

# 4SHP16LE

## PRODUCT SPECIFICATIONS

HIGH EFFICIENCY  
SPLIT HEAT PUMP SYSTEM  
UP TO 16 SEER & 9.5 HSPF

FORM NO. 4SHP16LE-100 (06/2022)



### COMPRESSOR

- High-efficiency scroll compressor
- 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 panel with 2 screws to remove for ease of coil cleaning and service
- Corner-mounted controls for easy service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- 45-degree offset gauge ports for easy service
- Removable service panel for internal access

### COILS

- Omniguard™ total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Factory tested for leak-proof construction
- Raised coil prevents debris from impeding airflow

### DESIGN

- Designed to perform in temperatures up to 125°F
- Designed to perform in temperatures down to 0°F

### COMPONENTS

- Factory installed crankcase heater
- Factory installed high and low pressure switches
- Thread-on pressure switches for simple, quick service
- Filter drier shipped loose for installation flexibility
- Fan orifice for smoother airflow and sound level reduction
- Charged for 15 feet of line set
- Discharge muffler for quiet operation
- Quiet Shift™ capable to reduce noise during defrost
- Sealed Contactor with lugs

### WARRANTY

- 10 year limited warranty on compressor
- 5 year limited warranty on all parts, extended warranty available

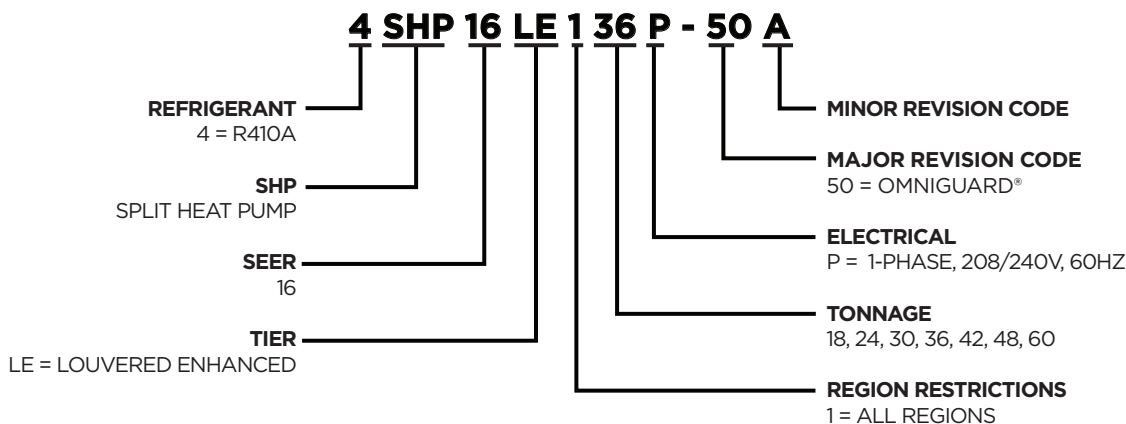
*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions, and exclusions.*

### **NOTE:**

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



**MODEL NUMBER GUIDE**



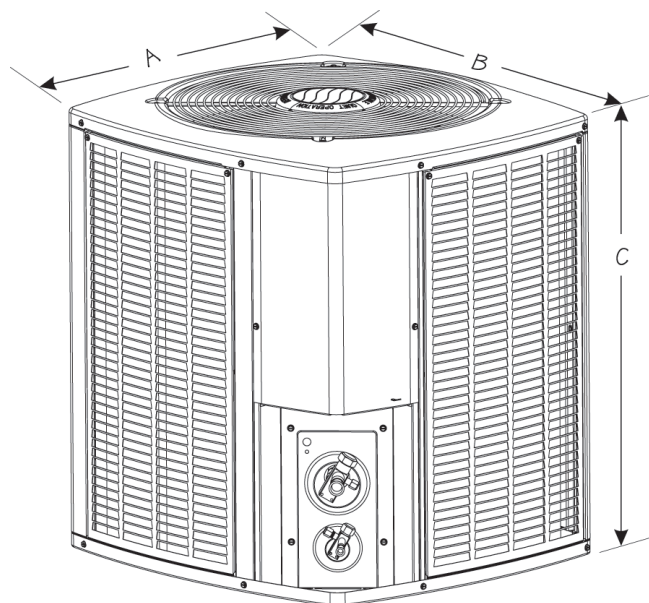
**PHYSICAL AND ELECTRICAL DATA**

Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over Current Device (amps)	Compressor		Outdoor Fan Motor		
					Rated Load (amps)	Locked Rotor (amps)	Full Load (amps)	Rated HP	Nom. RPM
4SHP16LE118P-50	208-230/60/1	197-253	10.6	20	7.7	48	1.0	1/6	825
4SHP16LE124P-50	208-230/60/1	197-253	13.6	20	10.1	52	1.0	1/6	825
4SHP16LE130P-50	208-230/60/1	197-253	16.4	25	12.3	63	1.0	1/6	825
4SHP16LE136P-50	208-230/60/1	197-253	20.9	35	14.7	75	2.6	1/3	820
4SHP16LE142P-50	208-230/60/1	197-253	25	40	17.9	112.3	2.6	1/3	820
4SHP16LE148P-50	208-230/60/1	197-253	25.8	40	18.5	124	2.6	1/3	820
4SHP16LE160P-50	208-230/60/1	197-253	30.4	50	22.2	127.9	2.6	1/3	820

**UNIT DIMENSIONS (IN.)**

Model	Dimensions (inch)			Shipping Weight (lbs.)
	A - Width	B - Depth	C - Height	
4SHP16LE118P-50	29.25	31.25	43.75	200
4SHP16LE124P-50	29.25	31.25	33.75	210
4SHP16LE130P-50	29.25	31.25	33.75	209
4SHP16LE136P-50	35.75	37.75	33.75	247
4SHP16LE142P-50	35.75	37.75	43.75	301
4SHP16LE148P-50	35.75	37.75	43.75	305
4SHP16LE160P-50	35.75	37.75	43.75	309

Note:  
Dimensions listed are unit sizes w/o packaging  
Weights listed are unit weights with packaging



## UNIT SOUND RATINGS

Model	Sound Power <sup>1</sup>	Estimated Sound Pressure (dBA) <sup>2</sup>		
		Approximate Distance <sup>3</sup>		
		3.3 Feet (1 Meter)	6.6 Feet (2 Meters)	9.8 Feet (3 Meters)
4SHP16LE118P-50	75	67	61	57
4SHP16LE124P-50	76	68	62	58
4SHP16LE130P-50	76	68	62	58
4SHP16LE136P-50	76	68	62	58
4SHP16LE142P-50	74	66	60	56
4SHP16LE148P-50	74	66	60	56
4SHP16LE160P-50	76	68	62	58

<sup>1</sup> Rated in accordance with AHRI standard 270 (2015)

<sup>2</sup> Rated in accordance with AHRI standard 275 (2010)

<sup>3</sup> 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	Refrig. Charge (Oz.) <sup>*</sup>	TXV	Refrigerant Line Size		Outdoor Unit Connection		Indoor Unit Connection	
			Suction	Liquid	Suction	Liquid	Suction	Liquid
4SHP16LE118P-50	114	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SHP16LE124P-50	126	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SHP16LE130P-50	132	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SHP16LE136P-50	135	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SHP16LE142P-50	180	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SHP16LE148P-50	188	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SHP16LE160P-50	182	H4TXV03	1-1/8	3/8	1-1/8	3/8	1-1/8	3/8

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

<sup>\*\*</sup> Reducer fitting supplied with OD unit

## COOLING PERFORMANCE WITH AIR HANDLERS AND FURNACES

Outdoor Model	Indoor Model	Cooling				Heating				
		SEER	EER	AHRI Rated Capacity <sup>1</sup>	Sensible Capacity	HSPF	47°		17°	
							Btuh	COP	Btuh	COP
4SHP16LE118P-50	BCE7E18M	16	13	18,000	15,300	9.5	17,200	3.9	10,800	2.59
4SHP16LE124P-50	BCE7E24M	16	13	24,000	18,400	9.5	22,000	3.79	14,000	2.58
4SHP16LE130P-50	BCE7E30M	16	13	29,800	23,000	9.5	27,400	3.81	17,600	2.64
4SHP16LE136P-50	BCE7E36M	16	13	35,400	27,200	9.5	34,000	3.79	22,400	2.75
4SHP16LE142P-50	BCE7E42M	16	13	41,000	30,500	9.5	38,000	3.75	24,500	2.66
4SHP16LE148P-50	BCE7E48M	16	13	46,000	34,500	9.5	43,000	3.68	28,500	2.73
4SHP16LE160P-50	BCE7E60M	15	12.5	56,000	39,000	9.5	53,000	3.6	35,000	2.66

Note:

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (not applicable) is in the piston column then TXV is required.

<sup>3</sup> Blower time delay relay is standard on all Allied Air Enterprises furnace and AH products.

### NOTE:

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**ACCESSORIES**

System Accessory	Where Used	Kit Number	Purpose
Liquid Line solenoid	All models	60M52	Prevents liquid migration to the compressor especially for high liquid riser applications
Low ambient HP units (cooling operation)	All models	54M89	Enables cooling demand down to 30 °F. Will require freeze stat, CC heater and TXV
Mild ambient (heating operation)	All models	11B97	Enables heating demand above 60 °F ambient
Cold weather	All models	1.921145	To allow unit to operate at very low ambient conditions (older models). Board integrated feature on new models
Fossil Fuel Kit (Heat Pump Only)	All models	1.841185 (AFOSL500)	Required for furnace with heat pump installations
Hard Start	24 & 36	10J42	Scroll compressors usually do not require hard start; maybe needed for utility brown-out or low voltage areas
	48 & 60	81J69	
Crankcase Heater	18, 24, 30	93M04	Prevents liquid migration to compressor in cold weather
	36, 42, 48, 60	Factory Installed	
Sound Cover	Factory Installed		Lowers compressor sound level
Loss of Charge Kit	Factory Installed		Protects the compressor if refrigerant charge is too low
Additional System Accessories (indoor section)			
TXV Kit	18, 24, 30	H4TXV01	TXVs provide superior refrigerant flow control, comfort and efficiency compared to pistons
	36, 42, 48	H4TXV02	
	60	H4TXV03	
Outdoor Thermostat - electric heat	All models	10Z23 (56A87)	Prevents electric heat operation above specific ambient conditions
Outdoor Thermostat - Mounting box	All models	31461	Mounting box for outdoor thermostat
Freeze stat	All models	93G35	Protects the compressor at low suction pressure conditions
Over flow switch	All models	11U75	Turn the system off, if condensate water overflows due to clogged drain pipes
Single point power supply	All models	21H39	Provide single power source in one junction box
Auxiliary blower relay	All models	85W66	Maybe required to select multiple indoor blower speeds

**COOLING PERFORMANCE EXTENDED RATINGS**

Note: Shaded area is AHRI Rating Conditions

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	Total Cooling Capacity kBTuh	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input	Total Cooling Capacity kBTuh	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input	Total Cooling Capacity kBTuh	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input	Total Cooling Capacity kBTuh	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input	Total Cooling Capacity kBTuh	Sensible To Total Ratio (S/T)		Comp. Motor Watts Input	
			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
<b>4SHP16LE118P-50 - BCE7E18</b>																						
570	18.5	1060	.94	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
59°F (15°C)	675	19.5	1050	.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	735	20.0	1050	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
63°F (17.2°C)	570	19.0	1050	.76	.90	1.00	.82	.98	1.00	.84	1.00	.87	1.00	.88	1.00	.86	1.00	.86	1.00	.86	1.00	1.00
	675	19.8	1050	.80	.96	1.00	.82	.98	1.00	.84	1.00	.87	1.00	.88	1.00	.86	1.00	.86	1.00	.86	1.00	1.00
	735	20.2	1050	.82	.99	1.00	.84	1.00	1.00	.87	1.00	.90	1.00	.91	1.00	.89	1.00	.89	1.00	.89	1.00	1.00
67°F (19.4°C)	570	20.2	1050	.60	.74	.87	.61	.75	.89	.62	.77	.92	.98	.63	.80	.65	.82	.65	.82	.65	.82	.99
	675	21.0	1040	.62	.78	.93	.63	.79	.95	.64	.81	.98	.98	.64	.81	.67	.85	.67	.85	.67	.85	1.00
	735	21.2	1040	.63	.80	.96	.64	.82	.98	.66	.85	1.00	1.00	.66	.85	.68	.88	.68	.88	.68	.88	1.00
71°F (21.7°C)	570	21.4	1040	.45	.58	.71	.45	.59	.73	.46	.60	.74	.74	.46	.60	.46	.62	.46	.62	.46	.62	.80
	675	22.0	1040	.46	.61	.75	.47	.62	.77	.47	.63	.79	.79	.47	.63	.48	.65	.48	.65	.48	.65	.85
	735	22.4	1040	.47	.62	.77	.47	.63	.79	.48	.65	.82	.82	.48	.65	.48	.67	.48	.67	.48	.67	.85
<b>4SHP16LE124P-50 - BCE7E24</b>																						
660	22.2	1290	.92	1.00	1.00	1.00	.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
59°F (15°C)	790	23.6	1280	.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	895	24.6	1270	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
63°F (17.2°C)	660	23.2	1290	.75	.89	1.00	.76	.91	1.00	.76	.94	1.00	1.00	.76	.94	.81	.98	.81	.98	.81	.98	1.00
	790	24.0	1280	.79	.95	1.00	.81	.97	1.00	.83	1.00	1.00	1.00	.83	1.00	.87	1.00	.87	1.00	.87	1.00	1.00
	895	24.8	1270	.82	.98	1.00	.84	1.00	1.00	.87	1.00	1.00	1.00	.87	1.00	.91	1.00	.91	1.00	.91	1.00	1.00
67°F (19.4°C)	660	24.6	1270	.59	.72	.85	.60	.74	.87	.61	.76	.90	.90	.61	.76	.63	.79	.63	.79	.63	.79	.98
	790	25.6	1260	.61	.76	.91	.62	.78	.94	.64	.81	.97	.97	.64	.81	.66	.84	.66	.84	.66	.84	1.00
	895	26.4	1250	.63	.80	.95	.65	.82	.98	.66	.85	1.00	1.00	.66	.85	.68	.88	.68	.88	.68	.88	1.00
71°F (21.7°C)	660	26.2	1250	.45	.57	.69	.45	.58	.71	.45	.60	.73	.73	.45	.60	.46	.61	.46	.61	.46	.61	.85
	790	27.2	1240	.46	.60	.74	.46	.61	.76	.47	.62	.78	.78	.47	.62	.47	.64	.47	.64	.47	.64	.85
	895	27.8	1230	.46	.62	.77	.47	.63	.79	.48	.65	.82	.82	.48	.65	.49	.67	.49	.67	.49	.67	.90



**COOLING PERFORMANCE EXTENDED RATINGS**

Note: Shaded area is AHRI Rating Conditions

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		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				
				kBtu/h	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	
<b>4SHP16LE142P-50 - BCE7E42</b>		1225	39.5	2200	.94	1.00	1.00	37.8	2480	.98	1.00	1.00	34.4	3170	1.00	1.00	1.00	32.4	3590	1.00	1.00	1.00	32.4	3590	1.00	1.00	1.00	
		59°F (15°C)	1400	410	2200	.98	1.00	1.00	39.5	2490	1.00	1.00	1.00	35.6	3180	1.00	1.00	1.00	33.4	3600	1.00	1.00	1.00	33.4	3600	1.00	1.00	1.00
			1570	42.0	2200	1.00	1.00	1.00	40.5	2490	1.00	1.00	1.00	36.6	3180	1.00	1.00	1.00	34.4	3600	1.00	1.00	1.00	34.4	3600	1.00	1.00	1.00
		63°F (17.2°C)	1225	40.5	2200	.76	.90	1.00	38.5	2490	.77	.93	1.00	34.6	3180	.82	.98	1.00	32.4	3590	.84	1.00	1.00	32.4	3590	.84	1.00	1.00
			1400	415	2200	.79	.95	1.00	39.5	2490	.81	.97	1.00	35.6	3180	.85	1.00	1.00	33.4	3590	.88	1.00	1.00	33.4	3590	.88	1.00	1.00
			1570	42.5	2200	.82	.98	1.00	40.5	2490	.84	1.00	1.00	36.6	3180	.89	1.00	1.00	34.4	3600	.93	1.00	1.00	34.4	3600	.93	1.00	1.00
		67°F (19.4°C)	1225	43.0	2200	.60	.73	.87	41.0	2490	.61	.75	.89	39.0	2810	.62	.77	.92	36.6	3180	.63	.79	.95	34.0	3600	.65	.82	.98
			1400	44.0	2200	.62	.77	.91	42.0	2490	.63	.78	.94	39.5	2820	.64	.81	.97	37.2	3180	.65	.83	.99	34.8	3600	.67	.86	1.00
			1570	45.0	2200	.64	.80	.96	42.5	2490	.65	.82	.97	40.5	2820	.66	.84	1.00	38.0	3180	.68	.87	1.00	35.2	3600	.70	.91	1.00
		71°F (21.7°C)	1225	45.0	2200	.45	.58	.71	43.0	2490	.45	.59	.73	41.0	2820	.46	.60	.75	38.5	3180	.47	.62	.77	36.0	3600	.47	.64	.80
			1400	46.5	2200	.46	.60	.74	44.0	2490	.46	.62	.76	42.0	2820	.47	.63	.78	39.5	3190	.48	.64	.81	36.8	3600	.48	.66	.84
			1570	47.0	2200	.47	.62	.78	45.0	2490	.47	.64	.79	42.5	2820	.48	.65	.82	40.0	3190	.49	.67	.85	37.4	3600	.49	.69	.88
<b>4SHP16LE148P-50 - BCE7E48</b>		1370	44.5	2560	.92	1.00	1.00	42.5	2890	.94	1.00	1.00	41.0	3280	.97	1.00	1.00	38.5	3720	.99	1.00	1.00	36.4	4220	1.00	1.00	1.00	
		59°F (15°C)	1470	45.5	2560	.94	1.00	1.00	43.5	2900	.96	1.00	1.00	41.5	3280	.99	1.00	1.00	39.5	3730	1.00	1.00	1.00	37.0	4230	1.00	1.00	1.00
			1715	47.5	2570	.99	1.00	1.00	45.5	2900	1.00	1.00	1.00	43.5	3290	1.00	1.00	1.00	41.0	3730	1.00	1.00	1.00	38.5	4230	1.00	1.00	1.00
		63°F (17.2°C)	1370	46.0	2560	.75	.89	1.00	44.0	2900	.76	.91	1.00	42.0	3280	.78	.93	1.00	39.5	3730	.81	.96	1.00	36.4	4220	.83	.99	1.00
			1470	47.0	2570	.76	.91	1.00	44.5	2900	.78	.93	1.00	42.5	3280	.80	.96	1.00	40.0	3730	.82	.98	1.00	37.0	4230	.85	1.00	1.00
			1715	48.0	2570	.80	.96	1.00	45.5	2900	.82	.98	1.00	43.5	3290	.84	1.00	1.00	41.0	3730	.87	1.00	1.00	38.5	4240	.90	1.00	1.00
		67°F (19.4°C)	1370	48.5	2570	.59	.73	.85	46.5	2900	.60	.74	.87	44.0	3290	.61	.76	.90	41.5	3730	.62	.78	.93	38.5	4240	.64	.81	.97
			1470	49.5	2570	.60	.74	.88	47.0	2900	.61	.76	.90	44.5	3290	.62	.78	.92	42.0	3740	.64	.80	.96	39.0	4240	.65	.83	.99
			1715	50.5	2570	.63	.78	.93	48.5	2910	.64	.80	.95	46.0	3300	.65	.82	.98	43.0	3740	.66	.85	1.00	40.0	4240	.69	.88	1.00
		71°F (21.7°C)	1370	51.0	2570	.45	.58	.70	49.0	2910	.45	.59	.72	46.5	3300	.46	.60	.73	43.5	3740	.46	.61	.76	40.5	4250	.47	.63	.79
			1470	52.0	2570	.45	.59	.72	49.5	2910	.46	.60	.73	47.0	3300	.46	.61	.75	44.0	3740	.47	.62	.78	41.0	4250	.48	.64	.81
			1715	53.5	2580	.47	.61	.76	51.0	2910	.47	.62	.77	48.5	3310	.47	.64	.80	45.5	3750	.48	.65	.82	42.0	4250	.49	.68	.86

**COOLING PERFORMANCE EXTENDED RATINGS**

Note: Shaded area is AHRI Rating Conditions

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)															
		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			Total Cooling Capacity						
		Total Cooling Capacity	Indoor Dry Bulb	Indoor Dry Bulb	75°F	80°F	85°F	kBtuh	kBtuh	kBtuh	75°F	80°F	85°F	kBtuh	kBtuh	kBtuh	75°F	80°F	85°F	kBtuh	kBtuh	kBtuh	75°F	80°F	85°F	kBtuh	kBtuh	kBtuh	75°F	80°F	85°F	kBtuh	kBtuh	kBtuh	75°F	80°F	85°F				
Total Air Volume		cfm																																							
		<b>4SHPI6LE16OP-50 - BCE7E60</b>																																							
59°F (15°C)	1440	52.5	.86	.98	1.00	3420	51.0	.88	1.00	3840	48.5	.90	1.00	4310	46.5	.92	1.00	4860	44.0	.96	1.00	5520	44.0	.96	1.00	5520	44.0	.96	1.00	5520	44.0	.96	1.00	5520	44.0	.96	1.00				
	1600	54.5	.89	1.00	3420	52.5	.90	1.00	3840	50.5	.93	1.00	4320	48.0	.95	1.00	4870	45.0	.99	1.00	5530	45.0	.99	1.00	5530	45.0	.99	1.00	5530	45.0	.99	1.00	5530	45.0	.99	1.00	5530	45.0	.99	1.00	
63°F (17.2°C)	1750	56.0	.91	1.00	3420	54.0	.93	1.00	3840	52.0	.95	1.00	4320	49.0	.98	1.00	4870	46.0	1.00	1.00	5530	46.0	1.00	5530	46.0	1.00	5530	46.0	1.00	5530	46.0	1.00	5530	46.0	1.00	5530	46.0	1.00	5530	46.0	1.00
	1440	55.5	.71	.83	.94	3420	53.0	.72	.85	3840	51.0	.74	.87	4320	48.0	.75	.89	4870	45.0	.89	1.00	5530	45.0	.89	1.00	5530	45.0	.89	1.00	5530	45.0	.89	1.00	5530	45.0	.89	1.00	5530	45.0	.89	1.00
67°F (19.4°C)	1600	57.0	.73	.85	.97	3420	54.5	.74	.87	3840	52.0	.76	.89	4320	49.0	.78	.92	4870	46.0	.80	1.00	5530	46.0	.80	1.00	5530	46.0	.80	1.00	5530	46.0	.80	1.00	5530	46.0	.80	1.00	5530	46.0	.80	1.00
	1750	58.0	.74	.88	.99	3420	55.5	.76	.90	3850	53.0	.77	.92	4320	50.0	.80	.95	4880	46.5	.82	1.00	5530	46.5	.82	1.00	5530	46.5	.82	1.00	5530	46.5	.82	1.00	5530	46.5	.82	1.00	5530	46.5	.82	1.00
71°F (21.7°C)	1440	58.5	.57	.69	.80	3420	56.0	.58	.70	3840	53.5	.59	.71	4320	50.5	.60	.73	4880	47.5	.61	.75	5540	47.5	.61	.75	5540	47.5	.61	.75	5540	47.5	.61	.75	5540	47.5	.61	.75	5540	47.5	.61	.75
	1600	60.0	.59	.71	.82	3420	57.5	.59	.72	3850	54.5	.60	.73	4320	51.5	.61	.75	4880	48.0	.63	.78	5540	48.0	.63	.78	5540	48.0	.63	.78	5540	48.0	.63	.78	5540	48.0	.63	.78	5540	48.0	.63	.78
71°F (21.7°C)	1750	61.0	.59	.72	.84	3430	58.5	.60	.74	3850	55.5	.61	.75	4330	52.5	.62	.77	4880	49.0	.64	.80	5540	49.0	.64	.80	5540	49.0	.64	.80	5540	49.0	.64	.80	5540	49.0	.64	.80	5540	49.0	.64	.80
	1440	61.5	.44	.55	.67	3430	59.0	.45	.56	3850	56.0	.45	.57	4320	53.0	.45	.58	4890	49.5	.46	.60	5540	49.5	.46	.60	5540	49.5	.46	.60	5540	49.5	.46	.60	5540	49.5	.46	.60	5540	49.5	.46	.60
71°F (21.7°C)	1600	62.5	.45	.57	.68	3430	60.0	.45	.58	3850	57.0	.45	.59	4330	54.0	.46	.60	4890	50.5	.46	.60	5540	50.5	.46	.60	5540	50.5	.46	.60	5540	50.5	.46	.60	5540	50.5	.46	.60	5540	50.5	.46	.60
	1750	64.0	.45	.58	.70	3420	61.0	.45	.59	3850	58.5	.46	.60	4330	55.0	.46	.60	4890	51.5	.46	.60	5550	51.5	.46	.60	5550	51.5	.46	.60	5550	51.5	.46	.60	5550	51.5	.46	.60	5550	51.5	.46	.60



**HEATING PERFORMANCE EXTENDED RATINGS**

**4SHPI6LE118P-50 - BCE7E18**

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	kBtuh	kW	kBtuh	kW	kBtuh	kW	
535	250	20.8	6.1	1170	16.3	4.8	1125	11.7	3.4	1080	7.9	2.3	990	3.8	1.1	735				
700	330	21.3	6.2	1100	16.8	4.9	1055	12.2	3.6	1005	8.4	2.5	915	4.3	1.3	660				
825	390	21.8	6.4	1060	17.3	5.1	1015	12.7	3.7	970	8.9	2.6	875	4.8	1.4	625				

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		1.1	1.09	1.08	1.07	1.06	1.06	1.04	1.03	1.02	1.01	1	1	0.99	0.98	0.92	0.85	0.79	0.73	0.66	0.6
Total Output	kBtuh	21.3	20.2	19.1	18	17.4	16.8	15.3	13.8	13	12.2	11.4	10.9	10.5	9.4	8.4	7.4	6.3	5.3	4.3	3.3
	kW	6.2	5.9	5.6	5.3	5.1	4.9	4.5	4.0	3.8	3.6	3.3	3.2	3.1	2.8	2.5	2.2	1.8	1.6	1.3	1.0

	Inputs					
	Cap	6.2	5.9	5.6	5.3	5.1
	Low	Med	High			
CFM	535	700	825			
47°F	16889.04	1132.503	17381.875	1058.653	17884.67	1021.314
35°F	---	---	13787.179	1023.683	---	---
17°F	---	---	10923.586	993.605	---	---

**4SHPI6LE124P-50 - BCE7E24**

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	kBtuh	kW	kBtuh	kW	kBtuh	kW	
660	310	26.4	7.7	1545	20.7	6.1	1460	14.8	4.3	1370	10.4	3.0	1255	5.1	1.5	930				
790	375	26.9	7.9	1470	21.2	6.2	1390	15.3	4.5	1300	10.9	3.2	1185	5.6	1.6	860				
895	420	27.2	8.0	1430	21.5	6.3	1345	15.6	4.6	1255	11.2	3.3	1145	5.9	1.7	815				

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		1.47	1.46	1.44	1.42	1.41	1.39	1.35	1.31	1.31	1.3	1.3	1.3	1.29	1.27	1.19	1.11	1.02	0.94	0.86	0.78
Total Output	kBtuh	26.9	25.6	24.3	22.9	22.1	21.2	19	16.8	16	15.3	14.6	14.1	13.6	12.3	10.9	9.6	8.3	6.9	5.6	4.2
	kW	7.9	7.5	7.1	6.7	6.5	6.2	5.6	4.9	4.7	4.5	4.3	4.1	4.0	3.6	3.2	2.8	2.4	2.0	1.6	1.2

	Inputs					
	Cap	Watts	Cap	Watts	Cap	Watts
	Low	Med	High			
CFM	660	790	895			
47°F	21620.677	1476.954	22128.434	1405.425	22433.405	1362.889
35°F	---	---	16763.115	1307.426	---	---
17°F	---	---	14135.974	1293.85	---	---

**HEATING PERFORMANCE EXTENDED RATINGS**

**4SHPI6LE130P-50 - BCE7E30**

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	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
845	400	32.8	9.6	1965	25.8	7.6	1850	18.6	5.5	1735	13.1	3.8	1570	6.4	1.9	1170	6.4	1.9	1170	6.4	1.9	1170
1035	490	33.4	9.8	1855	26.4	7.7	1745	19.2	5.6	1625	13.7	4.0	1460	7.0	2.1	1060	7.0	2.1	1060	7.0	2.1	1060
1165	550	33.6	9.8	1805	26.6	7.8	1690	19.4	5.7	1575	13.9	4.1	1410	7.2	2.1	1010	7.2	2.1	1010	7.2	2.1	1010

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		1.86	1.83	1.81	1.78	1.76	1.75	1.7	1.66	1.64	1.63	1.61	1.6	1.59	1.56	1.46	1.36	1.26	1.16	1.06	0.96
Total Output	kBtuh	33.4	31.8	30.1	28.5	27.5	26.4	23.8	21.1	20.1	19.2	18.2	17.7	17	15.4	13.7	12	10.3	8.7	7	5.3
	kW	9.8	9.3	8.8	8.4	8.1	7.7	7.0	6.2	5.9	5.6	5.3	5.2	5.0	4.5	4.0	3.5	3.0	2.5	2.1	1.6

	Inputs					
	Cap	6.2	5.9	5.6	5.3	5.1
	Low	Med	High			
CFM	845	1035	1165			
47°F	26910.42	1868.432	27508.309	1760.221	27716.395	1709.049
35°F	---	---	21084.648	1658.685	---	---
17°F	---	---	17678.117	1599.322	---	---

**4SHPI6LE136P-50 - BCE7E36**

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	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1035	490	40.9	12.0	2465	32.6	9.6	2280	24.0	7.0	2095	17.2	5.0	1855	8.6	2.5	1380	8.6	2.5	1380	8.6	2.5	1380
1200	565	41.2	12.1	2370	32.9	9.6	2185	24.2	7.1	2000	17.5	5.1	1760	8.9	2.6	1285	8.9	2.6	1285	8.9	2.6	1285
1365	645	42.0	12.3	2300	33.7	9.9	2120	25.0	7.3	1935	18.3	5.4	1690	9.7	2.8	1215	9.7	2.8	1215	9.7	2.8	1215

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		2.37	2.33	2.28	2.24	2.21	2.19	2.13	2.08	2.04	2	1.97	1.94	1.93	1.88	1.76	1.64	1.53	1.41	1.29	1.17
Total Output	kBtuh	41.2	39.3	37.3	35.3	34.2	32.9	29.7	26.5	25.4	24.2	23.1	22.4	21.6	19.7	17.5	15.4	13.2	11	8.9	6.7
	kW	12.1	11.5	10.9	10.3	10.0	9.6	8.7	7.8	7.4	7.1	6.8	6.6	6.3	5.8	5.1	4.5	3.9	3.2	2.6	2.0

	Inputs					
	Cap	Watts	Cap	Watts	Cap	Watts
	Low	Med	High			
CFM	1035	1200	1365			
47°F	33877.627	2303.35	34163.927	2209.063	34954.687	2139.676
35°F	---	---	26527.009	2077.292	---	---
17°F	---	---	22412.463	1942.081	---	---

**HEATING PERFORMANCE EXTENDED RATINGS**

**4SHPI6LE142P-50 - BCE7E42**

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	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1225	580	47.8	14.0	2990	37.5	11.0	2730	26.8	7.9	2460	18.2	5.3	2160	9.3	2.7	1605				
1400	660	48.0	14.1	2890	37.6	11.0	2630	27.0	7.9	2365	18.3	5.4	2060	9.4	2.8	1510				
1570	740	48.8	14.3	2805	38.4	11.3	2545	27.8	8.1	2280	19.1	5.6	1975	10.2	3.0	1425				

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		2.89	2.83	2.77	2.7	2.67	2.63	2.55	2.46	2.42	2.37	2.32	2.29	2.26	2.2	2.06	1.92	1.79	1.65	1.51	1.37
Total Output	kBtuh	48	45.5	43	40.5	39	37.6	34.1	30.7	28.8	27	25.1	24	23	20.6	18.3	16.1	13.9	11.7	9.4	7.2
	kW	14.1	13.3	12.6	11.9	11.4	11.0	10.0	9.0	8.4	7.9	7.4	7.0	6.7	6.0	5.4	4.7	4.1	3.4	2.8	2.1

	Inputs					
	Cap	6.2	5.9	5.6	5.3	5.1
	Low	Med	High			
CFM	1225		1400		1570	
47°F	38863.063	2761.168	39020.672	2663.106	39801.111	2579.208
35°F	---	---	30658.706	2462.384	---	---
17°F	---	---	24047.273	2285.758	---	---

**4SHPI6LE148P-50 - BCE7E48**

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	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1370	645	51.7	15.2	3115	41.5	12.2	2895	31.0	9.1	2675	22.3	6.5	2360	11.2	3.3	1735				
1470	695	51.8	15.2	3060	41.7	12.2	2840	31.2	9.1	2620	22.4	6.6	2305	11.3	3.3	1680				
1715	810	52.4	15.4	2935	42.2	12.4	2715	31.8	9.3	2495	23.0	6.7	2180	11.9	3.5	1555				

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		3.06	3.01	2.95	2.9	2.86	2.84	2.78	2.72	2.67	2.62	2.57	2.54	2.52	2.46	2.31	2.15	1.99	1.84	1.68	1.52
Total Output	kBtuh	51.8	49.4	47	44.6	43.1	41.7	38	34.4	32.8	31.2	29.6	28.6	27.6	25.2	22.4	19.7	16.9	14.1	11.3	8.6
	kW	15.2	14.5	13.8	13.1	12.6	12.2	11.1	10.1	9.6	9.1	8.7	8.4	8.1	7.4	6.6	5.8	5.0	4.1	3.3	2.5

	Inputs					
	Cap	Watts	Cap	Watts	Cap	Watts
	Low	Med	High			
CFM	1370		1470		1715	
47°F	42955.533	2918.706	43100.509	2862.377	43688.681	2740.461
35°F	---	---	34413.286	2720.21	---	---
17°F	---	---	28593.374	2536.826	---	---

**HEATING PERFORMANCE EXTENDED RATINGS**

**4SHP16LE160P-50 - BCE7E60**

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	kBtuh	kW	kBtuh	kW	kBtuh	kW		
1440	680	63.6	18.6	4080	50.7	14.9	3765	37.2	10.9	3445	27.6	8.1	3035	14.0	4.1	2250					
1600	755	63.6	18.6	3965	50.7	14.9	3650	37.2	10.9	3330	27.6	8.1	2925	13.9	4.1	2135					
1750	825	64.6	18.9	3860	51.7	15.2	3545	38.1	11.2	3225	28.6	8.4	2815	14.9	4.4	2030					

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		3.97	3.89	3.82	3.74	3.69	3.65	3.56	3.46	3.4	3.33	3.27	3.23	3.2	3.12	2.93	2.73	2.53	2.33	2.14	1.94
Total Output	kBtuh	63.6	60.6	57.7	54.7	52.9	50.7	45.2	39.7	38.4	37.2	35.9	35.1	33.9	31	27.6	24.2	20.8	17.4	13.9	10.5
	kW	18.6	17.8	16.9	16.0	15.5	14.9	13.2	11.6	11.3	10.9	10.5	10.3	9.9	9.1	8.1	7.1	6.1	5.1	4.1	3.1

	Inputs					
	Cap	6.2	5.9	5.6	5.3	5.1
	Low		Med		High	
CFM	1440		1600		1750	
47°F	52949.719	3804.103	52910.3	3690.369	53890.233	3583.779
35°F	---	---	39711.9	3457.882	---	---
17°F	---	---	35128.484	3228.598	---	---



1-800-448-5872

All specifications and illustrations subject to change without notice and without incurring obligations.