

# HRG18\*\*S1P

## SPECIFICATIONS

### Compressor

- Inverter-driven compressor for true variable capacity operation, precision environmental control, and exceptional energy savings
- R410A refrigerant
- Grommet-mounted compressor for quiet operation
- Heavy-duty compressor sound blanket for quiet operation
- Internally protected against high temperature motor overload conditions

### Cabinet

- Full metal louvered construction to protect the coil
- Individual metal louvered panels remove easily for coil cleaning and service
- Specialized corner-mounted controls for easy service
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- External gauge ports for easy service
- Removable service panel for internal access
- Compliant with Florida Building Code 2020

### Design

- Designed for installation with a standard 24V thermostat and non-communicating equipment
- Offers five total operating modes, three in cooling and two for heating, to fine-tune the unit's performance to the application and consumer's needs
- Clean-sweep defrost provides a more thorough defrost, reducing the number of cycles during heating operation
- Designed to perform in temperatures from -15°F to 125°F

### Coils

- Coil corrosion protection with all-aluminum tube-and-fin coil design
- Lanced fins for maximum heat transfer
- Factory tested for leakproof construction
- Raised coil prevents debris from impeding airflow and helps prevent ice build-up

### Components

- 45-degree offset gauge ports are positioned for quick installation and easy service
- Variable speed condenser fan motor
- Swept wing fan blade for quiet operation (5 Ton)
- Factory-installed crankcase heater
- Factory-installed TXV for excellent refrigeration control
- Factory-installed high and low pressure switches
- Thread-on pressure switches for simple, quick service
- Fan orifice for smoother airflow and sound level reduction
- Proprietary technology uses proprietary algorithms and specialized sensors to monitor liquid and suction temperatures and pressures for precision system control in true variable speed operation
- Shipped factory charged for 15 feet of line set
- Discharge muffler for quiet operation
- Demand defrost for increased energy efficiency
- Units are capable of reducing noise during defrost

## SPLIT SYSTEM HEAT PUMP

*18 SEER High Efficiency  
Up to 20 SEER & 10.0 HSPF*



For the latest AHRI system matches,  
please visit [www.marsdeliversratings.com](http://www.marsdeliversratings.com)  
or [AHRIdirectory.org](http://AHRIdirectory.org)

*Comfort-Care*®

**Warranty**—12 years on compressor, 6 years on parts  
(Some limitations apply; see printed warranty for details.)

[www.marsdelivers.com](http://www.marsdelivers.com)

## MODEL NUMBER GUIDE

<b>H</b>	<b>R</b>	<b>G</b>	<b>18</b>	<b>36</b>	<b>S</b>	<b>1</b>	<b>P</b>
Heat Pump	Residential Split	'Green' Gas R-410A	SEER 18	Capacity 24k-36k	Selective Capacity	Power 1 = 208/230-1-60	Series/ Revision

<b>H</b>	<b>R</b>	<b>G</b>	<b>18</b>	<b>60</b>	<b>S</b>	<b>1</b>	<b>P</b>
Heat Pump	Residential Split	'Green' Gas R-410A	SEER 18	Capacity 48k-60k	Selective Capacity	Power 1 = 208/230-1-60	Series/ Revision

## ELECTRICAL AND PHYSICAL DATA

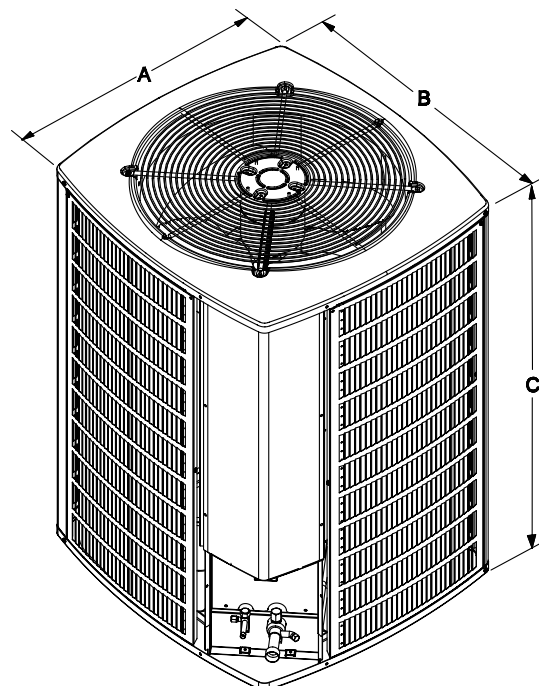
Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over Current Device (amps)	Compressor	Outdoor Fan Motor			Shipping Weight (lbs.)
					Input Amps	Full Load (amps)	Rated HP	Nom. RPM	
HRG1836S1P	208-230/60/1	197-253	21.9	35	15.3	2.8	1/3	VAR. SPD	215
HRG1860S1P	208-230/60/1	197-253	33.7	50	24.7	2.8	1/3	VAR. SPD	272

Note:  
Weights listed are unit weights with packaging  
+ Factory charged for 15 feet of line set; adjust per installation instructions

## DIMENSIONS (IN.)

Model No.	Dimensions (inch)		
	A - Width	B - Depth	C - Height
HRG1836S1P	29-3/8	31-1/2	33-3/4
HRG1860S1P	29-3/8	31-1/4	43-3/4

Note:  
Dimensions listed are unit sizes w/o packaging



## SOUND RATINGS

Model	Sound Power <sup>1</sup>	Estimated Sound Pressure (dBA) <sup>2</sup>		
		Approximate Distance <sup>3</sup>		
		One Meter (3.3 feet)	Two Meters (6.6 feet)	Three Meters (9.8 feet)
HRG1836S1P (2 TON MODE)	72	64	58	54
HRG1836S1P (3 TON MODE)	74	66	60	56
HRG1860S1P (4 TON MODE)	74	66	60	56
HRG1860S1P (5 TON MODE)	79	71	65	61

1 Rated in accordance with AHRI standard 270 (2015)

2 Rated in accordance with AHRI standard 275 (2010)

3 Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

## REFRIGERATION DATA

Model	Factory Refrig. Charge (oz.) <sup>*</sup>	TXV	Refrigerant Line Size		Outdoor Unit Connection		Indoor Unit Connection	
			Suction	Liquid	Suction	Liquid	Suction	Liquid
HRG1836S1P	138	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
HRG1860S1P	186	H4TXV03	1-1/8	3/8	7/8	3/8	7/8	3/8

<sup>\*</sup> Factory charged for 15 feet of line set; adjust per installation instructions

Refrigerant charge also varies with indoor unit; refer to refrigerant charge label

## COOLING PERFORMANCE WITH DTC<sup>1</sup>

Outdoor Model	Indoor Model	Cooling				Heating				High CFM	Med CFM	Low CFM	
		SEER	EER	AHRI Rated Capacity <sup>2</sup>	Sensible Capacity	HSPF	47°		17°				
							Btuh	COP	Btuh				COP
HRG1836S1P	HCG36V1P	19.0	12.0	34400	27200	9.6	33400	3.30	21400	2.40	1200	820	820
HRG1860S1P	HCG60V1P	16.0	10.0	55500	40600	9.0	55500	2.82	37000	2.14	1800	1200	1200

Note:

1 DTC = Designated tested combination

2 Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

3 A blower time delay relay is standard on all Comfort-Aire/Century furnaces and air handler products

### NOTE:

For the latest AHRI system matches, please visit  
[www.marsdeliversratings.com](http://www.marsdeliversratings.com) or [www.AHRIdirectory.org](http://www.AHRIdirectory.org)

**COOLING PERFORMANCE EXTENDED RATINGS**

**HRG1836S1P - HCG36V1P - MAXIMUM CAPACITY**

Indoor Wet Bulb Temperature		Outdoor Air Temperature Entering Outdoor Coil																																		
		85° F (29.4° C)			95° F (35° C)			105° F (40.6° C)			115° F (46.1° C)			125° F (51.7° C)																						
		Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input	Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input	Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input																	
kBtuh	KW	Indoor Dry Bulb	Indoor Dry Bulb		kBtuh	KW		Indoor Dry Bulb	Indoor Dry Bulb		kBtuh	KW		Indoor Dry Bulb	Indoor Dry Bulb		kBtuh	KW		Indoor Dry Bulb	Indoor Dry Bulb															
cfm	L/s	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C																	
59°F (15°C)	1050	495	33.2	9.7	2130	93	1.00	1.00	2400	.95	1.00	1.00	30.2	8.9	2680	.98	1.00	1.00	28.6	8.4	2990	1.00	1.00	1.00	26.8	7.9	3330	1.00	1.00	1.00	23.9°C	26.7°C	29.4°C	1.00	1.00	1.00
	1215	575	34.8	10.2	2130	98	1.00	1.00	2400	1.00	1.00	1.00	31.6	9.3	2700	1.00	1.00	1.00	29.8	8.7	3010	1.00	1.00	1.00	28.0	8.2	3350	1.00	1.00	1.00	26.7°C	29.4°C	1.00	1.00	1.00	
	1385	655	36.2	10.6	2130	1.00	1.00	1.00	2410	1.00	1.00	1.00	32.8	9.6	2710	1.00	1.00	1.00	31.0	9.1	3030	1.00	1.00	1.00	29.0	8.5	3370	1.00	1.00	1.00	26.7°C	29.4°C	1.00	1.00	1.00	
63°F (17.2°C)	1050	495	34.4	10.1	2130	.75	.89	1.00	2400	.77	.92	1.00	30.8	9.0	2690	.79	.95	1.00	28.8	8.4	3000	.82	.98	1.00	26.8	7.9	3330	.85	1.00	1.00	23.9°C	26.7°C	29.4°C	1.00	1.00	1.00
	1215	575	35.6	10.4	2130	.79	.94	1.00	2410	.80	.97	1.00	31.8	9.3	2700	.83	1.00	1.00	29.8	8.7	3010	.86	1.00	1.00	28.0	8.2	3350	.90	1.00	1.00	26.7°C	29.4°C	1.00	1.00	1.00	
	1385	655	36.4	10.7	2130	.82	.98	1.00	2410	.84	1.00	1.00	32.8	9.6	2710	.87	1.00	1.00	31.0	9.1	3030	.90	1.00	1.00	29.0	8.5	3370	.94	1.00	1.00	26.7°C	29.4°C	1.00	1.00	1.00	
67°F (19.4°C)	1050	495	36.4	10.7	2130	.59	.73	.86	2410	.61	.74	.88	32.8	9.6	2710	.61	.77	.91	30.6	9.0	3030	.63	.79	.94	28.4	8.3	3360	.65	.82	.99	23.9°C	26.7°C	29.4°C	1.00	1.00	1.00
	1215	575	37.6	11.0	2130	.62	.76	.90	2420	.63	.78	.93	33.6	9.8	2720	.64	.80	.96	31.4	9.2	3040	.66	.84	1.00	29.0	8.5	3370	.68	.87	1.00	26.7°C	29.4°C	1.00	1.00	1.00	
	1385	655	38.5	11.3	2120	.63	.79	.95	2420	.65	.82	.98	34.4	10.1	2720	.66	.84	1.00	32.2	9.4	3040	.68	.88	1.00	29.6	8.7	3390	.71	.92	1.00	26.7°C	29.4°C	1.00	1.00	1.00	
71°F (21.7°C)	1050	495	38.5	11.3	2120	.45	.58	.70	2420	.46	.59	.72	34.6	10.1	2720	.46	.60	.74	32.4	9.5	3040	.47	.62	.77	30.0	8.8	3400	.47	.64	.80	23.9°C	26.7°C	29.4°C	1.00	1.00	1.00
	1215	575	39.5	11.6	2130	.46	.60	.74	2410	.46	.61	.76	35.6	10.4	2730	.47	.63	.78	33.4	9.8	3060	.48	.64	.81	30.8	9.0	3400	.48	.66	.84	26.7°C	29.4°C	1.00	1.00	1.00	
	1385	655	40.5	11.9	2130	.47	.62	.77	2420	.47	.64	.79	36.2	10.6	2730	.48	.65	.82	34.0	10.0	3050	.49	.67	.85	31.6	9.3	3420	.50	.70	.89	26.7°C	29.4°C	1.00	1.00	1.00	



**COOLING PERFORMANCE EXTENDED RATINGS**

**HRG1836S1P - HGG36V1P - MINIMUM CAPACITY**

Indoor Wet Bulb Temperature		Outdoor Air Temperature Entering Outdoor Coil																								
		75° F (23.9° C)						85° F (29.4° C)						95° F (35° C)						105° F (40.6° C)						
		Total Cooling Capacity			Sensible To Total Ratio (S/T)			Comp. Motor Watts Input			Indoor Dry Bulb			Total Cooling Capacity			Sensible To Total Ratio (S/T)			Comp. Motor Watts Input			Indoor Dry Bulb			
		cfm	L/s	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Comp. Motor Watts Input	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Comp. Motor Watts Input	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C		
59°F (15°C)	725	345	14.0	4.1	370	1.00	1.00	1.00	133	3.9	470	1.00	1.00	1.00	12.6	3.7	580	1.00	1.00	1.00	11.7	3.4	690	1.00	1.00	1.00
	830	390	14.5	4.2	360	1.00	1.00	1.00	13.8	4.0	460	1.00	1.00	1.00	13.0	3.8	570	1.00	1.00	1.00	12.1	3.5	690	1.00	1.00	1.00
	970	460	15.0	4.4	350	1.00	1.00	1.00	14.2	4.2	460	1.00	1.00	1.00	13.4	3.9	560	1.00	1.00	1.00	12.5	3.7	660	1.00	1.00	1.00
63°F (17.2°C)	725	345	14.0	4.1	370	1.00	1.00	1.00	13.4	3.9	470	1.00	1.00	1.00	12.6	3.7	580	1.00	1.00	1.00	11.7	3.4	690	1.00	1.00	1.00
	830	390	14.5	4.2	360	1.00	1.00	1.00	13.8	4.0	460	1.00	1.00	1.00	13.0	3.8	570	1.00	1.00	1.00	12.1	3.5	690	1.00	1.00	1.00
	970	460	14.9	4.4	350	1.00	1.00	1.00	14.2	4.2	450	1.00	1.00	1.00	13.4	3.9	560	1.00	1.00	1.00	12.5	3.7	680	1.00	1.00	1.00
67°F (19.4°C)	725	345	14.0	4.1	370	.78	1.00	1.00	13.3	3.9	470	.81	1.00	1.00	12.6	3.7	580	.85	1.00	1.00	11.7	3.4	690	.89	1.00	1.00
	830	390	14.5	4.2	360	.82	1.00	1.00	13.8	4.0	460	.85	1.00	1.00	13.0	3.8	570	.90	1.00	1.00	12.1	3.5	680	.95	1.00	1.00
	970	460	14.9	4.4	350	.89	1.00	1.00	14.2	4.2	450	.91	1.00	1.00	13.4	3.9	560	.97	1.00	1.00	12.5	3.7	680	1.00	1.00	1.00
71°F (21.7°C)	725	345	14.8	4.3	350	.53	.78	1.00	14.0	4.1	460	.55	.80	1.00	13.1	3.8	570	.56	.84	1.00	12.0	3.5	690	.58	.88	1.00
	830	390	15.1	4.4	350	.55	.81	1.00	14.3	4.2	450	.59	.85	1.00	13.3	3.9	570	.57	.89	1.00	12.3	3.6	680	.61	.94	1.00
	970	460	15.4	4.5	340	.56	.88	1.00	14.6	4.3	450	.59	.91	1.00	13.5	4.0	560	.61	.96	1.00	12.5	3.7	680	.64	1.00	1.00

**COOLING PERFORMANCE EXTENDED RATINGS**

**HRG1860S1P - HGG60V1P - MAXIMUM CAPACITY**

Indoor Wet Bulb Temperature		Outdoor Air Temperature Entering Outdoor Coil																																			
		85° F (29.4° C)						95° F (35° C)						105° F (40.6° C)						115° F (46.1° C)						125° F (51.7° C)											
		Total Cooling Capacity			Sensible To Total Ratio (S/T)			Comp. Motor Watts Input			Total Cooling Capacity			Sensible To Total Ratio (S/T)			Comp. Motor Watts Input			Total Cooling Capacity			Sensible To Total Ratio (S/T)			Comp. Motor Watts Input			Total Cooling Capacity			Sensible To Total Ratio (S/T)			Comp. Motor Watts Input		
		kBtuh	kW	cfm	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C						
59°F (15°C)	1605	53.5	15.7	3760	.90	1.00	1.00	1.00	.92	1.00	1.00	1.00	49.0	14.4	4810	.95	1.00	1.00	47.0	13.8	5500	.98	1.00	1.00	44.0	12.9	6340	1.00	1.00	1.00							
	1840	56.0	16.4	3780	.94	1.00	1.00	1.00	.96	1.00	1.00	51.5	15.1	4840	.99	1.00	1.00	48.5	14.2	5540	1.00	1.00	1.00	46.0	13.5	6390	1.00	1.00	1.00								
	2030	57.5	16.9	3800	.97	1.00	1.00	1.00	.99	1.00	1.00	53.0	15.5	4860	1.00	1.00	1.00	50.0	14.7	5570	1.00	1.00	1.00	47.0	13.8	6420	1.00	1.00	1.00								
63°F (17.2°C)	1605	56.0	16.4	3760	.73	.87	.99	.89	.75	.89	1.00	50.5	14.8	4830	.77	.91	1.00	47.5	13.9	5520	.78	.94	1.00	44.5	13.0	6350	.82	.98	1.00	1.00							
	1840	57.5	16.9	3800	.76	.90	1.00	.93	.78	.93	1.00	52.0	15.2	4850	.80	.96	1.00	49.0	14.4	5550	.82	.99	1.00	46.0	13.5	6390	.85	1.00	1.00	1.00							
	2030	59.0	17.3	3800	.78	.94	1.00	.96	.80	.96	1.00	53.5	15.7	4860	.82	.99	1.00	50.0	14.7	5570	.85	1.00	1.00	47.0	13.8	6420	.88	1.00	1.00	1.00							
67°F (19.4°C)	1605	59.0	17.3	3800	.59	.71	.83	.85	.59	.73	.85	53.5	15.7	4870	.60	.74	.88	50.5	14.8	5570	.61	.76	.90	47.0	13.8	6420	.63	.79	.94	1.00							
	1840	60.5	17.7	3820	.61	.74	.87	.89	.61	.75	.89	55.0	16.1	4890	.62	.77	.92	52.0	15.2	5600	.63	.80	.95	48.5	14.2	6450	.65	.83	.99	1.00							
	2030	62.0	18.2	3830	.61	.76	.90	.92	.62	.78	.92	56.0	16.4	4900	.64	.80	.95	53.0	15.5	5610	.65	.82	.99	49.0	14.4	6470	.67	.86	1.00	1.00							
71°F (21.7°C)	1605	62.5	18.3	3830	.45	.57	.68	.70	.45	.58	.70	56.5	16.6	4910	.45	.59	.72	53.5	15.7	5630	.46	.60	.74	50.0	14.7	6500	.47	.62	.76	1.00							
	1840	64.5	18.9	3840	.46	.59	.71	.73	.46	.60	.73	58.5	17.1	4930	.46	.61	.75	55.0	16.1	5660	.47	.62	.77	51.0	14.9	6530	.48	.64	.80	1.00							
	2030	65.5	19.2	3840	.46	.60	.73	.75	.46	.61	.75	59.5	17.4	4940	.47	.62	.77	56.0	16.4	5670	.48	.64	.80	52.0	15.2	6550	.48	.66	.83	1.00							

**COOLING PERFORMANCE EXTENDED RATINGS**

**HRG1860S1P - HCG60V1P - INTERMEDIATE CAPACITY**

Indoor Wet Bulb Temperature		Outdoor Air Temperature Entering Outdoor Coil																																				
		85° F (29.4° C)						95° F (35° C)						105° F (40.6° C)						115° F (46.1° C)						125° F (51.7° C)												
		Total Cooling Capacity		Comp. Motor Watts Input		Sensible To Total Ratio (S/T)		Indoor Dry Bulb		Total Cooling Capacity		Comp. Motor Watts Input		Sensible To Total Ratio (S/T)		Indoor Dry Bulb		Total Cooling Capacity		Comp. Motor Watts Input		Sensible To Total Ratio (S/T)		Indoor Dry Bulb		Total Cooling Capacity		Comp. Motor Watts Input		Sensible To Total Ratio (S/T)		Indoor Dry Bulb						
cfm	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C										
59°F (15°C)	1110	34.6	10.1	1570	.95	1.00	1.00	1.00	33.4	9.8	1840	.98	1.00	1.00	1.00	32.0	9.4	2130	1.00	1.00	1.00	1.00	1.00	1.00	30.8	9.0	2450	1.00	1.00	1.00	1.00	29.4	8.6	2850	1.00	1.00	1.00	1.00
	1210	35.6	10.4	1570	.98	1.00	1.00	1.00	34.2	10.0	1840	1.00	1.00	1.00	1.00	32.8	9.6	2120	1.00	1.00	1.00	1.00	1.00	1.00	31.6	9.3	2450	1.00	1.00	1.00	1.00	30.2	8.9	2840	1.00	1.00	1.00	1.00
	1380	37.0	10.8	1560	1.00	1.00	1.00	1.00	35.6	10.4	1830	1.00	1.00	1.00	1.00	34.2	10.0	2120	1.00	1.00	1.00	1.00	1.00	1.00	32.8	9.6	2440	1.00	1.00	1.00	1.00	31.2	9.1	2830	1.00	1.00	1.00	1.00
63°F (17.2°C)	1110	35.6	10.4	1570	.77	.92	1.00	1.00	34.0	10.0	1840	.79	.94	1.00	1.00	32.4	9.5	2130	.81	.97	1.00	1.00	1.00	1.00	31.0	9.1	2460	.83	.99	1.00	1.00	29.4	8.6	2840	.85	1.00	1.00	1.00
	1210	36.2	10.6	1560	.79	.95	1.00	1.00	34.6	10.1	1840	.81	.97	1.00	1.00	33.0	9.7	2120	.83	1.00	1.00	1.00	1.00	1.00	31.6	9.3	2450	.85	1.00	1.00	1.00	30.2	8.9	2840	.87	1.00	1.00	1.00
	1380	37.2	10.9	1560	.83	.99	1.00	1.00	35.6	10.4	1830	.85	1.00	1.00	1.00	34.2	10.0	2120	.87	1.00	1.00	1.00	1.00	1.00	32.8	9.6	2450	.89	1.00	1.00	1.00	31.4	9.2	2840	.92	1.00	1.00	1.00
67°F (19.4°C)	1110	37.4	11.0	1550	.60	.75	.88	1.00	35.8	10.5	1820	.62	.76	.91	1.00	34.2	10.0	2120	.63	.78	.93	1.00	1.00	1.00	32.6	9.6	2450	.64	.80	.96	1.00	31.0	9.1	2840	.65	.82	.99	1.00
	1210	38.0	11.1	1550	.62	.77	.91	1.00	36.4	10.7	1820	.63	.79	.94	1.00	34.8	10.2	2110	.64	.81	.97	1.00	1.00	1.00	33.2	9.7	2440	.65	.83	.99	1.00	31.6	9.3	2840	.67	.85	1.00	1.00
	1380	39.0	11.4	1540	.64	.80	.96	1.00	37.2	10.9	1810	.65	.82	.99	1.00	35.6	10.4	2110	.66	.84	1.00	1.00	1.00	1.00	34.0	10.0	2440	.68	.87	1.00	1.00	32.2	9.4	2830	.69	.89	1.00	1.00
71°F (21.7°C)	1110	39.5	11.6	1530	.45	.58	.72	1.00	37.6	11.0	1810	.45	.60	.74	1.00	36.0	10.6	2100	.46	.61	.76	1.00	1.00	1.00	34.4	10.1	2430	.47	.63	.78	1.00	32.8	9.6	2830	.47	.64	.80	1.00
	1210	40.0	11.7	1530	.45	.61	.75	1.00	38.0	11.1	1800	.47	.62	.76	1.00	36.6	10.7	2100	.47	.63	.78	1.00	1.00	1.00	35.0	10.3	2430	.48	.64	.80	1.00	33.4	9.8	2820	.48	.66	.83	1.00
	1380	41.0	12.0	1520	.47	.63	.78	1.00	39.0	11.4	1790	.48	.64	.80	1.00	37.4	11.0	2090	.48	.66	.82	1.00	1.00	1.00	35.6	10.4	2420	.48	.67	.84	1.00	34.0	10.0	2810	.49	.69	.87	1.00





# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P - HCG36V1P - INDOOR COIL AT 65°F DRY BULB

### MINIMUM CAPACITY

Indoor Coil Air Volume 65°F db (28°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)				60°F (16°C)				55°F (13°C)				50°F (10°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input				
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW					
726	345	12.5	3.7	345	11.7	3.4	360	10.9	3.2	375	10.1	3.0	395				
831	390	12.5	3.7	330	11.7	3.4	345	10.9	3.2	360	10.1	3.0	375				
970	460	12.7	3.7	315	12.0	3.5	330	11.2	3.3	345	10.4	3.0	360				

### MAXIMUM CAPACITY

Indoor Coil Air Volume 65°F db (28°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-28°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input					
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
1050	495	41.8	12.3	2760	33.3	9.8	2435	24.7	7.2	2075	16.5	4.8	1880	8.1	2.4	1415					
1216	575	42.5	12.5	2665	33.9	9.9	2340	25.3	7.4	1980	17.1	5.0	1785	8.7	2.5	1315					
1385	655	43.4	12.7	2590	34.8	10.2	2265	26.2	7.7	1910	18.0	5.3	1715	9.6	2.8	1245					

Outdoor Temp.	°F	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10	-15	-20
	°C	18	16	13	10	8	7	4	2	-1	-4	-7	-8	-9	-12	-15	-18	-21	-23	-26	-29
Compressor Motor kW Input		2.67	2.60	2.53	2.46	2.42	2.34	2.15	1.96	1.97	1.98	2.00	2.00	1.98	1.91	1.79	1.67	1.55	1.44	1.32	1.20
Total Output	kBtuh	42.5	40.3	38.2	36.1	34.8	33.9	31.6	29.3	27.3	25.3	23.3	22.1	21.3	19.2	17.1	15	12.9	10.8	8.7	6.6
	kW	12.5	11.8	11.2	10.6	10.2	9.9	9.3	8.6	8.0	7.4	6.8	6.5	6.2	5.6	5.0	4.4	3.8	3.2	2.5	1.9

	Inputs							
	Cap		Watts		Cap		Watts	
	Low		Med		High			
CFM	726		831		970			
62°F Low	12003.304		355.082		12006.137		338.698	
47°F Low	---		---		9670.622		385.625	
CFM	1050		1216		1385			
47°F	34200.948		2510.592		34836.619		2414.633	
35°F	---		---		29281.329		1955.715	
17°F	---		---		22139.648		2000.225	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P - HCG36V1P - INDOOR COIL AT 70°F DRY BULB

### MINIMUM CAPACITY

Indoor Coil Air Volume 70°F db (28°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)		60°F (16°C)		55°F (13°C)		50°F (10°C)					
		Total Heating Capacity		Comp. Motor Watts Input		Total Heating Capacity		Comp. Motor Watts Input		Total Heating Capacity		Comp. Motor Watts Input	
CFM	L/s	kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input	
726	345	12.2	3.6	390		11.5	3.4	400		10.7	3.1	415	
831	390	12.2	3.6	370		11.5	3.4	385		10.7	3.1	395	
970	460	12.6	3.7	355		11.8	3.5	370		11.0	3.2	385	

### MAXIMUM CAPACITY

Indoor Coil Air Volume 70°F db (28°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)					
		Total Heating Capacity		Comp. Motor Watts Input		Total Heating Capacity		Comp. Motor Watts Input		Total Heating Capacity		Comp. Motor Watts Input			
CFM	L/s	kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input			
1050	495	40.9	12.0	2890		32.6	9.6	2535		24.3	7.1	2150			
1216	575	41.6	12.2	2805		33.3	9.8	2450		25.0	7.3	2065			
1385	655	42.5	12.5	2735		34.2	10.0	2380		25.9	7.6	1995			

Outdoor Temp.	°F	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10	-15	-20
	°C	18	16	13	10	8	7	4	2	-1	-4	-7	-8	-9	-12	-15	-18	-21	-23	-26	-29
Compressor Motor kW Input		2.81	2.73	2.66	2.58	2.53	2.45	2.26	2.06	2.06	2.07	2.08	2.08	2.05	1.97	1.85	1.73	1.61	1.49	1.37	1.25
Total Output	kBtuh	41.6	39.5	37.5	35.4	34.2	33.3	31.1	28.9	26.9	25	23	21.8	21	19	16.9	14.8	12.8	10.7	8.6	6.6
	kW	12.2	11.6	11.0	10.4	10.0	9.8	9.1	8.5	7.9	7.3	6.7	6.4	6.2	5.6	5.0	4.3	3.8	3.1	2.5	1.9

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	726		831		970	
62°F Low	11769.418		396.542		11779.34	
47°F Low	---		---		9484.096	
CFM	1050		1216		1385	
47°F	33478.862		2614.818		34171.371	
35°F	---		---		28870.357	
17°F	---		---		22139.648	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P - HCG36V1P - INDOOR COIL AT 75°F DRY BULB

### MINIMUM CAPACITY

Indoor Coil Air Volume 75°F db (28°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)				60°F (16°C)				55°F (13°C)				50°F (10°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input				
		CFM	L/s		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		
726	345	12.0	3.5	425	11.3	3.3	440	10.5	3.1	455	9.7	2.8	465				
831	390	12.1	3.5	410	11.3	3.3	425	10.5	3.1	440	9.7	2.8	450				
970	460	12.3	3.6	395	11.6	3.4	410	10.8	3.2	425	10.0	2.9	435				

### MAXIMUM CAPACITY

Indoor Coil Air Volume 75°F db (28°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-28°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input					
		CFM	L/s		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	kBtuh	kW	
1050	495	40.0	11.7	3015	32.0	9.4	2645	23.9	7.0	2245	16.0	4.7	2010	7.9	2.3	1510					
1216	575	40.6	11.9	2925	32.6	9.6	2555	24.6	7.2	2155	16.6	4.9	1920	8.5	2.5	1420					
1385	655	41.5	12.2	2865	33.5	9.8	2495	25.5	7.5	2095	17.6	5.2	1860	9.4	2.8	1360					

Outdoor Temp.	°F	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10	-15	-20
	°C	18	16	13	10	8	7	4	2	-1	-4	-7	-8	-9	-12	-15	-18	-21	-23	-26	-29
Compressor Motor kW Input		2.93	2.85	2.77	2.69	2.64	2.56	2.36	2.15	2.16	2.16	2.16	2.16	2.13	2.05	1.92	1.8	1.67	1.55	1.42	1.3
Total Output	kBtuh	40.6	38.6	36.6	34.6	33.4	32.6	30.5	28.4	26.5	24.6	22.6	21.5	20.7	18.7	16.6	14.6	12.5	10.5	8.5	6.4
	kW	11.9	11.3	10.7	10.1	9.8	9.6	8.9	8.3	7.8	7.2	6.6	6.3	6.1	5.5	4.9	4.3	3.7	3.1	2.5	1.9

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
	CFM					
	726		831		970	
62°F Low	11582.827	433.686	11594.856	418.781	11881.196	404.374
47°F Low	---	---	9271.417	459.42	---	---
	1050		1216		1385	
47°F	32808.519	2727.334	33430.815	2637.547	34363.558	2577.379
35°F	---	---	28431.65	2151.921	---	---
17°F	---	---	21454.184	2159.325	---	---



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1860S1P - HCG60V1P - INDOOR COIL AT 65°F DRY BULB

### MINIMUM CAPACITY

Indoor Coil Air Volume 65°F db (28°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)				60°F (16°C)				55°F (13°C)				50°F (10°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input				
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW					
1111	525	23.2	6.8	900	21.7	6.4	905	20.3	5.9	915	18.8	5.5	920				
1212	570	23.2	6.8	875	21.8	6.4	880	20.3	5.9	885	18.9	5.5	890				
1380	650	23.8	7.0	830	22.4	6.6	835	20.9	6.1	840	19.5	5.7	845				

### MAXIMUM CAPACITY

Indoor Coil Air Volume 65°F db (28°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-28°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input					
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
1605	755	68.0	19.9	5075	55.5	16.3	4705	43.1	12.6	4320	29.4	8.6	3860	14.4	4.2	2870					
1838	865	68.9	20.2	4865	56.4	16.5	4495	44.0	12.9	4110	30.3	8.9	3650	15.3	4.5	2660					
2030	960	69.8	20.5	4730	57.3	16.8	4360	45.0	13.2	3975	31.3	9.2	3515	16.3	4.8	2525					

Outdoor Temp.	°F	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10	-15	-20
	°C	18	16	13	10	8	7	4	2	-1	-4	-7	-8	-9	-12	-15	-18	-21	-23	-26	-29
Compressor Motor kW Input	4.87	4.78	4.69	4.6	4.55	4.5	4.36	4.22	4.17	4.11	4.06	4.02	3.99	3.9	3.65	3.41	3.16	2.91	2.66	2.42	
Total Output	kBtuh	68.9	65.7	62.5	59.4	57.5	56.4	53.6	50.8	47.4	44	40.6	38.5	37.3	34.1	30.3	26.6	22.8	19.1	15.3	11.6
	kW	20.2	19.3	18.3	17.4	16.9	16.5	15.7	14.9	13.9	12.9	11.9	11.3	10.9	10.0	8.9	7.8	6.7	5.6	4.5	3.4

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	1111		1212		1380	
62°F Low	22311.862		905.201		22347.104	
47°F Low	---		---		17998.422	
CFM	1605		1838		2030	
47°F	56580.116		4760.251		57488.084	
35°F	---		---		50803.357	
17°F	---		---		38522.453	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1860S1P - HCG60V1P - INDOOR COIL AT 70°F DRY BULB

### MINIMUM CAPACITY

Indoor Coil Air Volume 70°F db (28°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)				60°F (16°C)				55°F (13°C)				50°F (10°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input				
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW					
1111	525	22.7	6.7	1005	21.3	6.2	1010	19.9	5.8	1010	18.5	5.4	1015				
1212	570	22.8	6.7	970	21.4	6.3	975	19.9	5.8	980	18.5	5.4	980				
1380	650	23.4	6.9	930	21.9	6.4	935	20.5	6.0	935	19.1	5.6	940				

### MAXIMUM CAPACITY

Indoor Coil Air Volume 70°F db (28°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-28°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input					
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
1605	755	67.3	19.7	5410	54.9	16.1	5005	42.6	12.5	4585	29.2	8.6	4100	14.3	4.2	3055					
1838	865	68.2	20.0	5170	55.8	16.4	4765	43.5	12.7	4345	30.1	8.8	3860	15.2	4.5	2815					
2030	960	69.2	20.3	5025	56.8	16.6	4620	44.5	13.0	4200	31.1	9.1	3715	16.2	4.7	2670					

Outdoor Temp.	°F	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10	-15	-20
	°C	18	16	13	10	8	7	4	2	-1	-4	-7	-8	-9	-12	-15	-18	-21	-23	-26	-29
Compressor Motor kW Input		5.17	5.08	4.98	4.89	4.83	4.77	4.61	4.46	4.4	4.35	4.29	4.26	4.22	4.13	3.86	3.6	3.34	3.08	2.82	2.56
Total Output	kBtuh	68.2	65	61.9	58.8	56.9	55.8	53	50.2	46.9	43.5	40.2	38.2	37	33.8	30.1	26.4	22.7	18.9	15.2	11.5
	kW	20.0	19.0	18.1	17.2	16.7	16.4	15.5	14.7	13.7	12.7	11.8	11.2	10.8	9.9	8.8	7.7	6.7	5.5	4.5	3.4

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	1111		1212		1380	
62°F Low	21891.274		1008.056		21931.16	
47°F Low	---		---		17653.772	
CFM	1605		1838		2030	
47°F	56043.57		5069.285		56928.888	
35°F	---		---		50182.81	
17°F	---		---		38210.078	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1860S1P - HCG60V1P - INDOOR COIL AT 75°F DRY BULB

### MINIMUM CAPACITY

Indoor Coil Air Volume 75°F db (28°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)				60°F (16°C)				55°F (13°C)				50°F (10°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input				
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW					
1111	525	22.3	6.5	1115	20.9	6.1	1115	19.5	5.7	1110	18.1	5.3	1110				
1212	570	22.3	6.5	1085	20.9	6.1	1085	19.5	5.7	1085	18.1	5.3	1080				
1380	650	22.9	6.7	1045	21.5	6.3	1045	20.1	5.9	1045	18.7	5.5	1040				

### MAXIMUM CAPACITY

Indoor Coil Air Volume 75°F db (28°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-28°C)			
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input					
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
1605	755	66.6	19.5	5770	54.4	15.9	5325	42.3	12.4	4855	29.1	8.5	4335	14.2	4.2	3235					
1838	865	67.5	19.8	5510	55.3	16.2	5060	43.1	12.6	4595	29.9	8.8	4075	15.1	4.4	2975					
2030	960	68.4	20.0	5355	56.2	16.5	4905	44.1	12.9	4440	30.9	9.1	3915	16.0	4.7	2815					

Outdoor Temp.	°F	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10	-15	-20
	°C	18	16	13	10	8	7	4	2	-1	-4	-7	-8	-9	-12	-15	-18	-21	-23	-26	-29
Compressor Motor kW Input		5.51	5.41	5.3	5.2	5.13	5.06	4.89	4.72	4.66	4.6	4.54	4.5	4.46	4.35	4.08	3.8	3.53	3.25	2.98	2.7
Total Output	kBtuh	67.5	64.4	61.3	58.2	56.4	55.3	52.5	49.7	46.4	43.1	39.9	37.9	36.7	33.6	29.9	26.2	22.5	18.8	15.1	11.4
	kW	19.8	18.9	18.0	17.1	16.5	16.2	15.4	14.6	13.6	12.6	11.7	11.1	10.8	9.8	8.8	7.7	6.6	5.5	4.4	3.3

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	1111		1212		1380	
62°F Low	21456.339		1113.413		21490.625	
47°F Low	---		---		17268.653	
CFM	1605		1838		2030	
47°F	55534.082		5391.9		56382.546	
35°F	---		---		49670.237	
17°F	---		---		37916.407	



## ACCESSORIES

Description	Where Used	Kit Number	Purpose
TXV Kit	36	H4TXV01	TXVs provide superior refrigerant flow control, comfort and efficiency
	60	H4TXV03	
Crankcase heater	All models	Factory installed	Prevents liquid migration to compressor in cold weather
Sound Blanket	All models	Factory installed	Lowers compressor sound level
Short Cycle Protector	All models	Control Board Feature	Protects compressor from short cycling.
Liquid Line Solenoid	All models	60M52	Prevents liquid migration to the compressor especially for high liquid riser applications
Freezestat	3/8 tubing	93G35	Protects the compressor at low suction pressure conditions



"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

*Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.*

*Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.*