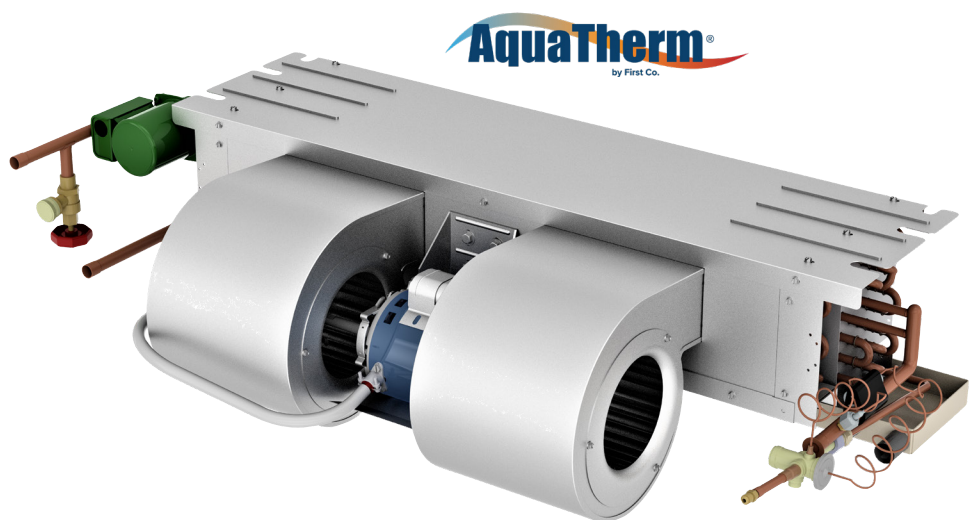


First Co.

CDX SERIES

CDXW/X • CDXQ/X • CDXR/X
Ceiling Fan Coils

Compatible with R32 and R454B
Horizontal Recessed
HW Coils, Standard Pump, Hi Flow Pump
1.5 thru 3 Tons Cooling
Up to 51,700 BTUH HW Heat



AquaTherm
by First Co.

AHRI CERTIFIED
www.ahridirectory.org

Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system
is listed with AHRI.

TABLE OF CONTENTS

NOMENCLATURE3

SERIES FEATURES4

ACCESS PANELS6

DIMENSIONS8

BLOWER DATA 10

CDXW HOT WATER COIL W/PSC MOTOR, NO PUMP 12

CDXWX..... HOT WATER COIL W/ECM MOTOR, NO PUMP 14

CDXQ..... HOT WATER HEATING W/STANDARD PUMP & PSC MOTOR..... 16

CDXQX..... HOT WATER HEATING W/STANDARD PUMP & ECM MOTOR..... 19

CDXR..... HI FLOW HEAT PUMP HOT WATER HEATING W/PSC MOTOR..... 21

CDXRX..... HI FLOW HEAT PUMP HOT WATER HEATING W/ECM MOTOR..... 23

SPECIFICATION GUIDE25

First Co.'s customer is ultimately responsible for confirming which fan coil models are compatible with selected outdoor unit(s) and which expansion valves (if any) are required. To determine certified indoor/outdoor combinations, go to www.firstco.com or contact the factory.

In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice.

NOMENCLATURE

FULL SERIES NOMENCLATURE

24	CDX	Q2	X	1	C	0	V	B	5	0	F
UNIT SIZE 18 - 18,000 BTUH 19 - 19,000 BTUH 20 - 20,000 BTUH 24 - 24,000 BTUH 25 - 25,000 BTUH 26 - 26,000 BTUH 30 - 30,000 BTUH 31 - 31,000 BTUH 32 - 32,000 BTUH 37 - 37,000 BTUH											BRAND F - First Co.
											DRAIN PAN 0 - Standard Galvanized Steel S - Stainless Steel
											OPTIONS: SENSORS/SWITCHES 0 - None/Standard 1 - Freeze Stat 5 - DX Sensor
											OPTIONS: CONTROLS 0 - Standard Unit/No Options B - Standard Pump Control
											METERING DEVICE 0 - No DX Coil P - Piston/Orifice V - Non Bleed TXV w/Check
											REFRIGERANT 0 - No DX Coil (Heating Only) B - R454B C - R32 Z - Field Convertible to R454B or R32
SERIES CDX											
HEAT OPTION W2 - 2 Row HW Q2 - 2 Row Pump HW R2 - 2 Row Hi Flow Pump HW											
MOTOR TYPE 0 - PSC X - ECM Multispeed											
VOLTAGE 1 - 120/1/60											
CABINET OPTIONS U - Uncased C - Cased											

Model specific NOMENCLATURE presented at each respective section of document.

First Co.'s customer is ultimately responsible for confirming which fan coil models are compatible with selected outdoor unit(s) and which expansion valves (if any) are required. To determine certified indoor/outdoor combinations, go to www.AHRInet.org.

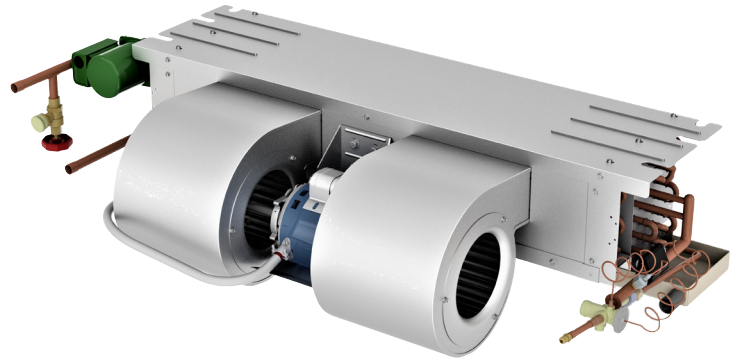
CDX SERIES

CEILING FAN COILS

The space-saving CDX fan coil is only 10" high (11" with enclosure) thus allowing it to recess in a ceiling. Recessed ceiling fan coils save valuable floor space and eliminate costly "equipment" closets.

All CDX fan coils include a 120/24V transformer and are completely prewired. A sloped drain pan allows positive drainage of condensate.

These fan coils are compatible with any source of hot water that does not exceed 180°F, and is NSF/ANSI certified for use with domestic water.



STANDARD FEATURES

- Factory installed service switch
- Freeze protector on HW coil
- Freeze protector on DX coil
- Two-speed fan operation
- Drain pan has 3/4" NPT primary and secondary (overflow) fittings
- 120V motor, 24V controls
- Highly efficient copper tube/aluminum fin heating and cooling coils. Cooling coils are compatible with R454B, R32 using non-bleed TXVs or piston type metering devices.
- Units ordered for R454B (Option B) and R32 (Option C) are factory configured with TXV or piston and factory installed refrigerant sensor.
- Field convertible units (Option Z) are configured for R454B and R32 refrigerants with a factory installed refrigerant sensor. TXV kits are available.
- Insulated and coated galvanized steel drain pan is sloped for proper drainage.
- Effective January 2016, cabinet air leakage is no more than 2% when tested in accordance with ASHRAE 193.

OPTIONAL ACCESSORIES

- Attractive off-white return air / access panel with captive screws (panels can be field painted)
- IAQ filter panels
- Fully insulated enclosure with matching ceiling panel allows for ducted return air. Enclosure can be pre-installed.
- Condensate overflow switch (field installed) (# SS3)

CDX SERIES

CEILING FAN COILS

OPTIONAL ACCESSORIES (CONT'D)

IMPORTANT NOTE

All Z model units ship with factory-installed refrigerant sensor. Field installed TXV must be compatible with A2L refrigerant being used. Failure to maintain use of refrigerant sensor may result in unit damage, property damage, and/or death. Warranty will be void.

EXPANSION VALVE KITS (HEAT PUMP OR COOLING ONLY)	
PART NUMBER	DESCRIPTION
9EVR454B-1A	CDX R454B TXV (For Z options only)
9EVR32-1A	CDX R32 TXV (For Z options only)

NOTES:

1. Above expansion valve kits are approved for both cooling only (non heat pump) or heat pumps applications.
2. Valves are non-bleed type. Field added. Hard start kit may be required.
3. Valves have screw-on connections.

CONTROL FEATURES

WHEN "B" IS SELECTED FOR STANDARD PUMP CONTROL

MULTI-FUNCTION MICRO-PROCESSOR CIRCUIT BOARD WITH:

- Automatic pump timer (heating mode) - purge mode (60 seconds every 6 hours)
- Blower-on fan delay (heating mode) - preheats HW coil for 45 seconds
- Blower-off fan delay (heating and cooling modes) Blower continues to operate for 15 seconds after thermostat is satisfied for increased efficiency.

CDX SERIES

CEILING FAN COILS

CEILING ACCESS PANELS

CEILING ACCESS PANELS							
FOR MODEL	PANEL NO. (STD.)	PANEL NO. (IAQ)	DESCRIPTION	CEILING PANEL OPENING		PANEL FRAME DIMS (OUTSIDE)	
18/19CDX	966	966-M8	LOUVERED	24-1/2	46	27-1/2	49
	966-1	NA	NON-LOUVERED	24-1/2	46	27-1/2	49
20/24/25CDX	967	967-M8	LOUVERED	24-1/2	52-1/2	27-1/2	55-1/2
	967-1	NA	NON-LOUVERED	24-1/2	52-1/2	27-1/2	55-1/2
26/30/31CDX	967-6	967-6-M8	LOUVERED	24-1/2	60	27-1/2	63
	967-7	NA	NON-LOUVERED	24-1/2	60	27-1/2	63
32/36/37CDX	967-8	967-8-MA	LOUVERED	24-1/2	67	27-1/2	70
	967-5	NA	NON-LOUVERED	24-1/2	67	27-1/2	70

STANDARD PANELS		IAQ PANELS
		

SOLID
965-1, 966-1, 967-1, 967-7

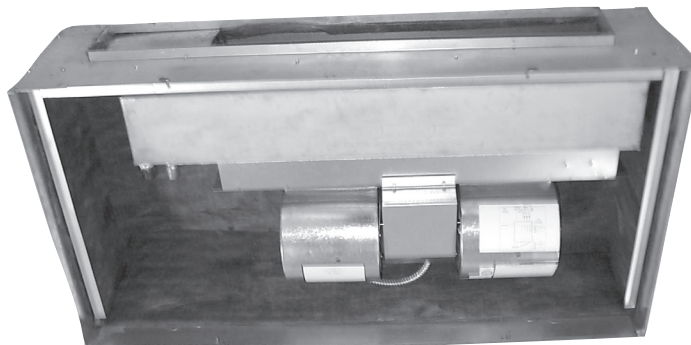
LOUVERED
965, 966, 967, 967-6
(Louvers may differ from picture).
Louvered panels accept 20x20x1" filter
(field supplied).

966-M8, 967-M8
(accepts 2-20x20x1 filter)
967-6-M8
(accepts 2-20x25x1 filter)
967-8-M8
(accepts 2-20x30x1 filter)
GlasFloss® Industries Series HV filter or
equivalent is recommended.

CDX SERIES

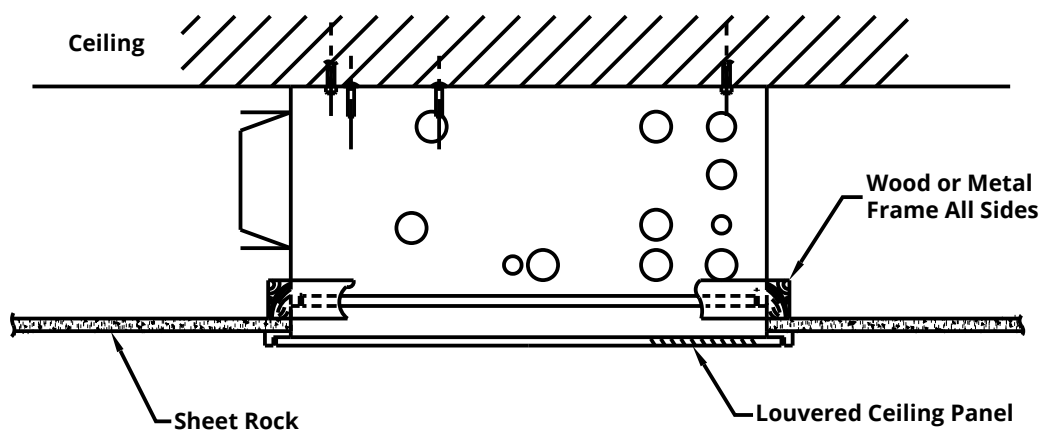
CEILING FAN COILS

ENCLOSURE DATA

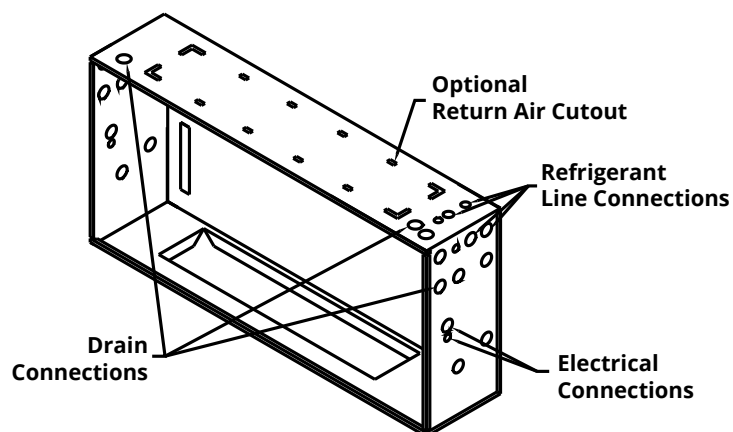


Picture shown is a CDX-C model (available from the factory as a complete unit).

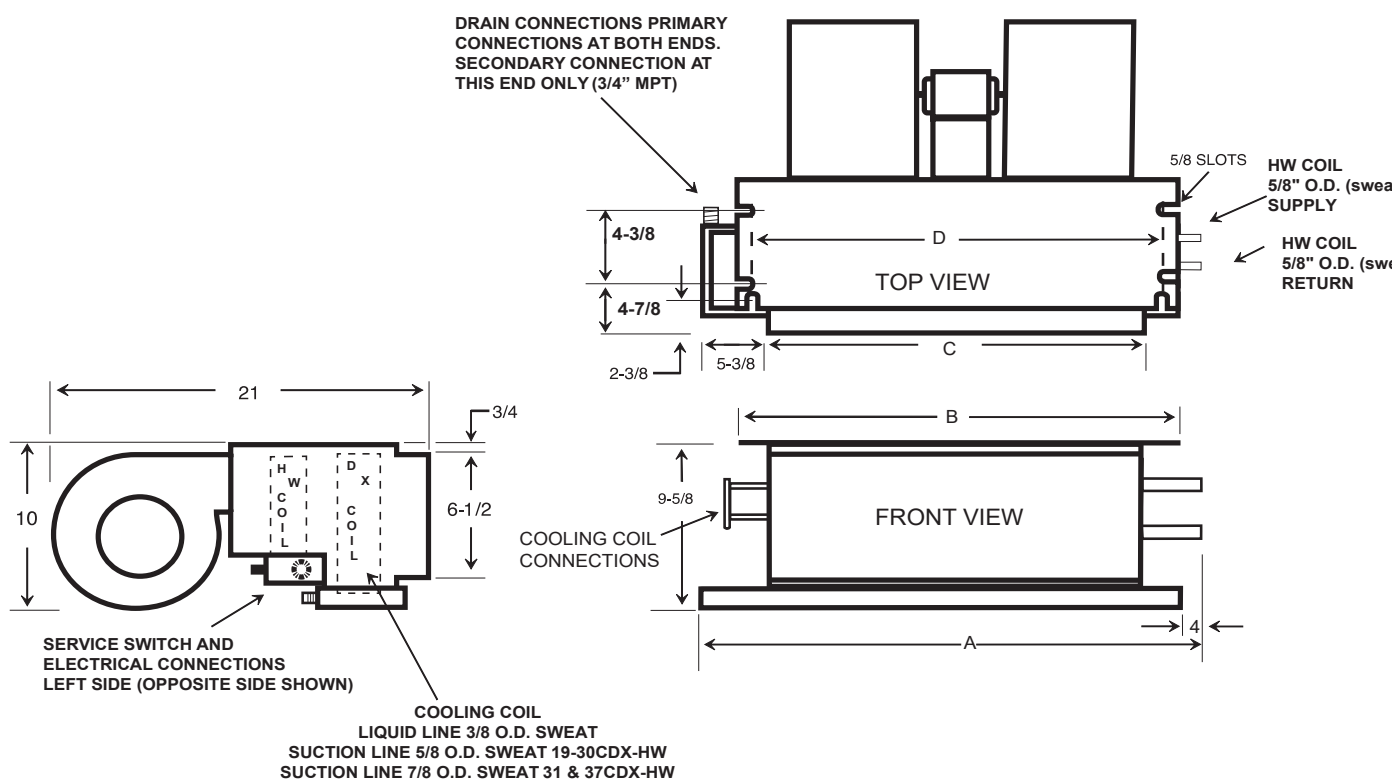
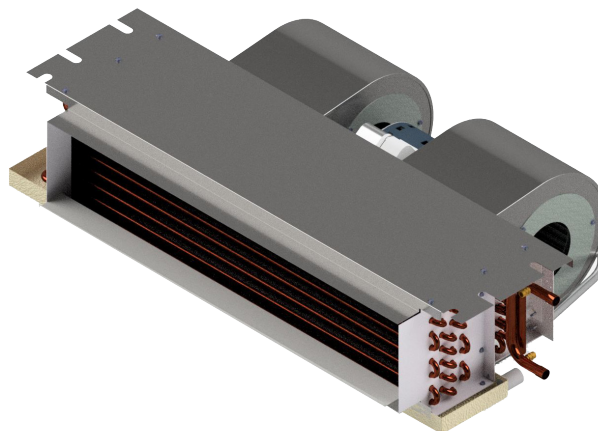
ENCLOSURE INSTALLATION SUPPORT FRAMING



ENCLOSURE CONNECTION LOCATIONS

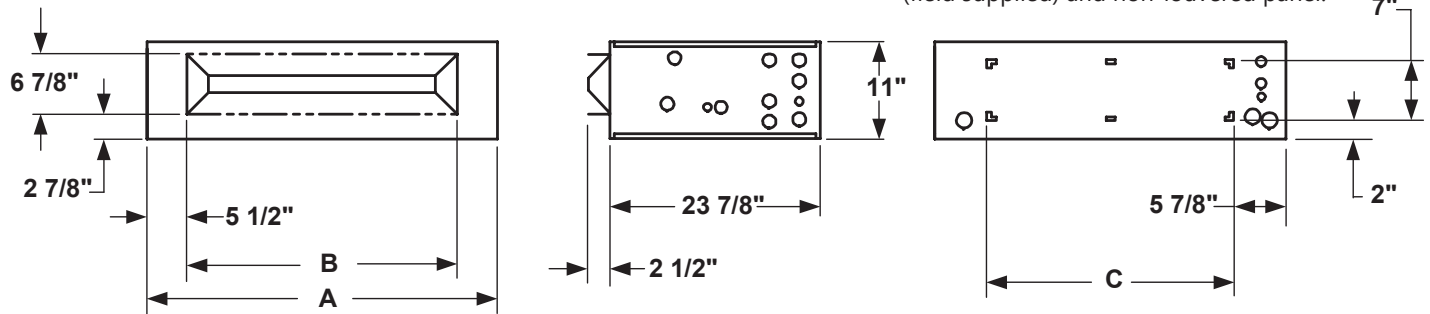


UNCASED VERSION



PHYSICAL DIMENSIONS				
UNIT MODEL	A	B	C	D
18/19CDX	38-1/8	37-1/4	30-1/8	34-3/4
20/24/25CDX	44-1/8	43-1/4	36-1/8	40-3/4
26/30/31CDX	50-1/8	49-1/4	42-1/8	46-3/4
32/36/37CDX	57-1/8	56-1/4	49-1/8	53-3/4

CASED VERSION



ENCLOSURE DIMENSIONS					PANEL NO. (STD.)	PANEL NO. (IAQ)	DESCRIPTION	CEILING PANEL OPENING		PANEL FRAME DIMS (OUTSIDE)	
FOR MODEL	ENCLOSURE	A	B	C	-	-	(2)	W	L	W	L
18/19CDX	9ECDX01 (1)	45-3/4	30-7/8	34	966	966-M8	LOUVERED	24-1/2	46	27-1/2	49
					966-1	NA	NON LOUVERED	24-1/2	46	27-1/2	49
20/24/25CDX	9ECDX02 (1)	51-3/4	36-7/8	40	967	967-M8	LOUVERED	24-1/2	52-1/2	27-1/2	55-1/2
					967-1	NA	NON LOUVERED	24-1/2	52-1/2	27-1/2	55-1/2
26/30/31CDX	9ECDX03 (1)	58-1/2	42-7/8	46-3/4	967-6	967-6-M8	LOUVERED	24-1/2	60	27-1/2	63
					967-7	NA	NON LOUVERED	24-1/2	60	27-1/2	63
32/36/37CDX	9ECDX04 (1)	66-1/2	49-7/8	54-3/4	967-8	967-8-M8	LOUVERED	24-1/2	67	27-1/2	70
					967-5	NA	NON LOUVERED	24-1/2	67	27-1/2	70

CDX SERIES – WITH PSC MOTOR

BLOWER DATA - ALL CDX MODELS WITH PSC MOTOR													
UNIT MODEL	MOTOR (1)		MOTOR HP (120V)	MIN. CKT. AMPACITY (120V)	MAX. CKT. PROTEC- TION	CFM vs. EXTERNAL STATIC PRESSURE (3)							
	RPM	AMPS				0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40
18/19/20CDX	1550	2.3	1/5	3	15	710	680	650	620	590	560	530	500
24/25/26CDX	1550	3.6	1/4	5	15	880	840	800	760	720	680	640	600
30/31CDX	1550	4.6	1/5	6	15	1100	1060	1020	980	930	880	830	780
32CDX	1550	4.6	1/5	6	15	1160	1130	1095	1060	1025	990	950	910
36/37CDX	1550	4.6	1/5	6	15	1310	1260	1210	1160	1110	1060	1000	940

NOTES:

1. Units should not be applied to a system with less than 350 CFM/Ton airflow.
2. Motors are 120V and operate on high speed for cool and low speed for heating.
3. CFM vs. static at high motor speed.
4. Add .05 static when enclosure and/or ceiling panel is used.
5. 31, 32 and 37 CDXW have two motors and four blowers.

CDX SERIES – WITH ECM MOTOR

BLOWER DATA - ALL CDX MODELS WITH ECM MOTOR												
MODEL	MOTOR HP	SPEED TAP	TAP COLOR	BHP	MOTOR AMPS	CFM vs. EXTERNAL STATIC PRESSURE						
						0.10	0.15	0.20	0.25	0.30	0.35	0.40
18/19/20CDX*X	1/2	OPTIONAL HIGH	GREEN	0.22	2.8	760	745	730	715	700	685	670
		STD. HIGH	ORANGE	0.17	2.1	670	650	630	615	600	588	570
		STD. LOW	YELLOW	0.14	1.6	570	555	540	520	500	480	---
24/25/26CDX*X	1/2	OPTIONAL HIGH	WHITE	0.30	3.8	980	960	940	920	900	875	850
		STD. HIGH	GREEN	0.25	3.0	890	870	850	830	810	790	770
		STD. LOW	ORANGE	0.21	2.5	800	775	750	725	700	675	---
		OPTIONAL LOW	YELLOW	0.18	2.0	730	710	690	670	650	630	---
30/31CDX*X	1/2	OPTIONAL HIGH	WHITE	0.40	4.7	1160	1145	1130	1115	1100	1080	1060
		STD. HIGH	GREEN	0.33	3.8	1060	1040	1020	1105	990	975	960
		STD. LOW	ORANGE	0.28	3.2	970	955	940	920	900	880	860
		OPTIONAL LOW	YELLOW	0.23	2.6	870	850	830	810	790	770	---
32CDX*X	1/2	OPTIONAL HIGH	WHITE	0.39	4.8	1220	1200	1180	1155	1125	1095	1065
		STD. HIGH	GREEN	0.27	3.2	1030	1005	985	960	940	920	900
		STD. LOW	ORANGE	0.22	2.5	905	885	860	840	820	800	---
		OPTIONAL LOW	YELLOW	0.16	1.8	725	705	685	670	650	630	---
36/37CDX*X	1/2 (2)	OPTIONAL HIGH	WHITE	0.45	5.6	1380	1360	1340	1320	1300	1280	1260
		STD. HIGH	GREEN	0.38	4.7	1290	1270	1250	1225	1200	1175	1150
		STD. LOW	ORANGE	0.31	3.7	1130	1105	1080	1055	1030	1010	---
		OPTIONAL LOW	YELLOW	0.26	3.0	1000	975	950	920	890	875	---

NOTES:

1. Units should not be applied to a system with less than 350 CFM/Ton airflow.
2. Shaded speeds are factory settings.
3. Add .05 static when enclosure and/or ceiling panel is used.
4. 37 CDXX has two motors and four blowers.

CDX SERIES

HOT WATER COIL W/PSC MOTOR, NO PUMP

CDXW

UNIT SIZE 18 - 18,000 BTUH 19 - 19,000 BTUH 20 - 20,000 BTUH 24 - 24,000 BTUH 25 - 25,000 BTUH 26 - 26,000 BTUH 30 - 30,000 BTUH 31 - 31,000 BTUH 32 - 32,000 BTUH 37 - 37,000 BTUH	CDX	W2	0	1	C	0	V	B	5	0	F	BRAND F - First Co.
SERIES CDX												DRAIN PAN 0 - Standard Galvanized Steel S - Stainless Steel
HEAT OPTION W2 - 2 Row HW												OPTIONS: SENSORS/SWITCHES 0 - None/Standard 1 - Freeze Stat 5 - DX Sensor
MOTOR TYPE 0 - PSC												OPTIONS: CONTROLS 0 - Standard Unit/No Options B - Standard Pump Control
VOLTAGE 1 - 120/1/60												METERING DEVICE 0 - No DX Coil P - Piston/Orifice V - Non Bleed TXV w/Check
CABINET OPTIONS U - Uncased C - Cased												REFRIGERANT 0 - No DX Coil (Heating Only) B - R454B C - R32 Z - Field Convertible to R454B or R32

CDX SERIES

HOT WATER COIL W/PSC MOTOR, NO PUMP

CDXW

DATA TABLE

CDX SERIES – WITH HOT WATER COILS

PSC MOTOR WITH HOT WATER COILS, NO PUMP

PERFORMANCE DATA CDXW								
UNIT MODEL	NOMINAL COOLING BTUH	PRESS. DROP (FT. WTR)	BTUH (1000) AT ENTERING WATER TEMPERATURE Delta -T 20°F & GPM					
			120°F	GPM	140°F	GPM	180°F	GPM
18/19CDXW	18,000	0.7	10.3	1.0	14.4	1.4	22.6	2.3
		2.0	12.0	1.2	16.8	1.7	26.4	2.6
		3.3	12.9	1.3	18.0	1.8	28.3	2.8
20CDXW	18,000	0.8	10.9	1.1	15.3	1.5	24.0	2.4
		2.1	12.9	1.3	18.0	1.8	28.3	2.8
		4.1	13.7	1.4	19.2	1.9	30.2	3.0
24/25CDXW	24,000	2.1	14.7	1.5	20.6	2.1	32.4	3.2
		4.1	15.9	1.6	22.2	2.2	34.9	3.5
		6.6	16.5	1.7	23.1	2.3	36.3	3.6
26CDXW	24,000	2.2	15.7	1.6	22.0	2.2	34.6	3.5
		4.3	17.0	1.7	23.8	2.4	37.4	3.7
		6.8	17.6	1.8	24.7	2.5	38.8	3.9
30/31CDXW	30,000	2.2	17.3	1.7	24.2	2.4	38.0	3.8
		4.3	18.8	1.9	26.3	2.6	41.3	4.1
		6.8	19.6	2.0	27.5	2.8	43.2	4.3
32CDXW	30,000	2.8	18.4	1.8	25.8	2.6	40.5	4.1
		5.4	20.1	2.0	28.2	2.8	44.3	4.4
		8.5	21.1	2.1	29.5	3.0	46.4	4.6
36/37CDXW	36,000	2.8	19.7	2.0	27.6	2.8	43.4	4.3
		5.4	21.7	2.2	30.4	3.0	47.8	4.8
		8.5	22.8	2.3	31.9	3.2	50.1	5.0

NOTES:

1. Heat BTUH is at 70° F EAT.
2. Based on 20°F Delta - T. Velocity not to exceed 4ft./sec.
3. 120 degree and 180 degree data is supplied for boiler applications.
4. Heating BTUH output will not exceed output of water heater.
5. Approved for installation with 0" clearance to combustible material.
6. Use capacities when First Co. "Flow Control Module" is used (# 940-3CV).
7. Freeze protection standard on hot water and DX coils.

ELECTRICAL DATA CDXW					
UNIT MODEL	MOTOR (1)		MOTOR HP (120V)	MIN. CKT. AMPACITY (120V)	MAX. CKT. PROTECTION
	RPM	AMPS			
18/19/20CDXW	1550	2.3	1/5	3	15
24/25/26CDXW	1550	3.6	1/4	5	15
30/31CDXW	1550	4.6	1/5	6	15
32CDXW	1550	4.6	1/5	6	15
36/37CDXW	1550	4.6	1/5	6	15

CDX SERIES

HOT WATER COIL W/ECM MOTOR, NO PUMP

CDXWX

UNIT SIZE 18 - 18,000 BTUH 19 - 19,000 BTUH 20 - 20,000 BTUH 24 - 24,000 BTUH 25 - 25,000 BTUH 26 - 26,000 BTUH 30 - 30,000 BTUH 31 - 31,000 BTUH 32 - 32,000 BTUH 37 - 37,000 BTUH	CDX	W2	X	1	C	0	V	B	5	0	F	BRAND F - First Co.
SERIES CDX												DRAIN PAN 0 - Standard Galvanized Steel S - Stainless Steel
HEAT OPTION W2 - 2 Row HW												OPTIONS: SENSORS/SWITCHES 0 - None/Standard 1 - Freeze Stat 5 - DX Sensor
MOTOR TYPE X - ECM Multispeed												OPTIONS: CONTROLS 0 - Standard Unit/No Options B - Standard Pump Control
VOLTAGE 1 - 120/1/60												METERING DEVICE 0 - No DX Coil P - Piston/Orifice V - Non Bleed TXV w/Check
CABINET OPTIONS U - Uncased C - Cased												REFRIGERANT 0 - No DX Coil (Heating Only) B - R454B C - R32 Z - Field Convertible to R454B or R32

CDX SERIES

HOT WATER COIL W/ECM MOTOR, NO PUMP

CDXWX

DATA TABLES

CDX SERIES - WITH HOT WATER COILS

ECM MOTOR WITH HOT WATER COILS, NO PUMP

PERFORMANCE DATA CDXWX								
UNIT MODEL	NOMINAL COOLING BTUH	PRESS. DROP (FT. WTR)	BTUH (1000) AT ENTERING WATER TEMPERATURE Delta-T-20°F & GPM					
			120°F	GPM	140°F	GPM	180°F	GPM
18/19CDXWX	18,000	0.7	10.3	1.0	14.4	1.4	22.6	2.3
		2.0	12.0	1.2	16.8	1.7	26.4	2.6
		3.3	12.9	1.3	18.0	1.8	28.3	2.8
20CDXWX	18,000	0.8	10.9	1.1	15.3	1.5	24.0	2.4
		2.1	12.9	1.3	18.0	1.8	28.3	2.8
		4.1	13.7	1.4	19.2	1.9	30.2	3.0
24/25CDXWX	24,000	2.1	14.7	1.5	20.6	2.1	32.4	3.2
		4.1	15.9	1.6	22.2	2.2	34.9	3.5
		6.6	16.5	1.7	23.1	2.3	36.3	3.6
26CDXWX	24,000	2.2	15.7	1.7	22.0	2.4	34.6	3.8
		4.3	17.0	1.9	23.8	2.6	37.4	4.1
		6.8	17.6	2.0	24.7	2.8	38.8	4.3
30/31CDXWX	30,000	2.2	17.3	1.7	24.2	2.4	38.0	3.8
		4.3	18.8	1.9	26.3	2.6	41.3	4.1
		6.8	19.6	2.0	27.5	2.8	43.2	4.3
32CDXWX	30,000	2.8	18.4	1.8	25.8	2.6	40.5	4.1
		5.4	20.1	2.0	28.2	2.8	44.3	4.4
		8.5	21.1	2.1	29.5	3.0	46.4	4.6
36/37CDXWX	36,000	2.8	19.7	2.0	27.6	2.8	43.4	4.3
		5.4	21.7	2.2	30.4	3.0	47.8	4.8
		8.5	22.8	2.3	31.9	3.2	50.1	5.0

NOTES:

1. Heat BTUH is at 70° F EAT.
2. Based on 20°F Delta - T. Velocity not to exceed 4ft./sec.
3. 120 degree and 180 degree data is supplied for boiler applications.
4. Heating BTUH output will not exceed output of water heater.
5. Approved for installation with 0" clearance to combustible material.
6. Use capacities when First Co. "Flow Control Module" is used (# 940-3CV).
7. Freeze protection standard on hot water and DX coils.

ELECTRICAL DATA CDXWX				
UNIT MODEL	MOTOR HP	AMPS	MIN. CIR AMPACITY	MAX CIR PROTECTION
		MOTOR		
18/19/20CDXWX	1/2	7.0	9	15
24/25/26CDXWX	1/2	7.0	9	15
30/31CDXWX	1/2	7.0	9	15
32CDXWX	1/2	7.0	9	15
36/37CDXWX	1/2 (2)	7.0	16	20

CDX SERIES

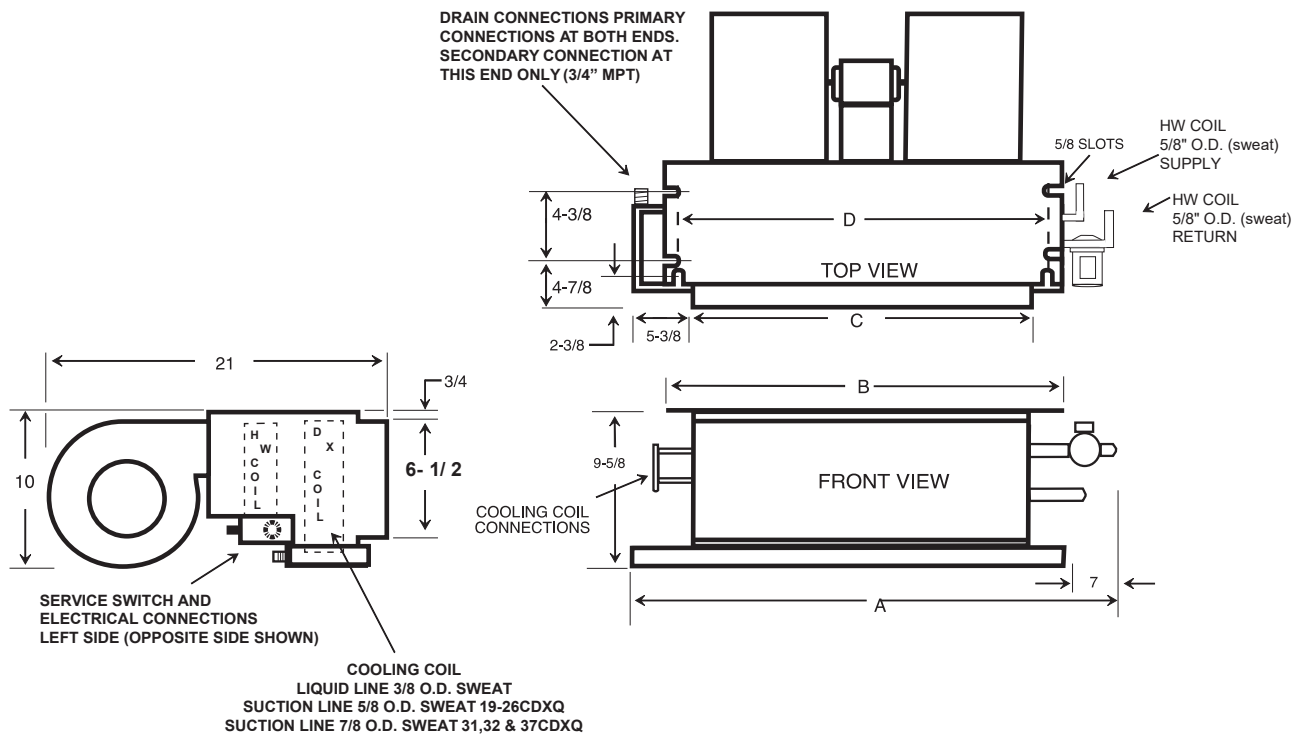
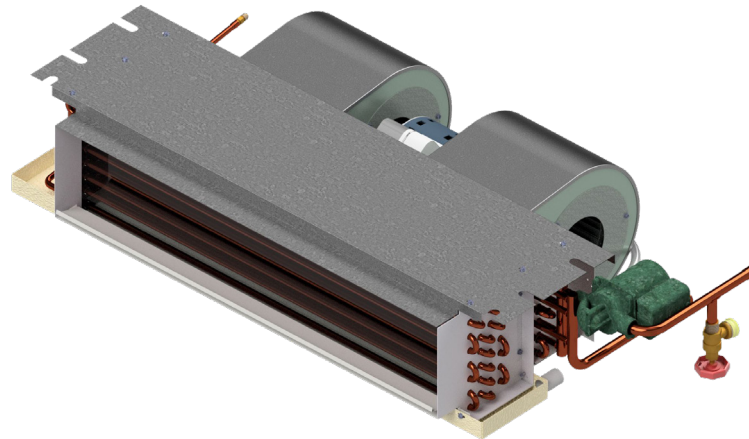
HOT WATER HEATING W/STANDARD PUMP & PSC MOTOR

CDXQ

UNIT SIZE 18 - 18,000 BTUH 19 - 19,000 BTUH 20 - 20,000 BTUH 24 - 24,000 BTUH 25 - 25,000 BTUH 26 - 26,000 BTUH 30 - 30,000 BTUH 31 - 31,000 BTUH 32 - 32,000 BTUH 37 - 37,000 BTUH	SERIES CDX	HEAT OPTION Q2 - 2 Row Pump HW	MOTOR TYPE 0 - PSC	VOLTAGE 1 - 120/1/60	CABINET OPTIONS U - Uncased C - Cased	24	CDX	Q2	0	1	U	0	V	B	5	0	F	BRAND F - First Co.	DRAIN PAN 0 - Standard Galvanized Steel S - Stainless Steel	OPTIONS: SENSORS/SWITCHES 0 - None/Standard 1 - Freeze Stat 5 - DX Sensor	OPTIONS: CONTROLS 0 - Standard Unit/No Options B - Standard Pump Control	METERING DEVICE 0 - No DX Coil P - Piston/Orifice V - Non Bleed TXV w/Check	REFRIGERANT 0 - No DX Coil (Heating Only) B - R454B C - R32 Z - Field Convertible to R454B or R32
--	----------------------	--	------------------------------	--------------------------------	--	-----------	------------	-----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	-------------------------------	--	---	---	---	--

PHYSICAL DIMENSIONS

UNCASED VERSION WITH STANDARD PUMP



PHYSICAL DIMENSIONS				
UNIT MODEL	A	B	C	D
18/19CDXQ*	45-1/8	37-1/4	30-1/8	34-3/4
20/24/25CDXQ*	51-1/8	43-1/4	36-1/8	40-3/4
26/30/31CDXQ*	57-1/8	49-1/4	42-1/8	46-3/4
32/36/37CDXQ*	64-1/8	56-1/4	49-1/8	53-3/4

CDX SERIES

HOT WATER HEATING W/STANDARD PUMP & PSC MOTOR

CDXQ

DATA TABLES

CDXQ

PSC MOTOR AND STANDARD PUMP

PERFORMANCE DATA CDXQ										
UNIT MODEL	NOMINAL COOLING BTUH	PRESS. DROP (FT. WTR)	BTUH (1000) AT ENTERING WATER TEMPERATURE Delta-T 20°F & GPM							
			120°F	GPM	130°F	GPM	140°F	GPM	180°F	GPM
18/19CDXQ*	18,000	3.3	12.9	1.3	15.4	1.5	18.0	1.8	28.3	2.8
20CDXQ*	18,000	4.1	13.7	1.4	16.5	1.7	19.2	1.9	30.2	3.0
24/25CDXQ*	24,000	4.1	15.9	1.6	19.0	1.9	22.2	2.2	34.9	3.5
26CDXQ*	24,000	4.3	17.0	1.7	20.4	2.0	23.8	2.4	37.4	3.7
30/31CDXQ*	30,000	4.3	18.8	1.9	22.5	2.3	26.3	2.6	41.3	4.1
32CDXQ*	30,000	5.4	20.1	2.0	24.2	2.4	28.2	2.8	44.3	4.4
36/37CDXQ*	36,000	5.4	21.7	2.2	26.1	2.6	30.4	3.0	47.8	4.8

NOTES:

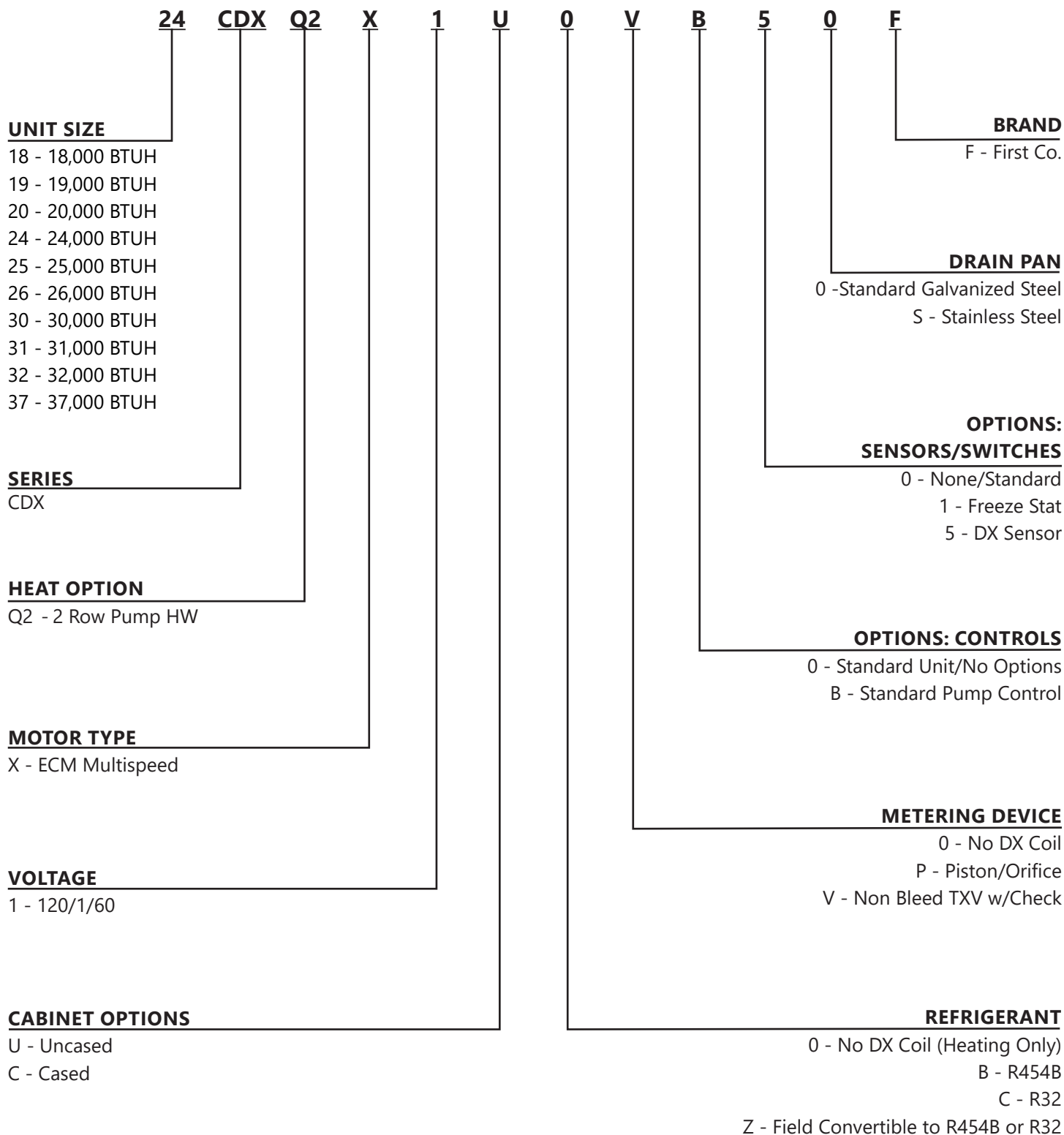
1. Heat BTUH is at 70° F EAT.
2. 120° F and 180° F data is supplied for boiler applications.
3. Heating BTUH output will not exceed output of water heater.
4. Approved for installation with 0" clearance to combustible material.
5. Freeze protection on hot water and DX coils.
6. Based on 20° F Delta-T, Velocity not to exceed 4ft./sec.

ELECTRICAL DATA CDXQ					
UNIT MODEL	MOTOR HP (120V)	AMPS (120V)		MIN. CIR AMPACITY	MAX CIR PROTECTION
		MOTOR	PUMP		
18/19/20CDXQ*	1/5	2.3	0.57	4	15
24CDXQ*	1/5	3.0	0.57	5	15
25/26CDXQ*	1/4	3.6	0.57	6	15
30/31CDXQ*	1/5	4.6	0.57	7	15
32CDXQ*	1/5	4.6	0.57	7	15
36/37CDXQ*	1/5	4.6	0.57	7	15

CDX SERIES

HOT WATER HEATING W/STANDARD PUMP & ECM MOTOR

CDXQX



CDX SERIES

HOT WATER HEATING W/STANDARD PUMP & ECM MOTOR

CDXQX

DATA TABLES

CDXQX

ECM MOTOR AND STANDARD PUMP

PERFORMANCE DATA CDXQX										
UNIT MODEL	NOMINAL COOLING BTUH	PRESS. DROP (FT. WTR)	BTUH (1000) AT ENTERING WATER TEMPERATURE Delta-T 20°F & GPM							
			120°F	GPM	130°F	GPM	140°F	GPM	180°F	GPM
18/19CDXQ*X	18,000	3.3	12.9	1.3	15.4	1.5	18.0	1.8	28.3	2.8
20CDXQ*X	18,000	4.1	13.7	1.4	16.5	1.7	19.2	1.9	30.2	3.0
24/25CDXQ*X	24,000	4.1	15.9	1.6	19.0	1.9	22.2	2.2	34.9	3.5
26CDXQ*X	24,000	4.3	17.0	1.7	20.4	2.0	23.8	2.4	37.4	3.7
30/31CDXQ*X	30,000	4.3	18.8	1.9	22.5	2.3	26.3	2.6	41.3	4.1
32CDXQ*X	30,000	5.4	20.1	2.0	24.2	2.4	28.2	2.8	44.3	4.4
36/37CDXQ*X	36,000	5.4	21.7	2.2	26.1	2.6	30.4	3.0	47.8	4.8

NOTES:

1. Heat BTUH is at 70° F EAT.
2. 120° F and 180° F data is supplied for boiler applications.
3. Heating BTUH output will not exceed output of water heater.
4. Approved for installation with 0" clearance to combustible material.
5. Freeze protection on hot water and DX coils.
6. Based on 20° F Delta-T, Velocity not to exceed 4ft./sec.

ELECTRICAL DATA CDXQX					
UNIT MODEL	MOTOR HP	AMPS		MIN. CIR AMPACITY	MAX CIR PROTECTION
		MOTOR	PUMP		
18/19/20CDXQ*X	1/2	7.0	0.57	10	15
24/25/26CDXQ*X	1/2	7.0	0.57	10	15
30/31CDXQ*X	1/2	7.0	0.57	10	15
32CDXQ*X	1/2	7.0	0.57	10	15
36/37CDXQ*X	1/2 (2)	7.0	0.57	17	20

CDX SERIES

HI FLOW HEAT PUMP HOT WATER HEATING W/PSC MOTOR

CDXR

UNIT SIZE 18 - 18,000 BTUH 19 - 19,000 BTUH 20 - 20,000 BTUH 24 - 24,000 BTUH 25 - 25,000 BTUH 26 - 26,000 BTUH 30 - 30,000 BTUH 31 - 31,000 BTUH 32 - 32,000 BTUH 37 - 37,000 BTUH	SERIES CDX	HEAT OPTION R2 - 2 Row Hi Flow Pump HW	MOTOR TYPE 0 - PSC	VOLTAGE 1 - 120/1/60	CABINET OPTIONS U - Uncased C - Cased	24	CDX	R2	0	1	C	0	V	B	5	0	F	BRAND F - First Co.	DRAIN PAN 0 - Standard Galvanized Steel S - Stainless Steel	OPTIONS: SENSORS/SWITCHES 0 - None/Standard 1 - Freeze Stat 5 - DX Sensor	OPTIONS: CONTROLS 0 - Standard Unit/No Options B - Standard Pump Control	METERING DEVICE 0 - No DX Coil P - Piston/Orifice V - Non Bleed TXV w/Check	REFRIGERANT 0 - No DX Coil (Heating Only) B - R454B C - R32 Z - Field Convertible to R454B or R32
--	----------------------	--	------------------------------	--------------------------------	--	-----------	------------	-----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	-------------------------------	--	---	---	---	--

CDX SERIES

HI FLOW HEAT PUMP HOT WATER HEATING W/PSC MOTOR

CDXR

DATA TABLES

CDXR

PSC MOTOR AND HI FLOW PUMP

The CDXR series fan coils are designed specifically for use with tankless water heaters. These fan coils allow high efficiency tankless water heaters to be used for two jobs instead of one.... providing domestic hot water and high efficiency space heating! They are compatible with most of today's higher efficiency split-systems heat pumps and condensing units .

The CDXR fan coils include a special circulating pump designed for tankless heaters, HW check valve, air purge valve, hot water coil, cooling coil, blower/motor, and multi-function circuit board. The fan coil with the -C is factory installed within an insulated enclosure or "case" and is shipped with your choice of either a solid or louvered access panel with attractive off-white powder coat finish. Solid panels must be used with ducted return air applications, while louvered panels (the default style) should be used with non-ducted return air applications. Louvered panels include filters, but solid panels require field supplied return-air filter/louvers.

PERFORMANCE DATA CDXR*										
UNIT MODEL	NOMINAL COOLING BTUH	PRESS. DROP (FT. WTR)	BTUH (1000) AT ENTERING WATER TEMPERATURE Delta-T 20°F & GPM							
			120°F	GPM	130°F	GPM	140°F	GPM	180°F	GPM
18/19CDXR*	18,000	3.3	12.9	1.3	15.4	1.5	18.0	1.8	28.3	2.8
20CDXR*	18,000	4.1	13.7	1.4	16.5	1.7	19.2	1.9	30.2	3.0
24/25CDXR*	24,000	4.1	15.9	1.6	19.0	1.9	22.2	2.2	34.9	3.5
26CDXR*	24,000	4.3	17.0	1.7	20.4	2.0	23.8	2.4	37.4	3.7
30/31CDXR*	30,000	4.3	18.8	1.9	22.5	2.3	26.3	2.6	41.3	4.1
32CDXR*	30,000	5.4	20.1	2.0	24.2	2.4	28.2	2.8	44.3	4.4
36/37CDXR*	36,000	5.4	21.7	2.2	26.1	2.6	30.4	3.0	47.8	4.8

NOTES:

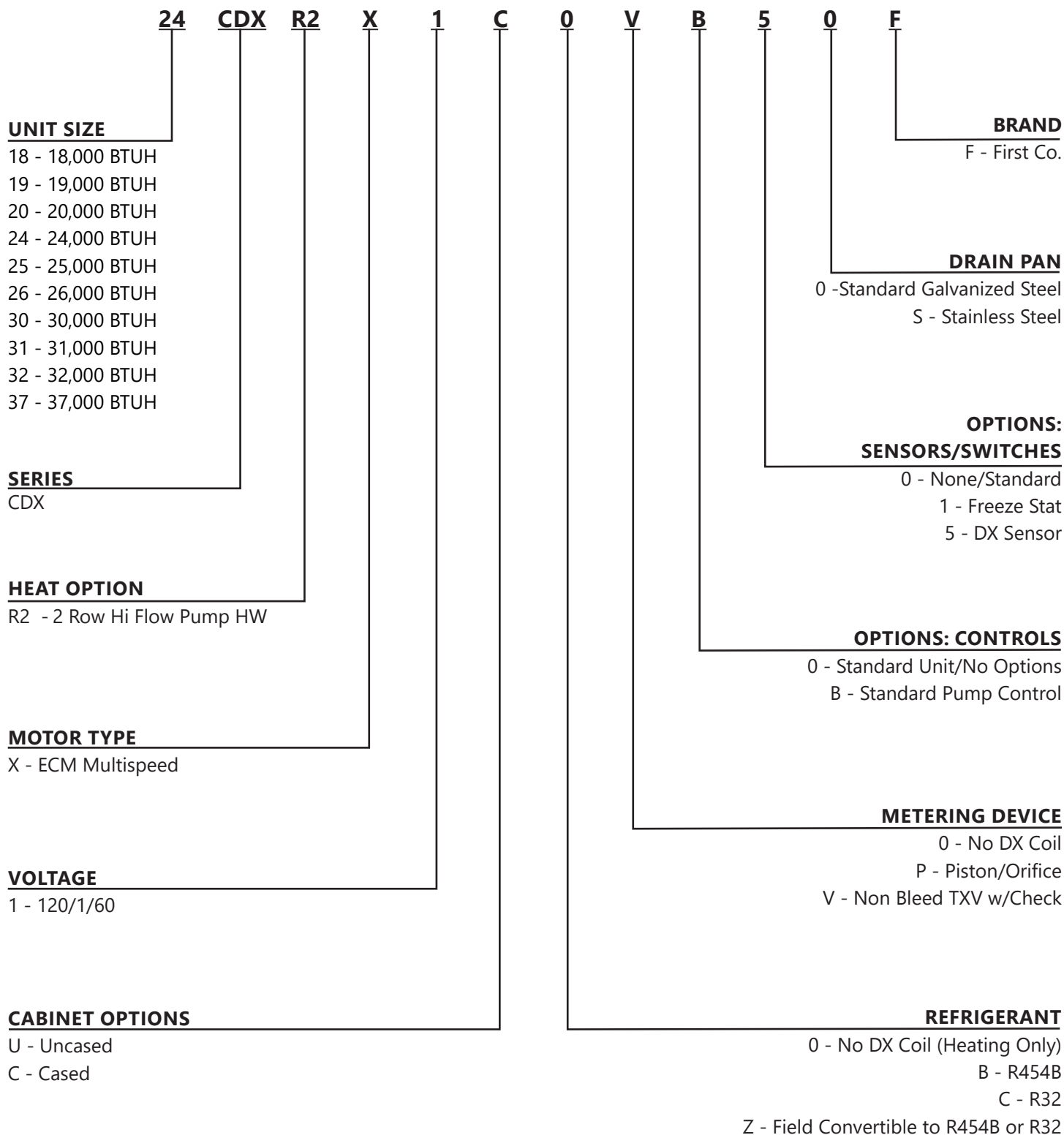
1. Heat BTUH is at 70° F EAT.
2. 120° F and 180° F data is supplied for boiler applications.
3. Heating BTUH output will not exceed output of water heater.
4. Approved for installation with 0" clearance to combustible material.
5. Freeze protection on hot water and DX coils.
6. Based on 20° F Delta-T, Velocity not to exceed 4ft./sec.

ELECTRICAL DATA CDXR*					
UNIT MODEL	MOTOR HP (120V)	AMPS (120V)		MIN. CIR AMPACITY	MAX CIR PROTECTION
		MOTOR	PUMP		
18/19/20CDXR*	1/5	2.3	0.84	4	15
24/25/26CDXR*	1/4	3.6	0.84	6	15
30/31CDXR*	1/5 (2)	4.6	0.84	7	15
32CDXR*	1/5 (2)	4.6	0.84	7	15
36/37CDXR*	1/5 (2)	4.6	0.84	7	15

CDX SERIES

HI FLOW HEAT PUMP HOT WATER HEATING W/ECM MOTOR

CDXRX



CDX SERIES

HI FLOW HEAT PUMP HOT WATER HEATING W/ECM MOTOR

CDXRX

DATA TABLES

CDXRX

ECM MOTOR AND HI FLOW PUMP

PERFORMANCE DATA CDXR* X										
UNIT MODEL	NOMINAL COOLING BTUH	PRESS. DROP (FT. WTR)	BTUH (1000) AT ENTERING WATER TEMPERATURE Delta-T 20°F & GPM							
			120°F	GPM	130°F	GPM	140°F	GPM	180°F	GPM
18/19CDXR*X	18,000	3.3	12.9	1.3	15.4	1.5	18.0	1.8	28.3	2.8
20CDXR*X	18,000	4.1	13.7	1.4	16.5	1.7	19.2	1.9	30.2	3.0
24/25CDXR*X	24,000	4.1	15.9	1.6	19.0	1.9	22.2	2.2	34.9	3.5
26CDXR*X	24,000	4.3	17.0	1.7	20.4	2.0	23.8	2.4	37.4	3.7
30/31CDXR*X	30,000	4.3	18.8	1.9	22.5	2.3	26.3	2.6	41.3	4.1
32CDXR*X	30,000	5.4	20.1	2.0	24.2	2.4	28.2	2.8	44.3	4.4
36/37CDXR*X	36,000	5.4	21.7	2.2	26.1	2.6	30.4	3.0	47.8	4.8

NOTES:

1. Heat BTUH is at 70° F EAT.
2. 120° F and 180° F data is supplied for boiler applications.
3. Heating BTUH output will not exceed output of water heater.
4. Approved for installation with 0" clearance to combustible material.
5. Freeze protection on hot water and DX coils.
6. Based on 20° F Delta-T, Velocity not to exceed 4ft./sec.

ELECTRICAL DATA CDXR*X					
UNIT MODEL	MOTOR HP	AMPS		MIN. CIR AMPACITY	MAX CIR PROTECTION
		MOTOR	PUMP		
18/19/20CDXR*X	1/2	7.0	.84	10	15
24/25/26CDXR*X	1/2	7.0	.84	10	15
30/31CDXR*X	1/2	7.0	.84	10	15
32CDXR*X	1/2	7.0	.84	10	15
36/37CDXR*X	1/2 (2)	7.0	.84	17	20

SPECIFICATION GUIDE

UNIT

- All fan coils are manufactured with 20 to 22 gauge galvanized steel to resist corrosion.
- All units are approved for installation with "0" clearance to combustible material.
- Piping, drain, and wiring connections are readily accessible, and mounting holes and/or slots are predrilled to save installation time and field labor expense.
- Exposed units and/or panels have a baked on powder coat finish.

COILS

- Coils have 3/8" O.D. copper tubing expanded to high efficiency aluminum fins.
- Each coil is factory tested to 450 psig.

DRAIN PANS

- Drain pan is made from heavy gauge galvanized steel with "folded corner joints".
- Drain pan is insulated with a U.L. Listed, closed cell, fire retardant foam insulation to prevent sweating.

BLOWER ASSEMBLIES

- All blower wheels are centrifugal, forward curved, and dynamically balanced for smooth, quiet operation.
- Blower assemblies can be easily removed for service.

MOTORS

- Standard motors are PSC type with internal thermal overload protection. Motors have permanently lubricated sleeve bearings for long life. All motors are resiliently mounted with rubber bushings to assure quiet, vibration-free operation and are easily removed.
- ECM motors have multi-speed connections or a jumper to change speeds. Motors have permanently lubricated sleeve bearings for long life. All motors are resiliently mounted with rubber bushings to assure quiet, vibration-free operation and are easily removed.
- Water coils and pumps shall be NSF/ASNI 169:2016 certified for public health and should contain less than 2% lead. All water coils should have a check valve internal to the pump and have an air purge valve factory-installed.



AMERICAN-MADE. FAMILY OWNED.



FIRST CO.
P.O. BOX 270969 - DALLAS, TEXAS 75227
PH. (214) 388-5751 | FAX (214) 388-2255
WWW.FIRSTCO.COM

MARCH 2025