



# ***Air Cooled Condensing Units*** ***THDC-48/60() Series***

## **System View and Benefits**

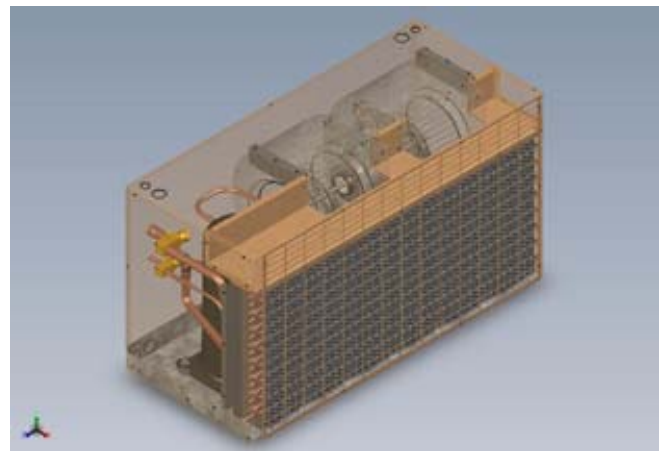
### Standard Features

Low profile cabinet, only 23 inches tall by 42 inches wide  
Large condenser coil  
R-410A or R-22 Refrigerant  
Scroll compressor  
Powder coated cabinet and grille over heavy gauge galvaneal steel  
Low speed, large blowers  
Slide-out condenser blower motor  
High and low pressure switches



### Optional Features

Variable blower speed control for low ambient operation  
Compressor Rotalocks  
Sound insulated cabinet  
Compressor sound blanket  
Architectural grille  
Wall Sleeve



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## Cooling Capacity

	<b>BTU's</b>	<b>Refrigerant</b>	<b>SEER</b>
THDC-48()	48,900	R-22	11.6
THDC-48G()	49,300	R-410A	11.6
THDC-60()	60,200	R-22	10.9
THDC-60G()	60,900	R-410A	10.5

ARI 210/240 conditions

## Electrical Data

Unit Data	THDC-48_21	THDC-48G21	THDC-60_23	THDC-60G23	THDC-60_43	THDC-60G43
Refrigerant	R-22	R-410A	R-22	R-410A	R-22	R-410A
Power Supply	208-230/1/60	208-230/1/60	230/3/60	230/3/60	460/3/60	460/3/60
System Max Fuse	45 Amp	50 Amp	40 Amp	50 Amp	20 Amp	25 Amp
Motor FLA, $\frac{1}{2}$ HP	4.3 Amp	4.3 Amp	4.3 Amp	4.3 Amp	3.4 Amp	3.4 Amp
Comp. RLA/LRA	18.3/109	21.8/117	17.3/123	20.5/155	8.2/62	9.6/75

## Guide Specifications

### **General**

The air cooled condensing unit 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 steel and powder-coated with neutral color attractiveness for corrosion protection. The coil and blower discharge shall be protected with a heavy gauge screen.

### **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 double shafted, permanent split capacitor (PSC), continuous duty air-over design with inter-

nal thermal protection and flexible mounts.

### **Compressor**

The system shall incorporate scroll compressor mounted on vibration isolators. Unit shall include isolation service valves and shall be charged with R-410A (or R-22) refrigerant.

### **Blowers**

The blowers 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 high and low pressure switches. The pressure switches shall be hermetically sealed, with fixed cut-in and cut-out settings.

## Selected Optional Features

### **Architectural Grille**

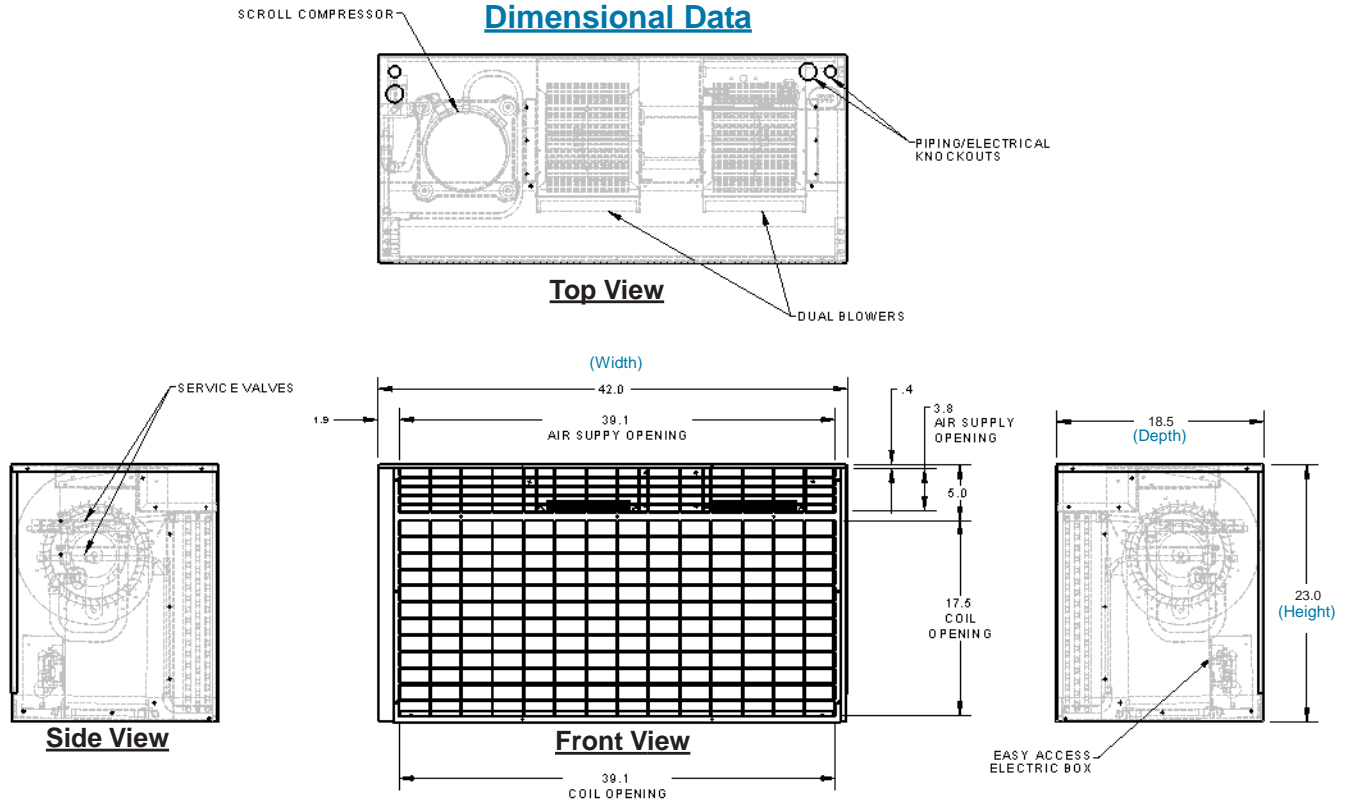
The unit shall have an extruded aluminum anodized architectural louver grille. The grille can be powder coated to match the color requirements of the project.



### **Wall Sleeves**

Systems are available with heavy gauge powder coated wall sleeves to facilitate equipment installation or prepare the wall opening prior to equipment installation.

## Dimensional Data



<b>Dimensions (in.)</b>					
	Width	Height	Depth		
<b>MODEL</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
THDC-48()	42	23	18 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub>
THDC-60()	42	23	18 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub>

<b>Model</b>	<b>THDC-48()</b>	<b>THDC-60()</b>
Liquid Line Connection	1/2" ODS	1/2" ODS
Suction Line Connection	3/4" ODS	7/8" ODS
Weight, lbs. (net/shipping)	300/325	325/350

**Nomenclature:**

THDC-XX X XX

- 21=208-230/1/60
- 23= 208/3/60
- 43= 460/3/60, 5 wire
- Blank=R-22
- G=R-410A
- 48= Nominal 4 ton capacity
- 60= Nominal 5 ton capacity

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

NRTL LISTED  
  
Listing # E112295

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

Specifications are subject to change without notice

## Cooling and Heating Equipment for Multi-Tenant Housing

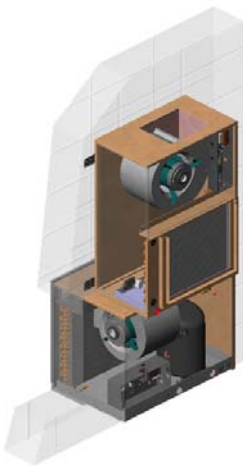
### Air Handlers



**DCW Series** fluid air handlers, available in sizes from 600 cfm to 1100 cfm for applications using central plant supplied chilled water and hot water for temperature control.

**DDX Series** refrigerant air handlers are available from 1½ to 3 ton capacities and available for R-22 or R-410A.

### Compressorized, Thru-the-wall units



Thru-the-wall units: Residential **THDC Series** air conditioners and **THHP Series** heat pumps, in four physical sizes, each in 1½, 2 and 2½ ton capacities. Systems are used in applications needing horizontal condenser air discharge or external static pressure capability.

Commercial THDC units are available in 3, 4 and 5 ton capacities.

## Precision Temperature and Humidity Control



Innovative **CeilMate™** Series 2x4 grid ceiling mounted spot coolers and ducted units in 5 capacities from 1 to 3 tons and 6 cooling methods.

These systems are designed for commercial IAQ (Indoor Air Quality) applications where cooling, heating, humidifying, dehumidifying, ventilating and air conditioning solutions are required. **CeilMate™** systems are ceiling mounted air conditioners, designed for reliable 24/7 operation.

Applications include:

- Telecom, LAN and data relay facilities
- Data centers and Clean rooms
- Medical MRI and CAT scan rooms
- Laboratories

### Refrigerant Reclamation and Cylinder Recertification Services

**AeroSys, Inc.** is an EPA and DOT certified facility serving the HVAC community through wholesalers.

All refrigerants are certified to ARI 700 by an independent national testing laboratory.

