

COOL TOUCH™



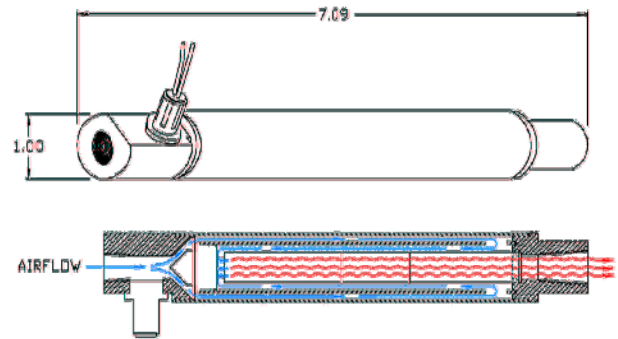
Shown with optional inlet & exhaust fittings

CT050

- The Cool Touch™ 050 process heater features a triple-pass construction that minimizes skin temperatures on the heater. The high-efficiency design focuses heat where needed, protecting people and product from unnecessarily hot surfaces.
- The triple-pass design offers superior performance in heat cycling applications due to high internal thermal storage capacity. Outlet temperature quickly stabilizes when power is applied and regulation is easily maintained.
- Our Cool Touch™ 050 is a 1" diameter process heater which can provide up to 600 watts and handle up to 7.5 SCFM of air. Outlet temperatures up to 1300° F can be supplied for your

Wattage	Min. SCFM Req.
0.1kW	1.0
0.2kW	1.0
0.3kW	1.0
0.4kW	1.0
0.5kW	1.0
0.6kW	1.0

Airflow (SCFM)	Pressure Drop (psig)
1.0	0.3
2.0	1.3
3.0	3.0
4.0	5.3
5.0	8.3
6.0	12.0
7.0	16.2
7.5	19.0



Wattage & Voltage Options

120V, single phase, 0.1kW-0.5kW
240V, single phase, 0.2kW-0.6kW

Fitting Options

Inlet Fitting:
1/8F- 1/8" FNPT
CB- Counterbore 1/2" O.D.

Other Options

Thermocouple Fitting
Thermocouple
Flexible Conduit

Exhaust Fitting:
1/4F- 1/4" FNPT
3/8F- 3/8" FNPT

Specifications

Category:	Process Heaters, Inline Heaters, Open Coil Heaters
Max. wattage:	0.6kW
Max. exhaust air temp.:	1300°F
Max. inlet air temp.:	250°F
(consult factory for higher inlet temp.)	
Max. SCFM:	7.5
Pressure Rating:	120 psig
Mounting:	Horizontal/Vertical
Leads:	20 gauge (12" long)
Heater Body:	Stainless Steel
Inlet Fitting:	Stainless Steel
Exhaust Fitting:	Stainless Steel

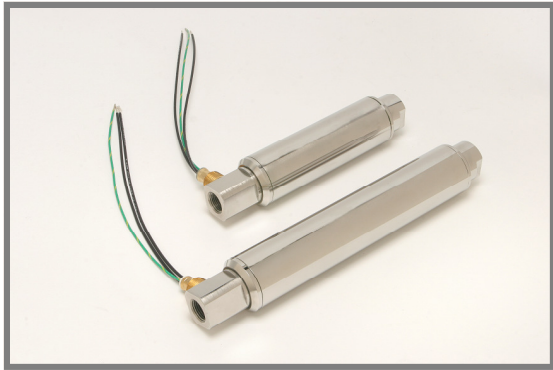


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CT150

- The Cool Touch™ 150 process heater Heat Torch is a robust air heating device designed for high reliability, long life and substantial air flow. In-service applications include staking, curing, drying, heat-shrinking, sterilization, adhesive activation, air scrubbing and air knives.
- The Cool Touch™ 150 Heat Torch heating element is contained in a 2.0" diameter stainless steel pipe. The heater body is 4.70" long for power ratings from 500 to 2500 watts, and 8.31" long for power ratings of 2750 to 5000 watts. The standard power increments are 250 watts and 500 watts, respectively.
- Allowable air flow is from 4.8 to 70 SCFM. Maximum air input temperature is 250°F. Maximum allowable air output temperature is 1300° F.
- The standard inlet fitting is a 1/2" NPT female. Standard outlets include 1/4", 1/2" and 1" NPT female fittings and no exhaust fitting.

Wattage & Voltage Options

120V, single phase, 0.5kW-2.5kW
 208V, single phase, 0.5kW-5.0kW
 208V, three phase, 1.0kW-5.0kW
 240V, single phase, 0.5kW-5.0kW
 240V, three phase, 1.0kW-5.0kW
 480V, single phase, 1.5kW-5.0kW
 480V, three phase, 2.0kW-5.0kW

Other Options

Thermocouple Fitting
 Thermocouple
 Flexible Conduit

Fitting Options

Inlet Fitting:
 1/2F - 1/2" F NPT
 R1/2 - 1/2"-14 F BSPT

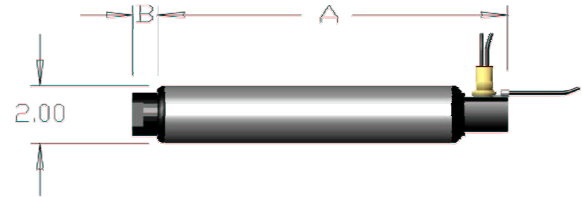
Exhaust Fitting:
 1/4F- 1/4" F NPT
 1/2F- 1/2" F NPT
 1F- 1" F NPT
 NF- No Fitting
 R1 - 1"-11 F BSPT

Specifications

Category:	Process Heaters, Inline Heaters, Open Coil Heaters
Max. wattage:	5.0kW
Max. exhaust air temp.:	1300°F
Max. inlet air temp.:	250°F
Max. SCFM:	70
Max allowable pressure:	120 PSIG
Mounting:	Horizontal/Vertical
Leads:	14 gauge (12" long)
Heater Body:	304 Stainless Steel
Inlet Fitting:	303/304 Stainless Steel
Outlet Fitting:	303/304 Stainless Steel

Wattage	Min. SCFM Req.
0.5kW	4.8
1.0kW	4.8
1.5kW	4.8
2.0kW	4.8
2.5kW	5.3
3.0kW	6.6
3.5kW	7.9
4.0kW	9.3
4.5kW	10.8
5.0kW	12.4

Airflow (SCFM)	0.5kW-2.5kW Pressure Drop (psig)	2.75kW-5kW Pressure Drop (psig)
5	1.2	1.6
10	3.1	3.8
20	5.2	7.5
30	8.0	12.0
40	12.0	16.3
50	15.5	21.6
60	19.5	26.8
70	24.0	32.0



Wattage	Heater Body Dim. A	Exhaust Fitting	Dim. B
0.5kW-2.5kW	8.24	1/4F	0.83
2.75kW-5kW	12.14	1.2F	0.88
		1F	0.87
		NF	0.06



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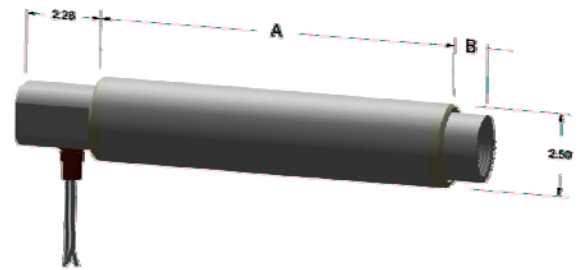
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CT 200

Wattage	Min. SCFM Req.
1.0kW	9.6
4.0kW	9.6
5.0kW	12.4
6.0kW	14.8
7.0kW	17.0
8.0kW	19.3
9.0kW	21.4
10.0kW	23.5
11.0kW	25.5
12.5kW	28.4

Airflow (SCFM)	0.5kW-4.25kW Pressure Drop (psig)	4.5kW-8.5kW Pressure Drop (psig)	8.75kW-12.5kW Pressure Drop (psig)
10	0.6	1.2	1.8
20	1.6	3.2	4.8
30	3.0	6.1	9.1
40	4.9	9.8	14.7
50	7.2	14.3	21.5
60	9.8	19.7	29.5
70	12.9	25.8	38.7
80	16.4	32.9	49.3
90	20.4	40.7	61.1
100	24.7	49.4	74.1

- The Cool Touch™ 200 process heater Heat Torch is a robust air heating device designed to satisfy the most demanding requirements. In-service applications include high capacity staking, curing, drying, heat-shrinking, sterilization, adhesive activation, air scrubbing and air knives.
- The Cool Touch™ 200 Heat Torch heating element is contained in a 2.5" diameter stainless steel pipe. The heater body is 6.0" long for power ratings from 1000 to 4250 watts, 10.0" for power ratings of 4500 to 8500 watts, and 14.0" for power ratings from 9000 to 12500 watts. The standard power increments are 250 watts, 500 watts and 1000 watts respectively.
- Allowable air flow is from 9.6 to 100 SCFM. Maximum air input temperature is 250° F. Maximum air output temperature is 1300° F.



Wattage & Voltage Options

120V, single phase, .5kW-2.5kW
 240V, single phase, 1.0kW-8.5kW
 240V, three phase, 4.5kW-12.5kW
 480V, single phase, 4.5kW-12.5kW
 480V, single phase, 1.5kW-12.5kW

Fitting Options

Inlet Fitting:
 1F- 1" FNPT

Exhaust Fitting:
 1 1/4F- 1/4" FNPT
 NF- No Fitting

Other Options

Thermocouple Fitting
 Thermocouple
 Flexible Conduit
 Heat Shield

Wattage	Heater Body Dim. A	Exhaust Fitting	Dim. B
0.5kW-4.25kW	6.02	1 1/4F	1.0
4.5kW-8.5kW	9.99	NF	0.10
8.75kW-12.5kW	13.96		

Specifications

Category:	Process Heaters, Inline Heaters, Open Coil Heaters
Max. wattage:	12.5kW
Max. exhaust air temp.:	1300°F
Max. inlet air temp.:	250°F
(consult factory for higher inlet temp.)	
Max. SCFM:	100
Pressure Rating:	120 psig
Mounting:	Horizontal/Vertical
Leads:	12 gauge (12" long)
Heater Body:	Stainless Steel
Inlet Fitting:	Stainless Steel
Exhaust Fitting:	Stainless Steel



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Build Your Own

The builder below will allow you to select options for a Cool Touch™ Heat Torch. If you are uncertain if a Cool Touch™ Heat Torch is the right solution for your needs, please contact us to learn more about our products.

SERIES SIZE WATTAGE VOLTAGE PHASE INLET CONNECTION OUTLET CONNECTION THERMOCOUPLE FITTING

CT 1 - 600 - V12 - A - 8NF - 8NF - TF2

SIZE	WATTAGE	VOLTAGE	PHASE	INLET CONNECTION	OUTLET CONNECTION	THERMOCOUPLE FITTING
0 = 1/2"	100	V10 = 100V	SINGLE = A	CB = COUNTERBORED	X = NO TC FITTING	X = NO TC FITTING
1 = 1.5"	TO	V12 = 120V	THREE = B	2NF = 1/8" FNPT	2NF = 1/8" FNPT	TF1 = FITTING WITH 1 T/C
2 = 2.0"	12500	V20 = 200V		8NF = 1/2" FNPT	8NF = 1/2" FNPT	TF2 = FITTING WITH 2 T/C
		V28 = 208V		16NF = 1" FNPT	16NF = 1" FNPT	F1 = 1 X T/C FITTING W/O T/C
		V24 = 240V		2BSF = 1/8" -28 BSPT FEMALE	20NF = 1-1/4" FNPT	F2 = 2 X T/C FITTING W/O T/C
		V38 = 380V		8BSF = 1/2" -14 BSPT FEMALE	4BSF = 1/4" -19 BSPT FEMALE	
		V40 = 400V		16BSF = 1" -11 BSPT FEMALE	16BSF = 1" -11 BSPT FEMALE	
		V41 = 415V				

PRODUCT	MAX WATT	MAX INLET	MAX EXHAUST	MIN SCFM	MAX SCFM	PSIG*
 Cool Touch™ 050	500 W	250 °F	1300 °F	1	7.5	120
 Cool Touch™ 150	5000 W	250 °F	1300 °F	4.8	70	120
 Cool Touch™ 200	12500 W	250 °F	1300 °F	9.6	100	120