

# 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 19 SEER2 & 8.1 HSPF2*



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

**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

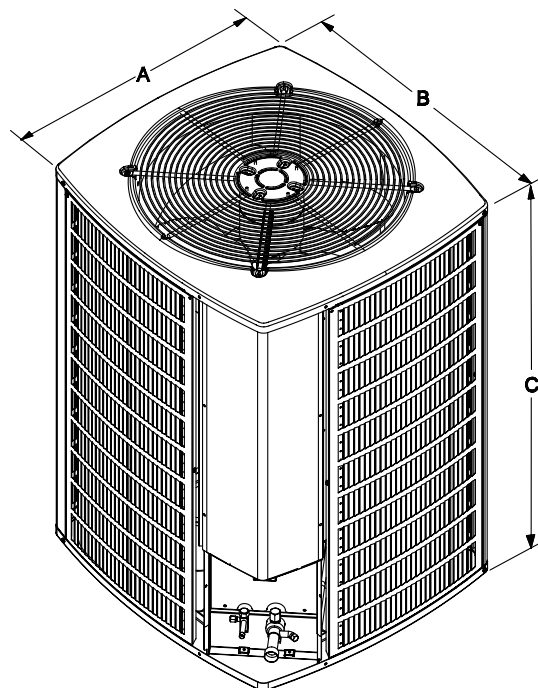
Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over Current Device (amps)	Compressor	Outdoor Fan Motor			Shipping Weight (lbs.)
					Input Amps	Full Load (amps)	Rated HP	Nom. RPM	
HRG1836S1P	208-230/60/1	197-253	21.9	35	15.3	2.8	1/3	VAR. SPD	215
HRG1860S1P	208-230/60/1	197-253	33.7	50	24.7	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.) *	TXV	Refrigerant Line Size		Outdoor Unit Connection		Indoor Unit Connection	
			Suction	Liquid	Suction	Liquid	Suction	Liquid
HRG1836S1P (2 TON MODE)	138	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
HRG1836S1P (3 TON MODE)	138	H4TXV02	3/4	3/8	3/4	3/8	3/4	3/8
HRG1860S1P (4 TON MODE)	186	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
HRG1860S1P (5 TON MODE)	186	H4TXV03	1-1/8	3/8	7/8	3/8	7/8	3/8

\* 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	
		SEER2	EER2	AHRI Rated Capacity <sup>2</sup>	Sensible Capacity	HSPF2	47°		17°				
							Btuh	COP	Btuh				COP
HRG1836S1P	HCG36V1P	19.0	11.7	34400	27200	8.1	35000	3.20	22200	2.17	1200	820	820
HRG1860S1P	HCG60V1P	16.0	10.0	55500	40600	7.8	57000	2.81	38500	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 Allied Air Enterprises furnace 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 (2 TON MODE) - HCG24V1P - 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 Air Volume		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	L/s	kBtu/h	kW	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C					
59°F (15°C)		670	315	22.4	6.6	1300	.92	1.00	1.00	21.4	6.3	1490	.94	1.00	1.00	20.4	6.0	1690	.97	1.00	1.00	19.2	5.6	1900	1.00	1.00	1.00	18.1	5.3	2120	1.00	1.00	1.00
		820	385	24.0	7.0	1290	.98	1.00	1.00	22.8	6.7	1490	1.00	1.00	1.00	21.6	6.3	1690	1.00	1.00	1.00	20.6	6.0	1910	1.00	1.00	1.00	19.3	5.7	2130	1.00	1.00	1.00
		1050	495	25.8	7.6	1280	1.00	1.00	1.00	24.4	7.2	1480	1.00	1.00	1.00	23.2	6.8	1690	1.00	1.00	1.00	22.0	6.4	1910	1.00	1.00	1.00	20.6	6.0	2150	1.00	1.00	1.00
63°F (17.2°C)		670	315	23.4	6.9	1300	.74	.88	1.00	22.0	6.4	1490	.76	.91	1.00	20.8	6.1	1690	.78	.94	1.00	19.4	5.7	1900	.81	.97	1.00	18.1	5.3	2120	.83	1.00	1.00
		820	385	24.4	7.2	1290	.79	.94	1.00	23.0	6.7	1480	.81	.97	1.00	21.6	6.3	1690	.84	1.00	1.00	20.4	6.0	1900	.86	1.00	1.00	19.3	5.7	2130	.90	1.00	1.00
		1050	495	25.8	7.6	1280	.85	1.00	1.00	24.6	7.2	1480	.88	1.00	1.00	23.2	6.8	1690	.92	1.00	1.00	22.0	6.4	1920	.95	1.00	1.00	20.6	6.0	2140	.99	1.00	1.00
67°F (19.4°C)		670	315	24.8	7.3	1290	.58	.71	.84	23.4	6.9	1480	.60	.73	.87	22.2	6.5	1690	.61	.76	.89	20.8	6.1	1900	.62	.78	.93	19.3	5.7	2130	.64	.81	.97
		820	385	25.8	7.6	1280	.62	.77	.91	24.4	7.2	1480	.63	.79	.94	23.0	6.7	1690	.64	.81	.97	21.6	6.3	1910	.66	.84	1.00	20.0	5.9	2140	.68	.87	1.00
		1050	495	27.0	7.9	1270	.65	.83	.99	25.6	7.5	1470	.67	.86	1.00	24.0	7.0	1690	.69	.89	1.00	22.4	6.6	1910	.71	.93	1.00	20.8	6.1	2140	.74	.97	1.00
71°F (21.7°C)		670	315	26.2	7.7	1270	.45	.57	.69	24.8	7.3	1480	.45	.58	.71	23.4	6.9	1690	.46	.59	.73	22.0	6.4	1910	.46	.61	.75	20.6	6.0	2140	.47	.62	.78
		820	385	27.4	8.0	1260	.46	.60	.74	25.8	7.6	1470	.46	.61	.76	24.4	7.2	1690	.47	.63	.78	22.8	6.7	1910	.48	.64	.81	21.4	6.3	2150	.48	.66	.84
		1050	495	28.4	8.3	1250	.48	.64	.81	27.0	7.9	1470	.48	.66	.83	25.4	7.4	1690	.49	.68	.87	23.8	7.0	1920	.50	.70	.90	22.2	6.5	2150	.51	.73	.94



# COOLING PERFORMANCE EXTENDED RATINGS HRG1836S1P (2 TON MODE) - HCG24V1P - 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)			Total Cooling Capacity			Sensible To Total Ratio (S/T)			Total Cooling Capacity			Sensible To Total Ratio (S/T)			Total Cooling Capacity			Sensible To Total Ratio (S/T)							
		cfm	L/s	kBtuh	kW	Comp. Motor Watts Input	Indoor Dry Bulb	Indoor Dry Bulb	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)	450	210	12.1	3.5	400	1.00	1.00	1.00	1.00	11.5	3.4	500	1.00	1.00	1.00	1.00	1.00	10.8	3.2	600	1.00	1.00	1.00	1.00	10.1	3.0	710	1.00	1.00	1.00
	600	285	13.1	3.8	390	1.00	1.00	1.00	1.00	12.5	3.7	490	1.00	1.00	1.00	1.00	1.00	11.7	3.4	590	1.00	1.00	1.00	1.00	10.9	3.2	700	1.00	1.00	1.00
	700	330	13.7	4.0	380	1.00	1.00	1.00	1.00	13.0	3.8	480	1.00	1.00	1.00	1.00	1.00	12.2	3.6	580	1.00	1.00	1.00	1.00	11.3	3.3	690	1.00	1.00	1.00
63°F (17.2°C)	450	210	12.1	3.5	400	.87	1.00	1.00	1.00	11.5	3.4	500	.90	1.00	1.00	1.00	1.00	10.8	3.2	600	.94	1.00	1.00	1.00	10.1	3.0	710	.99	1.00	1.00
	600	285	13.1	3.8	390	.99	1.00	1.00	1.00	12.5	3.7	490	1.00	1.00	1.00	1.00	1.00	11.7	3.4	590	1.00	1.00	1.00	1.00	10.9	3.2	700	1.00	1.00	1.00
	700	330	13.7	4.0	380	1.00	1.00	1.00	1.00	13.0	3.8	480	1.00	1.00	1.00	1.00	1.00	12.2	3.6	580	1.00	1.00	1.00	1.00	11.4	3.3	690	1.00	1.00	1.00
67°F (19.4°C)	450	210	12.6	3.7	400	.66	.85	1.00	1.00	11.9	3.5	490	.68	.88	1.00	1.00	1.00	11.1	3.3	600	.70	.91	1.00	1.00	10.2	3.0	710	.73	.96	1.00
	600	285	13.3	3.9	390	.73	.96	1.00	1.00	12.5	3.7	490	.76	1.00	1.00	1.00	1.00	11.7	3.4	590	.79	1.00	1.00	1.00	10.9	3.2	700	.83	1.00	1.00
	700	330	13.7	4.0	380	.78	1.00	1.00	1.00	13.0	3.8	480	.81	1.00	1.00	1.00	1.00	12.2	3.6	580	.84	1.00	1.00	1.00	11.3	3.3	690	.89	1.00	1.00
71°F (21.7°C)	450	210	13.5	4.0	380	.48	.65	.82	1.00	12.7	3.7	480	.48	.67	.85	1.00	1.00	11.9	3.5	580	.49	.69	.89	1.00	11.0	3.2	700	.50	.72	.93
	600	285	14.1	4.1	370	.51	.73	.93	1.00	13.3	3.9	470	.52	.75	.97	1.00	1.00	12.4	3.6	580	.53	.78	1.00	1.00	11.5	3.4	690	.55	.82	1.00
	700	330	14.4	4.2	360	.53	.77	1.00	1.00	13.6	4.0	470	.54	.80	1.00	1.00	1.00	12.7	3.7	580	.56	.84	1.00	1.00	11.7	3.4	690	.57	.88	1.00

# COOLING PERFORMANCE EXTENDED RATINGS HRG1836S1P (3 TON MODE) - 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 Air Volume	cfm	L/s	Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		Indoor Dry Bulb	85°F 26.7°C	85°F 29.4°C	Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		Indoor Dry Bulb	75°F 23.9°C	85°F 26.7°C	85°F 29.4°C	Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		Indoor Dry Bulb	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C																
			kBtu/h	kW		kBtu/h	kW				kBtu/h	kW		kBtu/h	kW					kBtu/h	kW		kBtu/h	kW					kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW	kBtu/h	kW		
59°F (15°C)	1050	495	33.2	9.7	2130	.93	1.00	.93	1.00	1.00	31.8	9.3	2400	.95	1.00	.95	1.00	1.00	1.00	1.00	28.6	8.4	2990	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	26.8	7.9	3330	1.00	1.00	1.00					
	1215	575	34.8	10.2	2130	.98	1.00	.98	1.00	1.00	33.2	9.7	2400	1.00	1.00	1.00	1.00	1.00	1.00	1.00	29.8	8.7	3010	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	28.0	8.2	3350	1.00	1.00	1.00						
	1385	655	36.2	10.6	2130	1.00	1.00	1.00	1.00	1.00	34.6	10.1	2410	1.00	1.00	1.00	1.00	1.00	1.00	1.00	31.0	9.1	3030	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	29.0	8.5	3370	1.00	1.00	1.00						
63°F (17.2°C)	1050	495	34.4	10.1	2130	.75	.89	.75	.89	1.00	32.6	9.6	2400	.77	.92	.77	.92	1.00	1.00	1.00	30.8	9.0	2690	.79	.95	.79	.95	1.00	1.00	1.00	1.00	1.00	28.8	8.4	3000	.82	.98	.82	26.8	7.9	3330	.85	1.00	1.00
	1215	575	35.6	10.4	2130	.79	.94	.79	.94	1.00	33.8	9.9	2410	.80	.97	.80	.97	1.00	1.00	1.00	31.8	9.3	2700	.83	1.00	.83	1.00	1.00	1.00	1.00	1.00	29.8	8.7	3010	.86	1.00	1.00	28.0	8.2	3350	.90	1.00	1.00	
	1385	655	36.4	10.7	2130	.82	.98	.82	.98	1.00	34.6	10.1	2410	.84	1.00	.87	1.00	1.00	1.00	1.00	32.8	9.6	2710	.87	1.00	.87	1.00	1.00	1.00	1.00	31.0	9.1	3030	.90	1.00	1.00	29.0	8.5	3370	.94	1.00	1.00		
67°F (19.4°C)	1050	495	36.4	10.7	2130	.59	.73	.59	.73	.86	34.6	10.1	2410	.61	.74	.61	.74	.88	1.00	1.00	32.8	9.6	2710	.61	.77	.61	.77	.91	1.00	1.00	1.00	30.6	9.0	3030	.63	.79	.63	28.4	8.3	3360	.65	.82	.65	
	1215	575	37.6	11.0	2130	.62	.76	.62	.76	.90	35.6	10.4	2420	.63	.78	.64	.78	.93	1.00	1.00	33.6	9.8	2720	.64	.80	.64	.80	.96	1.00	1.00	1.00	31.4	9.2	3040	.66	.84	.66	29.0	8.5	3370	.68	.87	.68	
	1385	655	38.5	11.3	2120	.63	.79	.63	.79	.95	36.4	10.7	2420	.65	.82	.66	.84	.98	1.00	1.00	34.4	10.1	2720	.66	.84	.66	.84	1.00	1.00	1.00	32.2	9.4	3040	.68	.88	.68	29.6	8.7	3390	.71	.92	.71		
71°F (21.7°C)	1050	495	38.5	11.3	2120	.45	.58	.45	.58	.70	36.6	10.7	2420	.46	.59	.46	.59	.72	1.00	1.00	34.6	10.1	2720	.46	.60	.46	.60	.74	1.00	1.00	1.00	32.4	9.5	3040	.47	.62	.47	30.0	8.8	3400	.47	.64	.47	
	1215	575	39.5	11.6	2130	.46	.60	.46	.60	.74	37.6	11.0	2410	.46	.61	.47	.63	.78	1.00	1.00	35.6	10.4	2730	.47	.63	.47	.63	.78	1.00	1.00	1.00	33.4	9.8	3060	.48	.64	.48	30.8	9.0	3400	.48	.66	.48	
	1385	655	40.5	11.9	2130	.47	.62	.47	.62	.77	38.5	11.3	2420	.47	.64	.48	.65	.82	1.00	1.00	36.2	10.6	2730	.48	.65	.48	.65	.82	1.00	1.00	1.00	34.0	10.0	3050	.49	.67	.49	31.6	9.3	3420	.50	.70	.50	

# COOLING PERFORMANCE EXTENDED RATINGS HRG1836S1P (3 TON MODE) - HCG36V1P - 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 Air Volume		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	L/s	kBtuh	kW	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											
59°F (15°C)		725	345	20.2	5.9	750	1.00	1.00	1.00	1.00	1.00	19.2	5.6	900	1.00	1.00	1.00	18.2	5.3	1050	1.00	1.00	1.00	17.1	5.0	1210	1.00	1.00	1.00	16.1	4.7	1380	1.00	1.00	1.00		
		830	390	21.0	6.2	740	1.00	1.00	1.00	1.00	1.00	20.0	5.9	890	1.00	1.00	1.00	18.9	5.5	1040	1.00	1.00	1.00	17.8	5.2	1210	1.00	1.00	1.00	16.7	4.9	1390	1.00	1.00	1.00		
		970	460	21.8	6.4	720	1.00	1.00	1.00	1.00	1.00	20.8	6.1	880	1.00	1.00	1.00	19.7	5.8	1040	1.00	1.00	1.00	18.5	5.4	1210	1.00	1.00	1.00	17.3	5.1	1380	1.00	1.00	1.00		
69°F (17.2°C)		725	345	20.2	5.9	740	.82	.98	1.00	.84	1.00	19.2	5.6	890	.84	1.00	1.00	18.2	5.3	1050	.87	1.00	1.00	17.1	5.0	1210	.91	1.00	1.00	16.1	4.7	1380	.94	1.00	1.00	1.00	
		830	390	21.0	6.2	730	.86	1.00	1.00	.88	1.00	20.0	5.9	880	.88	1.00	1.00	18.9	5.5	1040	.92	1.00	1.00	17.8	5.2	1210	.96	1.00	1.00	16.7	4.9	1380	1.00	1.00	1.00	1.00	
		970	460	22.0	6.4	720	.91	1.00	1.00	.94	1.00	20.8	6.1	880	.94	1.00	1.00	19.7	5.8	1040	.98	1.00	1.00	18.5	5.4	1200	1.00	1.00	1.00	17.3	5.1	1380	1.00	1.00	1.00	1.00	
67°F (19.4°C)		725	345	21.4	6.3	730	.63	.79	.95	.65	.81	.98	20.2	5.9	880	.65	.81	.98	19.0	5.6	1040	.66	.84	1.00	17.7	5.2	1210	.68	.88	1.00	16.4	4.8	1380	.70	.92	1.00	1.00
		830	390	22.0	6.4	720	.66	.83	1.00	.67	.86	1.00	20.8	6.1	880	.67	.86	1.00	19.5	5.7	1040	.69	.89	1.00	18.1	5.3	1210	.72	.93	1.00	16.8	4.9	1380	.74	.97	1.00	1.00
		970	460	22.6	6.6	710	.69	.88	1.00	.71	.92	1.00	21.4	6.3	870	.71	.92	1.00	20.0	5.9	1030	.73	.96	1.00	18.6	5.5	1200	.76	.99	1.00	17.4	5.1	1380	.79	1.00	1.00	1.00
71°F (21.7°C)		725	345	22.6	6.6	710	.47	.62	.77	.47	.63	.79	21.4	6.3	870	.47	.63	.79	20.2	5.9	1030	.48	.65	.82	18.8	5.5	1210	.48	.67	.85	17.5	5.1	1380	.50	.69	.89	.89
		830	390	23.2	6.8	700	.47	.65	.81	.49	.66	.84	22.0	6.4	860	.49	.66	.84	20.6	6.0	1030	.49	.68	.87	19.2	5.6	1200	.50	.71	.90	17.9	5.2	1380	.51	.74	.95	.95
		970	460	23.8	7.0	690	.49	.68	.86	.49	.68	.86	22.4	6.6	850	.49	.70	.89	21.0	6.2	1030	.51	.72	.93	19.7	5.8	1200	.52	.75	.97	18.3	5.4	1380	.53	.78	1.00	1.00



# COOLING PERFORMANCE EXTENDED RATINGS HRG1836S1P (3 TON MODE) - HCG36V1P - 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 Air Volume		Total Cooling Capacity		Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp. Motor/Watts Input		Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp. Motor/Watts Input		Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp. Motor/Watts Input		Sensible To Total Ratio (S/T)	
cfm	L/s	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Indoor Dry Bulb	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Indoor Dry Bulb	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Indoor Dry Bulb	kBtuh	kW	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	13.3	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
		830	390	14.5	4.2	360	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	680	1.00	1.00
		970	460	15.0	4.4	350	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	680	1.00	1.00
63°F (17.2°C)		725	345	14.0	4.1	370	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
		830	390	14.5	4.2	360	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	680	1.00	1.00
		970	460	14.9	4.4	350	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
67°F (19.4°C)		725	345	14.0	4.1	370	.78	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
		830	390	14.5	4.2	360	.82	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
		970	460	14.9	4.4	350	.89	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
71°F (21.7°C)		725	345	14.8	4.3	350	.53	.78	14.0	4.1	460	.55	.80	1.00	13.1	3.8	570	.56	.84	1.00	12.0	3.5	690	.58	1.00
		830	390	15.1	4.4	350	.55	.81	14.3	4.2	450	.59	.85	1.00	13.3	3.9	570	.57	.89	1.00	12.3	3.6	680	.61	1.00
		970	460	15.4	4.5	340	.56	.88	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

# COOLING PERFORMANCE EXTENDED RATINGS HRG1860S1P (4 TON MODE) - HCG48V1P - 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 Air Volume		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	L/s	kBtu/h	kW	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C						
59°F (15°C)		1455	685	44.5	13.0	2780	.95	1.00	1.00	42.5	12.5	3170	.97	1.00	1.00	41.0	12.0	3640	1.00	1.00	1.00	39.0	11.4	4220	1.00	1.00	1.00	37.2	10.9	4950	1.00	1.00	1.00
		1730	815	47.0	13.8	2790	1.00	1.00	1.00	45.0	13.2	3180	1.00	1.00	1.00	43.0	12.6	3660	1.00	1.00	1.00	41.0	12.0	4240	1.00	1.00	1.00	39.0	11.4	4960	1.00	1.00	1.00
		1820	860	47.5	13.9	2790	1.00	1.00	1.00	45.5	13.3	3190	1.00	1.00	1.00	43.5	12.7	3660	1.00	1.00	1.00	41.5	12.2	4250	1.00	1.00	1.00	39.5	11.6	4960	1.00	1.00	1.00
63°F (17.2°C)		1455	685	46.0	13.5	2780	.77	.91	1.00	43.5	12.7	3180	.78	.94	1.00	41.5	12.2	3650	.80	.96	1.00	39.5	11.6	4230	.82	.99	1.00	37.2	10.9	4950	.85	1.00	1.00
		1730	815	47.5	13.9	2790	.80	.97	1.00	45.0	13.2	3180	.83	.99	1.00	43.0	12.6	3660	.85	1.00	1.00	41.0	12.0	4250	.87	1.00	1.00	39.0	11.4	4960	.90	1.00	1.00
		1820	860	48.0	14.1	2790	.82	.98	1.00	45.5	13.3	3190	.84	1.00	1.00	43.5	12.7	3660	.86	1.00	1.00	41.5	12.2	4250	.89	1.00	1.00	39.5	11.6	4960	.92	1.00	1.00
67°F (19.4°C)		1455	685	48.0	14.1	2790	.60	.74	.88	46.0	13.5	3190	.61	.76	.90	43.5	12.7	3660	.63	.78	.93	41.5	12.2	4250	.64	.80	.96	39.0	11.4	4880	.65	.82	.99
		1730	815	50.0	14.7	2790	.63	.78	.93	47.5	13.9	3190	.64	.80	.96	45.0	13.2	3670	.65	.82	.99	42.5	12.5	4260	.67	.85	1.00	40.0	11.7	5000	.68	.88	1.00
		1820	860	50.5	14.8	2790	.64	.79	.95	48.0	14.1	3190	.65	.82	.98	45.5	13.3	3670	.66	.84	1.00	43.0	12.6	4270	.68	.87	1.00	40.5	11.9	5010	.69	.90	1.00
71°F (21.7°C)		1455	685	50.5	14.8	2790	.46	.59	.72	48.5	14.2	3190	.45	.59	.73	46.0	13.5	3680	.46	.61	.75	44.0	12.9	4280	.47	.62	.77	41.5	12.2	5020	.47	.64	.80
		1730	815	52.0	15.2	2790	.47	.61	.76	49.5	14.5	3200	.47	.63	.78	47.5	13.9	3680	.48	.64	.80	45.0	13.2	4280	.49	.65	.83	42.5	12.5	5040	.49	.68	.85
		1820	860	52.5	15.4	2800	.47	.62	.77	50.0	14.7	3200	.47	.64	.79	47.5	13.9	3690	.48	.65	.82	45.0	13.2	4290	.49	.66	.84	42.5	12.5	5030	.50	.69	.87

# COOLING PERFORMANCE EXTENDED RATINGS HRG1860S1P (4 TON MODE) - HCG48V1P - 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		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										
cfm	L/s	kBtu/h	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	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)		1040	490	31.8	9.3	1350	.96	1.00	1.00	30.6	9.0	1610	.98	1.00	1.00	29.4	8.6	1880	1.00	1.00	1.00	28.0	8.2	2180	1.00	1.00	1.00	26.6	7.8	2530	1.00	1.00	1.00	
		1200	565	33.4	9.8	1340	1.00	1.00	1.00	32.0	9.4	1600	1.00	1.00	1.00	30.6	9.0	1870	1.00	1.00	1.00	29.2	8.6	2170	1.00	1.00	1.00	27.6	8.1	2530	1.00	1.00	1.00	
		1285	605	33.8	9.9	1330	1.00	1.00	1.00	32.4	9.5	1600	1.00	1.00	1.00	31.2	9.1	1870	1.00	1.00	1.00	29.8	8.7	2170	1.00	1.00	1.00	28.2	8.3	2520	1.00	1.00	1.00	
69°F (17.2°C)		1040	490	32.6	9.6	1340	.78	.83	1.00	31.2	9.1	1610	.79	.85	1.00	29.6	8.7	1880	.81	.87	1.00	28.0	8.2	2180	.83	.88	1.00	26.6	7.8	2530	.86	.91	1.00	1.00
		1200	565	33.6	9.8	1340	.80	.87	1.00	32.2	9.4	1600	.83	1.00	1.00	30.6	9.0	1870	.85	1.00	1.00	29.2	8.6	2170	.87	1.00	1.00	27.6	8.1	2530	.91	1.00	1.00	1.00
		1285	605	34.0	10.0	1330	.83	1.00	1.00	32.6	9.6	1600	.84	1.00	1.00	31.2	9.1	1870	.87	1.00	1.00	29.8	8.7	2170	.90	1.00	1.00	28.0	8.2	2520	.93	1.00	1.00	1.00
67°F (19.4°C)		1040	490	34.2	10.0	1330	.61	.75	.89	32.8	9.6	1600	.62	.77	.91	31.2	9.1	1870	.63	.78	.94	29.6	8.7	2170	.64	.81	.97	27.8	8.1	2520	.66	.83	1.00	1.00
		1200	565	35.2	10.3	1320	.63	.78	.94	33.8	9.9	1590	.63	.80	.97	32.0	9.4	1860	.64	.82	.99	30.4	8.9	2160	.67	.85	1.00	28.4	8.3	2520	.69	.89	1.00	1.00
		1285	605	35.6	10.4	1320	.63	.80	.96	34.0	10.0	1580	.65	.82	.99	32.4	9.5	1860	.66	.84	1.00	30.8	9.0	2160	.68	.87	1.00	28.8	8.4	2510	.70	.91	1.00	1.00
71°F (21.7°C)		1040	490	35.6	10.4	1320	.46	.59	.73	34.2	10.0	1580	.46	.61	.74	32.6	9.6	1850	.47	.62	.76	31.0	9.1	2160	.47	.63	.78	29.2	8.6	2510	.47	.65	.81	1.00
		1200	565	36.6	10.7	1310	.46	.62	.76	35.2	10.3	1570	.47	.62	.77	33.4	9.8	1850	.48	.64	.80	31.8	9.3	2150	.47	.66	.83	29.8	8.7	2500	.49	.68	.86	1.00
		1285	605	37.0	10.8	1310	.47	.62	.77	35.4	10.4	1570	.47	.64	.80	33.8	9.9	1840	.48	.64	.82	32.0	9.4	2140	.49	.67	.85	30.2	8.9	2500	.50	.69	.88	1.00



# COOLING PERFORMANCE EXTENDED RATINGS HRG1860S1P (5 TON MODE) - HCG60V1P - 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 Air Volume		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										
cfm	L/s	kBtu/h	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	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	755	53.5	15.7	3760	.90	1.00	1.00	.92	1.00	1.00	4240	.92	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	1.00	
		1840	865	56.0	16.4	3780	.94	1.00	1.00	.96	1.00	1.00	4260	.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	1.00	
		2030	960	57.5	16.9	3800	.97	1.00	1.00	1.00	.99	1.00	1.00	4280	.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	1.00
63°F (17.2°C)		1605	755	56.0	16.4	3780	.73	.87	.99	.75	.89	1.00	4260	.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	865	57.5	16.9	3800	.76	.90	1.00	4270	.78	.93	1.00	4850	.80	.96	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	960	59.0	17.3	3800	.78	.94	1.00	4280	.80	.96	1.00	4860	.82	.99	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	755	59.0	17.3	3800	.59	.71	.83	.59	.73	.85	4290	.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	865	60.5	17.7	3820	.61	.74	.87	4300	.61	.75	.89	4890	.62	.77	.92	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	960	62.0	18.2	3830	.61	.76	.90	4310	.62	.78	.92	4900	.64	.80	.95	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	755	62.5	18.3	3830	.45	.57	.68	4320	.45	.58	.70	4910	.45	.59	.72	53.5	15.7	4910	.45	.59	.72	53.5	15.7	5630	.46	.60	.74	50.0	14.7	6500	.47	.62	.76	1.00
		1840	865	64.5	18.9	3840	.46	.59	.71	4330	.46	.60	.73	4930	.46	.61	.75	55.0	16.1	4930	.46	.61	.75	55.0	16.1	5660	.47	.62	.77	51.0	14.9	6530	.48	.64	.80	1.00
		2030	960	65.5	19.2	3840	.46	.60	.73	4340	.46	.61	.75	4940	.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 (5 TON MODE) - 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		Sensible To Total Ratio (S/T) Indoor Dry Bulb		Comp. Motor Watts Input		Total Cooling Capacity		Sensible To Total Ratio (S/T) Indoor Dry Bulb		Comp. Motor Watts Input		Total Cooling Capacity		Sensible To Total Ratio (S/T) Indoor Dry Bulb		Comp. Motor Watts Input		Total Cooling Capacity		Sensible To Total Ratio (S/T) Indoor Dry Bulb		Comp. Motor Watts Input								
																										kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh
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	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C										
59°F (15°C)	1110	525	34.6	10.1	1570	.95	1.00	1.00	33.4	9.8	1840	.98	1.00	1.00	32.0	9.4	2130	1.00	1.00	1.00	30.8	9.0	2450	1.00	1.00	1.00	29.4	8.6	2850	1.00	1.00	1.00
	1210	570	35.6	10.4	1570	.98	1.00	1.00	34.2	10.0	1840	1.00	1.00	1.00	32.8	9.6	2120	1.00	1.00	1.00	31.6	9.3	2450	1.00	1.00	1.00	30.2	8.9	2840	1.00	1.00	1.00
	1380	650	37.0	10.8	1560	1.00	1.00	1.00	35.6	10.4	1830	1.00	1.00	1.00	34.2	10.0	2120	1.00	1.00	1.00	32.8	9.6	2440	1.00	1.00	1.00	31.2	9.1	2830	1.00	1.00	1.00
63°F (17.2°C)	1110	525	35.6	10.4	1570	.77	.92	1.00	34.0	10.0	1840	.79	.94	1.00	32.4	9.5	2130	.81	.97	1.00	31.0	9.1	2460	.83	.99	1.00	29.4	8.6	2840	.85	1.00	1.00
	1210	570	36.2	10.6	1560	.79	.95	1.00	34.6	10.1	1840	.81	.97	1.00	33.0	9.7	2120	.83	1.00	1.00	31.6	9.3	2450	.85	1.00	1.00	30.2	8.9	2840	.87	1.00	1.00
	1380	650	37.2	10.9	1560	.83	.99	1.00	35.6	10.4	1830	.85	1.00	1.00	34.2	10.0	2120	.87	1.00	1.00	32.8	9.6	2450	.89	1.00	1.00	31.4	9.2	2840	.92	1.00	1.00
67°F (19.4°C)	1110	525	37.4	11.0	1550	.60	.75	.88	35.8	10.5	1820	.62	.76	.91	34.2	10.0	2120	.63	.78	.83	32.6	9.6	2450	.64	.80	.96	31.0	9.1	2840	.65	.82	.99
	1210	570	38.0	11.1	1550	.62	.77	.91	36.4	10.7	1820	.63	.79	.94	34.8	10.2	2110	.64	.81	.87	33.2	9.7	2440	.65	.83	.99	31.6	9.3	2840	.67	.85	1.00
	1380	650	39.0	11.4	1540	.64	.80	.96	37.2	10.9	1810	.65	.82	.99	35.6	10.4	2110	.66	.84	1.00	34.0	10.0	2440	.68	.87	1.00	32.2	9.4	2830	.69	.89	1.00
71°F (21.7°C)	1110	525	39.5	11.6	1530	.45	.58	.72	37.6	11.0	1810	.45	.60	.74	36.0	10.6	2100	.46	.61	.76	34.4	10.1	2430	.47	.63	.78	32.8	9.6	2830	.47	.64	.80
	1210	570	40.0	11.7	1530	.45	.61	.75	38.0	11.1	1800	.47	.62	.76	36.6	10.7	2100	.47	.63	.78	35.0	10.3	2430	.48	.64	.80	33.4	9.8	2820	.48	.66	.83
	1380	650	41.0	12.0	1520	.47	.63	.78	39.0	11.4	1790	.48	.64	.80	37.4	11.0	2090	.48	.66	.82	35.6	10.4	2420	.48	.67	.84	34.0	10.0	2810	.49	.69	.87

## COOLING PERFORMANCE EXTENDED RATINGS HRG1860S1P (5 TON MODE) - HCG60V1P - 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 Air Volume		Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp. Motor Watts Input		Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp. Motor Watts Input		Sensible To Total Ratio (S/T)		Total Cooling Capacity		Comp. Motor Watts Input				
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW			
59°F (15°C)	1110	525	24.6	7.2	880	1.00	1.00	23.4	6.9	1110	1.00	1.00	22.2	6.5	1340	1.00	1.00	21.0	6.2	1560	1.00	1.00	1.00	
	1210	570	25.2	7.4	890	1.00	1.00	24.0	7.0	1120	1.00	1.00	22.8	6.7	1350	1.00	1.00	21.6	6.3	1570	1.00	1.00	1.00	
	1380	650	26.0	7.6	890	1.00	1.00	24.6	7.2	1130	1.00	1.00	23.4	6.9	1360	1.00	1.00	22.2	6.5	1580	1.00	1.00	1.00	
63°F (17.2°C)	1110	525	24.6	7.2	880	.94	1.00	23.4	6.9	1110	.97	1.00	22.2	6.5	1340	1.00	1.00	21.0	6.2	1560	1.00	1.00	1.00	
	1210	570	25.2	7.4	890	.98	1.00	24.0	7.0	1120	1.00	1.00	22.8	6.7	1350	1.00	1.00	21.6	6.3	1570	1.00	1.00	1.00	
	1380	650	26.0	7.6	890	1.00	1.00	24.8	7.3	1130	1.00	1.00	23.4	6.9	1360	1.00	1.00	22.2	6.5	1580	1.00	1.00	1.00	
67°F (19.4°C)	1110	525	25.2	7.4	890	.70	.92	23.8	7.0	1110	.73	.95	22.4	6.6	1340	.75	.98	21.2	6.2	1560	.78	1.00	1.00	1.00
	1210	570	25.4	7.4	890	.73	.96	24.0	7.0	1120	.75	.99	22.8	6.7	1350	.78	1.00	21.6	6.3	1570	.81	1.00	1.00	1.00
	1380	650	26.0	7.6	890	.77	1.00	24.8	7.3	1130	.79	1.00	23.4	6.9	1360	.82	1.00	22.2	6.5	1580	.85	1.00	1.00	1.00
71°F (21.7°C)	1110	525	26.6	7.8	900	.50	.70	25.2	7.4	1130	.51	.72	23.6	6.9	1360	.51	.74	22.2	6.5	1590	.52	.77	1.00	1.00
	1210	570	27.0	7.9	900	.51	.72	25.4	7.4	1140	.51	.74	24.0	7.0	1370	.53	.77	22.4	6.6	1590	.54	.80	1.00	1.00
	1380	650	27.4	8.0	910	.52	.76	25.8	7.6	1140	.53	.79	24.4	7.2	1380	.55	.81	22.8	6.7	1600	.56	.85	1.00	1.00

# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P (2 TON MODE) - HCG24V1P - 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	
CFM	L/s	kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input	
450	210	11.7	3.4	510		10.9	3.2	525		10.1	3.0	535	
600	285	11.9	3.5	460		11.2	3.3	470		10.4	3.0	485	
700	330	12.3	3.6	435		11.5	3.4	450		10.8	3.2	460	

### 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	
CFM	L/s	kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input	
670	315	31.1	9.1	2375		24.9	7.3	2145		18.7	5.5	1880		11.9	3.5	1770	
820	385	31.7	9.3	2245		25.5	7.5	2015		19.3	5.7	1750		12.5	3.7	1640	
1050	495	33.0	9.7	2125		26.7	7.8	1895		20.6	6.0	1630		13.7	4.0	1520	

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		2.25	2.2	2.16	2.11	2.09	2.02	1.85	1.68	1.72	1.75	1.79	1.82	1.8	1.75	1.64	1.53	1.42	1.31	1.2	1.09
Total Output	kBtuh	31.7	30.1	28.5	26.9	25.9	25.5	24.3	23.2	21.2	19.3	17.4	16.3	15.6	14	12.5	11	9.5	7.9	6.4	4.9
	kW	9.3	8.8	8.4	7.9	7.6	7.5	7.1	6.8	6.2	5.7	5.1	4.8	4.6	4.1	3.7	3.2	2.8	2.3	1.9	1.4

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	450		600		700	
62°F Low	11195.692		518.136		11459.247	
47°F Low	---		---		9177.474	
CFM	670		820		1050	
47°F	25316.816		2212.971		25946.339	
35°F	---		---		23157.667	
17°F	---		---		16283.057	





# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P (2 TON MODE) - HCG24V1P - 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	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input	
450	210	11.4	3.3	555		10.7	3.1	565		10.0	2.9	580		9.2	2.7	590	
600	285	11.7	3.4	505		10.9	3.2	515		10.2	3.0	525		9.4	2.8	540	
700	330	12.1	3.5	480		11.3	3.3	490		10.6	3.1	505		9.8	2.9	515	

### 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	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input		kBtuh	kW	Watts Input	
670	315	30.5	8.9	2485		24.4	7.2	2240		18.4	5.4	1960		11.7	3.4	1835		5.7	1.7	1375	
820	385	31.1	9.1	2360		25.0	7.3	2115		19.0	5.6	1835		12.3	3.6	1710		6.3	1.8	1250	
1050	495	32.4	9.5	2240		26.2	7.7	1990		20.2	5.9	1710		13.5	4.0	1590		7.5	2.2	1130	

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		2.36	2.31	2.27	2.22	2.19	2.12	1.94	1.76	1.8	1.84	1.87	1.9	1.88	1.83	1.71	1.6	1.48	1.37	1.25	1.14
Total Output	kBtuh	31.1	29.6	28	26.4	25.5	25	23.9	22.8	20.9	19	17.1	16	15.4	13.8	12.3	10.8	9.3	7.8	6.3	4.8
	kW	9.1	8.7	8.2	7.7	7.5	7.3	7.0	6.7	6.1	5.6	5.0	4.7	4.5	4.0	3.6	3.2	2.7	2.3	1.8	1.4

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	450		600		700	
62°F Low	10996.117		561.174		11206.555	
47°F Low	---		---		8986.674	
CFM	670		820		1050	
47°F	24866.759		2310.575		25466.795	
35°F	---		---		22762.965	
17°F	---		---		15999.268	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P (2 TON MODE) - HCG24V1P - 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	
450	210	11.2	3.3	600	10.4	3.0	610	9.7	2.8	620	9.0	2.6	630
600	285	11.4	3.3	550	10.7	3.1	560	10.0	2.9	570	9.2	2.7	580
700	330	11.8	3.5	525	11.1	3.3	535	10.4	3.0	545	9.6	2.8	560

### 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			
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
670	315	30.0	8.8	2600	24.0	7.0	2340	18.1	5.3	2050	11.5	3.4	1915	5.6	1.6	1435
820	385	30.6	9.0	2465	24.6	7.2	2210	18.7	5.5	1915	12.1	3.5	1785	6.2	1.8	1305
1050	495	31.8	9.3	2350	25.7	7.5	2090	19.9	5.8	1800	13.3	3.9	1665	7.4	2.2	1185

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		2.47	2.42	2.37	2.32	2.28	2.21	2.03	1.85	1.88	1.92	1.96	1.98	1.96	1.91	1.79	1.67	1.55	1.43	1.31	1.19
Total Output	kBtuh	30.6	29	27.5	25.9	25	24.6	23.5	22.4	20.5	18.7	16.8	15.7	15.1	13.6	12.1	10.6	9.1	7.7	6.2	4.7
	kW	9.0	8.5	8.1	7.6	7.3	7.2	6.9	6.6	6.0	5.5	4.9	4.6	4.4	4.0	3.5	3.1	2.7	2.3	1.8	1.4

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	450		600		700	
62°F Low	10728.34	607.19	10985.494	555.164	11399.664	532.507
47°F Low	---	---	8781.391	586.687	---	---
CFM	670		820		1050	
47°F	24402.674	2414.534	25006.736	2282.315	26185.427	2163.604
35°F	---	---	22382.359	1842.622	---	---
17°F	---	---	15729.358	1975.769	---	---



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P (3 TON MODE) - 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 (3 TON MODE) - 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	Total Heating Capacity		Comp. Motor Watts Input
CFM	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
726	345	12.2	3.6	390	11.5	3.4	400	10.7	3.1	415	9.9	2.9	430
831	390	12.2	3.6	370	11.5	3.4	385	10.7	3.1	395	9.9	2.9	410
970	460	12.6	3.7	355	11.8	3.5	370	11.0	3.2	385	10.3	3.0	400

### 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	
1050	495	40.9	12.0	2890	32.6	9.6	2535	24.3	7.1	2150	16.2	4.7	1930	7.9	2.3	1450
1216	575	41.6	12.2	2805	33.3	9.8	2450	25.0	7.3	2065	16.9	5.0	1850	8.6	2.5	1365
1385	655	42.5	12.5	2735	34.2	10.0	2380	25.9	7.6	1995	17.8	5.2	1780	9.5	2.8	1295

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		Cap		Watts	
	Low		Med		High			
CFM	726		831		970			
62°F Low	11769.418	396.542	11779.34	378.49	12102.143	365.146		
47°F Low	---	---	9484.096	418.941	---	---		
CFM	1050		1216		1385			
47°F	33478.862	2614.818	34171.371	2532.352	35067.672	2461.175		
35°F	---	---	28870.357	2053.099	---	---		
17°F	---	---	21834.423	2077.029	---	---		



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1836S1P (3 TON MODE) - 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		
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		Cap		Watts		Cap		Watts	
	Low		Med		High		High		High		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		---		---	
CFM	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 (4 TON MODE) - HCG48V1P - 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				
1040	490	22.6	6.6	1105				1115				1130				1140			
1200	565	22.8	6.7	1045				1060				1070				1080			
1285	605	23.2	6.8	1025				1035				1045				1055			

### 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				
1455	685	55.5	16.3	4585				4070				3465				3355				2525			
1730	815	56.3	16.5	4325				3815				3210				3095				2265			
1820	860	56.6	16.6	4260				3750				3145				3030				2200			

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		4.33	4.23	4.14	4.05	3.99	3.82	3.37	2.93	3.07	3.21	3.35	3.44	3.4	3.3	3.1	2.89	2.68	2.48	2.27	2.06
Total Output	kBtuh	56.3	53.7	51.1	48.5	46.9	45.4	41.6	37.8	36	34.2	32.4	31.3	30.2	27.6	24.6	21.5	18.5	15.5	12.4	9.4
	kW	16.5	15.7	15.0	14.2	13.7	13.3	12.2	11.1	10.6	10.0	9.5	9.2	8.9	8.1	7.2	6.3	5.4	4.5	3.6	2.8

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	1040		1200		1285	
62°F Low	21890.931		1112.754		22090.698	
47°F Low	---		---		18648.76	
CFM	1455		1730		1820	
47°F	46059.362		4248.252		46936.672	
35°F	---		---		37811.413	
17°F	---		---		31257.918	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1860S1P (4 TON MODE) - HRG48V1P - 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					
726	345	12.2	3.6	390	11.5	3.4	400	10.7	3.1	415	9.9	2.9	430				
831	390	12.2	3.6	370	11.5	3.4	385	10.7	3.1	395	9.9	2.9	410				
970	460	12.6	3.7	355	11.8	3.5	370	11.0	3.2	385	10.3	3.0	400				

### 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			
1050	495	40.9	12.0	2890	32.6	9.6	2535	24.3	7.1	2150	16.2	4.7	1930	7.9	2.3	1450					
1216	575	41.6	12.2	2805	33.3	9.8	2450	25.0	7.3	2065	16.9	5.0	1850	8.6	2.5	1365					
1385	655	42.5	12.5	2735	34.2	10.0	2380	25.9	7.6	1995	17.8	5.2	1780	9.5	2.8	1295					

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	---		---		21834.423	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1860S1P (4 TON MODE) - HCG48V1P - 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				
1040	490	22.0	6.4	1215				1225				1235				1245			
1200	565	22.3	6.5	1155				1165				1175				1185			
1285	605	22.7	6.7	1135				1145				1155				1165			

### 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				
1455	685	55.3	16.2	4925				4350				3675				3550				2675			
1730	815	56.1	16.4	4655				4085				3410				3280				2410			
1820	860	56.3	16.5	4585				4010				3340				3210				2335			

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		4.66	4.55	4.45	4.34	4.28	4.09	3.6	3.11	3.26	3.41	3.56	3.65	3.61	3.5	3.28	3.07	2.85	2.63	2.41	2.19
Total Output	kBtuh	56.1	53.5	50.9	48.3	46.7	45.1	41.1	37.1	35.4	33.7	32	31	30	27.4	24.4	21.4	18.3	15.3	12.3	9.3
	kW	16.4	15.7	14.9	14.2	13.7	13.2	12.0	10.9	10.4	9.9	9.4	9.1	8.8	8.0	7.2	6.3	5.4	4.5	3.6	2.7

	Inputs					
	Cap		Watts		Watts	
	Low		Med		High	
CFM	1040		1200		1285	
62°F Low	21380.757		1219.873		21621.844	
47°F Low	---		---		18373.432	
CFM	1455		1730		1820	
47°F	45872.505		4545.148		46718.85	
35°F	---		---		37140.175	
17°F	---		---		31031.31	





# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1860S1P (5 TON MODE) - 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		Cap		Watts					
	Low		Med		High							
CFM	1111		1212		1380							
62°F Low	22311.862		905.201		22347.104		876.628		22939.802		832.927	
47°F Low	---		---		17998.422		892.314		---		---	
CFM	1605		1838		2030							
47°F	56580.116		4760.251		57488.084		4548.615		58459.635		4413.146	
35°F	---		---		50803.357		4222.259		---		---	
17°F	---		---		38522.453		4021.194		---		---	



# HEATING PERFORMANCE EXTENDED RATINGS

## HRG1860S1P (5 TON MODE) - 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

## HRG1860V1P (5 TON MODE) - 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.*