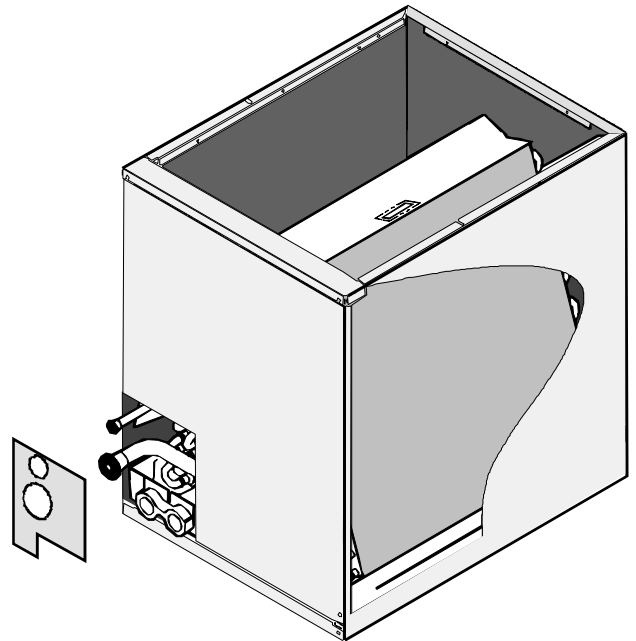
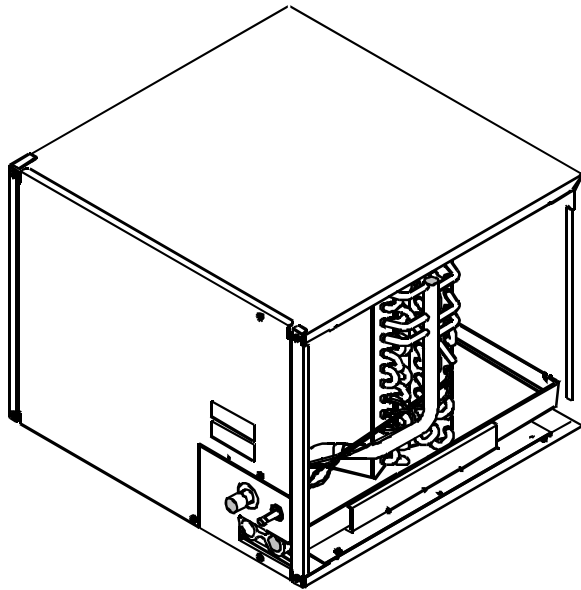


Technical Information

CCA, CCD, CCF, CHF, CHA, CCH, CHH Coils

- Refer to Service Manual RS6200003 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.



This manual is to be used by qualified HVAC technicians only. Amana does not assume any responsibility for property damage or personal injury for improper service procedures done by an unqualified person.

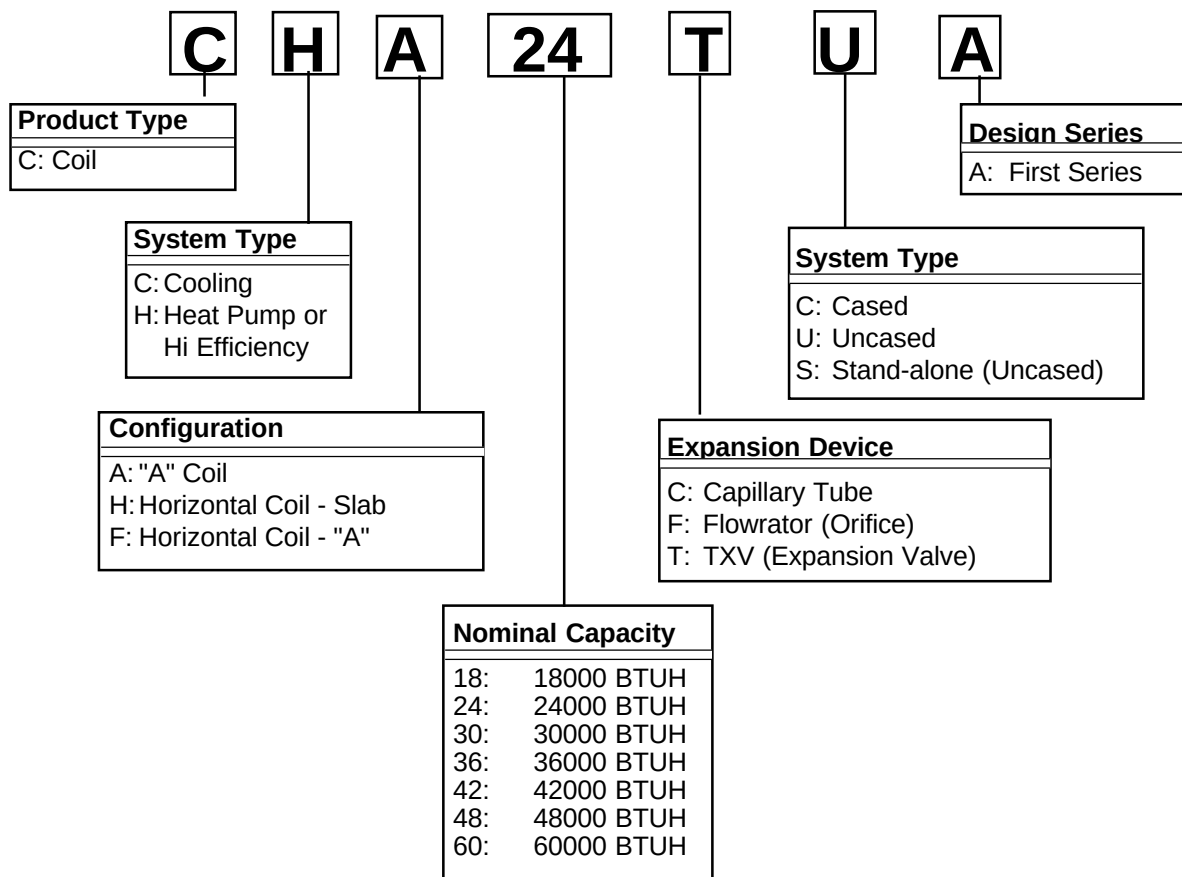
Amana[®]
Heating • Air Conditioning
BUILT BETTER THAN IT HAS TO BE™

RT6231002
June 1999

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. At which time engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.



WARNING

IF REPAIRS ARE ATTEMPTED BY UNQUALIFIED PERSONS, DANGEROUS CONDITIONS (SUCH AS EXPOSURE TO ELECTRICAL SHOCK) MAY RESULT. THIS MAY CAUSE SERIOUS INJURY OR DEATH.



CAUTION

AMANA WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU PERFORM SERVICE ON YOUR OWN PRODUCT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT.

PRODUCT IDENTIFICATION

<u>MODEL</u>	<u>M/N</u>
CCA18FUA	P1111004C
CCA30FUA	P1111005C
CCA36FUA	P1111001C
CCA42FUA	P1111002C
CCA60FUA	P1111007C
CCA18FCC	P1203901C
CCA24FCC	P1203902C
CCA30FCC	P1203903C
CCA36FCC	P1203904C
CCA42FCC	P1203905C
CCA48FCC	P1203906C
CCA54FCC	P1203907C
CCA57FCC	P1203908C
CCA60FCC	P1203909C
CCA30FDC	P1203910C
CCA36FDC	P1203911C
CCA42FDC	P1203912C
CCA48FDC	P1203913C
CCD16A22	P1203914C
CCD20A22	P1203915C
CCD24A26	P1203916C
CCA36FKC	P1203917C
CCA18FSC	P1204001C
CCA24FSC	P1204002C
CCA30FSC	P1204003C
CCA36FSC	P1204004C
CCA42FSC	P1204005C
CCA48FSC	P1204006C
CCA54FSC	P1204007C
CCA57FSC	P1204008C
CCA60FSC	P1204009C

<u>MODEL</u>	<u>M/N</u>
CCF24FCC	P1210901C
CCF30FCC	P1210902C
CCF36FCC	P1210903C
CCF42FCC	P1210904C
CCF48FCC	P1210905C
CCF60FCC	P1210906C
CCF61FCC	P1210907C
CCF24FDC	P1210908C
CCF36FDC	P1210909C
CCF48FDC	P1210910C
CHF18TCC	P1210911C
CHF24TCC	P1210912C
CHF30TCC	P1210913C
CHF36TCC	P1210914C
CHF42TCC	P1210915C
CHF48TCC	P1210916C
CHA18TUA	P1124901C
CHA24TUA	P1124902C
CHA30TUA	P1124903C
CHA36TUA	P1124904C
CHA42TUA	P1124905C
CHA48TUA	P1124906C
CHA57TUA	P1124907C
CHA60TUA	P1124908C
CHA18TCC	P1203801C
CHA24TCC	P1203802C
CHA30TCC	P1203803C
CHA36TCC	P1203804C
CHA42TCC	P1203805C
CHA48TCC	P1203806C
CHA54TCC	P1203807C
CHA57TCC	P1203808C
CHA60TCC	P1203809C

<u>MODEL</u>	<u>M/N</u>
CHA18TSC	P1204101C
CHA24TSC	P1204102C
CHA30TSC	P1204103C
CHA36TSC	P1204104C
CHA42TSC	P1204105C
CHA48TSC	P1204106C
CHA54TSC	P1204107C
CHA57TSC	P1204108C
CHA60TSC	P1204109C
CCH24FCC	P1203301C
CCH30FCC	P1203302C
CCH36FCC	P1203303C
CCH48FCC	P1203305C
CCH60FCC	P1203306C
CCH24FCD	P1210101C
CCH30FCD	P1210102C
CCH36FCD	P1210103C
CCH48FCD	P1210105C
CCH60FCD	P1210106C
CHH24TCC	P1203501C
CHH30TCC	P1203502C
CHH36TCC	P1203503C
CHH48TCC	P1203505C
CHH60TCC	P1203506C
CHH24TCD	P1210107C
CHH30TCD	P1210108C
CHH36TCD	P1210109C
CHH48TCD	P1210110C

PRODUCT DESIGN

COILS

Amana CCA, CHA, CCH, CHH, CCF, and CHF coils are designed to be installed with a furnace or air handler unit and matched with Amana's condensing units to provide high efficiency heating and cooling. Thermal expansion valves on the CCA_T, CHA_T, CHH, and CHF coils and restrictor orifices on the CCA_F, CCH, and CCF coils and BHA_F blower coils give accurate refrigerant control and provide reliable operation over a wide range of conditions.

Amana CCA and CHA "A" coils are designed for upflow and counterflow operation. The CCH and CHH slab coils, and the CCF and CHF cased "A" coils are designed for horizontal applications.

The CCA_T, CHA_T, CHH, and CHF units along with BCA_T blower cabinets include non-bleed thermal expansion valves.

CCA30FA and CCA60FUA coils have restrictors factory-installed for 2-1/2-ton and 5-ton applications. Applications with the 2-ton and 4-ton require a change in the restrictor.

Either the BBA or BBC blower section can be attached to a CCA_FC_, CHA_TC_, or CHF_TC_ cased evaporator coil. BBA and BBC blower cabinets are designed as a two-piece blower coil. This two piece arrangement allows for a variety of mix-matching possibilities providing greater flexibility.

Note: To avoid poor operation and/or equipment damage, any single-phase reciprocating compressor used with an expansion valve coil must include hard start components.

ORIFICE SIZE CHARTS

"A" COIL	ORIFICE SIZE
CCA18FUA	0.051
CCA30FUA	0.063
CCA36FUA	0.069
CCA42FUA	0.073
CCA60FUA	0.092
CCA18F*C	0.051
CCA24F*C	0.055
CCA30F*C	0.063
CCA36F*C	0.068
CCA42F*C	0.073
CCA48F*C	0.081
CCA54F*C	0.081
CCA57F*C	0.092

HORIZONTAL COIL	ORIFICE SIZE
CCF24F*C	0.061
CCF30FCC	0.063
CCF36F*C	0.071
CCF42FCC	0.076
CCF48F*C	0.081
CCF60FCC	0.098

HORIZONTAL COIL	CCH-FCC AeroQuip Orifice size	CCH-FCD Chatleff Orifice Size
CCH24F	0.054	0.055
CCH30F	0.063	0.063
CCH36F	0.069	0.068
CCH48F	0.081	0.081
CCH60F	0.092	0.092

NOTE: Restrictor orifice size should always be matched to the OD unit being used.

Suction line accumulators are used on outdoor units with reciprocating compressors for additional protection for the compressor. The object of the accumulator is to:

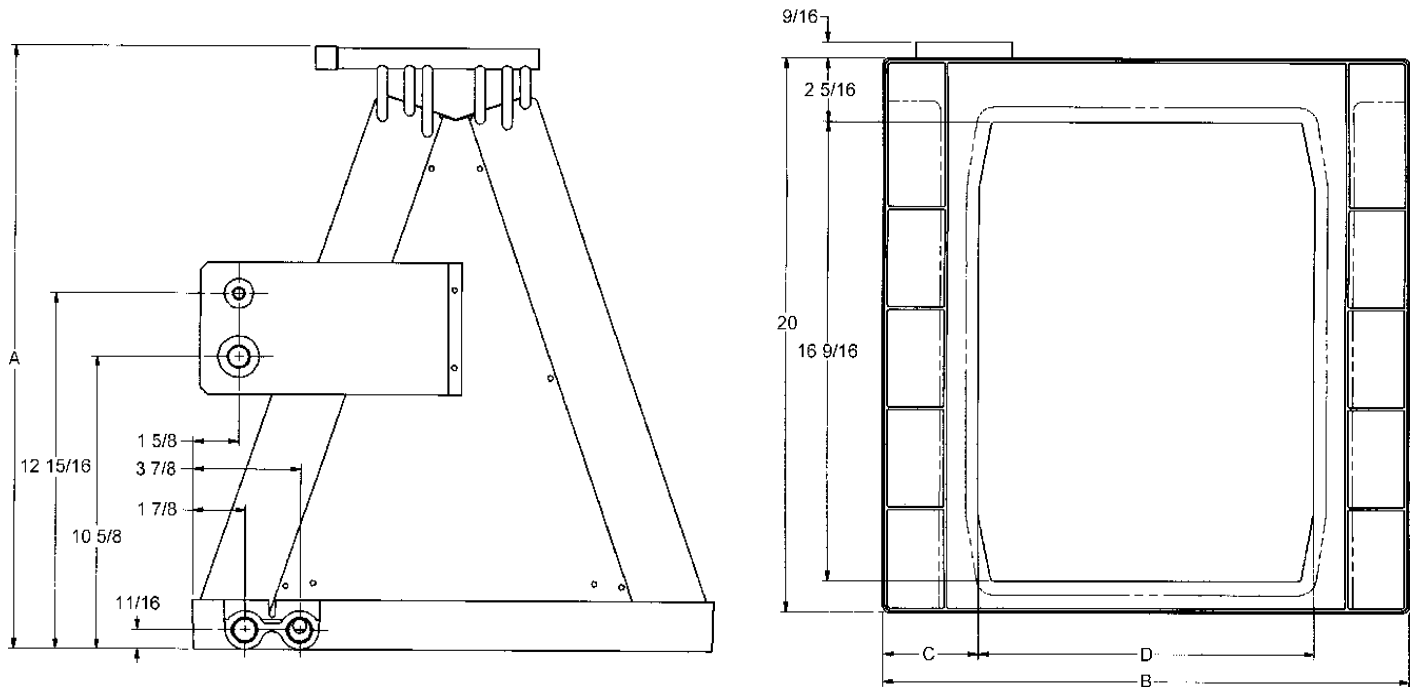
1. Provide a liquid refrigerant storage vessel during prolonged system off cycles.
2. Store excess liquid refrigerant not needed by the system while running.
3. Return oil and saturated vapor to the compressor at a controlled rate.
4. Retain stored excess refrigerant during a sudden system pressure fluctuation such as seen in defrost cycles.

CCA_FUA & CHA_TUA

"A" COIL SPECIFICATIONS

MODEL	CCA18FUA CHA18TUA	CCA30FUA	CCA36FUA CHA24,30,36 TUA	CCA42FUA CHA42TUA	CHA48TUA CHA57TUA CCA60FUA	CHA60TUA
EVAPORATOR COIL Face Area (sq. ft.)	3.8	4.7	4.7	4.7	5.6	6.1
Rows Deep	2	2	3	3	3	4
Fins/Inch	14	14	14	14	14	12
DRAIN LINE SIZE	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT
AUX. DRAIN SIZE	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT
HOLDING CHARGE			NITROGEN CHARGE			
REFRIGERATION LINE CONNECTIONS *	3/8" LIQ 5/8" VAPOR	3/8" LIQ 3/4" VAPOR	3/8" LIQ 3/4" VAPOR	3/8" LIQ 7/8" VAPOR	3/8" LIQ 7/8" VAPOR	3/8" LIQ 7/8" VAPOR
APPROXIMATE SHIPPING WEIGHT	26 lbs	35 lbs	35 lbs	37 lbs	68 lbs	66 lbs

* See OD unit spec sheet for proper line size. Installer may have to provide adapter.



MODEL	DIMENSION			
	A	B	C	D
CHA18TUA CCA18FUA	18 1/4	15	3 7/16	8 1/8
CHA24TUA CCA30FUA CHA30TUA CCA36FUA CHA36TUA	21 15/16	15	3 7/16	8 1/8
CHA42TUA CCA42FUA	21 15/16	19	3 7/16	12 1/8
CHA48TUA CHA57TUA CCA60FUA	27 3/8	23	4 1/4	14 9/16
CCA60TUA	27 13/16	23	4 1/4	14 9/16

CCA_TCA & CCA_TCB

CASED COIL SPECIFICATIONS

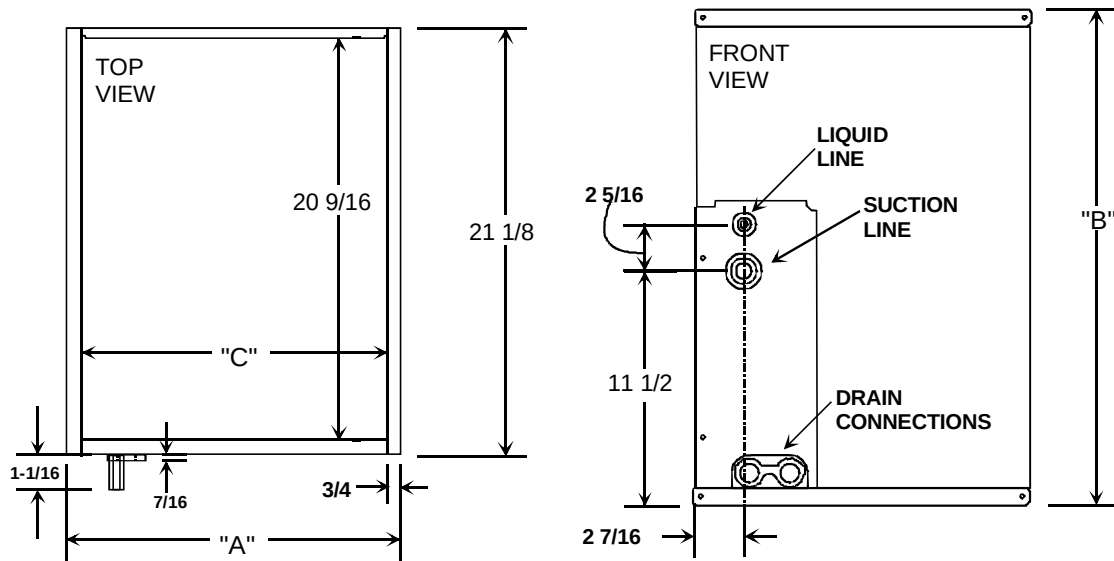
CCA_TCA & CCA_TCB Cased Coil Specifications

MODEL	CCA18TCA CCA18TCB	CCA24TCA CCA24TCB	CCA30/36TCA/B CCA30/36TDB	CCA42TCA CCA42TCB CCA42TDB	CCA48TCA CCA48TCB	CCA60TCA CCA60TCB
EVAPORATOR COIL Face Area (sq. ft.)	3.8	4.7	4.7	4.7	5.2	6.1
Rows Deep	2	2	3	3	3	4
Fins/Inch	14	14	14	14	14	12
DRAIN LINE SIZE	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT
AUX. DRAIN SIZE	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT	3/4 FPT
HOLDING CHARGE	NITROGEN CHARGE					
REFRIGERATION LINE CONNECTIONS (A Mdl) (B Mdl)	3/8" LIQ 3/4" VAPOR *	3/8" LIQ 3/4" VAPOR *	3/8" LIQ 3/4" VAPOR	3/8" LIQ 3/4" VAPOR **	3/8" LIQ 3/4" VAPOR **	3/8" LIQ 7/8" VAPOR***
	5/8" VAPOR	5/8" VAPOR	3/4" VAPOR	7/8" VAPOR	7/8" VAPOR	7/8" VAPOR***
APPROXIMATE SHIPPING WEIGHT	40 lbs	44 lbs	43 lbs	61 lbs	68 lbs	95 lbs

* Unit is rated with 5/8" suction line. Installer should supply 5/8" - 3/4" adapter

** Unit is rated with 7/8" suction line. Installer should supply 3/4" - 7/8" adapter

*** Unit is rated with 1-1/8" suction line. Installer should supply 7/8" - 1-1/8" adapter



CASED COIL DIMENSIONS

MODEL	DIMENSION		
	A	B	C
CCA18TCA/B CCA24TCA/B CCA30TCA/B CCA36TCA/B	16 9/16	25	15 1/16
CCA30TDB CCA36TDB CCA42TCA/B	20 9/16	25	19 1/16
CCA42TDB CCA48TCA/B CCA60TCA/B	24 9/16	30	23 1/16

CCA_FCC, FDC & CHA_TCC CASED COIL SPECIFICATIONS

CCA--FCC & CHA--TCC Cased A-Coil Specifications

MODEL	CCA18FCC	CCA24FCC CHA18TCC	CCA30FCC CHA24TCC CCA30FDC	CCA36FCC CHA30TCC CCA36FDC	CCA42FCC CHA36TCC CCA42FDC
Evaporator Coil					
Face Area (Sq. Ft.)	2.81	2.81	3.75	3.75	4.22
Rows	2	3	2	3	3
FPI	16	14	16	14	13
Drain Connections					
Primary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Auxiliary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Refrig. Line Connection					
Liquid*	3/8"	3/8"	3/8"	3/8"	3/8"
Vapor*	5/8"	5/8"	3/4"	3/4"	7/8"
Approx. Shipping Weight	34	39	43 46 (FDC)	50 53 (FDC)	54 57 (FDC)

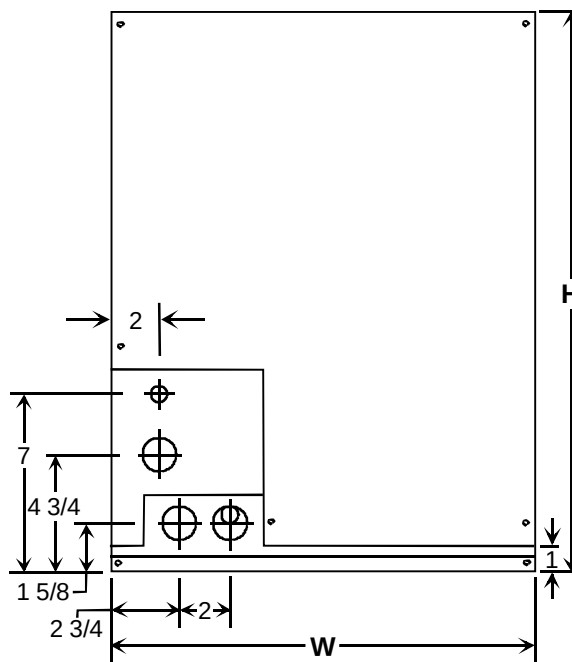
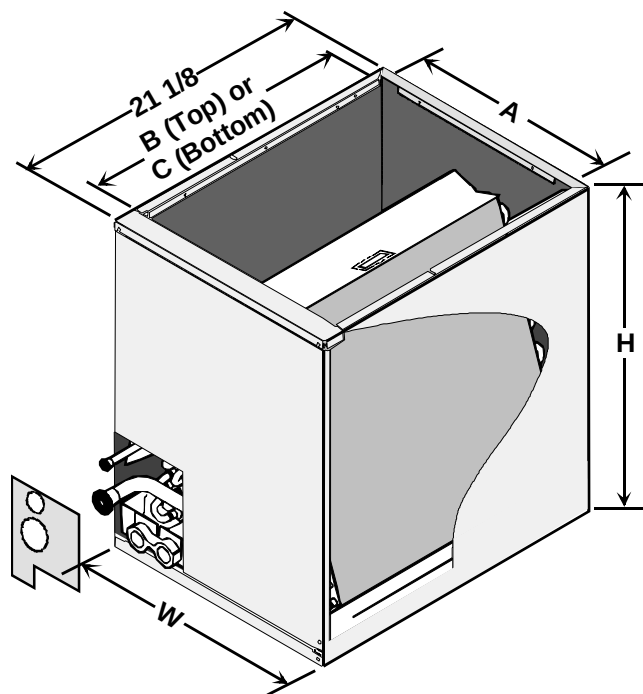
* Refer to Outdoor Unit "Specification Sheet" for proper refrigeration line sizes. Installer may need to supply adapter.

CCA--FCC & CHA--TCC Cased A-Coil Specifications

MODEL	CCA48FCC CHA42TCC CCA48FDC	CCA54FCC CHA48TCC	CCA57FCC CHA54TCC	CCA60FCC CHA57TCC	CHA60TCC
Evaporator Coil					
Face Area (Sq. Ft.)	4.69	5.16	5.16	5.63	5.63
Rows	3	2	3	3	4
FPI	13	16	11	11	10
Drain Connections					
Primary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Auxiliary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Refrig. Line Connection					
Liquid*	3/8"	3/8"	3/8"	3/8"	3/8"
Vapor*	7/8"	7/8"	7/8"	7/8"	7/8"
Approx. Shipping Weight	58 62 (FDC)	64	71	73	89

* Refer to Outdoor Unit "Specification Sheet" for proper refrigeration line sizes. Installer may need to supply adapter.

CCA_FCC, FDC & CHA_TCC CASED COIL SPECIFICATIONS



Cabinet Width (W)	A-Coil Model		Coil Cases	Cabinet Height (H)	Supply Air Opening (A x B)	Return Air Opening (A x C)
	(CCA--F*C)	(CHA--TCC)				
Small (16 1/2)	CCA18FCC			14 1/4	15 x 18 3/4	15 x 20 3/16
	CCA24FCC	CHA18TCC		18 1/4		
	CCA30FCC	CHA24TCC		22 1/4		
	CCA36FCC	CHA30TCC				
	CCA42FCC	CHA36TCC	CCD16A22			
Medium (20 1/2)	CCA30FDC			22 1/4	19 x 18 3/4	19 x 20 3/16
	CCA36FDC		CCD20A22			
	CCA42FDC					
	CCA48FCC	CHA42TCC				
Large (24 1/2)	CCA36FKC			26 1/4	23 x 18 3/4	23 x 20 3/16
	CCA48FDC					
	CCA54FCC	CHA48TCC				
	CCA57FCC	CHA54TCC	CCD24A26			
	CCA60FCC	CHA57TCC				
		CHA60TCC				

CCA_FSC & CHA_TSC

"A" COIL SPECIFICATIONS

CCA--FSC & CHA--TSC Uncased A-Coil Specifications

MODEL	CCA18FSC	CCA24FSC CHA18TSC	CCA30FSC CHA24TSC	CCA36FSC CHA30TSC	CCA42FSC CHA36TSC
Evaporator Coil					
Face Area (Sq. Ft.)	2.81	2.81	3.75	3.75	4.22
Rows	2	3	2	3	3
FPI	16	14	16	14	13
Drain Connections					
Primary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Auxiliary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Refrig. Line Connection					
Liquid*	3/8"	3/8"	3/8"	3/8"	3/8"
Vapor*	5/8"	5/8"	3/4"	3/4"	7/8"
Approx. Shipping Weight	20	21	24	31	35

* Refer to Outdoor Unit "Specification Sheet" for proper refrigeration line sizes. Installer may need to supply adapter.

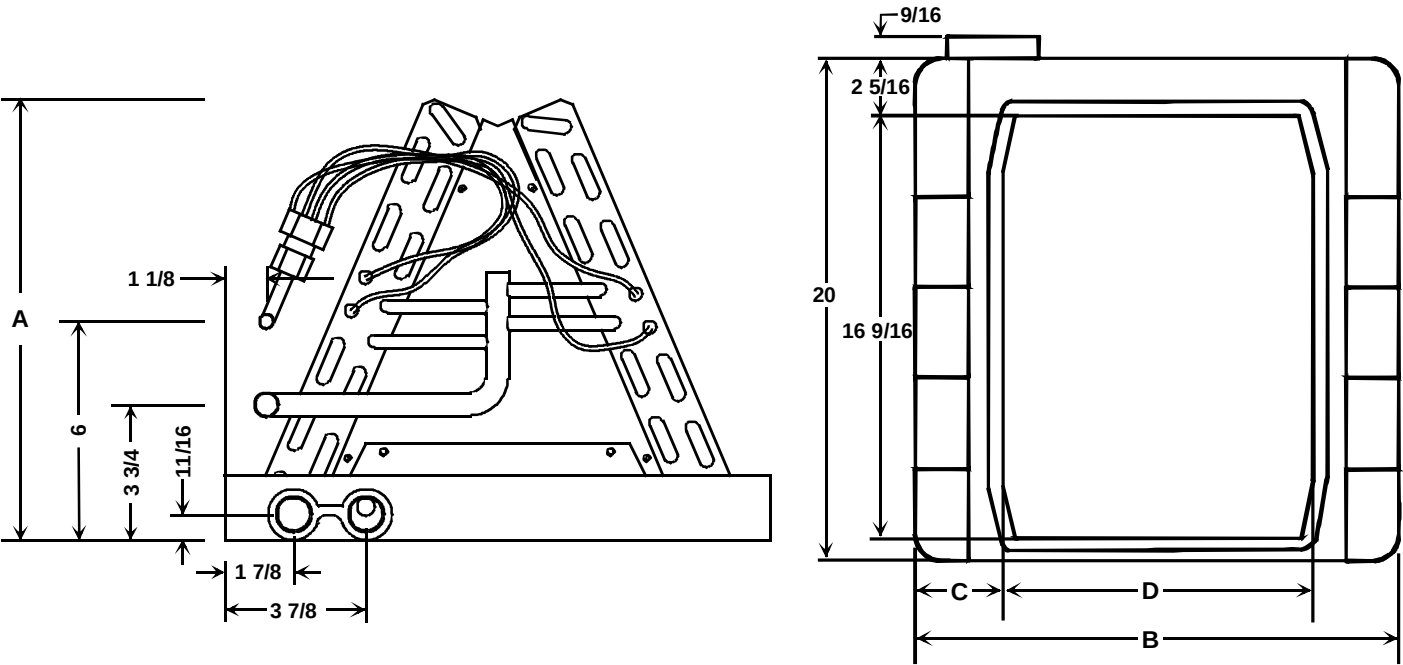
CCA--FSC & CHA--TSC Uncased A-Coil Specifications

MODEL	CCA48FSC CHA42TSC	CCA54FSC CHA48TSC	CCA57FSC CHA54TSC	CCA60FSC CHA57TSC	CHA60TSC
Evaporator Coil					
Face Area (Sq. Ft.)	4.69	5.16	5.16	5.63	5.63
Rows	3	2	3	3	4
FPI	13	16	11	11	10
Drain Connections					
Primary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Auxiliary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Refrig. Line Connection					
Liquid*	3/8"	3/8"	3/8"	3/8"	3/8"
Vapor*	7/8"	7/8"	7/8"	7/8"	7/8"
Approx. Shipping Weight	36	38	45	47	56

* Refer to Outdoor Unit "Specification Sheet" for proper refrigeration line sizes. Installer may need to supply adapter.

CCA_FSC & CHA_TSC

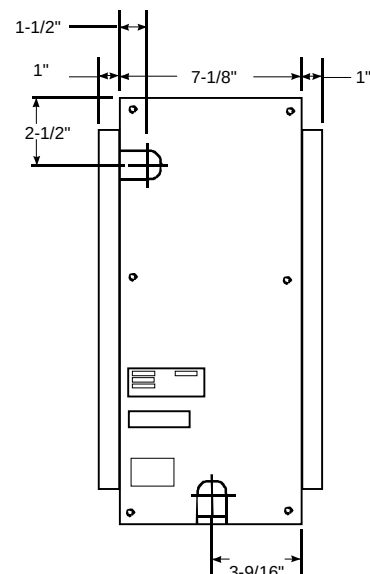
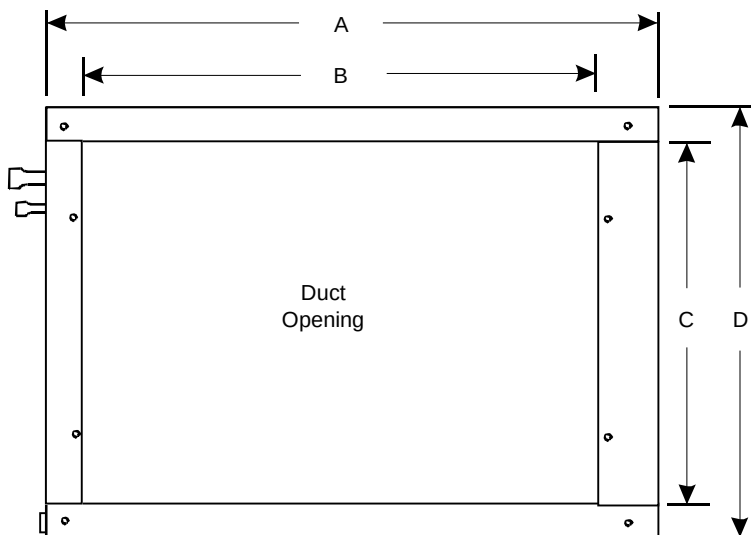
"A" COIL SPECIFICATIONS



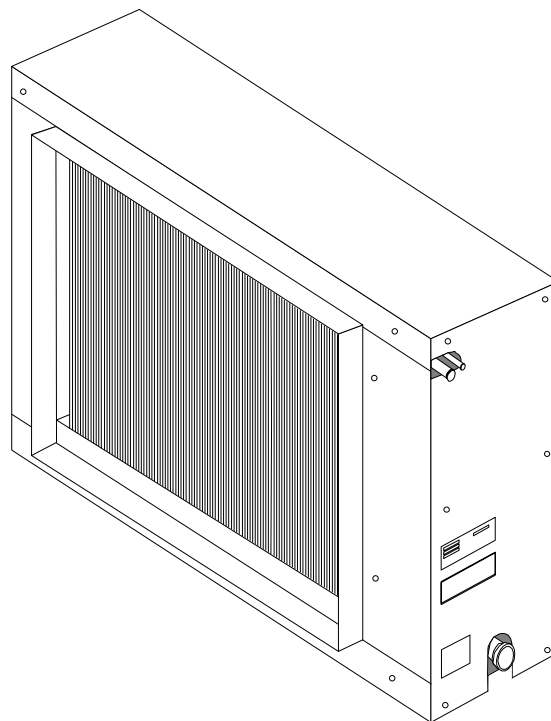
MODEL		DIMENSIONS (inches)			
		A	B	C	D
CCA18FSC		12 1/4	15	3 7/16	8 1/8
CCA24FSC	CHA18TSC	12 1/2			
CCA30FSC	CHA24TSC	16 1/4			
CCA36FSC	CHA30TSC	16 1/2			
CCA42FSC	CHA36TSC	18 5/8			
CCA48FSC	CHA42TSC	20 1/4	19	3 7/16	12 1/8
CCA54FSC	CHA48TSC	21 5/8	23	4 1/4	14 9/16
CCA57FSC	CHA54TSC	22			
CCA60FSC	CHA57TSC	24			
	CHA60TSC	24 3/8			

CCH-F & CHH-T

HORIZONTAL COIL SPECIFICATIONS



HORIZONTAL CASED COIL DIMENSIONS		
MODEL	CCH(24-36)F CHH(24-36)T	CCH(48-60)F CHH(48-60)T
A	30 1/2	34 1/2
B	25	29
C	19	23
D	21 1/2	25 1/2



CONNECTION SIZES AND WEIGHTS					
MODEL	CCH24F CHH24T	CCH30F CHH30T	CCH36F CHH36T	CCH48F CHH48T	CCH60F CHH60T
Drain Line Size	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Refrigerant Line Connections	3/8" Liq.	3/8" Liq.	3/8" Liq.	3/8" Liq.	3/8" Liq.
	5/8" Suct.	3/4" Suct.	3/4" Suct.	7/8" Suct.	7/8" Suct.*
Approx. Ship Wgt.	38	44	44	60	65

*Unit is rated with 1-1/8" suction line.

CCF-F & CHF-T

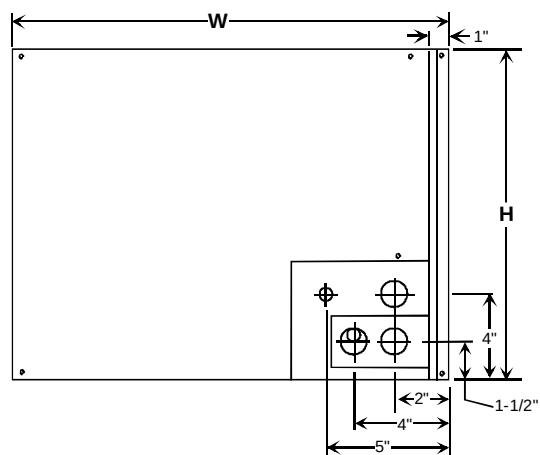
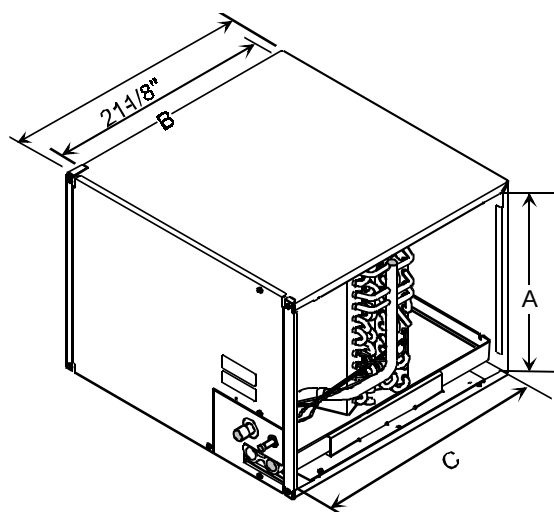
HORIZONTAL COIL SPECIFICATIONS

MODEL	CCF24 FCC	CCF24 FDC	CCF30 FCC	CCF36 FCC	CCF36 FDC	CCF42 FCC	CCF48 FCC	CCF48 FDC	CCF60 FCC
Evaporator Coil									
Face Area (Sq. Ft.)	3.6	4.56	3.55	3.55	4.56	4.56	4.56	5.58	5.58
Rows	2	2	3	3	3	3	3	3	3
FPI	16	16	14	13	13	14	14	14	14
Orifice Size ¹	0.061"	0.061"	0.063"	0.071"	0.071"	0.076"	0.081"	0.081"	0.098"
Drain Connections									
Primary, Auxiliary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Refrigeration Line Connection									
Liquid ²	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Vapor ²	5/8"	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"
Approx. Shipping Weight (lbs)	41	44	48	48	51	56	56	59	72

MODEL	CHF18 TCC	CHF24 TCC	CHF30 TCC	CHF36 TCC	CHF42 TCC	CHF48 TCC
Evaporator Coil						
Face Area (Sq. Ft.)	3.6	3.55	3.55	4.56	4.56	5.58
Rows	2	3	3	3	3	3
FPI	16	14	13	14	14	14
Drain Connections						
Primary, Auxiliary	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Refrigeration Line Connection						
Liquid ²	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Vapor ²	5/8"	5/8"	3/4"	7/8"	7/8"	7/8"
Approx. Shipping Weight (lbs)	56	56	59	56	59	72

¹ Orifice shipped with coil. When mixmatching, orifice size to be specified by outdoor unit.

² Refer to Outdoor Unit "Specification Sheet" for proper refrigeration line sizes. Installer may need to supply adapter.



Dimensions					
Cabinet Width	Horizontal-Coil Model		Cabinet Height	Left Air Opening	Right Air Opening
(W)	(CCA-F*C)	CHF**TCC	(H)	(AxB)	(AxC)
Small (22 1/4)	CCF24FCC CCF30FCC CCF36FCC	CHF18TCC CHF24TCC CHF30TCC	16 1/2	15 X 18 3/4	15 X 20 3/16
Medium (22 1/4)	CCF24FDC CCF36FDC CCF42FCC CCF48FCC	CHF36TCC CHF42TCC	20 1/2	19 X 18 3/4	19 X 20 3/16
Large (26 1/4)	CCF48FDC CCF60FCC	CHF48TCC	24 1/2	23 X 18 3/4	23 X 20 3/16

COIL PRESSURE DROP DATA

CHA**T*A/B & CCA**F*A STATIC PRESSURE DROP ACROSS COIL VERSUS CFM

STATIC PRESSURE DROP ACROSS COIL	CHA18T (Rated CFM, 600) CCA18F (Rated CFM, 600)		CHA24T (Rated CFM, 800) CCA30F (Rated CFM, *)		CHA30T (Rated CFM, 1050) CHA36T (Rated CFM, 1200) CCA36F (Rated CFM, 1175)	
	WET	DRY	WET	DRY	WET	DRY
0.050	480	500	520	535	---	---
0.075	607	650	630	690	---	---
0.100	700	744	747	798	---	---
0.125	780	820	840	890	790	870
0.150	870	916	963	1002	875	994
0.175	965	1015	1050	1110	945	1095
0.200	1050	1110	1150	1223	1020	1188
0.225	1130	1190	1225	1290	1100	1260
0.250	1190	1260	1290	1305	1160	1325
0.275	---	---	---	---	1210	1395
0.300	---	---	---	---	1260	1470

STATIC PRESSURE DROP ACROSS COIL	CHA42T (Rated CFM, 1400) CCA42F (Rated CFM, 1400)		CHA48T (Rated CFM, 1650) CCA60F (Rated CFM, **)		CHA60T (Rated CFM, 1850)	
	WET	DRY	WET	DRY	WET	DRY
0.125	900	1050	---	---	---	---
0.150	977	1211	---	---	---	---
0.175	1080	1320	1525	1700	1460	1525
0.200	1140	1438	1610	1885	1550	1690
0.225	1275	1590	1680	1975	1600	1800
0.250	1330	1700	1750	2020	1625	1900
0.275	1400	1760	1800	2100	1740	2005
0.300	1475	1840	1850	2175	1800	2100

COIL PRESSURE DROP DATA

CCA--FSC Air Flow Data - Static Pressure Drop Across Coil										
ΔP	CCA18FSC		CCA24FSC		CCA30FSC		CCA36FSC		CCA42FSC	
(in. w.c.)	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
0.050	310	330	350	300						
0.075	455	425	440	380						
0.100	600	520	530	460	850	600	780	640	750	600
0.125	675	590	605	520	965	680	895	730	890	710
0.150	750	660	680	580	1080	760	1010	820	1030	820
0.175	825	720	745	630	1180	825	1105	900	1120	895
0.200	900	780	810	680	1280	890	1200	980	1210	970
0.225		835	865	730	1355	955	1275	1040	1330	1065
0.250		890	920	780	1430	1020	1350	1100	1450	1160
0.275			970	820	1510	1060	1420	1155	1555	1245
0.300			1020	860	1590	1100	1490	1210	1660	1330

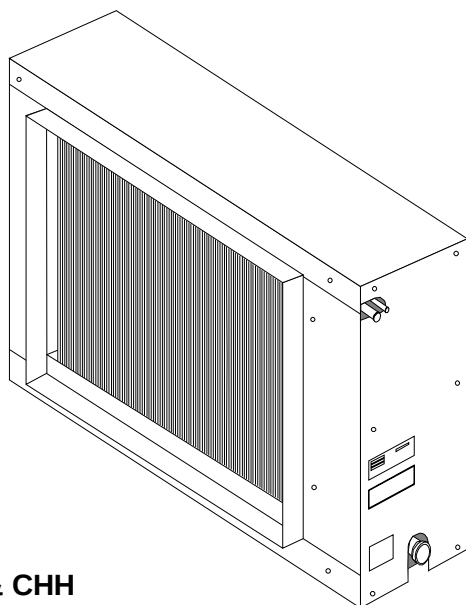
CCA--FSC Air Flow Data - Static Pressure Drop Across Coil								
ΔP	CCA48FSC		CCA54FSC		CCA57FSC		CCA60FSC	
(in. w.c.)	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
0.050								
0.075								
0.100	870	690	1170	940	1170	1030	1180	1040
0.125	1010	805	1335	1070	1315	1155	1325	1160
0.150	1150	920	1500	1200	1460	1280	1470	1280
0.175	1270	1020	1635	1310	1585	1390	1590	1405
0.200	1390	1120	1770	1420	1710	1500	1710	1530
0.225	1515	1215	1890	1515	1790	1600	1850	1630
0.250	1640	1310	2010	1610	1870	1700	1990	1730
0.275	1715	1370	2120	1695	2015	1780	2115	1825
0.300	1790	1430	2230	1780	2160	1860	2240	1920

CHA--TSC Air Flow Data - Static Pressure Drop Across Coil										
ΔP	CHA18TSC		CHA24TSC		CHA30TSC		CHA36TSC		CHA42TSC	
(in. w.c.)	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
0.050	350	300								
0.075	440	380								
0.100	530	460	850	600	780	640	750	600	870	690
0.125	605	520	965	680	895	730	890	710	1010	805
0.150	680	580	1080	760	1010	820	1030	820	1150	920
0.175	745	630	1180	825	1105	900	1120	895	1270	1020
0.200	810	680	1280	890	1200	980	1210	970	1390	1120
0.225	865	730	1355	955	1275	1040	1330	1065	1515	1215
0.250	920	780	1430	1020	1350	1100	1450	1160	1640	1310
0.275	970	820	1510	1060	1420	1155	1555	1245	1715	1370
0.300	1020	860	1590	1100	1490	1210	1660	1330	1790	1430

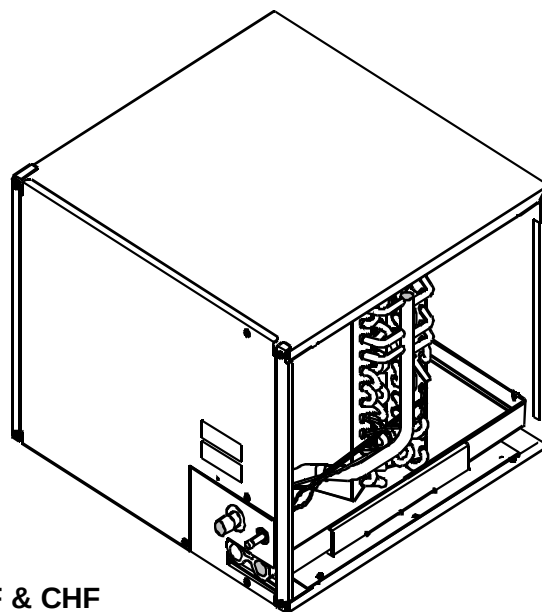
CHA--TSC Air Flow Data - Static Pressure Drop Across Coil								
ΔP	CHA48TSC		CHA54TSC		CHA57TSC		CHA60TSC	
(in. w.c.)	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
0.050								
0.075								
0.100	1170	940	1170	1030	1180	1040	1330	1190
0.125	1335	1070	1315	1155	1325	1160	1485	1330
0.150	1500	1200	1460	1280	1470	1280	1570	1420
0.175	1635	1310	1585	1390	1590	1405	1755	1585
0.200	1770	1420	1710	1500	1710	1530	1800	1620
0.225	1890	1515	1790	1600	1850	1630	1900	1715
0.250	2010	1610	1870	1700	1990	1730	2000	1810
0.275	2120	1695	2015	1780	2115	1825	2090	1905
0.300	2230	1780	2160	1860	2240	1920	2180	2000

NOTES: All measurements are in Standard CFM.

COIL PRESSURE DROP DATA



CCH & CHH



CCF & CHF

Static Pressure Drop Across Coil ΔT	CCH24F CHH24T		CCH30F CHH30T		CCH36F CHH36T		CCH48F CHH48T		CCH60F CHH60T	
	Rated CFM = 800		Rated CFM = 1000		Rated CFM = 1200		Rated CFM = 1600		Rated CFM = 1800	
	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil
0.050	427	762	---	408	---	508	---	538	---	447
0.075	641	1143	---	612	---	732	---	807	---	671
0.100	855	1524	506	816	444	955	669	1076	---	894
0.125	1069	1905	633	1020	555	1090	836	1345	---	1118
0.150	1282	2286	759	1224	666	1224	1003	1613	865	1342
0.175	1496	2667	886	1429	777	1340	1171	1882	1010	1566
0.200	1709	3048	1012	1633	888	1455	1338	2151	1154	1789
0.225	---	---	1139	1837	999	1559	1505	2420	1298	2013
0.250	---	---	1265	2041	1109	1663	1672	2689	1442	2236
0.275	---	---	1392	---	1220	1758	1840	2958	1587	2460
0.300	---	---	1518	---	1331	1853	2007	3227	1731	2683

ΔP (in. w.c.)	CCF24FCC CHF18TCC		CCF30FCC CHF24TCC		CCF36FCC CCF36FDC CHF30TCC		CCF42FCC CHF36TCC		CCF48FCC CCF48FDC CHF42TCC		CCF60FCC CHF48TCC	
	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
0.050	580	440	---	---	---	---	---	---	---	---	---	---
0.075	670	520	---	---	---	---	---	---	---	---	---	---
0.100	760	600	590	560	670	610	880	750	880	750	1070	1010
0.125	860	680	680	650	750	690	980	850	980	850	1200	1130
0.150	950	770	770	730	840	760	1080	950	1080	950	1320	1250
0.175	1030	830	830	790	910	830	1180	1030	1180	1030	1440	1350
0.200	1120	900	890	850	980	890	1270	1110	1270	1110	1550	1450
0.225	1190	960	960	910	1040	950	1350	1190	1350	1190	1650	1540
0.250	1260	1030	1030	980	1100	1000	1420	1260	1420	1260	1740	1640
0.275	1320	1090	1080	1030	1150	1050	1490	1330	1490	1330	1830	1730
0.300	1390	1140	1140	1080	1210	1100	1560	1400	1560	1400	1920	1820

NOTES: For horizontal left applications, reduce airflow 5%.