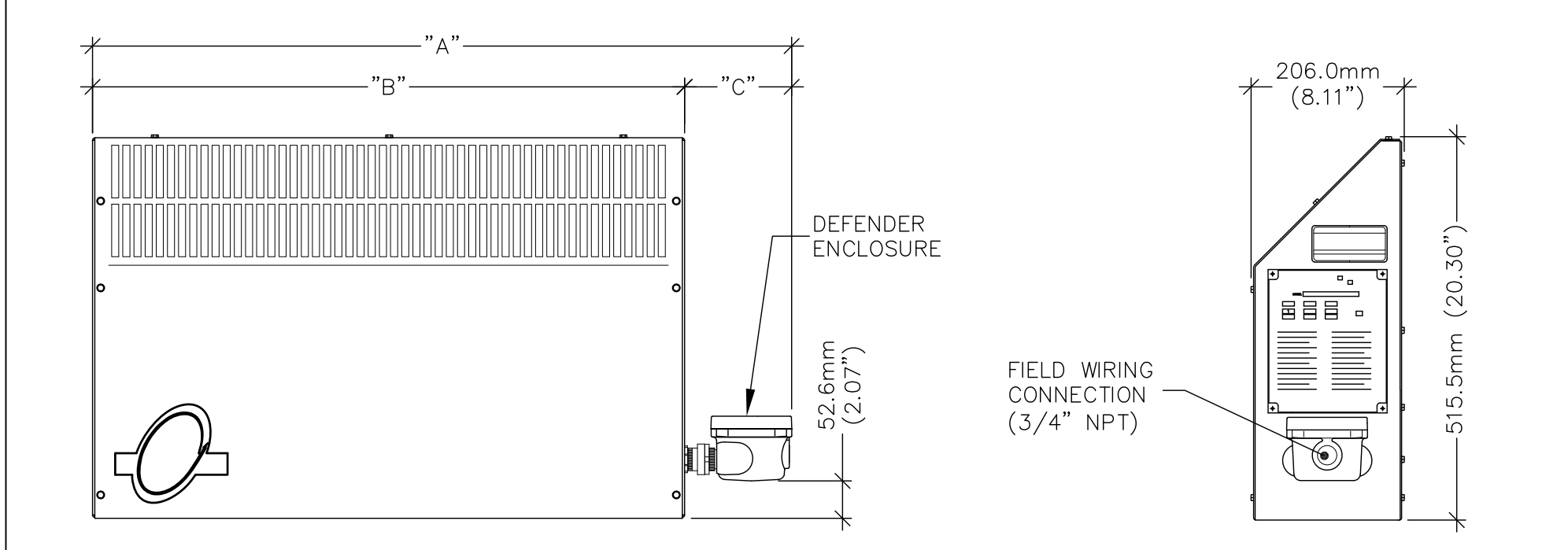
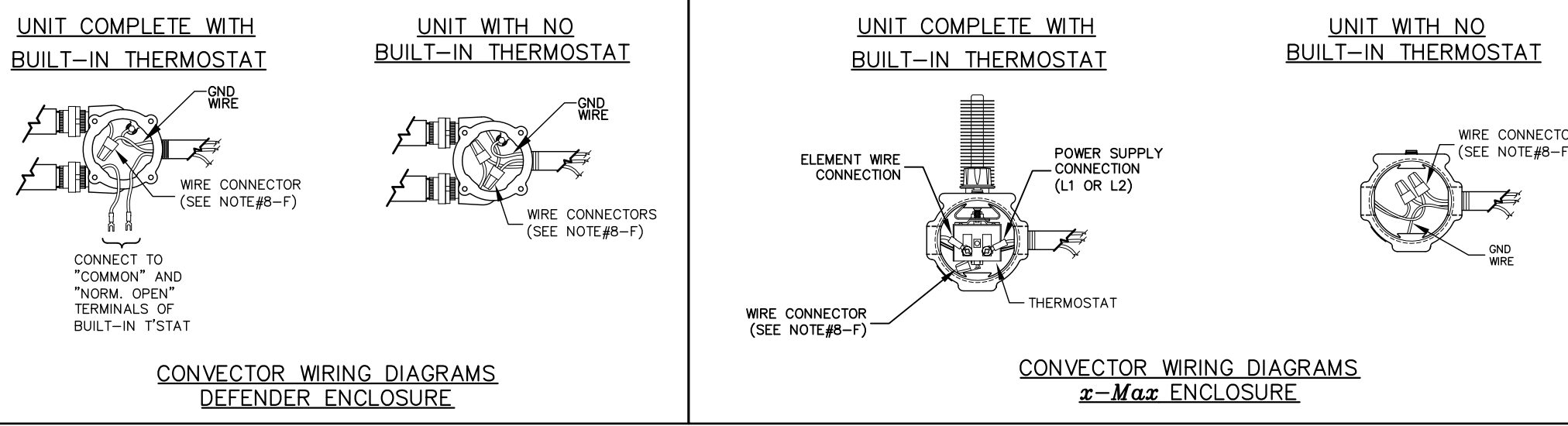
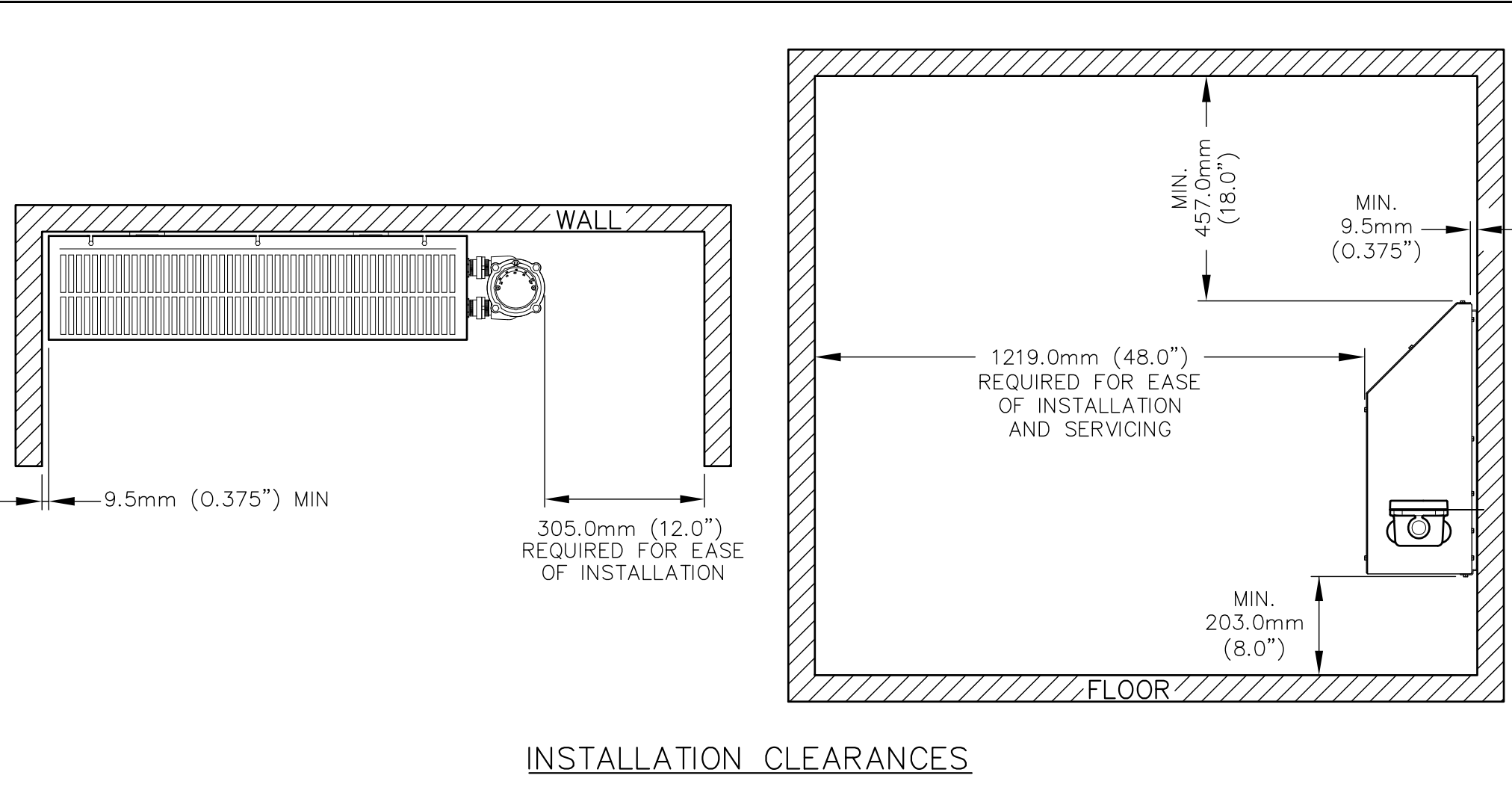
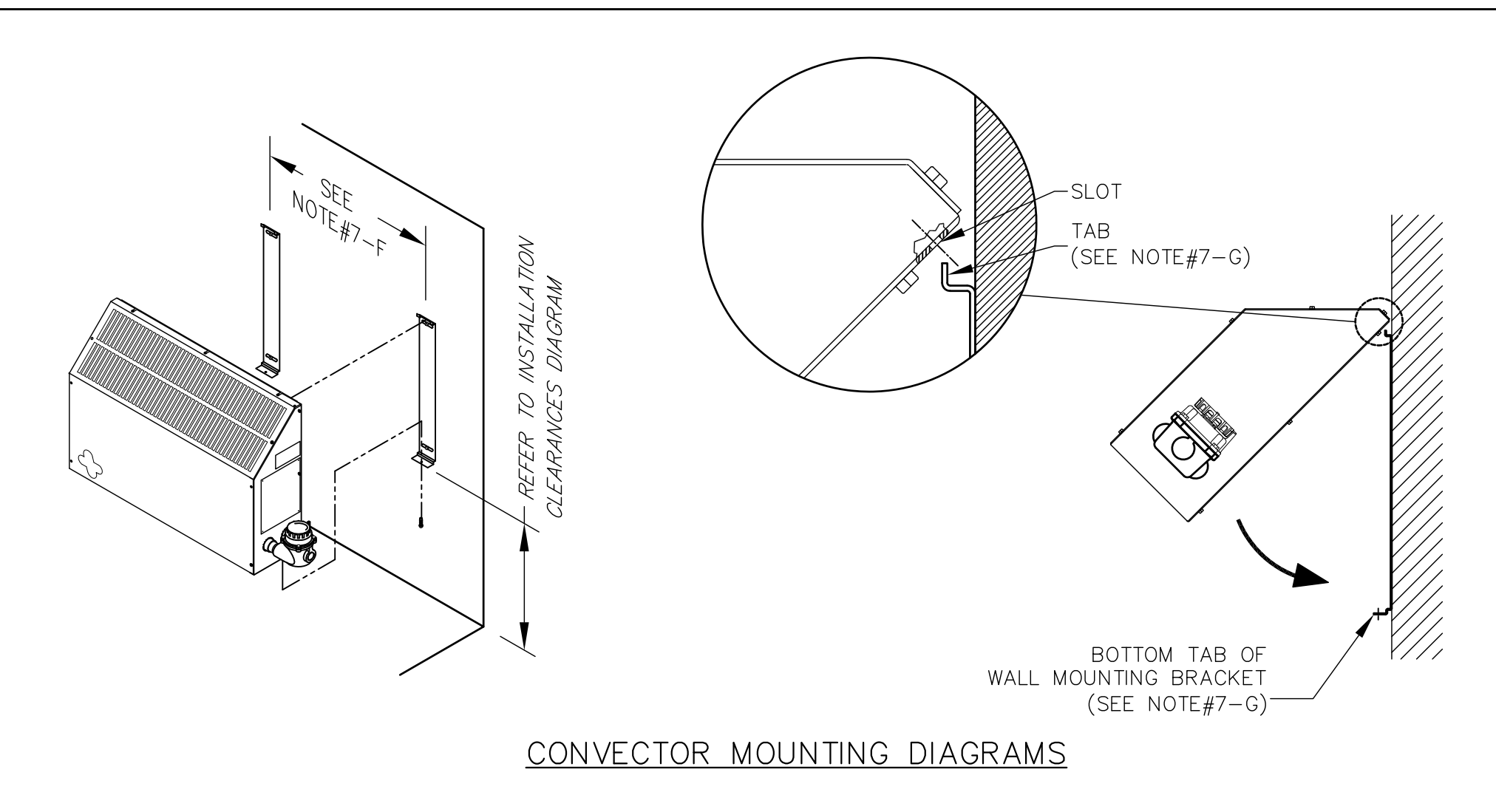


HEATER KW RATING	"D" DIMENSION		"B" DIMENSION	"E" DIMENSION	
	W/O EXTENSION	WITH EXTENSION		W/O EXTENSION	WITH EXTENSION
0.75 - 2.69 & 3.6 (T2A)	954mm (37.6")	1007mm (39.6")	796.0mm (31.34")	158mm (6.2")	211mm (8.3")
3.01 - 3.59, 3.6 (T3) & 4.8	1414mm (55.7")	1467mm (57.8")	1256.0mm (49.45")	158mm (6.2")	211mm (8.3")
4.76, 5.28 - 7.6	1669mm (65.7")	1722mm (67.8")	1511.0mm (59.49")	158mm (6.2")	211mm (8.3")



HEATER KW RATING	"A" DIMENSION		"B" DIMENSION	"C" DIMENSION	
	W/O EXTENSION	WITH EXTENSION		W/O EXTENSION	WITH EXTENSION
0.75 - 2.69 & 3.6 (T2A)	938mm (36.9")	991mm (39.0")	796.0mm (31.34")	142mm (5.6")	195mm (7.7")
3.01 - 3.59, 3.6 (T3) & 4.8	1398mm (55.0")	1451mm (57.1")	1256.0mm (49.45")	142mm (5.6")	195mm (7.7")
4.76, 5.28 - 7.6	1653mm (65.1")	1706mm (67.2")	1511.0mm (59.49")	142mm (5.6")	195mm (7.7")



MODEL NUMBER	KW (BTU/Hr)	UNIT VOLTAGE (VOLTS)	BASIC UNIT	GAS GROUP				SUPPLY WIRE SIZE (AWG)***	UNIT CURRENT (AMPS)	MAXIMUM CIRCUIT FUSE (AMPS)*	CABINET LENGTH In (mm)	TEMP CODE (°C)
				IIB + H <sub>2</sub>	IIB	IIC	IIC					
CX1-120160-012-T3	1.2 (4095)	120						12	10.0	15	31.3 (796)	T3 (200)
CX1-120160-018-T3	1.8 (6142)	120						12	15.0	20	31.3 (796)	T3 (200)
CX1-208160-012-T3	1.2 (4095)	208						12	5.8	15	31.3 (796)	T3 (200)
CX1-208160-018-T3	1.8 (6142)	208						12	8.7	15	31.3 (796)	T3 (200)
CX1-208160-036-T3**	3.6 (12284)	208						12	17.3	20	49.5 (1256)	T3 (200)
CX1-208160-048-T2A	4.8 (16378)	208						8	23.1	25	49.5 (1256)	T2A (280)
CX1-208160-076-T2A	7.6 (25932)	208						8	36.5	40	59.5 (1511)	T2A (280)
CX1-240160-012-T3	1.2 (4095)	240						12	5.0	15	31.3 (796)	T3 (200)
CX1-240160-018-T3	1.8 (6142)	240						12	7.5	15	31.3 (796)	T3 (200)
CX1-240160-036-T3**	3.6 (12284)	240						12	15.0	20	49.5 (1256)	T3 (200)
CX1-240160-048-T2A	4.8 (16378)	240						10	20.0	25	49.5 (1256)	T2A (280)
CX1-240160-076-T2A	7.6 (25932)	240						8	31.7	35	59.5 (1511)	T2A (280)
CX1-277160-012-T3	1.2 (4095)	277						12	4.3	15	31.3 (796)	T3 (200)
CX1-277160-018-T3	1.8 (6142)	277						12	6.5	15	31.3 (796)	T3 (200)
CX1-277160-036-T3**	3.6 (12284)	277						12	13.0	15	49.5 (1256)	T3 (200)
CX1-277160-048-T2A	4.8 (16378)	277						12	17.3	20	49.5 (1256)	T2A (280)
CX1-277160-076-T2A	7.6 (25932)	277						8	27.4	30	59.5 (1511)	T2A (280)
CX1-380160-0075-T3	0.75 (2560)	380						12	2.0	15	31.3 (796)	T3 (200)
CX1-380160-0113-T3	1.13 (3856)	380						12	3.0	15	31.3 (796)	T3 (200)
CX1-380160-012-T3	1.2 (4095)	380						12	3.2	15	31.3 (796)	T3 (200)
CX1-380160-018-T3	1.8 (6142)	380						12	4.7	15	31.3 (796)	T3 (200)
CX1-380160-0226-T2A	2.26 (7711)	380						12	5.9	15	31.3 (796)	T2A (280)
CX1-380160-0301-T3	3.01 (10271)	380						12	7.9	15	49.5 (1256)	T3 (200)
CX1-380160-036-T3**	3.6 (12284)	380						12	9.5	15	49.5 (1256)	T3 (200)
CX1-380160-0476-T2A	4.76 (16241)	380						10	12.5	15	59.5 (1511)	T2A (280)
CX1-380160-048-T2A	4.8 (16378)	380						12	12.6	15	49.5 (1256)	T2A (280)
CX1-380160-076-T2A	7.6 (25932)	380						10	20.0	25	59.5 (1511)	T2A (280)
CX1-400160-0083-T3	0.83 (2832)	400						12	2.1	15	31.3 (796)	T3 (200)
CX1-400160-012-T3	1.2 (4095)	400						12	3.0	15	31.3 (796)	T3 (200)
CX1-400160-0125-T3	1.25 (4565)	400						12	3.1	15	31.3 (796)	T3 (200)
CX1-400160-018-T3	1.8 (6142)	400						12	4.5	15	31.3 (796)	T3 (200)
CX1-400160-025-T2A	2.5 (8530)	400						12	6.3	15	31.3 (796)	T2A (280)
CX1-400160-0333-T3	3.33 (11362)	400						12	8.3	15	49.5 (1256)	T3 (200)
CX1-400160-036-T3**	3.6 (12284)	400						12	9.0	15	49.5 (1256)	T3 (200)
CX1-400160-048-T2A	4.8 (16378)	400						12	12.0	15	49.5 (1256)	T2A (280)
CX1-400160-0528-T2A	5.28 (18016)	400						10	13.2	15	59.5 (1511)	T2A (280)
CX1-400160-076-T2A	7.6 (25932)	400						10	19.0	20	59.5 (1511)	T2A (280)
CX1-415160-009-T3	0.9 (3071)	415						12	2.2	15	31.3 (796)	T3 (200)
CX1-415160-012-T3	1.2 (4095)	415						12	2.9	15	31.3 (796)	T3 (200)
CX1-415160-0135-T3	1.35 (4606)	415						12	3.3	15	31.3 (796)	T3 (200)
CX1-415160-018-T3	1.8 (6142)	415						12	4.3	15	31.3 (796)	T3 (200)
CX1-415160-0269-T2A	2.69 (9179)	415						12	6.5	15	31.3 (796)	T2A (280)
CX1-415160-0359-T3	3.59 (12250)	415						12	8.7	15	49.5 (1256)	T3 (200)
CX1-415160-036-T3**	3.6 (12284)	415						12	8.7	15	49.5 (1256)	T3 (200)
CX1-415160-048-T2A	4.8 (16378)	415						12	11.6	15	49.5 (1256)	T2A (280)
CX1-415160-0568-T2A	5.68 (19381)	415						10	13.7	15	59.5 (1511)	T2A (280)
CX1-415160-076-T2A	7.6 (25932)	415						10	18.3	20	59.5 (1511)	T2A (280)
CX1-480160-012-T3	1.2 (4095)	480						12	2.5	15	31.3 (796)	T3 (200)
CX1-480160-018-T3	1.8 (6142)	480						12	3.8	15	31.3 (796)	T3 (200)
CX1-480160-036-T3**	3.6 (12284)	480						12	7.5	15	49.5 (1256)	T3 (200)
CX1-480160-048-T2A	4.8 (16378)	480						12	10.0	15	49.5 (1256)	T2A (280)
CX1-480160-076-T2A	7.6 (25932)	480						10	15.8	20	59.5 (1511)	T2A (280)
CX1-600160-012-T3	1.2 (4095)	600						12	2.0	15	31.3 (796)	T3 (200)
CX1-600160-018-T3	1.8 (6142)	600						12	3.0	15	31.3 (796)	T3 (200)
CX1-600160-036-T3**	3.6 (12284)	600						12	6.0	15	49.5 (1256)	T3 (200)
CX1-600160-048-T2A	4.8 (16378)	600						12	8.0	15	49.5 (1256)	T2A (280)
CX1-600160-076-T2A	7.6 (25932)	600						12	12.7	15	59.5 (1511)	T2A (280)

**CONVECTOR TECHNICAL DATA**

- ALL UNITS ARE SINGLE PHASE.  
 - OPERATION AT LOWER VOLTAGES THAN RATED WILL RESULT IN REDUCED OUTPUT AND AMP DRAW.  
 - ACTUAL OUTPUT (kW) = [(SUPPLY VOLTAGE)<sup>2</sup> / (RATED VOLTAGE)<sup>2</sup>] X RATED UNIT WATTAGE (kW).  
 \* OR EQUIVALENT BREAKER AS PER LOCAL ELECTRICAL INSPECTION AUTHORITY REQUIREMENTS.  
 \*\* FOR 3.6 kW HEATERS RATED T3 CABINET LENGTH IS 49.5" (1256mm). 3.6 kW HEATERS RATED T2A CABINET LENGTH IS 31.3" (796mm)  
 \*\*\* ENSURE SUPPLY WIRE SIZE ADHERES TO APPLICABLE LOCAL AND NATIONAL ELECTRICAL CODES

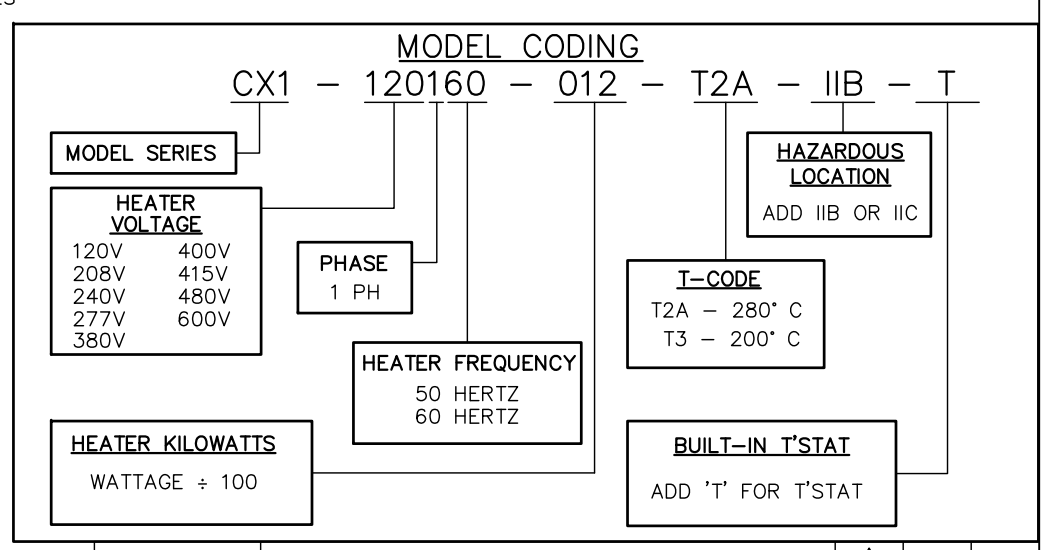
**NOTES:**

- TOLERANCES ON ALL DIMENSIONS ARE ±0.00" UNLESS OTHERWISE SPECIFIED.
- WEIGHT:**

	[KG]	CABINET SIZE		
		31.34"	49.45"	59.49"
NET	25.1	36.6	42.1	
	[LBS]	55.3	80.7	92.8
SHIPPING	[KG]	30.0	44.0	48.0
	[LBS]	65.0	95.0	105.0
- AMBIENT TEMPERATURE LIMITATIONS:**  
 OPERATIONAL: -45°C to 40°C (-49°F to 104°F)  
 STORAGE: -45°C to 80°C (-49°F to 176°F)
- UL LISTING NO.:**  
 #E87128
- CONVECTOR ENCLOSURES HAZARDOUS LOCATION APPROVALS:**

DEFENDER ENCLOSURE	x-Max ENCLOSURE
<b>WITHOUT BUILT-IN T'STAT ENCLOSURE</b> CLASS I, DIV. 1 & 2, GROUPS B, C & D CLASS I, ZONES 1 & 2, GROUPS IIA & IIB + H <sub>2</sub>	<b>WITHOUT BUILT-IN T'STAT ENCLOSURE</b> CLASS I, DIV. 1 & 2, GROUPS A, B, C, & D CLASS I, ZONES 1 & 2, GROUPS IIA, IIB, & IIC
<b>BUILT-IN T'STAT ENCLOSURE</b> CLASS I, DIV. 1 & 2, GROUPS C & D CLASS I, ZONES 1 & 2, GROUPS IIA & IIB	<b>BUILT-IN T'STAT ENCLOSURE</b> CLASS I, DIV. 1 & 2, GROUPS A, B, C, & D CLASS I, ZONES 1 & 2, GROUPS IIA, IIB, & IIC
- CABINET PAINT SPEC.:**

DESCRIPTION - COLOR	EPOXY SEMI GLOSS RUFFNECK GREEN
SPECIFIC GRAVITY:	1.48
GLOSS (60°):	11'
FILM THICKNESS:	2.5 MIL
PENCIL HARDNESS:	2H
CROSS HATCH:	5b NO LIFTING OF SQUARES
MANDREL BEND:	PASS 1/8" BEND, NO CRACKING OR LOSS OF ADHESION
- HEATER PLACEMENT:**  
 HEATER SHOULD BE INSTALLED AS FOLLOWS:
  - HEATER MUST BE MOUNTED LEVEL ON A VERTICAL SURFACE USING FACTORY SUPPLIED MOUNTING BRACKETS SUCH THAT THERE ARE NO OBSTRUCTIONS TO IMPEDE AIR INLET OR DISCHARGE. [REFER TO INSTALLATION CLEARANCES DIAGRAM]
  - AIR DISCHARGE IS NOT DIRECTED AT A THERMOSTAT.
  - AIR DISCHARGE IS ACROSS AREAS OF HEAT LOSS (SUCH AS WINDOWS).
  - FOR EQUIPMENT FREEZE PROTECTION, LOCATE HEATER AS CLOSE TO EQUIPMENT AS POSSIBLE.
  - MOUNTING SURFACE MUST BE STRONG ENOUGH TO:
    - SUPPORT THE HEATER'S WEIGHT,
    - WITHSTAND ABUSIVE SITUATIONS SUCH AS TRANSPORTABLE INSTALLATIONS.
  - SECURE MOUNTING BRACKETS TO VERTICAL SURFACE WITH BRACKETS SPACED TO BOTH SUPPORT THE UNITS WEIGHT AND TO MATCH SPACING OF SLOTS IN REAR PANEL. THE MOUNTING BRACKETS TOP MOUNTING SLOT IS APPROXIMATELY 38.0mm (1.5") BELOW HEATER'S TOP SURFACE.
  - ALIGN SLOTS ON BACK PANEL OF HEATER WITH TABS AT TOP OF WALL MOUNTING BRACKETS. WITH HEATER TILTED, INSERT TABS INTO SLOTS AND ROTATE UNIT UNTIL IT RESTS AGAINST THE BOTTOM TAB OF WALL MOUNT BRACKET. SECURE HEATER TO BOTTOM OF TABS USING SCREWS SUPPLIED. [REFER TO CONVECTOR MOUNTING DIAGRAMS]
- FIELD WIRING:**
  - CONDUIT SEALS ARE REQUIRED WITHIN 152.4mm (6") OF FIELD ENTRIES.
  - USE ONLY COPPER CONDUCTORS RATED FOR 90°C (194°F) AND APPROVED EXPLOSION PROOF WIRING METHODS. [REFER TO TECHNICAL DATA CHART FOR APPROPRIATE CONDUCTOR SIZES]
  - SUPPLY VOLTAGE MUST BE WITHIN 10% OF DATA PLATE RATINGS.
  - EXTERNAL OVER-CURRENT PROTECTION IS REQUIRED AND MUST MEET DATA PLATE RATINGS FOR VOLTAGE, AMPERAGE, AND FREQUENCY.
  - FIELD CONNECTION: 3/4" - 14 NPT
  - WIRE CONNECTORS: 90°C (194°F) MIN. RATING (REMOTE T'STAT) & CONTROL DEVICES:
  - ONLY USE HEATER IN LOCATION MATCHING HEATER'S HAZARDOUS CLASSIFICATION RATING. REMOTE T'STAT MUST MEET HAZARDOUS CLASSIFICATION FOR LOCATION AND NOT ALLOW ROOM TEMPERATURE TO EXCEED AMBIENT TEMPERATURE LIMITATION OF HEATER (SEE NOTE#3). VOLTAGE AND AMPERAGE RATINGS MUST MATCH HEATER'S ELECTRICAL RATING. IF NOT, A CONTACTOR MAY BE REQUIRED.
- BEFORE APPLYING ELECTRICAL POWER:**
  - CHECK THAT ALL CONNECTIONS ARE SECURE. COMPLY WITH APPLICABLE CODES REQUIREMENTS, AND WITH WIRING DIAGRAM. [REFER TO FIELD WIRING]
  - CONFIRM SUPPLY VOLTAGE IS COMPATIBLE WITH THE DATA PLATE SPECIFICATIONS.
  - REMOVE ANY FOREIGN OBJECTS FROM HEATER.
  - ENSURE EXTERNAL FITTINGS AND ENCLOSURE COVERS ARE SECURED.



14 JAN 2013 UPDATED MODEL LISTINGS

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_

UNLESS OTHERWISE NOTED TOLERANCES ARE TO BE: ±1mm ±1/2" ANGLES 3.2/µm OR 125/µin

**CCI Thermal Technologies Inc.**  
 EDMONTON, ALBERTA

DRAWN BY: NJS  
 CHECKED BY: RW  
 SCALE: NTS  
 DATE: 2007-09-27

TITLE: CX1 APPROVAL DRAWING  
 DRAWING NO.: 51041-D