



# INDUSTRIA **CORE**

NARSA HD Conference

September 22, 2017



INDUSTRIACORE

- Founded in 1979 by Rafael Taveras Sr. as the first radiator manufacturing company in Dominican Republic.
- 1998: began the coil manufacturing line.
- 2009: started distribution of aluminum/plastic radiators and plastic tanks.



# INDUSTRIACORE Opportunities

- Most shops have had customers bring in this type of products.
- How to measure coils
- Biggest challenge: LEAD TIMES!!

# Mini-Split Unit



# Rooftop package unit



# Air Handling Unit



# Refrigeration



# Refrigeration





# Chillers



# Remote radiators / heat exchangers





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# Coils for a chiller







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# Coils for a fan coil unit



# Refrigeration condenser coil



# Coil in brazing process





# Product Quality

- The copper tube wall thickness.
  - Different tube walls for different applications. (Refrigerants)
- Aluminum fin stock thickness.
- Zero residues inside the coil after brazing process.
- High pressure testing.



# Types of coils

- Chiller water / Steam coils / Glycol
- Direct expansion coils – use refrigerant
  - Evaporator coils
  - Condenser coils



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# Types of coils

- Chiller water / Steam coils (Picture from ERS)

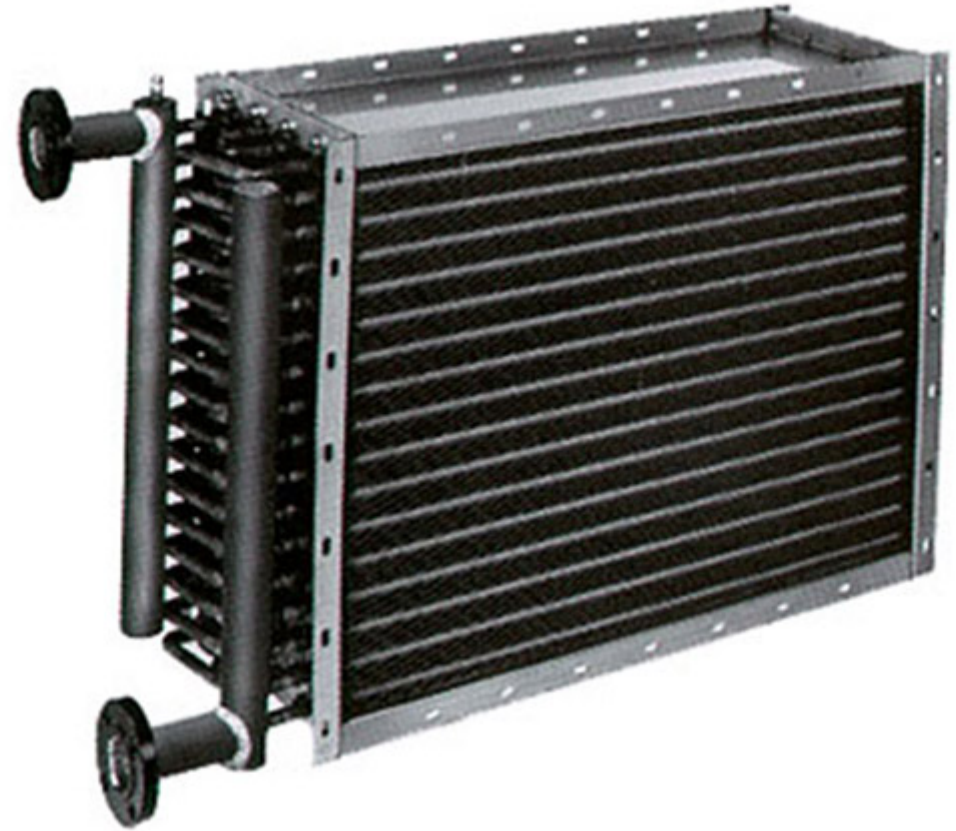




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# Types of coils

- Chiller water / Steam coils





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# Types of coils

- Direct expansion - CONDENSER

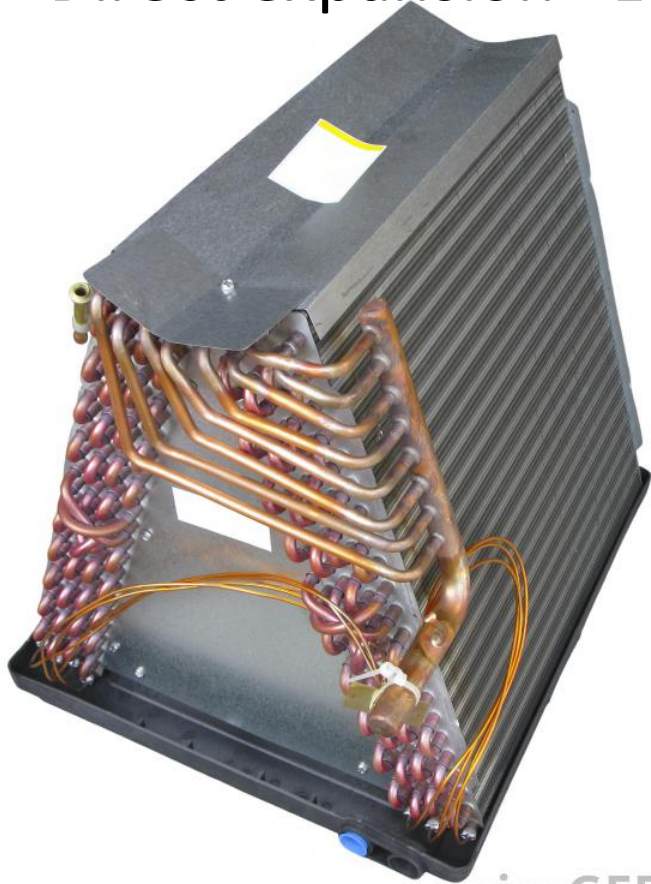




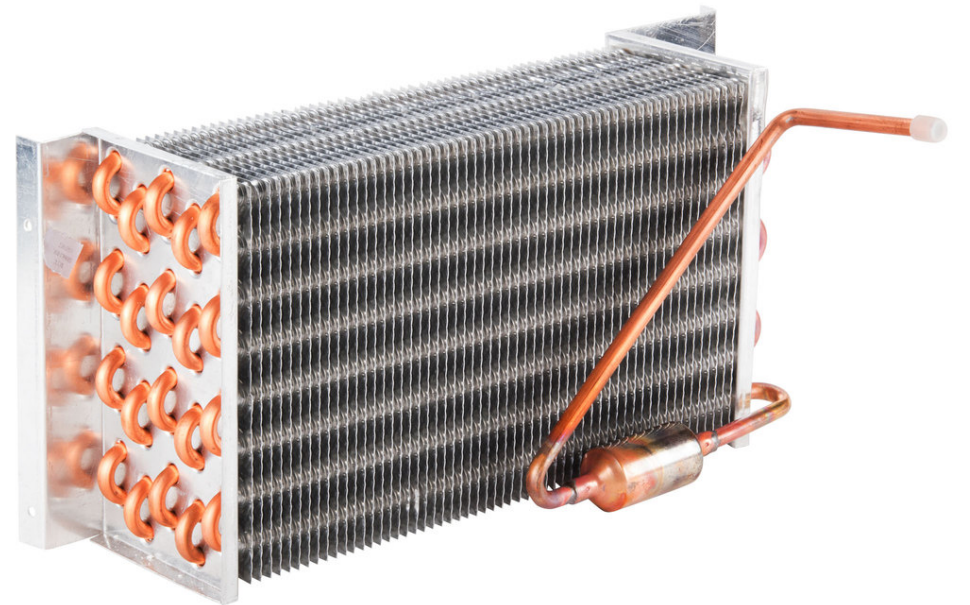
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# Types of coils

- Direct expansion - EVAPORATOR



wiseGEEK

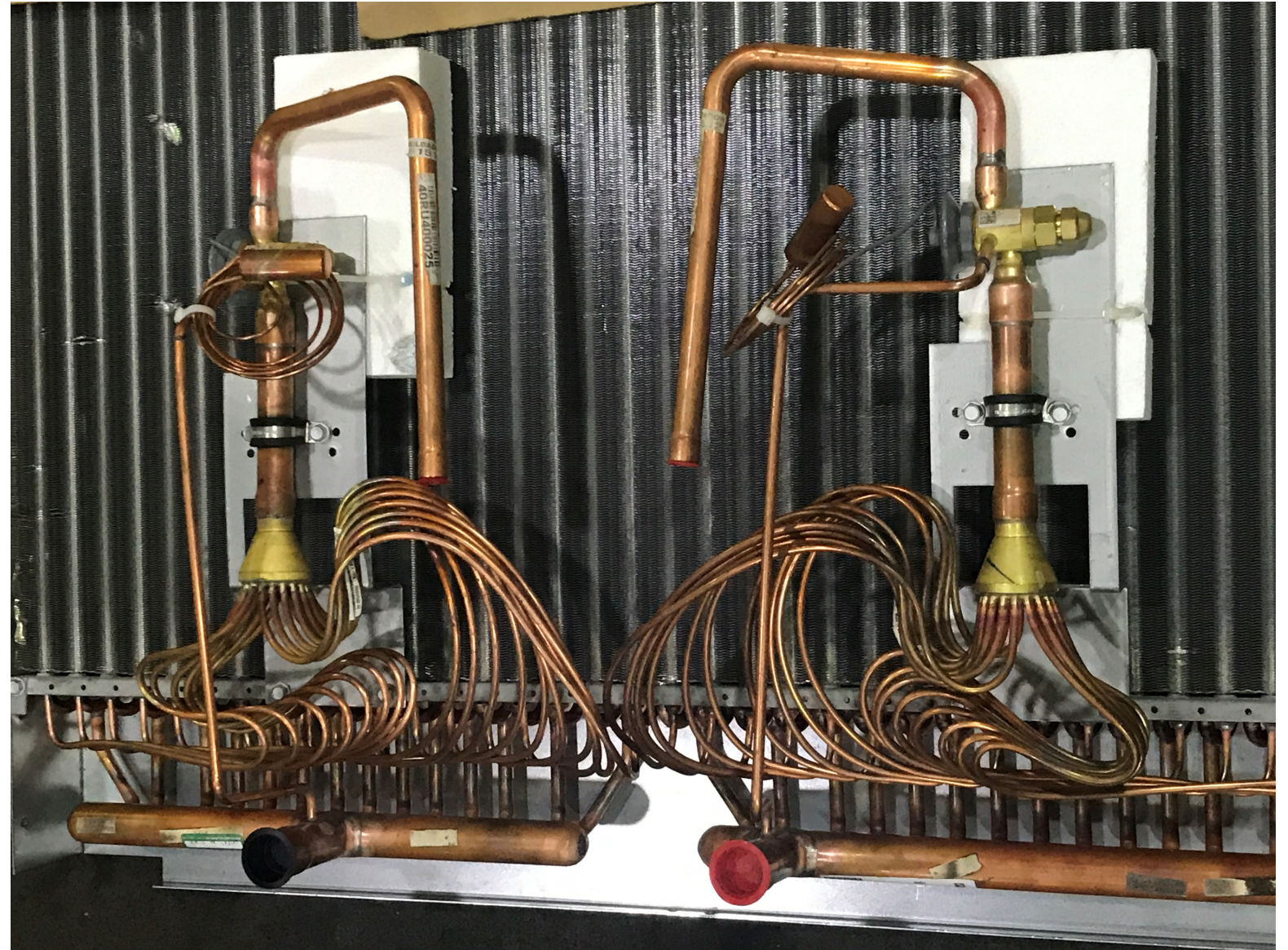




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# Types of coils

DX: EVAPORATOR





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# Coatings

- Many coating options available in the market.
- Dipping vs spray
- Solvent based coatings
- Water based coatings

**THERMOGUARD**

**ENERGY GUARD**  
USA

**HERESITE**<sup>®</sup>  
PROTECTIVE COATINGS, LLC

Insitu<sup>®</sup> coil and cabinet  
protection

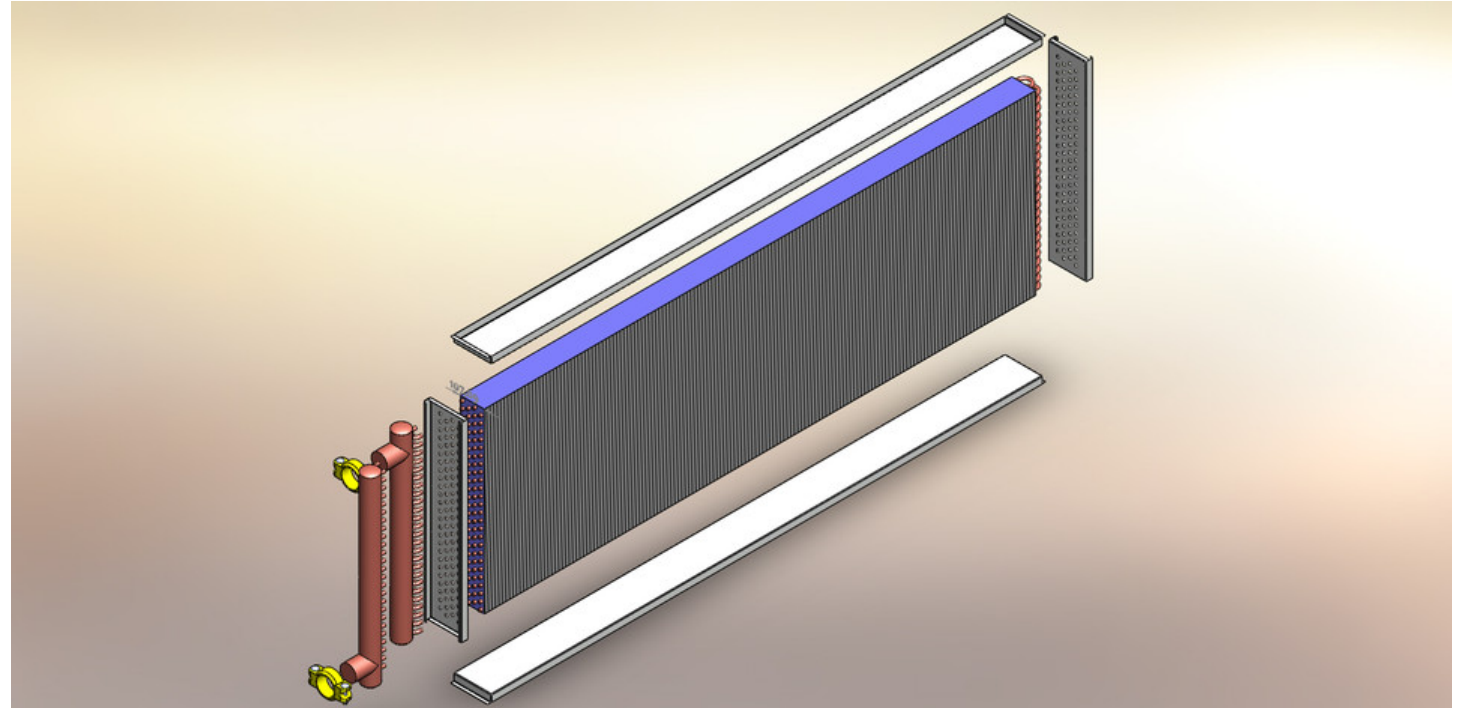
by **LUVATA**



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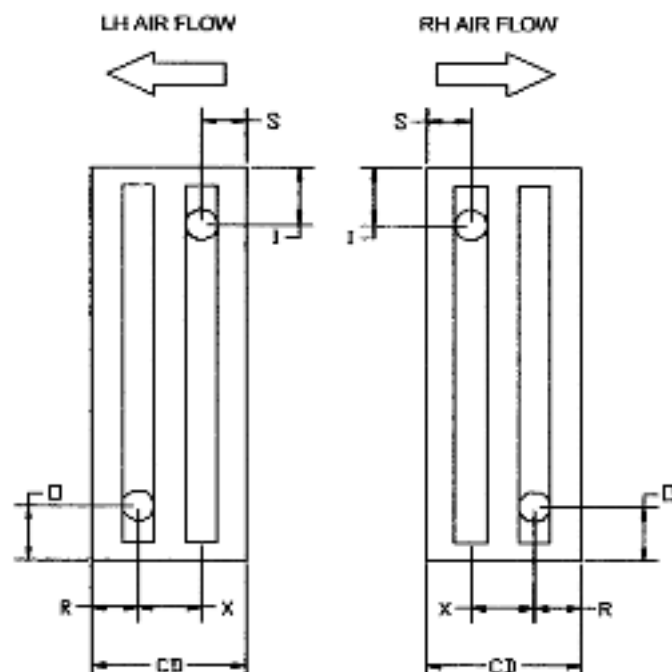
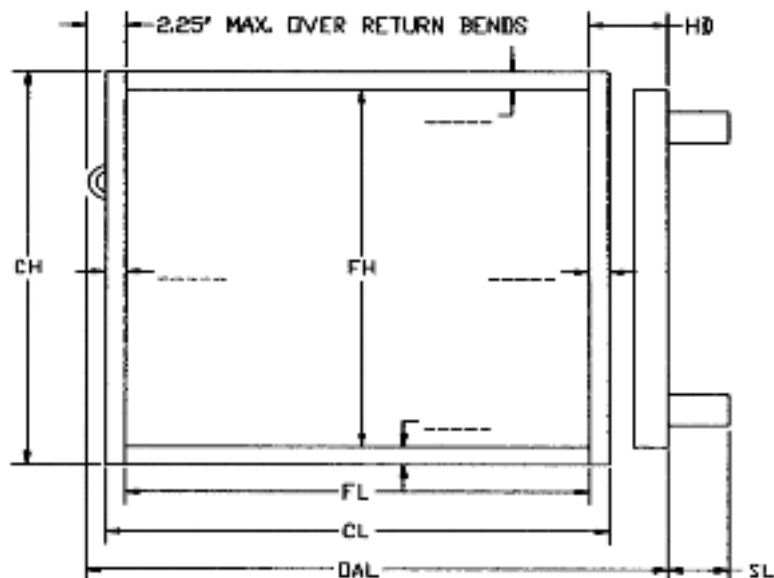
# How to measure coils?

- Length of coil
- Height of the fin
- Number of rows
- Tube diameter
- Frame measurements
- Manifold diameter





# FLUID COIL



TUBE SUPPORTS REQUIRED  YES  NO

## MATERIAL LIST

TUBES

3/8"  1/2"  5/8"

Al FINS  none  Cu FINS  none

.010

CASING  Galv.  3S HEADERS  Type L Cu  Other

3S

SUPPLY RETURN

DIA: \_\_\_\_\_" DIA: \_\_\_\_\_"

ALL DIMENSIONS IN INCHES

ITEM	QTY	ROWS	FPI	FH	FL	CH	CL	CD	HD	DAL	SL	X	SUPPLY		RETURN	
													O	R	I	S

NOTES:



info@core.com.do  
santamaria@core.com.do

CUSTOMER

W.O.

MODEL

P.O.#

INDUSTRIAL FIN LENGTH



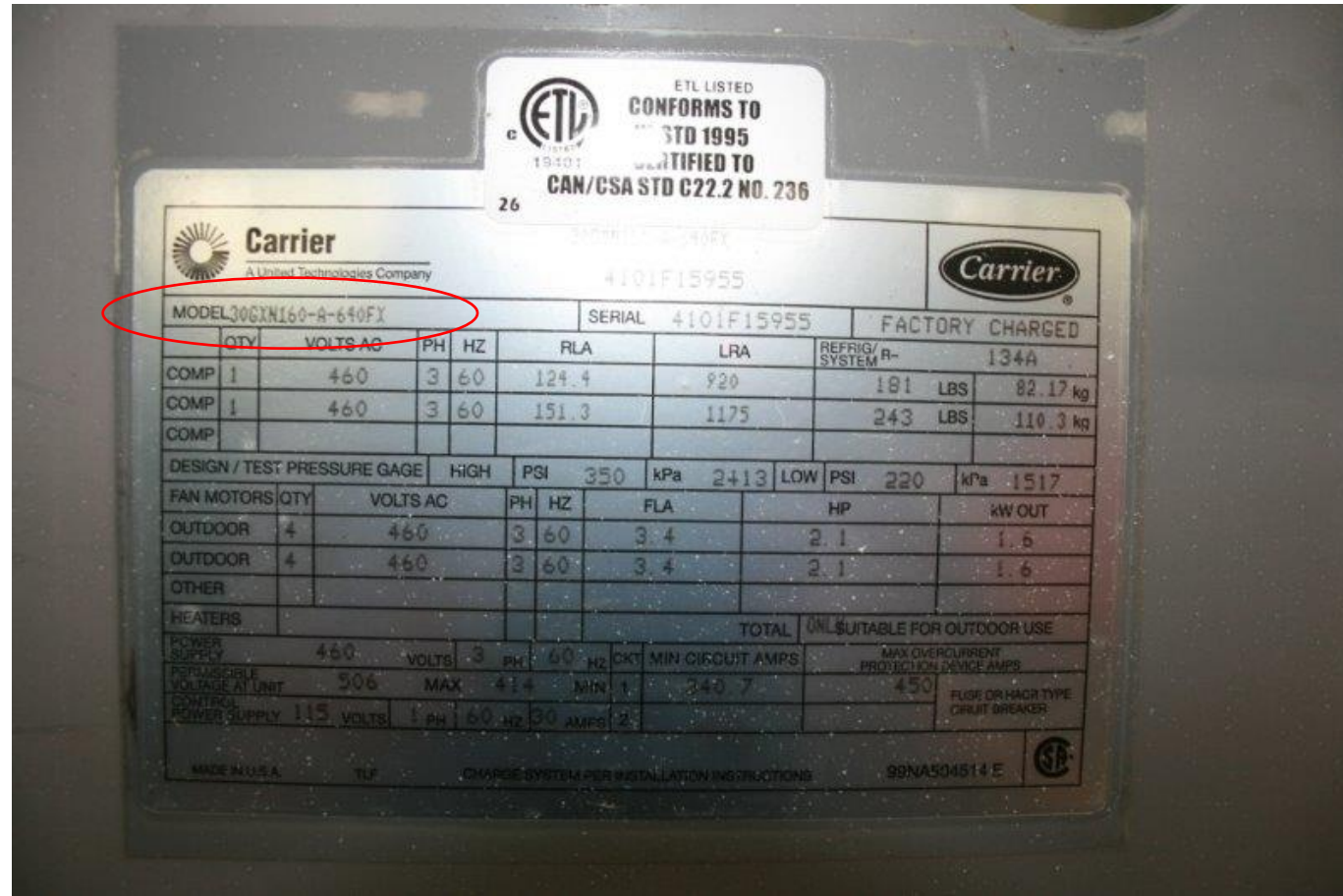
# How to get a quote?

- A/C model number helps.
  1. Finned length.
  2. Fin height.
  3. Number of rows.
  4. Tube diameter: usually 3/8", 1/2" or 5/8"
- A picture is worth more than a thousand words.



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# A/C Model - Tag





# A/C Model - Tag

**Carrier**  
A United Technologies Company

**MODEL** 30XAB1626N-0C033

**SERIAL** 0211091813

Compressors						Refrigerant/System				Test Pressure (Gage)	
Qty	Volts AC	PH	Hz	FLA	LPA	CKT	lbs	kg			
1	460	3	60	154.6	382/1190	A	201	91.2	R-134		
1	460	3	60	86.4	174/545	B	126	57.1	Hi 350 PSI (2,413 kPa)		
Lo 220 PSI (1,515 kPa)											

Fan/Aux Motors		Qty	Volts AC	PH	Hz	FLA	HP	KW
Outdoor		10	460	3	60	3.0	1.80	1.40

Main Power Supply		Max	Min	Fuse or					
CKT	Volts AC	PH	HZ	Volts	Volts	MCA *	MOCP *	HACR	BRKR
1	460	3	60	506	414	309.7	450		
2									

Control Power Supply		Volts	PH	Hz	MCA & MOCP	Fuse or
		115	1	60	60	BRKR

\*MCA = Min Circuit Amps per UL 1995  
\*MOCP = Max Over Current Protective Device Amps per UL 1995

Run Test Scan

30XAB1626N-0C033 Assembled in USA with domestic and globally sourced components  
Suitable for Outdoor Use ONLY Charge System per Installation instructions

**Control Panel Short Circuit Current Rating: 5 kA RMS symmetrical**  
30HX04281 Rev. 2.0

Any questions?



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Contact information

Rafael Taveras

[r.taveras@core.com.do](mailto:r.taveras@core.com.do)

1-809-383-9383