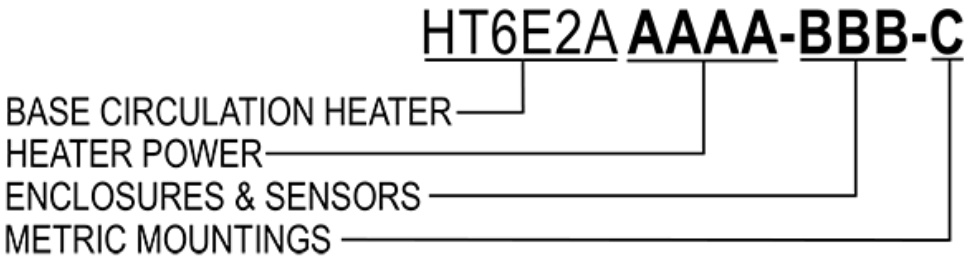
CAST-X High Temperature 500 Circulation Heater Part Numbering System



Building a CAST-X High Temp 500 Part Number:
Use the tables below to build each section of your CAST-X HT 500. After assigning letters/numbers for each applicable section, you will have a complete part number, ready to quote.
For assistance, contact CAS directly.

VOLTAGE, POWER, CIRCUIT TYPE

Volts refers to line volts (V_L). Amps refers to line current (I_L).

Designation "AAA"	Circuit Type	Volts (V)	Watts (kW)	Amps (A) (per circuit)
012	THREE-PHASE WYE	480	N/A	
		415	14.8	20.7
		400	13.8	19.9
		380	12.4	18.9
		240	5.0	12.0
		208	3.7	10.4
021	THREE-PHASE DELTA	480	15.0	18.0
		415	11.2	15.6
		400	10.4	15.0
		380	9.4	14.3
		240	3.7	9.0
		208	2.8	7.8
022	THREE-PHASE WYE	480	5.0	6.0
		415	3.7	5.2
		400	3.4	5.0
		380	3.1	4.8
023	SINGLE PHASE	480	N/A	
		415	11.2	27.0
		400	10.4	26.0
		380	9.4	24.7
		240	3.7	15.6
		208	2.8	13.5
031	THREE-PHASE DELTA	380V TO 480V NOT AVAILABLE		
		240	7.2	17.3
		208	5.4	15.0
		480	9.6	11.6

ENCLOSURE AND THERMOSTAT

The first digit corresponds to the following: 1. Standoff mounting required 2. Pipe nipple mounting required

Designation "BB"	Thermostat	Enclosure
11	NO THERMOSTAT	NEMA 1
12	NO THERMOSTAT	NEMA 4
21	NO THERMOSTAT	NEMA 7
22	32° - 250°F (0° - 121°C) THERMOSTAT	NEMA 7
23	0° - 100°F (-17° - 38°C) THERMOSTAT	NEMA 7
24	NO THERMOSTAT	ATEX
25	DOUBLE POLE SINGLE THROW (DPST) THERMOSTAT	ATEX

SNAP ACTION HIGH LIMITS SWITCHES

Only heaters with NEMA 7 or ATEX enclosures can accommodate high limit switches

Designation "C"	Switch
0	NONE
1	AUTO RESET, 200°F (93°C)
2	AUTO RESET, 250°F (121°C)
3	AUTO RESET, 425°F (218°C)
4	AUTO RESET, 500°F (260°C)
5	MANUAL RESET, 260°F (126°C)
6	MANUAL RESET, 185°F (85°C)
7	MANUAL RESET, 150°F (65°C)
8	MANUAL RESET, 260°F (126°C) WITH TEFLON LEADS

032	THREE-PHASE WYE	415	7.2	10.0
		400	6.7	9.6
		380	6.0	9.1
		240	2.4	5.8
033	SINGLE PHASE	380V TO 480V NOT AVAILABLE		
		240	7.2	30.0
		208	5.4	26.0
041	THREE-PHASE DELTA	380V TO 480V NOT AVAILABLE		
		240	10.7	25.7
		208	8.0	22.2
042	THREE-PHASE WYE	480	14.2	17.1
		415	10.6	14.8
		400	9.9	14.3
		380	8.9	13.5
		240	3.6	8.6
		208	2.7	7.4
051	THREE-PHASE DELTA	480	N/A	
		415	12.0	16.6
		400	11.1	16.0
		380	10.0	15.2
		240	4.0	9.6
		208	3	8.3
052	THREE-PHASE WYE	480	5.3	6.4
		415	4.0	5.6
		400	3.7	5.4
		380	3.3	5.1
053	SINGLE PHASE	480	N/A	
		415	12.0	28.8
		400	11.1	27.8
		380	10.0	26.4
		240	4.0	16.7
		208	3.0	14.4
061	THREE-PHASE DELTA	480	4.0	4.8
		415	3.0	4.2
		400	2.8	4.0
		380	2.5	3.8
063	SINGLE PHASE	480	4.0	8.3
		415	3.0	7.2
		400	2.8	6.9
		380	2.5	6.6

THERMOCOUPLES

All thermocouples are ungrounded, for optimal performance

Designation "DD"	Description
0	NONE
1	SINGLE J-TYPE THERMOCOUPLE IN THERMOWELL
2	DUAL J-TYPE THERMOCOUPLES IN THERMOWELL
3	SINGLE K-TYPE THERMOCOUPLE IN THERMOWELL
4	DUAL K-TYPE THERMOCOUPLES IN THERMOWELL

NOTE: The part number has two "D" designations because the unit has two thermowells.
Always put the lowest designation number first in the part number to avoid duplicate configurations.
e.g. BX25-xxx-xx-x 1 2 x instead of BX25-xxx-xx-x 2 1 x

TUBING

All tubes are 316L Stainless Steel, 5/8" (15.9 mm) OD X .065" (1.65 mm) WALL. Option 1 is the standard option.

Designation "E"	Tube Description	Number of Tubes
1	DUAL TUBE (STANDARD OPTION)	2
2	DUAL TUBE ELECTROPOLISHED	2
3	DUAL TUBE PASSIVATED	2
4	SINGLE TUBE	1
5	SINGLE TUBE ELECTROPOLISHED	1
6	SINGLE TUBE PASSIVATED	1

MACHINING

Designation "F"	Mounting Hole Description
1	STANDARD 3/8"-16 MOUNTING HOLES
2	STANDARD M10 X 1.5 MOUNTING HOLES

CUSTOM DESIGNS & COMPONENTS

CAS offers several options for special tubes, sensors, and finishes.
For these options, please call a CAS Representative for a quote.

Options	
SPECIAL ALLOY TUBES	SPECIAL HIGH-LIMIT SWITCHES OR RTDs
THICK WALL TUBES	NPT FITTINGS

ACCESSORIES

Part Number	Description
274-55-6-8	TUBE UNION COMPRESSION FITTING (5/8" / .625 INCH) / PAIR (SHIPPED LOOSE)
307-0-22-1	INSULATING JACKET: TEMP. LIMIT: 986°F / 530°C