



***Thru-the-wall
Air Cooled Condensing Units***

THDC () LX Series

R-22 and R-410A refrigerants



AeroSys, Inc.
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System View



THDC-()R LX Series
(shown without sound blanket)

Design Features

High Efficiency Scroll Compressor
Advanced coil design
Powder coat over galvaneal, after the metal is sheared, punched and formed for superior corrosion protection
Safety screen painted to match unit
Low RPM blower
Low ambient control

Variable Speed blower motor
Compressor sound blanket
Vibration isolators
Factory piped service valves and pressure switches
5 year compressor warranty
Easy, full front access for service
Compressor rotalock valves and isolation valves

Guide Specifications

General- factory tested prior to shipment. The system is listed and labeled in compliance with UL Std. 1995 for Heating and Cooling Equipment by a Nationally Recognized Laboratory.

Cabinet Construction- constructed from heavy gauge steel and powder-coated with a neutral color for attractiveness and corrosion protection. The coil and blower discharge are protected with a heavy gauge screen.

Coil- constructed of copper tubes and aluminum fins and cased with heavy duty galvanized steel header plates.

Motor- permanent split capacitor (PSC), continuous duty air-over design with internal thermal protection and flexible mounts.

Blower- 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.

Low Ambient Control- Blower speed control allows system to operate down to 20°F ambient.

High and Low Pressure Switches- Factory piped and wired safety pressure switches add additional safeguards against loss of refrigerant or high refrigerant system pressures.

Selected Optional Equipment

Architectural Grille- extruded aluminum anodized architectural louver grille. The grille can be powder coated to match the color requirements of the project.

Wall Sleeve- allows for preparation of wall opening without risk of damage to condensing unit. Constructed from heavy gauge steel and powder-coated with a neutral color for attractiveness and corrosion protection.

R-22 Performance Data

	BTU's	SEER
"P" Series Condensing Units		
THDC-18P LX	20,700	11.2
THDC-24P LX	25,200	10.9
THDC-30P LX	29,800	10.9
"Runt" Series Condensing Units		
THDC-18R LX	20,700	11.2
THDC-24R LX	25,200	10.9
THDC-30R LX	29,800	10.9
"Short" Series Condensing Units		
THDC-18S LX	20,500	11.2
THDC-24S LX	24,600	11.0
THDC-30S LX	30,000	11.0
"Tall" Series Condensing Units		
THDC-18TLX	20,400	11.1
THDC-24TLX	25,300	11.2
THDC-30TLX	29,800	10.9

ARI 210/240 conditions

410A Performance Data

	BTU's	SEER
"P" Series Condensing Units		
THDC-18PG LX	19,200	12.0
THDC-24PG LX	24,900	11.6
THDC-30PG LX	28,600	10.9
"Runt" Series Condensing Units		
THDC-18RG LX	19,200	12.0
THDC-24RG LX	24,900	11.6
THDC-30RG LX	28,600	10.9
"Short" Series Condensing Units		
THDC-18SG LX	19,000	11.9
THDC-24SG LX	24,500	11.6
THDC-30SG LX	28,600	11.0
"Tall" Series Condensing Units		
THDC-18TG LX	19,000	12.0
THDC-24TG LX	24,500	11.6
THDC-30TG LX	28,600	11.0

ARI 210/240 conditions

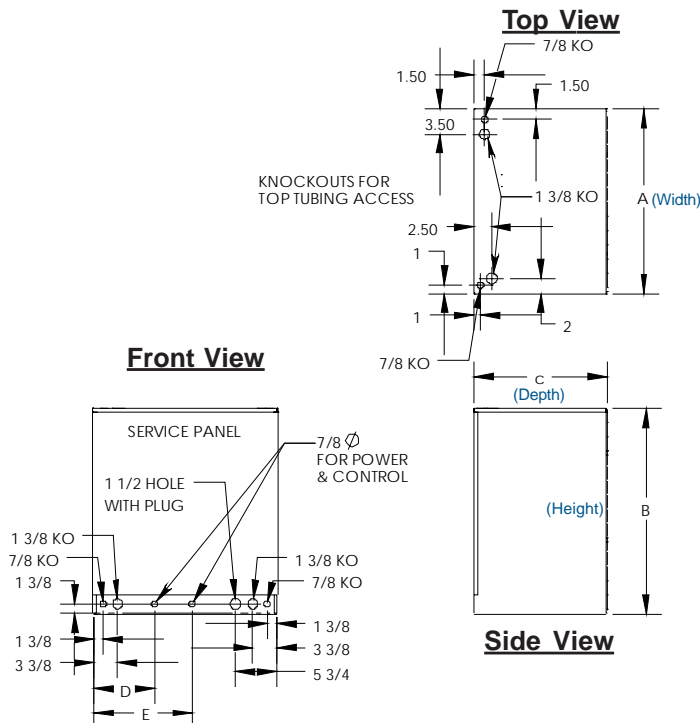
R-22 Electrical/Physical Data

Data @ 208-230/1/60	THDC-18()	THDC-24()	THDC-30()
Full Load Amps	8.6	10.7	12.4
Min. Circuit Amps	13.0	14.5	17.5
Max Fuse Size	20 AMP	20 Amp	30 Amp
Motor FLA	2.2	2.2	2.2
Comp RLA/LRA	8.6/48.0	9.8/50.0	12.2/73
Liquid Line Conn.	3/8" ODS	3/8" ODS	3/8" ODS
Suction Line Conn.	3/4" ODS	3/4" ODS	3/4" ODS
Compressor, qty 1	Hermetic	Hermetic	Hermetic
Wt, lbs. (net/ship)	170/175	179/185	191/198

R-410A Electrical/Physical Data

Data @ 208-230/1/60	THDC-18()	THDC-24()	THDC-30()
Full Load Amps	8.1	9.7	11.2
Min. Circuit Amps	13.5	19.1	19.8
Max Fuse Size	20 AMP	30 Amp	30 Amp
Motor FLA	2.2	2.2	2.2
Comp RLA/LRA	9.0/48.0	13.5/58.3	14.1/73
Liquid Line Conn.	3/8" ODS	3/8" ODS	3/8" ODS
Suction Line Conn.	3/4" ODS	3/4" ODS	3/4" ODS
Compressor, qty 1	Scroll	Scroll	Scroll
Wt, lbs. (net/ship)	170/175	179/185	191/198

Dimensional Data



Width Height Depth

MODEL	A	B	C	D	E
THDC-18P()	33 ³ / ₄	19	18 ¹ / ₂	25	32
THDC-18R()	29 ¹ / ₂	23	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-18S()	26	28 ⁵ / ₈	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-18T()	23 ³ / ₄	32	18 ¹ / ₂	6	10
THDC-24P()	33 ³ / ₄	19	18 ¹ / ₂	25	32
THDC-24R()	29 ¹ / ₂	23	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-24S()	26	28 ⁵ / ₈	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-24T()	23 ³ / ₄	32	18 ¹ / ₂	6	10
THDC-30P()	33 ³ / ₄	19	18 ¹ / ₂	25	32
THDC-30R()	29 ¹ / ₂	23	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-30S()	26	28 ⁵ / ₈	18 ¹ / ₂	8 ¹ / ₂	13 ³ / ₄
THDC-30T()	23 ³ / ₄	32	18 ¹ / ₂	6	10

FOUR CABINETS TO SELECT FROM



**Standard
Grille**



**Optional Wall
Sleeve mounted
on unit**



**Optional Wall
Sleeve only**



**Optional
Architectural
Grille**

Other AeroSys Products

CeillMate 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.

AeroCon Commercial 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, reclaimed and re certified to ARI 700.



Listing # E112295

Complies with
UL 1995
Heating and Cooling
Equipment



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