

Heat Pump Dry Charged

13 SEER 3 Phase

# Split System Heat Pump

**NITROGEN  
CHARGED**

Form No. 2SHP13LC-100 (06/2012)

## 2SHP13 Features and Benefits

### COMPRESSOR

- Nitrogen charged for replacement of R22 components only
- High-efficiency scroll compressor
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions

### COMPONENTS

- Full metal louvered panels remove with just two screws per panel for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- Reliable, solid-state, time-initiated, temperature-terminated defrost system
- Service valves positioned for quick installation and easy service
- Low pressure switch for loss of charge system protection
- Trade-available components
- Defrost control features built-in diagnostics for easier service
- Defrost control has short cycle protection to protect compressor
- Defrost control is Quiet Shift™ capable
- Defrost cycle is field selectable 30/60/90 minutes

### COIL

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow



### DESIGN

- Designed for ambients up to 125°F

### CABINET

- Full metal louvered panel coil guard protection
- Controls located in corner post for easy installation and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- External gauge ports for easy service
- Raised base pan with ports allows for excellent water and debris drainage

### WARRANTIES

- 1 year parts; 5 year compressor

**ALLIED**<sup>TM</sup>  
Commercial

## Model Number Guide

	2	SHP	13	LC	1	36	T	-	1	A	
2 - R22 Refrigerant	Split Heat Pump		13 - 13 SEER Nominal		Louvered Commercial Series	36 - 36,000 Btuh 48 - 48,000 Btuh 60 - 60,000 Btuh	T - 208-230v/60hz/3Ph		1	A	Minor Revision Code Major Revision Code

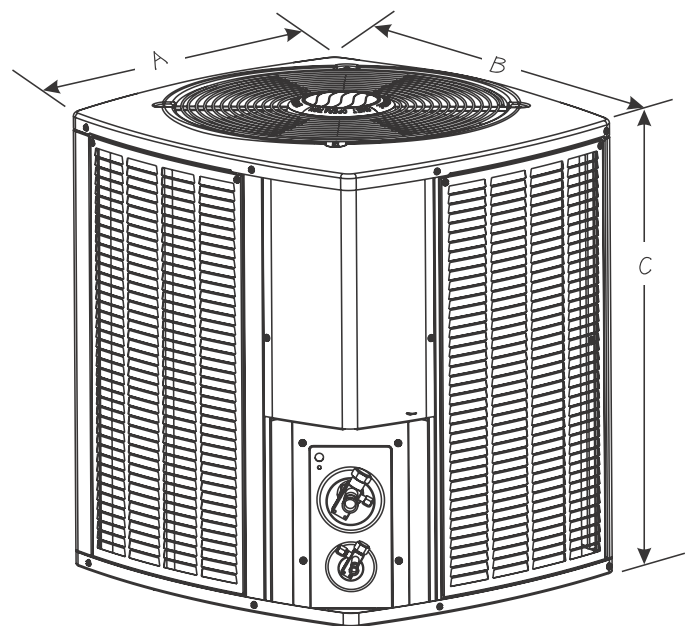
## Electrical and Physical Data

Model	Voltage/ Hz/ Phase	Voltage Range	Min. Circuit (Amps)	Max. Fuse (Amps)	Compressor		Outdoor Fan Motor			Field Supplied R22 Charge (oz.)	Shipping Weight (lbs)
					Rated Load (Amps)	Locked Rotor (Amps)	Full Load (Amps)	Rated HP	Nom. RPM		
2SHP13LC136T	208-230/3/60	197-253	14.5	25	10.8	73	1.1	1/5	1075	138	192
2SHP13LC148T	208-230/3/60	197-253	20.8	35	15.4	114	1.7	1/4	825	188	248
2SHP13LC160T	208-230/3/60	197-253	21.0	35	15.4	114	1.8	1/4	825	224	

Note:  
Units are factory shipped with dry nitrogen holding charge

## Unit Dimensions & Sound Ratings

Model	Dimensions			Sound Ratings (dBa)
	A - width (in.)	B - depth (in.)	C - height (in.)	
2SHP13LC136T	24-3/4	26-3/4	33-3/4	76
2SHP13LC148T	29-3/8	31-1/4	37-3/4	78
2SHP13LC160T	35-3/4	37-3/4	37-3/4	80



## Cooling Performance with Air Handlers and Furnaces

Outdoor Model	Indoor Model	Cooling				Heating				CFM	Refrigerant Connection				Refrig. Line Size		Indoor Coil Orifice		
		SEER	EER	ARI Rated Capacity <sup>1</sup> Btuh	Rated Sensible Capacity Btuh	HSPF	47		17		Outdoor		Indoor		Suction	Liquid	Required Indoor Orifice <sup>2</sup>	Optional Field Inst. TXV	
							Btuh	COP	Btuh		COP	Suction	Liquid	Suction					Liquid
2SHP13LC136T	BCS2M36C00NA-1P	13	11	35200	26400	7.7	33800	3.5	21000	2.4	1200	7/8	3/8	7/8	3/8	7/8	3/8	0.074	H2TXV02
2SHP13LC148T	BCS2M48C00NA-1P	13	11	48000	35500	7.7	47500	3.4	30600	2.4	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.088	H2TXV02
2SHP13LC160T	BCS2M60C00NA-1P	13	11	55000	41300	7.7	55000	3.6	35000	2.5	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	0.09	H2TXV03

**Note:**

EPA rules prohibit system installations (condensing unit coupled with an air handler or evaporator coil).

<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> A blower time delay is required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises furnaces and Air Handler products

## Accessories

Catalog / Kit Number	Description	Used with
58M81	BLOWER OFF DELAY KIT	ALL 2SHP'S
45F08	COMPRESSOR LOW AMBIENT CUT-OFF	ALL 2SHP'S
94J46	HIGH PRESSURE SWITCH KIT	ALL 2SHP'S
47J27	COMPRESSOR TIME-OFF CONTROL	ALL 2SHP'S
93M05	CRANK CASE HEATER	ALL 2SHP'S
33M07	MILD AMBIENT KIT	ALL 2SHP'S
27J00	LOW AMBIENT KIT	ALL 2SHP'S
84M23	LOSS OF CHARGE KIT	ALL 2SHP'S
93G35	FREEZESTATS (3/8" TUBING)	ALL 2SHP'S
50A93	FREEZESTATS (5/8" TUBING)	ALL 2SHP'S
H2TX02	TXV KIT	2SHP 36 & 48
H2TX03	TXV KIT	2SHP 60



215 Metropolitan Drive  
West Columbia, SC 29170  
800.448.5872  
[www.allied-commercial.com](http://www.allied-commercial.com)