

13HPP / RHP13

Rooftop Units 60HZ

PRODUCT SPECIFICATIONS

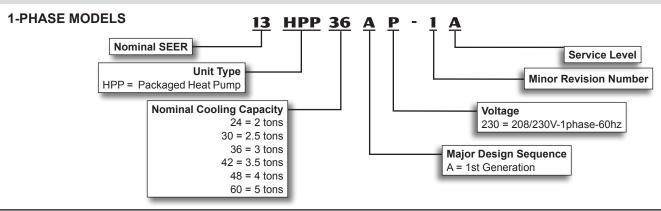
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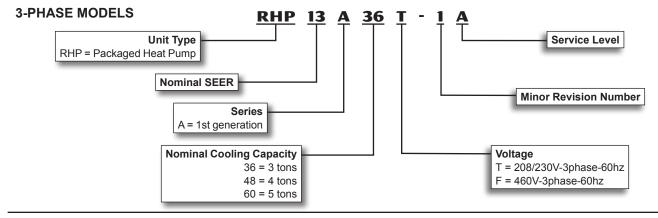


SEER - 13.00 2 to 5 Tons

Cooling Capacity - 23,000 to 56,000 Btuh Heating Capacity - 21,600 to 54,000 Btuh Optional Electric Heat - 5 to 20 kW

MODEL NUMBER IDENTIFICATION





FEATURES

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WARRANTY

NOTE - Warranty below for 13HPP models refers to non-residential applications.

Compressor - Five year limited warranty.

All other covered components - One year.

APPROVALS

AHRI Certified to AHRI Standard 210/240-2008.

ETL listed.

Units are Certified by AHRI.

Packaged unit and components within bonded for grounding to meet safety standards required by ETL.

Optional electric heaters are UL listed for the U.S. and Canada and are rated and tested according to DOE test procedures and FTC labeling regulations.

Each unit test operated at the factory before shipment ensuring dependable operation at start-up.

APPLICATIONS

Designed for outdoor installations at ground level or rooftop applications.

SUPPLY AIR BLOWER

Direct Drive Blower

Each blower assembly statically and dynamically balanced.

Multi-speed, direct drive blower motor.

Change in blower speed is easily accomplished by simple wiring change on blower motor.

Blower assembly easily removed for servicing.

See Blower Performance tables.

REFRIGERATION SYSTEM

R-410A Refrigerant

Non-chlorine, ozone friendly, R-410A.

Unit pre-charged with refrigerant.

See Specifications table.



Indoor and Outdoor Coils

Copper tube with aluminum fin coils.

Indoor Coil Drain Pan

Corrosion resistant plastic drain pan.

Outdoor Coil Fan

Weather protected heavy duty outdoor coil fan motor with coated steel fan blades for long life.

Internally mounted.

Totally enclosed motor.

Fan guard constructed of corrosion-resistant coated steel.

Reversing Valve

4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa.

High Pressure Switch

Shuts off unit if abnormal operating conditions cause the discharge pressure to rise above setting.

Protects compressor from excessive condensing pressure. Automatic reset.

CONTROLS

Electronic blower control.

Single pole contactor (13HPP models).

3-Pole Double-Break Contactor (RHP13 models).

Trade available components.

Defrost Control

Defrost control furnished as standard equipment.

Gives a defrost cycle for every 30, 60, or 90 minutes (adjustable) of compressor "on" time at outdoor temperatures below 35°F.

Field-selectable, "quiet shift" setting reduces compressor noise during the defrost cycle.

Sensor mounted on liquid line determines when defrost cycle is required and also when to terminate cycle.

Anti-short cycle, timed-off control incorporated into the board.

24 Volt Transformer

40VA transformer furnished and factory installed in control area.

Options / Accessories

Thermostat

See Thermostat bulletins in Controls section and Lennox Price Book for a complete list of thermostats.

FEATURES

COMPRESSOR

Scroll compressor on all models.

Overload protected.

Resiliently mounted on rubber mounts.

CABINET

Conditioned areas insulated with foil faced insulation to minimize heat loss and reduce operating sound levels.

Powder paint for maximum durability.

Easy service access.

Coated steel wire guard provides complete coil protection.

Interchangeable panels for horizontal to downflow airflow conversion furnished (shipped for horizontal).

Three-Phase Models Only - Factory installed wiring harness for optional Economizer allows fast and easy electrical connections.

Economizer must be field wired when used with single phase models.

AIR FILTER (not furnished - required)

Filter rails for mounting 1 inch filter are furnished in cabinet. Filter is not furnished and must be field provided.

See Specifications Table for sizes.

OPTIONS / ACCESSORIES

ROOF CURB

Roof Curb, Downflow

Nailer strip furnished, mates to unit, shipped knocked down. See dimension drawing.

ECONOMIZER

Downflow or horizontal, parallel gear-driven action return air and outdoor air dampers, plug—in connections to unit, nylon bearings, neoprene seals, 24-volt, fully-modulating, spring return motor, adjustable minimum damper position.

Barometric relief dampers furnished in downflow economizer.

NOTE - Downflow economizer is not available for 13HPP48 and 13HPP60 single-phase models.

ELECTRIC HEAT

Field install internal to unit cabinet.

Available in several voltages and kw sizes.

Helix wound nichrome heating elements exposed directly in air stream resulting in instant heat transfer, low element temperatures and long service life.

Cutoff limit control provides positive protection in case of excessive temperatures.

Easy plug-in connections for low voltage control wiring.

OUTDOOR AIR DAMPER

Manual or motorized. Perforated air intake panel replaces existing duct cover on unit.

0 to 25% (fixed)

Manual outdoor air damper has adjustable damper slide.

Motorized outdoor air damper has motorized damper assembly with adjustable damper slide.

Outdoor air hood with cleanable filter included.

INSTALLATION CLEARANCES								
	in.	mm						
Front (electric heat access)	24	610						
Right Side (blower access)	24	610						
Left Side (indoor coil access)	24	610						
Back	0	0						
Тор	48	1219						

General Data	Model No.	13HPP24A	13HPP30A	13HPP36A	13HPP42A	13HPP48A	13HPP60A
	Nominal Tonnage	2	2.5	3	3.5	4	5
Cooling	Total capacity - Btuh	23,000	28,000	34,600	40,000	46,000	56,000
Performance	Total unit watts	2090	2545	3145	3636	4181	5090
	¹ SEER (Btuh/Watt)	13.00	13.00	13.00	13.00	13.00	13.00
	EER (Btuh/Watt)	11.00	11.00	11.00	11.00	11.00	11.00
Heating	Total capacity - Btuh	21,600	27,000	33,600	39,000	44,000	54,000
Performance	Total unit watts	1810	2262	2815	3363	3910	4798
(High Temp)	COP	3.5	35	3.5	3.4	3.3	3.3
	HSPF Region IV	7.7	7.7	7.7	7.7	7.7	7.7
Heating	Total capacity - Btuh	13,000	16,000	20,200	22,400	26,800	34,000
Performance	Total unit watts	1733	2040	2575	2985	3742	4335
(Low Temp)	COP	2.2	2.3	2.3	2.2	2.1	2.3
² Sound Rating	Number (dB)	77	77	77	80	80	80
Refrigerant	Туре	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
	Charge	5 lbs. 0 oz.	7 lbs. 3 oz.	7 lbs. 6 oz.	8 lbs. 14 oz.	9 lbs. 10 oz.	9 lbs. 6 oz.
Condensate dra	ain size (fpt) - in.	3/4	3/4	3/4	3/4	3/4	3/4
Outdoor Coil	Motor horsepower	1/4	1/4	1/4	1/3	1/3	1/3
Fan	Diameter - in. & No. of blades	18 - 4	18 - 4	18 - 4	22 - 3	22 - 3	22 - 3
Indoor Blower	Blower wheel size dia. x width - in.	10 x 8	10 x 8	10 x 8	10 x 10	10 x 10	10 x 10
	Motor horsepower	1/2	1/2	1/2	3/4	3/4	3/4
⁵ Filter Dimensi (filter and rails			(1) 24 x 28 x 1			(1) 30 x 30 x 1	
Net weight of b	asic unit - Ibs.	325	352	352	447	455	455
Shipping weigh	nt of basic unit (1 Pkg.) - lbs.	338	365	365	462	470	470
Electrical chara	acteristics (60 hz)		1	208/230V	-1ph-60hz		
ELECTRIC	AL DATA - 1-PHASE						
Line voltage da	ata - 60hz 1 phase	208/230V	208/230V	208/230V	208/230V	208/230V	208/230V
³ Maximum ove	ercurrent protection (amps)	30	30	35	45	50	60
⁴ Minimum Circ	Minimum Circuit Ampacity		21.3	26.1	30.4	34.7	40.5
Compressor	Rated load amps	12.8	12.8	16.6	18.3	21.8	26.4
	Locked rotor amps	58.3	64	79	112	117	134
Outdoor Coil Fa	an Motor Full load amps	1.2	1.2	1.2	1.7	1.7	1.7
Indoor Blower	Motor Full load amps	4.1	4.1	4.1	5.8	5.8	5.8

NOTE-Extremes of operating range are plus and minus 10% of line voltage.

¹ AHRI Certified to AHRI Standard 210/240

Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

² Sound Rating Number rated in accordance with test conditions included in AHRI Standard 270.

³ HACR type circuit breaker or fuse.

⁴ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

⁵ Filters are not furnished and must be field provided.

General Data	NS - 3-PHASE MOD Model No.	RHP13A36	RHP1	3A48	RHP1	3A60	
Conoral Data	Nominal Tonnage	3		4		5	
Cooling	Total capacity - Btuh	34,600	46.	000	56,000		
Performance	¹ SEER (Btuh/Watt)	13.0		3.0	· '	3.0	
	EER (Btuh/Watt)	11.0	11	.0		.0	
Heating	Total capacity - Btuh	33,600	44,	000	54.	000	
Performance	COP	3.5	3	.3	3	.3	
(High Temp)	HSPF Region IV	7.7	7	.7	7	.7	
Heating	Total capacity - Btuh	20,200	26,	800	34,	000	
Performance (Low Temp)	COP	2.3	2	.1	2	.3	
² Sound Rating Numb	per (dB)	79	8	0	80		
Refrigerant	Туре	R-410A	R-4	10A	R-410A		
	Charge	7 lbs. 6 oz	9 lbs.	10 oz.	9 lbs.	6 oz.	
Condensate drain siz	e (fpt) - in.	3/4	3.	/4	3.	/4	
Outdoor Coil	Motor horsepower	1/4	1.	/3	1.	/3	
Fan	Motor rpm	1075	10	1075 1075		75	
D	iameter - in. & No. of blades	18 - 4	22	- 3	22 - 3		
Indoor Blower	Motor horsepower	1/2	3.	/4	3.	/4	
Blo	ower wheel size dia. x width - in.	10 x 8	10 2	k 10	10 :	< 10	
⁵ Filter Dimensions (f	filter not furnished)	(1) 24 x 28 x 1	(1) 30 >	(30 x 1	(1) 30 >	30 x 1	
Shipping weight of b	asic unit (1 Pkg.) - lbs.	370	48	30	48	30	
Electrical characteris	stics (60 hz)		208/230V-3ph	n or 460V-3ph	1		
ELECTRICAL D	ATA - 3-PHASE						
Line voltage data - 60	Ohz 3 phase	208/230V	208/230V	460V	208/230V	460V	
³ Maximum overcurre	ent protection (amps)	25	35	15	40	20	
⁴ Minimum Circuit An	npacity	18.3	24.6	12	27.4	13.9	
Compressor	Rated load amps	10.4	13.7	6.2	15.9	7.7	
	Locked rotor amps	73	83.1	41	110	52	
Outdoor Coil Fan Mo	tor Full load amps	1.2	1.7	1	1.7	1	

4.1

5.8

3.2

5.8

3.2

Full load amps

Indoor Blower Motor

NOTE-Extremes of operating range are plus and minus 10% of line voltage.

¹ AHRI Certified to AHRI Standard 210/240

Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

² Sound Rating Number rated in accordance with test conditions included in AHRI Standard 270.

³ HACR type circuit breaker or fuse.

⁴ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

⁵ Filters are not furnished and must be field provided.

OPTIONS / AC	CESSORIES								
Itam Decarintion		Model	Catalog			Unit M	odel No		
Item Description		Number	Number	24	30	36	42	48	60
ELECTRIC HEAT									
1-Phase									
5 kW	208/240V-1ph-60hz	AHSA05A-1	40K65	Х	Х	Х	Х	Х	Х
7 kW	208/240V-1ph-60hz	AHSA07A-1	40K66	Х	Х	Х	Х	Х	Х
10 kW	208/240V-1ph-60hz	AHSA10A-1	40K67	Х	Х	Х	Х	Х	Х
15 kW	208/240V-1ph-60hz	AHSA15A-1	40K68	Х	Х	Х	Х	Х	Х
20 kW	208/240V-1ph-60hz	AHSA20A-1	40K69				Х	Х	Х
3-Phase									
10 kW	208/240V-3ph-60hz	AHSA10B-1	1.821007			Х		Х	Х
	460V-3ph-60hz	AHSA10C-1	1.821014					Х	Х
15 kW	208/240V-3ph-60hz	AHSA15B-1	1.821008			Х		Х	Х
	460V-3ph-60hz	AHSA15C-1	1.821015					Х	Х
ECONOMIZER									
Downflow		AECON825-1	1.851395	Х	Х	Х			
		AECON826-1	1.851396				Х	1 X	1 X
Horizontal		AECON827-1	1.851397	Х	Х	Х			
		AECON828-1	1.851398				Х	Х	Х
OUTDOOR AIR DAI	MPER								
Manual		ADMPR145-1	1.851274	Х	Х	Х			
		ADMPR166-1	1.851293				Х	Х	Х
Motorized		ADMPR146-1	1.851275	Х	Х	Х			
		ADMPR167-1	1.851294				Х	Х	Х
ROOF CURBS									
		ACURB161-1	1.851299	Х	Х	Х			
		ACURB163-1	1.851300				Х	Х	Х

 $\ensuremath{\mathsf{NOTE}}$ - Catalog and model numbers shown are for ordering field installed accessories.

X = Field installed.

¹ Optional for three-phase models only.

ELECTRIC HEAT DATA

1-PHASE

Packaged Unit	Ele	ectric Heat Size	lnį	out	¹ Minimum Circuit Ampacity	¹ Minimum Circuit Ampacity	² Maximum Overcurrent Protection	² Maximum Overcurrent Protection
Model No.	kW	Catalog No.	Volt	kW	Circuit 1	Circuit 2	Circuit 1	Circuit 2
	5 kW	40K65	240	5.0	31.2		35	
	3 KVV	4000	208	3.7	27.8		30	
	7 1-\0/	401/00	240	7.0	41.7		50	
13HPP24A 13HPP30A	7 kW	40K66	208	53	36.8		40	
13HPP36A	10 kW	40V67	240	10.0	57.3		60	
	IO KW	40K67	208	7.5	50.3		60	
	15 kW	40K68	240	15.0	57.3	26	60	30
	15 KW	4000	208	11.3	50.3	22.5	60	25
	5 kW	40K65	240	5.0	33.3		35	
	3 KVV	4000	208	3.7	29.9		30	
	7 1.34/	40K66	240	7.0	43.8		50	
	7 kW	4000	208	53	38.9		40	
13HPP42A	40 104	40K67	240	10.0	59.4		60	
13HPP48A 13HPP60A	10 kW		208	7.5	52.4		60	
		401/00	240	15.0	59.4	26	60	30
	15 kW	40K68	208	11.3	52.4	22.5	60	25
	20 1-14/	401/00	240	20.0	59.4	52.1	60	60
	20 kW	40K69	208	15.0	52.4	45.1	60	50
3-PHASE								
	40 134/	4 004007	208	7.5	31.2	35		
DUD42426	10 kW	1.821007	240	10.0	35.2	40		
RHP13A36	45 100	4 004000	208	11.3	44.2	45		
	15 kW	1.821008	240	15.0	50.2	60		
		4 004007	208	7.5	33.3	35		
	10 kW	1.821007	240	10.0	37.3	40		
RHP13A48		1.821014	480	10.0	19.0	20		
RHP13A60		4 004000	208	11.3	46.3	50		
	15 kW	1.821008	240	15.0	52.4	60		
		1.821015	480	15.0	25.8	30		

¹ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements. Use wires suitable for at least 167°F.

² HACR type breaker or fuse.

COOLIN	IG RAT	INGS														
	Indoor						C	Outdoor ⁻	Гетр -	DB°F						
Model	Temp DB/WB		65°			82°			95°		105°		115°			
	°F	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
	85/72	28,100	0.59	1.60	26,500	0.62	1.89	25,300	0.65	2.10	23,700	0.68	2.33	21,800	0.71	2.31
13HPP24A	80/67	26,500	0.67	1.59	25,000	0.70	1.85	23,000	0.74	2.09	21,400	0.76	2.31	19,100	0.81	2.30
ISHFF24A	75/63	25,000	0.71	1.58	22,600	0.74	1.87	20,700	0.76	2.08	19,100	0.81	2.30	17,100	0.85	2.29
	75/57	23,100	1.00	1.56	21,600	1.00	1.84	20,500	1.00	2.05	18,800	1.00	2.27	16,900	1.00	2.25
	85/72	33,700	0.61	1.97	31,900	0.64	2.30	30,500	0.67	2.56	28,200	0.70	2.84	25,900	0.73	2.82
13HPP30A	80/67	32,100	0.68	1.96	29,900	0.72	2.27	28,000	0.75	2.55	25,700	0.79	2.81	22,500	0.84	2.79
ISHPESUA	75/63	30,200	0.72	1.95	27,400	0.76	2.28	25,200	0.79	2.53	22,600	0.84	2.79	19,900	0.88	2.77
	75/57	27,900	1.00	1.92	26,200	1.00	2.25	24,900	1.00	2.50	22,500	1.00	2.76	20,000	1.00	2.73
	85/72	41,800	0.61	2.39	39,400	0.63	2.82	37,500	0.65	3.15	35,700	0.68	3.50	33,100	0.70	3.49
13HPP36A RHP13A36	80/67	39,400	0.68	2.37	37,500	0.71	2.80	34,600	0.74	3.14	32,000	0.76	3.47	29,500	0.80	3.43
	75/63	37,100	0.72	2.36	33,900	0.75	2.79	31,500	0.77	3.12	29,400	0.82	3.45	26,200	0.86	3.42
	75/57	34,300	1.00	2.32	32,300	1.00	2.75	30,800	1.00	3.08	28,900	1.00	3.40	26,100	1.00	3.36
	85/72	46,300	0.64	2.69	44,600	0.66	3.22	43,200	0.68	3.64	40,600	0.70	4.06	37,800	0.72	4.10
13HPP42A	80/67	44,000	0.71	2.68	43,200	0.74	3.18	40,000	0.76	3.63	38,000	0.78	3.98	34,000	0.81	4.03
13111 1 42/	75/63	42,100	0.74	2.67	39,200	0.77	3.17	36,900	0.79	3.56	33,800	0.83	3.96	30,600	0.87	3.98
	75/57	38,300	1.00	2.63	38,800	1.00	3.15	35,600	1.00	3.56	33,100	1.00	3.94	30,400	1.00	3.95
	85/72	54,400	0.65	3.10	52,100	0.66	3.72	50,200	0.67	4.19	47,200	0.69	4.66	43,500	0.71	4.71
13HPP48A	80/67	51,900	0.71	3.08	49,500	0.73	3.64	46,000	0.76	4.18	43,500	0.78	4.55	38,400	0.80	4.65
RHP13A48	75/63	49,900	0.73	3.06	45,600	0.76	3.64	42,300	0.78	4.09	38,700	0.82	4.55	34,300	0.85	4.60
	75/57	45,200	1.00	3.02	42,800	1.00	3.63	40,900	1.00	4.10	37,900	1.00	4.53	34,200	1.00	4.56
	85/72	68,500	0.60	3.87	64,500	0.62	4.61	61,300	0.63	5.17	57,500	0.65	5.76	52,300	0.66	5.75
13HPP60A	80/67	64,800	0.66	3.83	60,800	0.68	4.49	56,000	0.70	5.09	53,000	0.72	5.62	45,300	0.77	5.61
RHP13A60	75/63	60,900	0.69	3.81	54,500	0.72	4.50	49,600	0.75	5.03	45800	0.78	5.56	40,500	0.81	5.52
	75/57	56,400	1.00	3.75	52,700	1.00	4.45	49,800	1.00	4.99	45,500	1.00	5.53	40,300	1.00	5.50

HEATING RATIN	HEATING RATINGS											
		Outdoor Temp - DB/WB °F										
Model	0/	0	17/	/15	35/	/33	47/	43	62/56			
	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW		
13HPP24A	10,100	1.71	13,000	1.73	15,400	1.71	21,600	1.80	26,200	1.87		
13HPP30A	10,700	2.03	16,000	2.04	21,100	2.14	27,000	2.26	32,700	2.33		
13HPP36A RHP13A36	15,900	2.53	20,200	2.58	24,900	2.66	33,600	2.82	40,200	2.93		
13HPP42A	19,600	2.92	22,400	2.99	26,600	3.20	39,000	3.36	46,800	3.48		
13HPP48A RHP13A48	23,900	3.57	26,800	3.74	29,300	3.73	44,000	3.91	52,900	4.08		
13HPP60A RHP13A60	25,200	4.30	34,000	4.34	41,200	4.32	54,000	4.78	64,800	5.03		

BLOWER DATA

13HPP24A BLOWER PERFORMANCE

¹ Horizontal Airflow

		Air Volume at Specific Blower Taps (cfm)									
External Static Pressure in. w.g.	Tap 1 (Fan Only)	Tap 2 (Low Static)	Tap 3 (High Static)	² Tap 4 (Low Static Electric Heat)	² Tap 5 (High Static Electric Heat)						
0.20	640	830	950	900	1060						
0.30	460	800	910	870	1030						
0.40	370	760	880	830	980						
0.50		710	840	800	960						
0.60		640	800	730	930						
0.70		600	750	690	910						
0.80		570	700	640	860						

NOTE - All air data measured external to unit with dry coil and less filter.

13HPP30A BLOWER PERFORMANCE

¹ Horizontal Airflow

	Air Volume at Specific Blower Taps (cfm)									
External Static Pressure in. w.g.	Tap 1 (Fan Only)	Tap 2 (Low Static)	Tap 3 (High Static)	² Tap 4 (Low Static Electric Heat)	² Tap 5 (High Static Electric Heat)					
0.20	650	1030	1150	1110	1150					
0.30	550	1000	1110	1070	1110					
0.40	490	970	1080	1040	1080					
0.50	430	930	1050	1000	1050					
0.60		900	1010	970	1010					
0.70		860	980	950	980					
0.80		820	960	920	960					

NOTE - All air data measured external to unit with dry coil and less filter.

13HPP36A AND RHP13A36 BLOWER PERFORMANCE

¹ Horizontal Airflow

	Air Volume at Specific Blower Taps (cfm)									
External Static Pressure in. w.g.	Tap 1 (Fan Only)	Tap 2 (Low Static)	Tap 3 (High Static)	² Tap 4 (Low Static Electric Heat)	² Tap 5 (High Static Electric Heat)					
0.20	650	1240	1320	1240	1320					
0.30	590	1200	1260	1200	1260					
0.40	500	1150	1230	1150	1230					
0.50	430	1100	1200	1100	1200					
0.60		1060	1160	1060	1160					
0.70		1020	1120	1020	1120					
0.80		980	1080	980	1080					

NOTE - All air data measured external to unit with dry coil and less filter.

¹ For downflow air volume, add 0.10 in. w.g. to duct static.

² Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection

 $^{^{\}mbox{\tiny 1}}$ For downflow air volume, add 0.10 in. w.g. to duct static.

² Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

 $^{^{\}mbox{\tiny 1}}$ For downflow air volume, add 0.10 in. w.g. to duct static.

² Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

BLOWER DATA

13HPP42A BLOWER PERFORMANCE

¹ Horizontal Airflow

	Air Volume at Specific Blower Taps (cfm)									
External Static Pressure in. w.g.	Tap 1 (Fan Only)	Tap 2 (Low Static)	Tap 3 (High Static)	² Tap 4 (Low Static Electric Heat)	² Tap 5 (High Static Electric Heat)					
0.20	780	1450	1650	1510	1650					
0.30	690	1370	1570	1430	1570					
0.40	610	1280	1510	1380	1510					
0.50	540	1200	1440	1290	1440					
0.60		1120	1360	1220	1360					
0.70		1060	1260	1150	1260					
0.80		990	1160	1090	1160					

NOTE - All air data measured external to unit with dry coil and less filter.

13HPP48A AND RHP13A48 BLOWER PERFORMANCE

¹ Horizontal Airflow

	Air Volume at Specific Blower Taps (cfm)										
External Static Pressure in. w.g.	Tap 1 (Fan Only)	Tap 2 (Low Static)	Tap 3 (High Static)	² Tap 4 (Low Static Electric Heat)	² Tap 5 (High Static Electric Heat)						
0.20	860	1650	1800	1650	1800						
0.30	760	1600	1750	1600	1750						
0.40	690	1550	1690	1550	1690						
0.50	640	1500	1630	1500	1630						
0.60		1440	1570	1440	1570						
0.70		1370	1470	1370	1470						
0.80		1290	1330	1290	1330						

NOTE - All air data measured external to unit with dry coil and less filter.

13HPP60A AND RHP13A60 BLOWER PERFORMANCE

¹ Horizontal Airflow

	Air Volume at Specific Blower Taps (cfm)										
External Static Pressure in. w.g.	Tap 1 (Fan Only)	Tap 2 (Low Static)	Tap 3 (High Static)	² Tap 4 (Low Static Electric Heat)	² Tap 5 (High Static Electric Heat)						
0.20	1000	1820	1950	1820	1950						
0.30	900	1790	1910	1790	1910						
0.40	800	1730	1860	1730	1860						
0.50	750	1670	1800	1670	1800						
0.60		1630	1700	1630	1700						
0.70		1530	1560	1530	1560						
0.80		1380	1360	1380	1360						

NOTE - All air data measured external to unit with dry coil and less filter.

¹ For downflow air volume, add 0.10 in. w.g. to duct static.

² Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

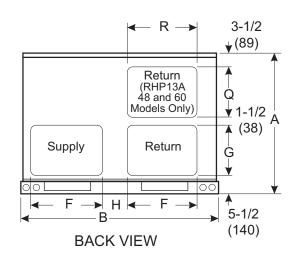
 $^{^{\}mbox{\tiny 1}}$ For downflow air volume, add 0.10 in. w.g. to duct static.

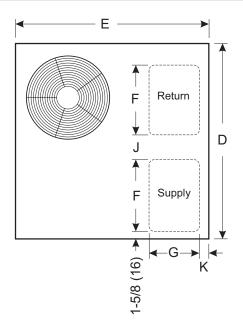
 $^{^{2}}$ Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

 $^{^{\}rm 1}$ For downflow air volume, add 0.10 in. w.g. to duct static.

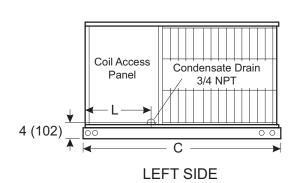
² Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

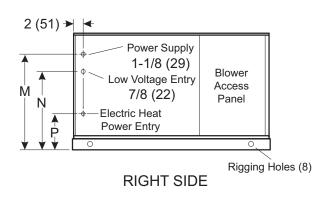
DIMENSIONS - INCHES (MM)





TOP VIEW





Model No.	A A		A B C		D E		F		G		Н					
woder No.	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
13HPP24A 13HPP30A 13HPP36A RHP13A36	32-1/2	826	46-1/2	1181	46-1/2	1181	45-5/8	1159	45-5/8	1159	17-1/2	445	11-1/2	292	4	102
13HPP42A 13HPP48A 13HPP60A RHP13A48 RHP13A60	34-1/2	876	55-1/2	1410	50-1/2	1283	54-5/8	1387	49-5/8	1260	21-1/2	546	12	305	6-1/4	159

Model No.	Madel No.		К		L		M	M N		N P		Р		Q		
woder No.	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
13HPP24A 13HPP30A 13HPP36A RHP13A36	4	102	1-3/4	44	15-5/8	397	27-3/4	705	24-7/8	632	9-3/4	248				
13HPP42A 13HPP48A 13HPP60A RHP13A48 RHP13A60	5-5/8	143	2-3/8	60	17-1/8	435	29-3/4	756	26-7/8	683	15-1/2	394	12	305	21-1/2	546

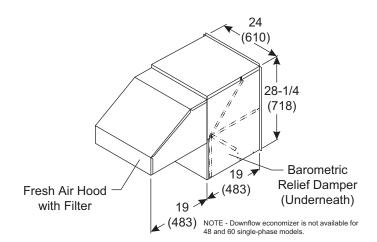
ACCESSORIES DIMENSIONS - INCHES (MM)

ECONOMIZER DAMPERS - DOWNFLOW

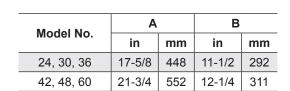
FOR 24, 30 AND 36 MODELS

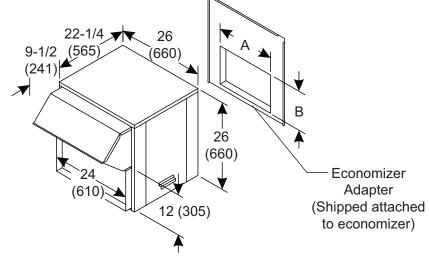
Fresh Air Hood with Filter Barometric Relief Damper (Underneath) 12-3/4 (324)

FOR 42, 48 AND 60 MODELS



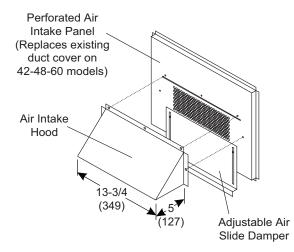
ECONOMIZER DAMPERS - HORIZONTAL



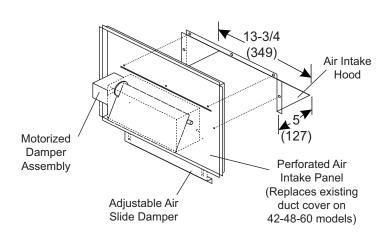


FRESH AIR DAMPERS

MANUAL

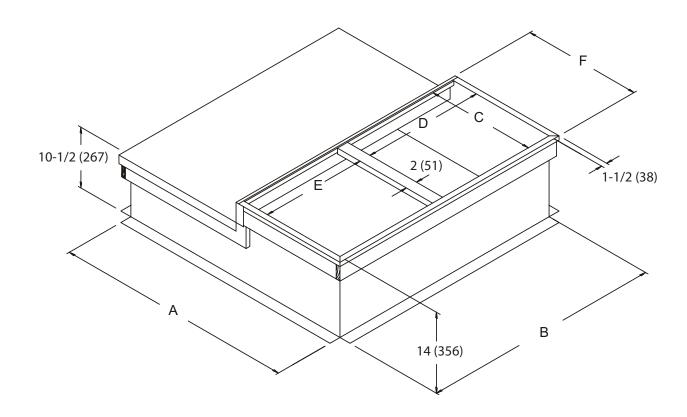


MOTORIZED



ACCESSORIES DIMENSIONS - INCHES (MM)

ROOF CURB



Madal Na	Α		В		С		D		E		F	
Model No.	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
13HPP24A 13HPP30A 13HPP36A RHP13A36	40	1016	40	1016	17-1/2	445	20	508	18	457	21-1/2	546
13HPP42A 13HPP48A 13HPP60A RHP13A48 RHP13A60	44-1/8	1121	49	1245	18	457	23-1/2	597	23-1/2	597	23	584

REVISIONS					
Sections	Description of Change				
Accessories Dimensions	Revised "C" dimension for roof curb.				







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