



Air Cooled Centrifugal Condensing Units for Critical Applications

THDC-36/48/60() Series

System View and Benefits

Standard Features

Low profile cabinet, only 23 inches tall by 42 inches wide

Large condenser coil

R-410A (or 407C optional)

Scroll compressor

Powder coated cabinet and grille over heavy gauge galvaneal steel

Dual low speed, large blowers

Slide-out condenser blower motor

High and low pressure switches for safety and refrigerant pump-down



AeroSys, Inc.

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Cooling Capacity

	BTU's	Refrigerant
THDC-36G()	37,900	R-410A
THDC-48G()	49,300	R-410A
THDC-60G()	60,900	R-410A

Electrical Data

Unit Data	THDC-36G21	THDC-36G23	THDC-48G21	THDC-48G23	THDC-60G23	THDC-60G43
Refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Power Supply	208-230/1/60	208/3/60	208-230/1/60	230/3/60	230/3/60	460/3/60
System Max Fuse	25 Amp	20 Amp	50 Amp	25 Amp	50 Amp	25 Amp
Motor FLA, 1/2 HP	4.3 Amp	4.3 Amp	4.3 Amp	4.3 Amp	4.3 Amp	3.4 Amp
Comp. RLA/LRA	17.9/112	13.2/88	21.8/117	13.7/155	17.3/123	8.2/62

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 internal 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-407C) 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

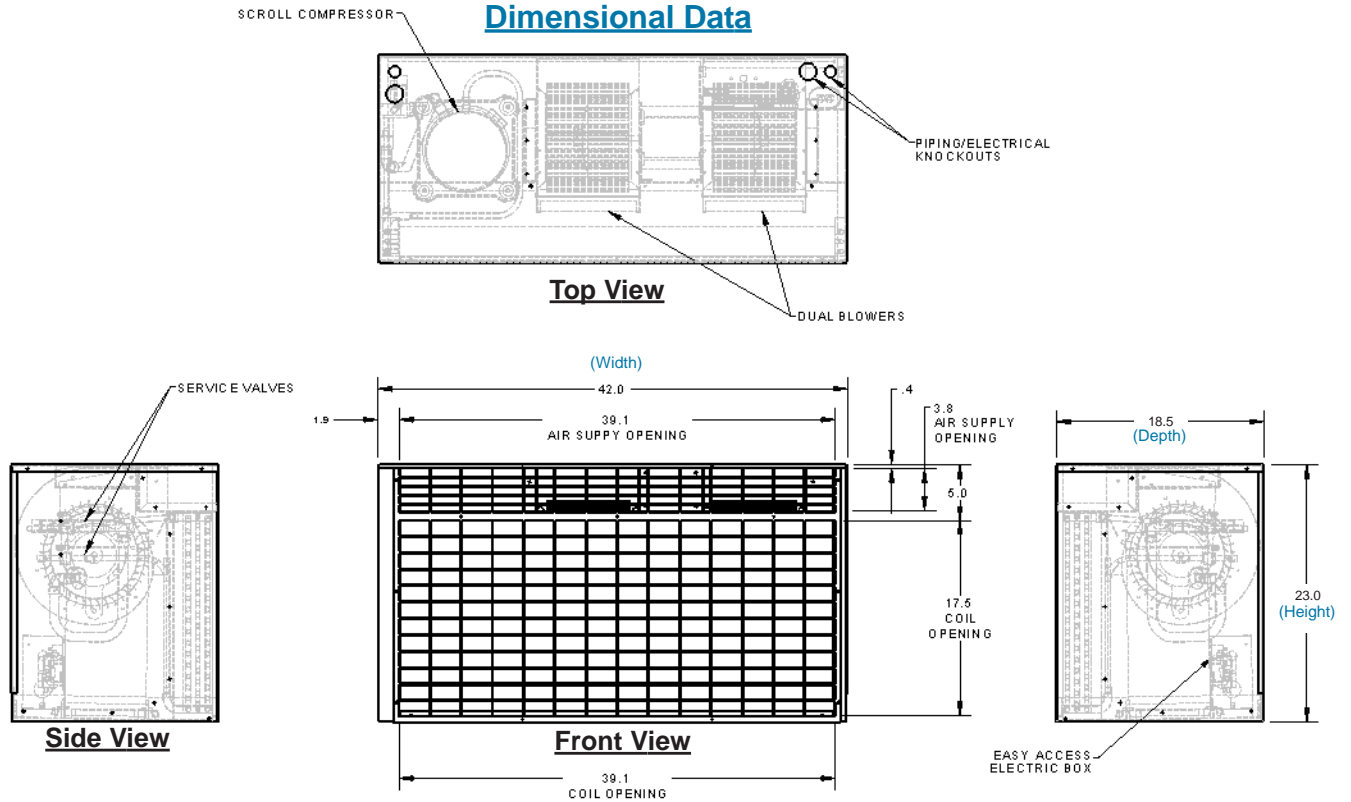
The unit shall have an extruded aluminum anodized architectural louver grille. The grille can be powder coated to match the color requirements of the project.



Other optional Features

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

Dimensional Data



Dimensions (in.)					
	Width	Height	Depth		
MODEL	A	B	C	D	E
THDC-36()	42	23	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-48()	42	23	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-60()	42	23	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄

Model	THDC-36()	THDC-48()	THDC-60()
Liquid Line Connection	1/2"ODS	1/2"ODS	1/2"ODS
Suction Line Connection	3/4"ODS	3/4"ODS	7/8"ODS
Weight, lbs. (net/shipping)	280/305	300/325	325/350

Nomenclature:

THDC-XX X XX

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

Specifications are subject to change without notice

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

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.

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.

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.



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

Ceiling mounted CMD models with 4 to 5 ton capacity are available in “split air handler configuration” with a large selection of options. THDC-36, 48 and 60 condensing units are designed for integration with these systems.