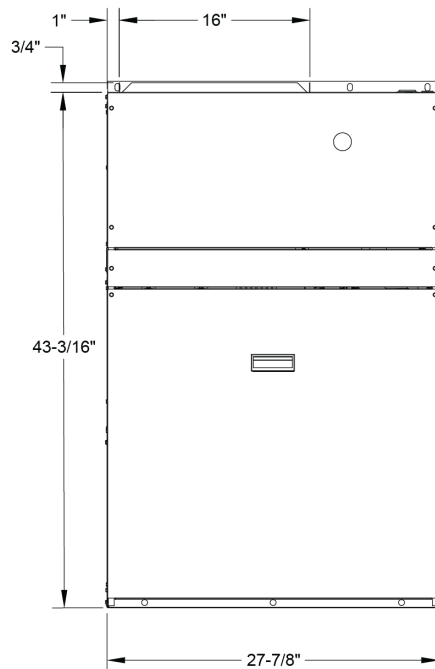
TOP VIEW



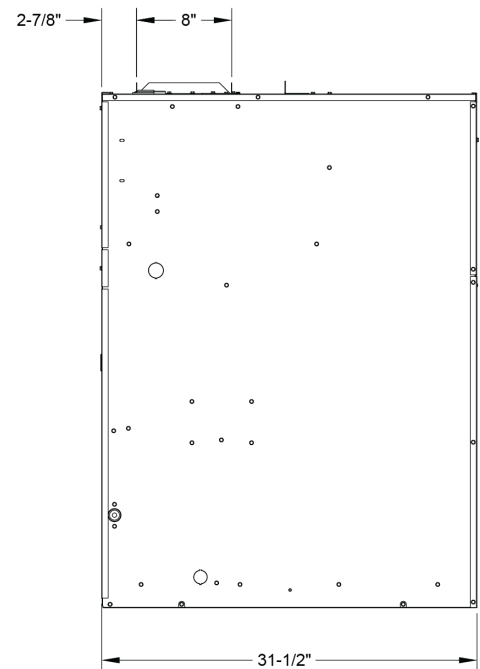
REAR VIEW



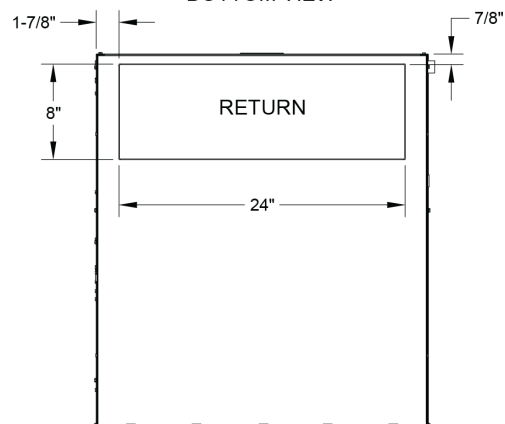
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



Electrical Data

MODEL NUMBER	VOLTAGE-PH-HZ	COMPRESSOR		OUTDOOR MOTOR		INDOOR MOTOR		MIN. CIRCUIT AMPACITY (MCA)	MAX. CIRCUIT PROTECTION (MOP)	MIN. VOLT.	MAX. VOLT.
		RLA	LRA	FLA	HP	FLA	HP				
FPG22N9C12C	208/230-1-60	5.5	26	1.9	1/5	2.8	1/3	12	15	187	252
FPG33N9C12C	208/230-1-60	5.5	26	1.9	1/5	2.8	1/3	12	15	187	252
FPG44N9C12C	208/230-1-60	5.5	26	1.9	1/5	4.1	1/2	13	15	187	252
FPG22N9C18C	208/230-1-60	7.2	38	1.9	1/5	2.8	1/3	14	20	187	252
FPG33N9C18C	208/230-1-60	7.2	38	1.9	1/5	2.8	1/3	14	20	187	252
FPG44N9C18C	208/230-1-60	7.2	38	1.9	1/5	4.1	1/2	15	20	187	252
FPG55N9C18C	208/230-1-60	7.2	38	1.9	1/5	4.1	1/2	15	20	187	252
FPG33N9C24C	208/230-1-60	10.7	55	2.8	1/3	2.8	1/3	19	30	187	252
FPG44N9C24C	208/230-1-60	10.7	55	2.8	1/3	4.1	1/2	21	30	187	252
FPG55N9C24C	208/230-1-60	10.7	55	2.8	1/3	4.1	1/2	21	30	187	252
FPG44N9C33C	208/230-1-60	13.5	87	2.8	1/3	4.1	1/2	24	35	187	252
FPG55N9C33C	208/230-1-60	13.5	87	2.8	1/3	4.1	1/2	24	35	187	252

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

Refer to wiring diagram in FPGN9 IOM for additional details

RLA – Rated Load Amps

LRA – Locked Rotor Amps

FLA – Full Load Amps

HP – Horsepower

Rated Cooling & Heating Performance

MODEL NUMBER	COOLING						HEATING				
	NET CAPACITY (BTU/H)	EER2	SEER2	S/T*	FULL LOAD CFM	PART LOAD CFM	CFM	INPUT (BTU/H)	OUTPUT (BTU/H)	AFUE (%)	TEMP. RISE RANGE (°F)
FPG22N9C12C	12,500	10.5	11.7	0.75	450	-	490	22,000	21,120	96	25-55
FPG33N9C12C							650	33,000	31,350	95	30-60
FPG44N9C12C							850	44,000	41,360	94	30-60
FPG22N9C18C	17,000	10.0	11.7	0.78	630	-	490	22,000	21,120	96	25-55
FPG33N9C18C							650	33,000	31,350	95	30-60
FPG44N9C18C							850	44,000	41,360	94	30-60
FPG55N9C18C							950	5,000	51,150	93	35-65
FPG33N9C24C	22,500	10.0	11.7	0.74	780	-	650	33,000	31,350	95	30-60
FPG44N9C24C							850	44,000	41,360	94	30-60
FPG55N9C24C							950	55,000	51,150	93	35-65
FPG44N9C30C	26,500	9.0	11.7	0.74	920	620	850	44,000	41,360	94	30-60
FPG55N9C30C							950	55,000	51,150	93	35-65

*S/T is not a rated value

All FPG**N9C30C models tested with dual stage scroll compressors

All units tested in accordance with AHRI 210/240 2023 (SEER2)

Extended Cooling Performance Data

MODEL NUMBER	INDOOR TEMP DB/WB (°F)	OUTDOOR TEMPERATURE (°F)														
		65.0			85.0			95.0			105.0			115.0		
		MBH	S/T	kW*	MBH	S/T	kW*	MBH	S/T	kW*	MBH	S/T	kW*	MBH	S/T	kW*
FPG**N*C12C	75/57	13.2	1.0	0.9	12.1	1.0	1.1	12.1	1.0	1.2	11.0	1.0	1.3	10.4	1.0	1.4
	75/63	14.2	0.8	0.9	12.9	0.8	1.1	12.9	0.8	1.2	11.5	0.9	1.3	10.8	0.9	1.5
	80/67	15.2	0.8	0.9	13.8	0.8	1.1	13.8	0.8	1.2	12.3	0.9	1.3	11.6	0.9	1.5
	85/72	16.4	0.7	0.9	14.9	0.7	1.1	14.9	0.7	1.2	13.4	0.8	1.4	12.6	0.8	1.5
FPG**N*C18C	75/57	18.4	1.0	1.2	16.8	1.0	1.4	15.9	1.0	1.5	15.0	1.0	1.6	14.1	1.0	1.8
	75/63	19.6	0.8	1.3	17.6	0.8	1.4	16.5	0.8	1.5	15.4	0.8	1.6	14.0	0.8	1.8
	80/67	20.7	0.7	1.3	18.6	0.8	1.4	17.5	0.8	1.6	16.2	0.8	1.7	14.2	1.0	1.8
	85/72	22.2	0.7	1.3	20.0	0.7	1.5	19.0	0.8	1.6	17.3	0.7	1.7	15.6	0.7	1.8
FPG**N*C24C	75/57	23.9	1.0	1.7	21.4	1.0	2.0	20.4	1.0	2.2	19.3	1.0	2.4	18.3	1.0	2.7
	75/63	25.7	0.8	1.7	23.2	0.8	2.0	21.9	0.8	2.2	20.7	0.8	2.4	19.4	0.9	2.7
	80/67	27.5	0.7	1.7	24.8	0.8	2.0	23.5	0.8	2.2	22.2	0.8	2.5	20.8	0.8	2.7
	85/72	29.7	0.7	1.7	26.9	0.7	2.0	25.5	0.7	2.3	24.1	0.7	2.5	22.6	0.8	2.7
FPG**N*C30C	75/57	27.5	1.0	2.2	25.2	1.0	2.5	24.0	1.0	2.8	22.7	1.0	3.0	21.5	1.0	3.3
	75/63	30.1	0.7	2.2	27.1	0.8	2.5	25.6	0.8	2.8	24.0	0.8	3.0	22.5	0.8	3.3
	80/67	31.6	0.7	2.2	28.4	0.8	2.5	26.9	0.8	2.8	25.2	0.8	3.1	23.6	0.9	3.4
	85/72	33.9	0.7	2.2	30.6	0.7	2.6	28.9	0.7	2.8	26.8	0.7	3.1	25.8	0.8	3.4

* Total power input of the unit

Performance data is simulated based on the rated value of each model and is calculated based on nominal CFM and .3 external static pressure

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

Blower Performance

MODEL NUMBER	BLOWER SPEED TAP	MID RISE (°F)	RISE RANGE (°F)	SCFM & TEMP RISE @ EXTERNAL STATIC PRESSURE (in. w.c)									
				0.10		0.20		0.30		0.40		0.50	
				SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)
FPG22N9C12C	T1	40.0	25-55	263	-	226	-	191	-	159	-	128	-
	T2 ^H		25-55	531	37	494	40	460	43	427	46	396	49
	T3		25-55	627	31	590	33	556	35	523	37	493	40
	T4 ^C		25-55	531	37	494	40	460	43	427	46	396	49
	T5		25-55	606	32	569	34	534	37	502	39	471	42
FPG33N9C12C	T1	45.0	30-60	268	-	230	-	196	-	163	-	131	-
	T2 ^H		30-60	687	42	650	45	616	47	583	50	551	53
	T3		30-60	786	37	748	39	714	41	682	43	650	45
	T4 ^C		30-60	530	55	492	59	458	-	426	-	393	-
	T5		30-60	607	48	569	51	535	54	503	58	471	-
FPG44N9C12C	T1	45.0	30-60	397	-	365	-	333	-	302	-	274	-
	T2 ^H		30-60	796	48	764	50	732	52	702	55	673	57
	T3		30-60	972	39	941	41	908	42	878	44	850	45
	T4 ^C		30-60	527	-	495	-	463	-	432	-	404	-
	T5		30-60	593	-	561	-	529	-	499	-	470	-
FPG22N9C18C	T1	40.0	25-55	397	49	361	54	326	60	293	-	263	-
	T2 ^H		25-55	531	37	494	40	460	43	427	46	396	49
	T3		25-55	627	31	590	33	556	35	523	37	493	40
	T4 ^C		25-55	708	28	671	29	637	31	604	32	573	34
	T5		25-55	1015	19	978	20	944	21	911	21	880	22
FPG33N9C18C	T1	45.0	30-60	401	-	363	-	329	-	297	-	265	-
	T2 ^H		30-60	687	42	650	45	616	47	583	50	551	53
	T3		30-60	786	37	748	39	714	41	682	43	650	45
	T4 ^C		30-60	708	41	670	43	636	46	604	48	572	51
	T5		30-60	1008	29	971	30	937	31	904	32	872	33
FPG44N9C18C	T1	45.0	30-60	397	-	365	-	333	-	302	-	274	-
	T2 ^H		30-60	796	48	764	50	732	52	702	55	673	57
	T3		30-60	972	39	941	41	908	42	878	44	850	45
	T4 ^C		30-60	700	55	668	57	636	-	605	-	577	-
	T5		30-60	972	39	941	41	908	42	878	44	850	45
FPG55N9C18C	T1	50.0	35-65	394	-	364	-	333	-	303	-	275	-
	T2 ^H		35-65	976	49	946	50	915	52	885	54	857	55
	T3		35-65	1140	42	1110	43	1079	44	1048	45	1020	46
	T4 ^C		35-65	698	-	668	-	637	-	607	-	578	-
	T5		35-65	965	49	935	51	904	52	874	54	845	56

^C Factory-set default tap cooling

^H Factory-set default tap heat

T1 is fan only operation (all models)

T2 and T3 are for heating operation

T4 and T5 are for cooling operation

Blower performance data based on dry coil at 70°F DB EAT with standard 1" air filter

SCFM - standard cubic feet per minute

Blower Performance (continued)

MODEL NUMBER	BLOWER SPEED TAP	MID RISE (°F)	RISE RANGE (°F)	SCFM & TEMP RISE @ EXTERNAL STATIC PRESSURE (in. w.c)									
				0.10		0.20		0.30		0.40		0.50	
				SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)	SCFM	TEMP RISE (°F)
FPG33N9C24C	T1	45.0	30-60	392	-	339	-	305	-	273	-	241	-
	T2 ^H		30-60	687	42	650	45	616	47	583	50	551	53
	T3		30-60	761	38	723	40	689	42	657	44	625	46
	T4 ^C		30-60	863	34	825	35	791	37	758	38	726	40
	T5		30-60	1008	29	971	30	937	31	904	32	872	33
FPG44N9C24C	T1	45.0	30-60	405	-	373	-	338	-	304	-	271	-
	T2 ^H		30-60	797	48	765	50	730	52	695	55	663	58
	T3		30-60	969	40	937	41	902	42	868	44	835	46
	T4 ^C		30-60	863	44	831	46	796	48	761	50	728	53
	T5		30-60	1012	38	980	39	945	41	910	42	877	44
FPG55N9C24C	T1	50.0	35-65	404	-	375	-	342	-	310	-	279	-
	T2 ^H		35-65	976	49	948	50	915	52	882	54	852	56
	T3		35-65	1131	42	1102	43	1069	44	1037	46	1006	47
	T4 ^C		35-65	863	55	834	57	801	59	768	62	738	64
	T5		35-65	1013	47	985	48	952	50	919	52	889	53
FPG44N9C30C	T1	45.0	30-60	649	59	617	62	582	-	547	-	515	-
	T2 ^H		30-60	797	48	765	50	730	52	695	55	663	58
	T3		30-60	991	39	959	40	924	41	889	43	857	45
	T4 ^{Clow}		30-60	797	48	765	50	730	52	695	55	663	58
	T5 ^{Chigh}		30-60	991	39	959	40	924	41	889	43	857	45
FPG55N9C30C	T1	50.0	35-65	646	-	617	-	584	-	552	-	521	-
	T2 ^H		35-65	976	49	948	50	915	52	882	54	852	56
	T3		35-65	1131	42	1102	43	1069	44	1037	46	1006	47
	T4 ^{Clow}		35-65	788	60	759	62	727	-	694	-	663	-
	T5 ^{Chigh}		35-65	988	48	959	49	926	51	893	53	863	55

^C Factory-set default tap cooling

^{Clow} Factory-set default tap cooling (2.5 ton models)

^{Chigh} Factory-set default tap cooling (2.5 ton models)

^H Factory-set default tap heat

T1 is fan only operation (all models)

T2 and T3 are for heating operation

T4 and T5 are for cooling operation

Blower performance data based on dry coil at 70°F DB EAT with standard 1" 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. Refer to Installation, Operation and Maintenance (IOM) manual for maintenance and servicing information located at www.firstco.com/first-pak/





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