

**A e r o S y s**

*I n c o r p o r a t e d*

# ***Air Cooled Heat Pumps***

## ***AeroCon THHP Series***



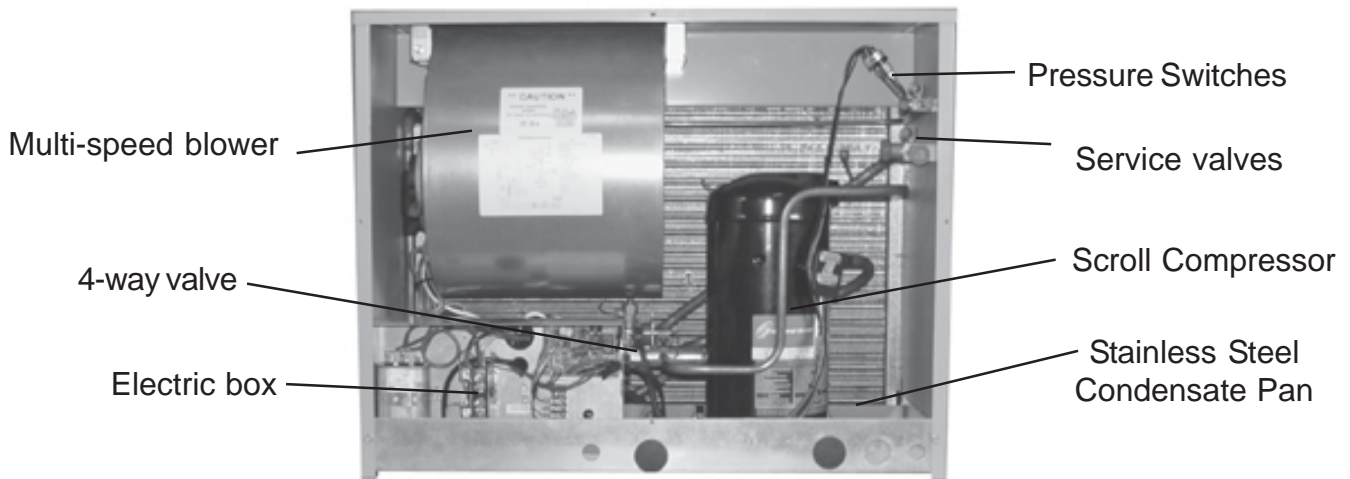
***AeroSys, Inc.***

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***www.aerosysinc.com***

## System View



## Design Features

Advanced Scroll Compressor  
Advanced coil design  
Bi-directional Thermal Expansion Valve  
Corrosion Protection: powder coat over galvaneal, after metal is sheared, punched & formed  
Safety Screen painted to match unit  
Easy Service Access: electric box location, full front access  
Hi & Low Pressure Safety Switches

Low RPM blower  
Multi-speed blower motor  
No proprietary components  
Factory piped service valves, pressure switches and pressure ports  
Stainless Steel condensate/defrost pan  
5 year Compressor Warranty  
THHP systems are available in 3 cabinet sizes

## Guide Specifications

### **General**

The air cooled heat pump shall be factory tested prior to shipment. The system shall be listed and labeled in compliance with UL Std. 1995 for Heating and Cooling Equipment by a Nationally Recognized Laboratory.

### **Cabinet Construction**

The cabinet and access panels shall be constructed from heavy gauge galvaneal steel and powder-coated with an attractive neutral color for corrosion protection. The coil and blower discharge shall be protected with a heavy gauge screen.

### **Compressor**

The compressor shall be a high reliability, high efficiency and low sound scroll compressor designed for use with heat pump applications. The compressor shall incorporate an internal discharge gas muffler, internal pressure relief valve and external vibration mounting isolation.

### **Coil**

The coil shall be constructed of copper tubes and aluminum fins and cased with heavy duty galvanized steel header plates.

### **Motor**

The motor shall be a permanent split capacitor (PSC), continuous duty air-over design with internal thermal protection and flexible mounts.

### **Blower**

The blower shall be galvanized treated for corrosion protection and shall be statically and dynamically balanced to minimize vibration and noise. Blowers shall be selected for low rpm and low sound characteristics.

### **Refrigerant Pressure Switches**

The unit shall be supplied with hi and low pressure switches. The pressure switches shall be hermetically sealed, with fixed cut-in and cut-out settings.

<b>Performance Capacity</b>					
	Cooling <sup>(1)</sup> BTU/H	Heating <sup>(2)</sup> BTU/H	Heating <sup>(3)</sup> BTU/H	Design <sup>(+)</sup> SEER	Design <sup>(+)</sup> HSPF
<b>“R”unt Series Heat Pump Units</b>					
THHP-18-R	21,600	20,400	13,200	11.1	7.1
THHP-24-R	25,200	23,800	20,700	11.0	7.1
THHP-30-R	30,000	29,800	20,100	10.9	7.1
<b>“S”hort Series Heat Pump Units</b>					
THHP-18-S	20,500	20,400	13,200	11.2	7.1
THHP-24-S	22,600	23,900	15,800	11.1	7.1
THHP-30-S	30,000	29,900	20,100	11.0	7.1
<b>“T”all Series Heat Pump Units</b>					
THHP-18-T	20,500	20,500	13,300	11.3	7.1
THHP-24-T	23,600	23,900	15,800	11.1	7.1
THHP-30-T	30,000	30,000	20,200	11.0	7.1

ARI 210/240 conditions:

<sup>(1)</sup> 80°F DB, 67°F WB Indoor & 95°F DB, 75°F WB Outdoor; <sup>(2)</sup> 70°F DB, 60°F WB Indoor & 47°F DB, 43°F WB Outdoor

<sup>(3)</sup> 70°F DB, 60°F WB Indoor & 17°F DB, 15°F WB Outdoor; <sup>(+)</sup> Values May be higher than Specified

<b>Electrical Data</b>			
Unit Data @208-230/1/60	THHP-18	THHP-24	THHP-30
THDC Full Load Amps	8.4	9.6	12.2
THDC Min. Circuit Amps	14.2	15.8	19.1
THDC Max Fuse Size	20 AMP	25 Amp	30 Amp
Motor FLA	2.2	2.2	2.2
Compressor RLA/LRA	9.6/45.0	10.9/50.4	13.5/73.0

Model	THHP-18()	THHP-24()	THHP-30()
Liquid Line Connection	3/8"ODS	3/8"ODS	3/8"ODS
Suction Line Connection	3/4"ODS	3/4"ODS	3/4"ODS
Condensate Drain Connection	3/4"NPT	3/4"NPT	3/4"NPT
Weight, lbs. (net/shipping)	160 lbs/164 lbs	162 lbs/166 lbs	163 lbs/167 lbs

### Standard Grille



### Optional Grille



#### **Architectural Grille**

The unit shall have an extruded aluminum anodized architectural louver grille. The grille can be powder coated to match the color requirements of the project.



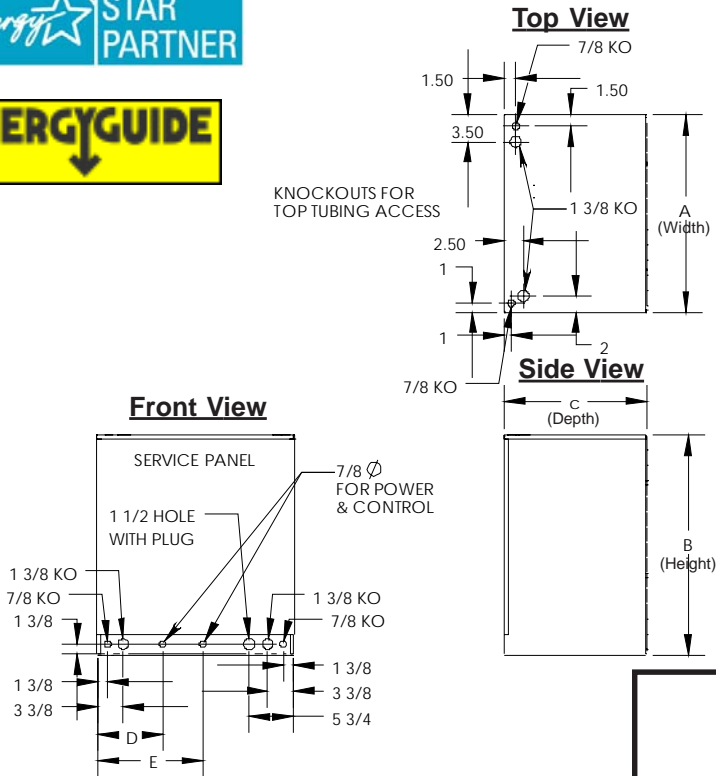
## Dimensional Data



Listing # E112295

Complies with  
**UL 1995**  
Heating and Cooling  
Equipment

Accepted for  
Use  
City of NY  
Dept. of Bldgs  
MEA-85-04-E



**Three sizes to choose from!**



Dimensions (in.)					
	Width	Height	Depth		
MODEL	A	B	C	D	E
THHP-18R	29 1/2	23	18 1/2	8 1/2	13 3/4
THHP-18S	26	28 5/8	18 1/2	8 1/2	13 3/4
THHP-18T	23 3/4	32	18 1/2	7 3/4	12 1/2
THHP-24R	29 1/2	23	18 1/2	8 1/2	13 3/4
THHP-24S	26	28 5/8	18 1/2	8 1/2	13 3/4
THHP-24T	23 3/4	32	18 1/2	7 3/4	12 1/2
THHP-30R	29 1/2	23	18 1/2	8 1/2	13 3/4
THHP-30S	26	28 5/8	18 1/2	8 1/2	13 3/4
THHP-30T	23 3/4	32	18 1/2	7 3/4	12 1/2

### Other AeroSys Products

**CeilMate** Ceiling mounted critical cooling application air conditioners in sizes from 1 ton to 3 ton capacities.

**AeroCon** THHP Series heat pumps in sizes from 1-1/2 ton to 2-1/2 ton capacities.

**AeroCool** DDX Series D.X. air handlers in sizes from 1-1/2 ton to 2-1/2 ton capacities.

**AeroCon** Centrifugal condensing units from 3 to 5 tons

**AeroCool** DCW Series chilled water air handlers in sizes from 1-1/2 ton to 2-1/2 ton capacities.

**AeroPure** Refrigerants, certified to ARI 700.

