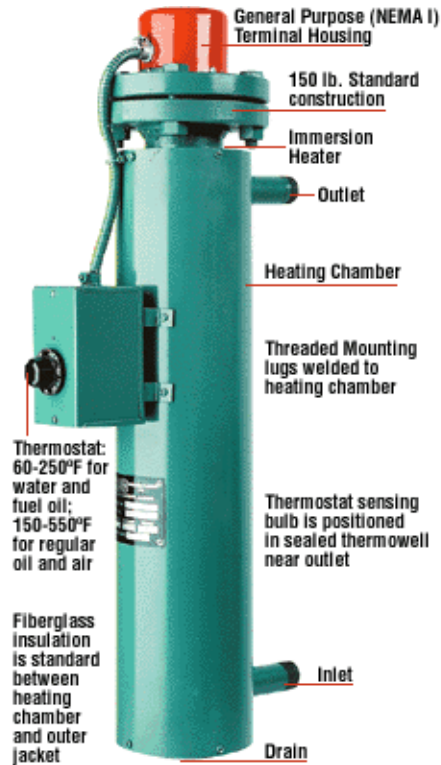


# CIRCULATION HEATERS



Compact and efficient, circulation heaters may be used in forced or natural circulation systems to heat flowing gasses or liquids. Pipe plug or Flanged immersion heater, vessel, insulation, terminal enclosure, mounting brackets and inlet and outlet connections are included. Installation is simple with only basic wiring and piping connections required. An integral thermostat is included on Series 1, 2, 3, and 5 items. An installation and maintenance manual is supplied with each Circulation Heater.

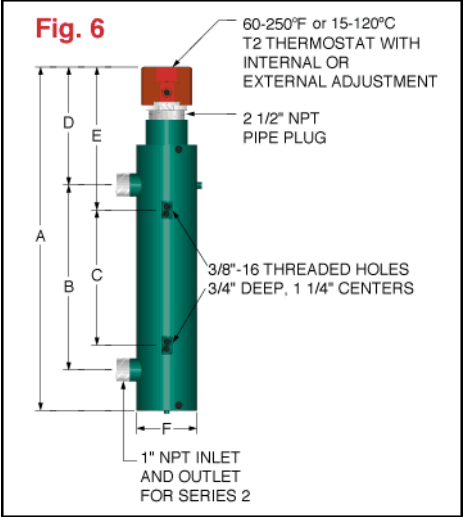
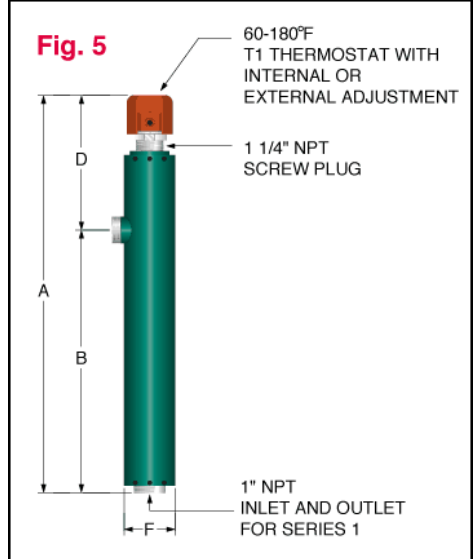
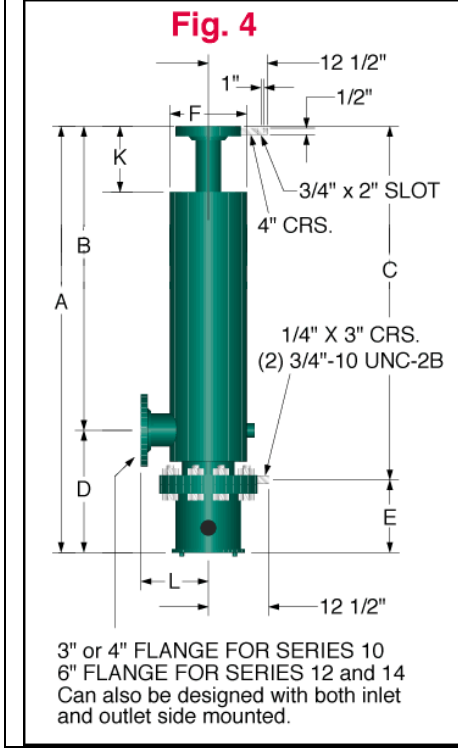
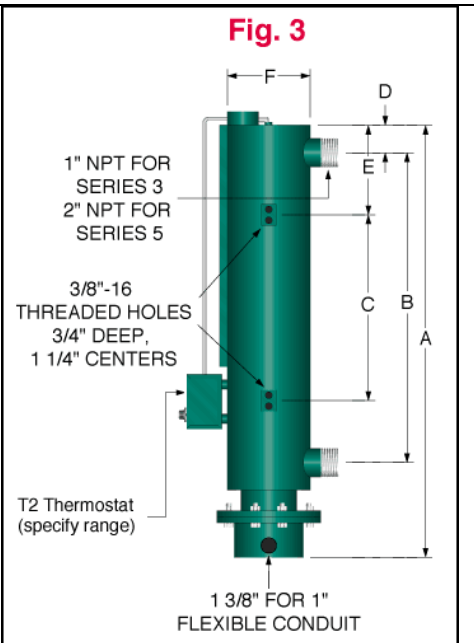
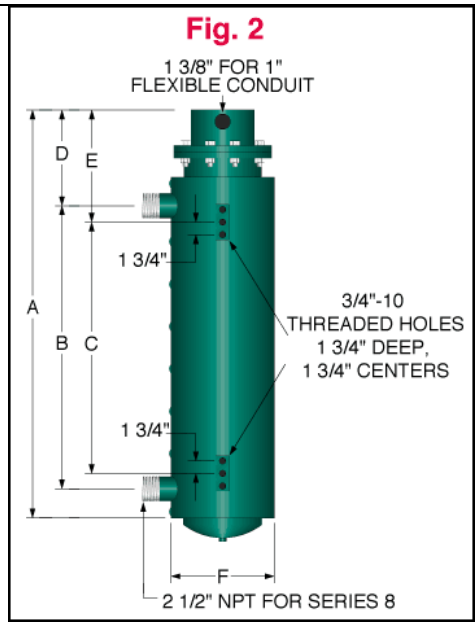
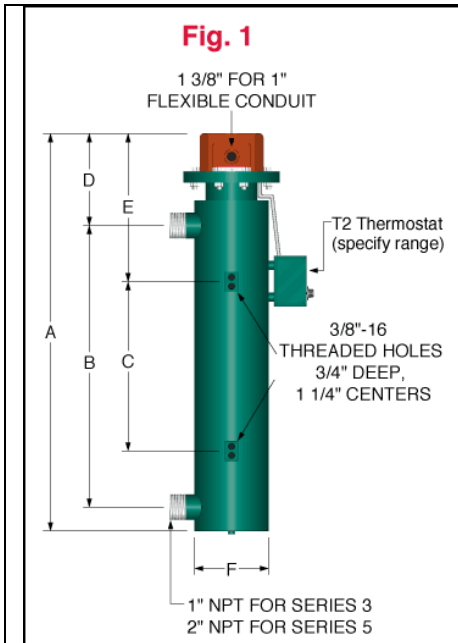
## Applications:

- **Heat transfer oils-** Molding dies and platens, closed loop heat transfer systems for heat sensitive materials
- **Fuel oil heating-** Pre-heating for delivery to burners, pre-heating to pumping viscosity
- **Water-** Dishwashing and rinsing, hot water storage tanks, process water, jacketed kettles.
- **Air, gasses, steam-** Process air, boosting temperatures of gasses, steam superheating

*Be certain that the sheath material and watt density selected are compatible with the material being heated and operating temperature.*

## Options:

- Special rating or size
- Moisture resistant/explosion resistant terminal enclosure
- Flexitallic gasket
- Mighty-Blade elements in some sizes
- Flanges on inlet and outlet on certain sizes
- Stainless steel heating chamber
- 300 lb. or 600 lb. heating chamber and flange construction
- Baffles in chamber to increase material velocity
- High temperature insulation (over 500° F application temperatures)
- Stand-off terminal enclosures to locate the termination from the flange surface on higher temperature processes (over 500° F)
- Thermostat on Series 8 and larger units
- T2R Thermostat with manual reset over-temperature cut-out
- Thermocouple mounted near outlet for precise process control and/or welded to element sheath for high-limit protection
- Passivation of wetted parts
- Weatherproof outer jacket
- Solid State Controls/Control Panels
- ASME Certification
- Hazardous Location (M6 and M7 terminal enclosure)



**For Moisture or Explosion Resistant Terminal Enclosures:**

**EXAMPLE:** CK5C-0016-M7. See Immersion Heater Section for description and overall dimensions.

M5 moisture resistant terminal enclosure also available on Series 1 and Series 2.

# CIRCULATION HEATERS

KILO-WATTS	VOLTS	PHASE	CLEAN WATER BOOSTER HEATING COPPER ELEMENTS	WATER BOOSTER HEATING INCOLOY ELEMENTS	CORROSIVE LIQUIDS & PURE WATER HEATING ALLWETTED PARTS PASSIVATED STAINLESS STEEL—CATALOG NUMBER	A	B	C	D	E	F
			80 WATTS/SQ. IN. CATALOG NUMBER	80 WATTS/SQ. IN. CATALOG NUMBER	CATALOG NUMBER						

## SERIES 1—1½" PIPE PLUG AND 1½" PIPEBODY(FIG. 5)

1.5	120	—	CKI-0084	CKJ-0060	—	18	12%	—	5%	—	4
1.5	240	—	CKI-0085	CKJ-0061	—						
2	120	—	CKI-0086	CKJ-0062	—	18	12%	—	5%	—	4
2	240	—	CKI-0087	CKJ-0063	—						
2.5	240	—	CKI-0088	CKJ-0064	—	22	16%	—	5%	—	4
3	240	—	CKI-0089	CKJ-0065	—	22	16%	—	5%	—	4

## SERIES 2—2½" PIPE PLUG AND 3" PIPEBODY(FIG. 6)

3	240	1	CKR-0009	CKS-0215	CKS-0008	21%	9%	—	9%	—	5%
3	240	3	CKR-0010	CKS-0216	CKS-0009						
3	480	3	CKR-0011	CKS-0217	CKS-0010						
4.5	240	1	CKR-0015	CKS-0218	CKS-0011	21%	9%	—	9%	—	5%
4.5	240	3	CKR-0016	CKS-0219	CKS-0012						
4.5	480	1	CKR-0017	CKS-0220	CKS-0013						
4.5	480	3	CKR-0018	CKS-0221	CKS-0014	34%	22½	16½	9%	12%	5%
6	240	1	CKR-0019	CKS-0222	CKS-0015						
6	240	3	CKR-0020	CKS-0223	CKS-0016						
6	480	1	CKR-0021	CKS-0224	CKS-0017	34%	22½	16½	9%	12%	5%
6	480	3	CKR-0022	CKS-0225	CKS-0018						
9	240	1	CKR-0027	CKS-0230	CKS-0023						
9	240	3	CKR-0028	CKS-0231	CKS-0024	34%	22½	16½	9%	12%	5%
9	480	1	CKR-0029	CKS-0232	CKS-0025						
9	480	3	CKR-0030	CKS-0233	CKS-0026						
12	240	3	CKR-0146	CKS-0235	CKS-0028	57½	45%	39%	9%	12%	5%
12	480	3	CKR-0148	CKS-0237	CKS-0030						
15	240	3	CKR-0150	CKS-0239	CKS-0032						
15	480	3	CKR-0152	CKS-0241	CKS-0034	57½	45%	39%	9%	12%	5%
18	240	3	CKR-0154	CKS-0243	CKS-0036						
18	480	3	CKR-0156	CKS-0245	CKS-0038						

3kw = 60 watts/sq. in.; 4.5kw = 52 watts/sq. in.; 6kw = 43 watts/sq. in.; 9kw = 44 watts/sq. in.

KILO-WATTS	VOLTS	3 PHASE	CLEAN WATER HEATING (1)	PROCESS WATER HEATING (2)	SOLUTION WATER HEATING (3)	CORROSIVE LIQUIDS AND PURE WATER HEATING (4)	A	B	C	D	E	F
			CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER						

## SERIES 3—3" FLANGE AND PIPEBODY(FIG. 1)

6	240		CK3C-0002	CK3A-0289	CK3A-0309	CK3A-0568	32%	22½	16½	7%	11%	6%
6	480		CK3C-0004	CK3A-0291	CK3A-0311	CK3A-0570						
9	240		CK3C-0006	CK3A-0293	CK3A-0313	CK3A-0572	32%	22½	16½	7%	11%	6%
9	480		CK3C-0008	CK3A-0295	CK3A-0315	CK3A-0574						
12	240		CK3C-0010	CK3A-0297	CK3A-0317	CK3A-0576	42%	32½	26½	7%	11%	6%
12	480		CK3C-0012	CK3A-0299	CK3A-0319	CK3A-0578						
15	240		CK3C-0014	CK3A-0301	CK3A-0321	CK3A-0580	54%	45	39	7%	11%	6%
15	480		CK3C-0016	CK3A-0303	CK3A-0323	CK3A-0582						
18	240		CK3C-0018	CK3A-0305	CK3A-0325	CK3A-0584	54%	45	39	7%	11%	6%
18	480		CK3C-0020	CK3A-0307	CK3A-0327	CK3A-0586						

## SERIES 5—5" FLANGE AND PIPEBODY(FIG. 1)

24	240		CK5C-0014	CK5A-0264	CK5A-0279	CK5A-0521	41⅜	30	25	8⅞	10⅝	8⅜
24	480		CK5C-0015	CK5A-0265	CK5A-0280	CK5A-0522						
30	240		CK5C-0016	CK5A-0266	CK5A-0281	CK5A-0523	48⅜	37	25	8⅞	14⅞	8⅝
30	480		CK5C-0017	CK5A-0267	CK5A-0282	CK5A-0524						
40	240		CK5C-0018	CK5A-0268	CK5A-0283	CK5A-0525	59⅞	48½	25	8⅞	20⅜	8⅝
40	480		CK5C-0019	CK5A-0269	CK5A-0284	CK5A-0526						
50	480		CK5C-0020	CK5A-0270	CK5A-0285	CK5A-0527	73⅞	61⅞	25	8⅞	26⅝	8⅝
60	480		CK5C-0021	CK5A-0271	CK5A-0286	CK5A-0528						

## SERIES 8—8" FLANGE AND PIPEBODY(FIG. 2)

50	240		CK8C-0001	CK8A-0126	CK8A-0140	CK8A-0338	45⅞	24%	21%	12%	14%	10%
50	480		CK8C-0002	CK8A-0127	CK8A-0141	CK8A-0339						
75	240		CK8C-0003	CK8A-0128	CK8A-0142	CK8A-0340	53⅞	32%	29%	12%	14%	10%
75	480		CK8C-0004	CK8A-0129	CK8A-0143	CK8A-0341						
100	240		CK8C-0005	CK8A-0130	CK8A-0144	CK8A-0342	60⅞	39%	36%	12%	14%	10%
100	480		CK8C-0006	CK8A-0131	CK8A-0145	CK8A-0343						
120	240		CK8C-0007	CK8A-0132	CK8A-0146	CK8A-0344	68⅞	47%	43%	12%	14%	10%
120	480		CK8C-0008	CK8A-0133	CK8A-0147	CK8A-0345						
150	480		CK8C-0010	CK8A-0135	CK8A-0149	CK8A-0347	77⅞	56%	53%	12%	14%	10%
175	480		CK8C-0012	CK8A-0137	CK8A-0151	CK8A-0349						
200	480		CK8C-0014	CK8A-0139	CK8A-0153	CK8A-0351	96⅞	75%	72%	12%	14%	10%

1. Copper Elements 45 watts/sq. in.; 2. Stainless Steel Elements 45 watts/sq. in.;

3. Incoloy Elements 45 watts/sq. in.; 4. Incoloy Elements, all other wetted parts passivated stainless steel 45 watts/sq. in.

# CIRCULATION HEATERS

KILO-WATTS	VOLTS 3 PHASE	CLEAN WATER HEATING COPPER ELEMENTS 45 WATTS/SQ. IN. CATALOG NUMBER	PROCESS WATER HEATING STAINLESS STEEL ELEMENTS 45 WATTS/SQ. IN. CATALOG NUMBER	SOLUTION WATER HEATING INCOLOY ELEMENTS 45 WATTS/SQ. IN. CATALOG NUMBER	A	B	C	D	E	F	K	L

### SERIES 10—10" FLANGE AND PIPEBODY (FIG. 4)

145	480	CK10C-0008	CK10A-0077	CK10A-0089	74	60%	66	13%	8	13%	3	13 <sup>1</sup> / <sub>8</sub>
175	480	CK10C-0010	CK10A-0079	CK10A-0091	81 <sup>1</sup> / <sub>2</sub>	67%	73 <sup>1</sup> / <sub>2</sub>	13%	8	13%	3	13 <sup>1</sup> / <sub>8</sub>
210	480	CK10C-0012	CK10A-0081	CK10A-0093	89	75%	81	13%	8	13%	3	13 <sup>1</sup> / <sub>8</sub>
240	480	CK10C-0014	CK10A-0083	CK10A-0095	96 <sup>1</sup> / <sub>2</sub>	82%	88 <sup>1</sup> / <sub>2</sub>	13%	8	13%	3	13 <sup>1</sup> / <sub>8</sub>
280	480	CK10C-0016	CK10A-0085	CK10A-0097	104	90%	96	13%	8	13%	3	13 <sup>1</sup> / <sub>8</sub>

### SERIES 12—12" FLANGE AND PIPEBODY (FIG. 4)

285	480	CK12C-0012	CK12A-0065	CK12A-0077	89%	75	81%	14%	8	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	14
325	480	CK12C-0014	CK12A-0067	CK12A-0079	96%	82 <sup>1</sup> / <sub>2</sub>	88%	14%	8	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	14
370	480	CK12C-0016	CK12A-0069	CK12A-0081	104 <sup>1</sup> / <sub>2</sub>	90	96%	14%	8	15 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	14

### SERIES 14—14" FLANGE AND PIPEBODY (FIG. 4)

355	480	CK14C-0009	CK14A-0067	CK14A-0079	89%	74%	81%	15%	8 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	15
405	480	CK14C-0011	CK14A-0069	CK14A-0081	97%	81%	88%	15%	8 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	15
465	480	CK14C-0013	CK14A-0071	CK14A-0083	104%	89%	96%	15%	8 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	15

### REGULAR OIL HEATING—Steel Sheath Elements—22 watts/sq.in.

KILO-WATTS	VOLTS	PHASE	CATALOG NUMBER	A	B	C	D	E	F
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### SERIES 2—2<sup>1</sup>/<sub>2</sub>" PIPE PLUG AND 3" PIPEBODY (FIG. 6)

3	240	1	CKQ-0005	34%	22 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	9%	12%	5%
3	240	3	CKQ-0006						
3	480	1	CKQ-0007						
3	480	3	CKQ-0008						
4.5	240	1	CKQ-0013	34%	22 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	9%	12%	5%
4.5	240	3	CKQ-0014						
4.5	480	1	CKQ-0015						
4.5	480	3	CKQ-0016	57 <sup>1</sup> / <sub>2</sub>	45%	39%	9%	12%	5%
6	240	1	CKQ-0017						
6	240	3	CKQ-0018						
6	480	1	CKQ-0019						
6	480	3	CKQ-0020	57 <sup>1</sup> / <sub>2</sub>	45%	39%	9%	12%	5%
7.5	240	1	CKQ-0021						
7.5	240	3	CKQ-0022						
7.5	480	1	CKQ-0023	57 <sup>1</sup> / <sub>2</sub>	45%	39%	9%	12%	5%
7.5	480	3	CKQ-0024						
9	240	1	CKQ-0025						
9	240	3	CKQ-0026	57 <sup>1</sup> / <sub>2</sub>	45%	39%	9%	12%	5%
9	480	1	CKQ-0027						
9	480	3	CKQ-0028						

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F
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### SERIES 3—3" FLANGE AND PIPEBODY (FIG. 1)

4.5	240	CK3S-0026	32%	22 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	7%	11%	6%
4.5	480	CK3S-0028						
6	240	CK3S-0030	42%	32 <sup>1</sup> / <sub>2</sub>	26 <sup>1</sup> / <sub>2</sub>	7%	11%	6%
6	480	CK3S-0032						
9	240	CK3S-0038	54%	45	39	7%	11%	6%
9	480	CK3S-0040						

### SERIES 5—5" FLANGE AND PIPEBODY (FIG. 1)

12	240	CK5S-0026	41 <sup>1</sup> / <sub>8</sub>	30	25	8 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>8</sub>	8%
12	480	CK5S-0027						
15	240	CK5S-0028	48 <sup>1</sup> / <sub>8</sub>	37	25	8 <sup>1</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>8</sub>	8%
15	480	CK5S-0029						
20	240	CK5S-0030	59 <sup>1</sup> / <sub>8</sub>	48 <sup>1</sup> / <sub>2</sub>	25	8 <sup>1</sup> / <sub>8</sub>	20 <sup>1</sup> / <sub>8</sub>	8%
20	480	CK5S-0031						
25	240	CK5S-0032	73 <sup>1</sup> / <sub>8</sub>	61 <sup>1</sup> / <sub>8</sub>	25	8 <sup>1</sup> / <sub>8</sub>	26 <sup>1</sup> / <sub>8</sub>	8%
25	480	CK5S-0033						
30	240	CK5S-0034	86 <sup>1</sup> / <sub>8</sub>	74%	25	8 <sup>1</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>8</sub>	8%
30	480	CK5S-0035						

## CIRCULATION HEATERS

REGULAR OIL HEATING—Steel Sheath Elements—22 watts/sq.in.

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F
<b>SERIES 8—8" FLANGE AND PIPEBODY (FIG. 2)</b>								
30	240	CK8S-0015	53 <sup>3</sup> / <sub>16</sub>	32 <sup>3</sup> / <sub>4</sub>	29 <sup>1</sup> / <sub>4</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
30	480	CK8S-0016						
40	240	CK8S-0017	60 <sup>9</sup> / <sub>16</sub>	39 <sup>3</sup> / <sub>4</sub>	36 <sup>1</sup> / <sub>4</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
40	480	CK8S-0018						
50	240	CK8S-0019	68 <sup>3</sup> / <sub>16</sub>	47 <sup>3</sup> / <sub>16</sub>	43 <sup>7</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
50	480	CK8S-0020						
60	240	CK8S-0021	77 <sup>11</sup> / <sub>16</sub>	56 <sup>7</sup> / <sub>16</sub>	53 <sup>3</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
60	480	CK8S-0022						
70	240	CK8S-0023	86 <sup>11</sup> / <sub>16</sub>	65 <sup>7</sup> / <sub>16</sub>	62 <sup>3</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
70	480	CK8S-0024						
80	240	CK8S-0025	96 <sup>11</sup> / <sub>16</sub>	75 <sup>7</sup> / <sub>16</sub>	72 <sup>3</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
80	480	CK8S-0026						

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F	K	L
<b>SERIES 10—10" FLANGE AND PIPEBODY (FIG. 4)</b>										
70	240	CK10S-0019	74	60 <sup>1</sup> / <sub>4</sub>	66	13 <sup>3</sup> / <sub>4</sub>	8	13 <sup>1</sup> / <sub>8</sub>	3	13 <sup>1</sup> / <sub>8</sub>
70	480	CK10S-0020								
85	240	CK10S-0021	81 <sup>1</sup> / <sub>2</sub>	67 <sup>3</sup> / <sub>4</sub>	73 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>4</sub>	8	13 <sup>1</sup> / <sub>8</sub>	3	13 <sup>1</sup> / <sub>8</sub>
85	480	CK10S-0022								
105	480	CK10S-0024	89	75 <sup>1</sup> / <sub>4</sub>	81	13 <sup>3</sup> / <sub>4</sub>	8	13 <sup>1</sup> / <sub>8</sub>	3	13 <sup>1</sup> / <sub>8</sub>
120	480	CK10S-0026	96 <sup>1</sup> / <sub>2</sub>	82 <sup>3</sup> / <sub>4</sub>	88 <sup>1</sup> / <sub>2</sub>	13 <sup>3</sup> / <sub>4</sub>	8	13 <sup>1</sup> / <sub>8</sub>	3	13 <sup>1</sup> / <sub>8</sub>
135	480	CK10S-0028	104	90 <sup>1</sup> / <sub>4</sub>	96	13 <sup>3</sup> / <sub>4</sub>	8	13 <sup>1</sup> / <sub>8</sub>	3	13 <sup>1</sup> / <sub>8</sub>

<b>SERIES 12—12" FLANGE AND PIPEBODY (FIG. 4)</b>										
140	480	CK12S-0024	89 <sup>1</sup> / <sub>4</sub>	75	81 <sup>1</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>	8	15 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	14
160	480	CK12S-0026	96 <sup>3</sup> / <sub>4</sub>	82 <sup>1</sup> / <sub>2</sub>	88 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>	8	15 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	14
180	480	CK12S-0028	104 <sup>1</sup> / <sub>4</sub>	90	96 <sup>1</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>	8	15 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	14

<b>SERIES 14—14" FLANGE AND PIPEBODY (FIG. 4)</b>										
175	480	CK14S-0021	89 <sup>5</sup> / <sub>8</sub>	74 <sup>3</sup> / <sub>8</sub>	81 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	15
200	480	CK14S-0023	97 <sup>1</sup> / <sub>8</sub>	81 <sup>1</sup> / <sub>8</sub>	88 <sup>3</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	15
225	480	CK14S-0025	104 <sup>5</sup> / <sub>8</sub>	89 <sup>3</sup> / <sub>8</sub>	96 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	15

FUEL OIL HEATING—Steel Sheath Elements—13 watts/sq.in.

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F
<b>SERIES 3—3" FLANGE AND PIPEBODY (FIG. 1)</b>								
3	240	CK3S-0042	32 <sup>3</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	7 <sup>5</sup> / <sub>8</sub>	11 <sup>5</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>
3	480	CK3S-0044						
6	240	CK3S-0050	54 <sup>7</sup> / <sub>8</sub>	45	39	7 <sup>5</sup> / <sub>8</sub>	11 <sup>5</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>
6	480	CK3S-0052						

<b>SERIES 5—5" FLANGE AND PIPEBODY (FIG. 1)</b>								
8	240	CK5S-0036	41 <sup>3</sup> / <sub>16</sub>	30	25	8 <sup>7</sup> / <sub>16</sub>	10 <sup>15</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>
8	480	CK5S-0037						
10	240	CK5S-0038	48 <sup>3</sup> / <sub>16</sub>	37	25	8 <sup>7</sup> / <sub>16</sub>	14 <sup>7</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>
10	480	CK5S-0039						
15	240	CK5S-0042	73 <sup>3</sup> / <sub>16</sub>	61 <sup>7</sup> / <sub>16</sub>	25	8 <sup>7</sup> / <sub>16</sub>	26 <sup>15</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>
15	480	CK5S-0043						
18	240	CK5S-0044	86 <sup>1</sup> / <sub>16</sub>	74 <sup>7</sup> / <sub>16</sub>	25	8 <sup>7</sup> / <sub>16</sub>	33 <sup>7</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>
18	480	CK5S-0045						

<b>SERIES 8—8" FLANGE AND PIPEBODY (FIG. 2)</b>								
20	240	CK8S-0052	53 <sup>3</sup> / <sub>16</sub>	32 <sup>3</sup> / <sub>4</sub>	29 <sup>1</sup> / <sub>4</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
20	480	CK8S-0053						
25	240	CK8S-0054	60 <sup>9</sup> / <sub>16</sub>	39 <sup>3</sup> / <sub>4</sub>	36 <sup>1</sup> / <sub>4</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
25	480	CK8S-0055						
30	240	CK8S-0056	68 <sup>3</sup> / <sub>16</sub>	47 <sup>3</sup> / <sub>16</sub>	43 <sup>7</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
30	480	CK8S-0057						
35	240	CK8S-0058	77 <sup>11</sup> / <sub>16</sub>	56 <sup>7</sup> / <sub>16</sub>	53 <sup>3</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
35	480	CK8S-0059						
40	240	CK8S-0060	86 <sup>11</sup> / <sub>16</sub>	65 <sup>7</sup> / <sub>16</sub>	62 <sup>3</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
40	480	CK8S-0061						
45	240	CK8S-0062	96 <sup>11</sup> / <sub>16</sub>	75 <sup>7</sup> / <sub>16</sub>	72 <sup>3</sup> / <sub>16</sub>	12 <sup>7</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>
45	480	CK8S-0063						

## CIRCULATION HEATERS

FUEL OIL HEATING—Steel Sheath Elements—13 watts/sq.in.

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F	K	L
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### SERIES 10—10" FLANGE AND PIPEBODY (FIG. 4)

35	240	CK10S-0031	74	60¼	66	13¾	8	13⅝	3	13⅞
35	480	CK10S-0032								
45	240	CK10S-0033	81½	67¾	73½	13¾	8	13⅝	3	13⅞
45	480	CK10S-0034								
50	240	CK10S-0035	89	75¼	81	13¾	8	13⅝	3	13⅞
50	480	CK10S-0036								
60	240	CK10S-0037	96½	82¾	88½	13¾	8	13⅝	3	13⅞
60	480	CK10S-0038								
70	240	CK10S-0039	104	90¼	96	13¾	8	13⅝	3	13⅞
70	480	CK10S-0040								

### SERIES 12—12" FLANGE AND PIPEBODY (FIG. 4)

70	480	CK12S-0036	89¼	75	81½	14¼	8	15½	3¼	14
80	480	CK12S-0038	96¾	82½	88½	14¼	8	15½	3¼	14
90	480	CK12S-0040	104½	90	96½	14¼	8	15½	3¼	14

### SERIES 14—14" FLANGE AND PIPEBODY (FIG. 4)

85	480	CK14S-0033	89⅝	74¾	81¼	15¼	8½	16¼	3½	15
100	480	CK14S-0035	97⅝	81⅝	88¾	15¼	8½	16¼	3½	15
115	480	CK14S-0037	104⅝	89¾	96¼	15¼	8½	16¼	3½	15

HEAVYWEIGHT OIL HEATING—Steel Sheath Elements—6.5 watts/sq.in.

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F
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### SERIES 3—3" FLANGE AND PIPEBODY (FIG. 1)

1.5	240	CK3S-0329	32¾	22½	16½	7⅝	11⅝	6⅝
1.5	480	CK3S-0331						
3	240	CK3S-0337	54⅞	45	39	7⅝	11⅝	6⅝
3	480	CK3S-0339						

### SERIES 5—5" FLANGE AND PIPEBODY (FIG. 1)

4	240	CK5S-0288	41⅜	30	25	8⅞	10⅝	8⅝
4	480	CK5S-0289						
9	240	CK5S-0292	86⅞	74⅞	25	8⅞	33⅞	8⅝
9	480	CK5S-0293						

### SERIES 8—8" FLANGE AND PIPEBODY (FIG. 2)

10	240	CK8S-0154	53⅞	32¾	29¼	12⅞	14⅞	10¾
10	480	CK8S-0155						
12.5	240	CK8S-0156	60⅞	39¾	36¼	12⅞	14⅞	10¾
12.5	480	CK8S-0157						
15	240	CK8S-0158	68⅞	47⅞	43⅞	12⅞	14⅞	10¾
15	480	CK8S-0159						
17.5	240	CK8S-0160	77⅞	56⅞	53⅞	12⅞	14⅞	10¾
17.5	480	CK8S-0161						
20	240	CK8S-0162	86⅞	65⅞	62⅞	12⅞	14⅞	10¾
20	480	CK8S-0163						
22.5	240	CK8S-0164	96⅞	75⅞	72⅞	12⅞	14⅞	10¾
22.5	480	CK8S-0165						

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F	K	L
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### SERIES 10—10" FLANGE AND PIPEBODY (FIG. 4)

24	240	CK10S-0102	81½	67¾	73⅝	13¾	8	13⅝	3	13⅞
24	480	CK10S-0103								
28	240	CK10S-0104	89	75¼	81	13¾	8	13⅝	3	13⅞
28	480	CK10S-0105								
33.5	240	CK10S-0106	96½	82¾	88½	13¾	8	13⅝	3	13⅞
33.5	480	CK10S-0107								
38	240	CK10S-0108	104	90¼	96	13¾	8	13⅝	3	13⅞
38	480	CK10S-0109								

### SERIES 12—12" FLANGE AND PIPEBODY (FIG. 4)

44.5	240	CK12S-0090	96¾	82½	88⅝	14¼	8	15½	3¼	14
44.5	480	CK12S-0091								
50.5	240	CK12S-0092	104½	90	96⅝	14¼	8	15½	3¼	14
50.5	480	CK12S-0093								

### SERIES 14—14" FLANGE AND PIPEBODY (FIG. 4)

55.75	240	CK14S-0092	97⅝	81⅝	88¾	15¼	8½	16¼	3½	15
55.75	480	CK14S-0093								
63	240	CK14S-0094	104⅝	89¾	96¼	15¼	8½	16¼	3½	15
63	480	CK14S-0095								

## CIRCULATION HEATERS

KILO-WATTS	VOLTS	PHASE	CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>2</sup>	A	B	C	D	E	F
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### SERIES 2—2½" PIPE PLUG AND 3" PIPEBODY (FIG. 6)

KILO-WATTS	VOLTS	PHASE	CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>2</sup>	A	B	C	D	E	F
3	240	1	CKS-0246	3¾	22½	16½	9¼	12¼	5⅝
3	240	3	CKS-0247						
3	480	1	CKS-0248						
3	480	3	CKS-0249	3¾	22½	16½	9¼	12¼	5⅝
4.5	240	1	CKS-0254						
4.5	240	3	CKS-0255						
4.5	480	1	CKS-0256	57½	45¼	39¼	9¼	12¼	5⅝
4.5	480	3	CKS-0257						
6	240	1	CKS-0258						
6	240	3	CKS-0259	57½	45¼	39¼	9¼	12¼	5⅝
6	480	1	CKS-0260						
6	480	3	CKS-0261						
7.5	240	1	CKS-0262	57½	45¼	39¼	9¼	12¼	5⅝
7.5	240	3	CKS-0263						
7.5	480	1	CKS-0264						
7.5	480	3	CKS-0265	57½	45¼	39¼	9¼	12¼	5⅝
9	240	1	CKS-0266						
9	240	3	CKS-0267						
9	480	1	CKS-0268	57½	45¼	39¼	9¼	12¼	5⅝
9	480	3	CKS-0269						

KILO-WATTS	VOLTS 3 PHASE	MILD CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>1</sup>	CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>2</sup>	AIR, GAS, STEAM HEATING CATALOG NUMBER <sup>3</sup>	A	B	C	D	E	F
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### SERIES 3—3" FLANGE AND PIPEBODY

3	240	CK3A-0341	CK3A-0054	ACK3A-0054	33⅝	22½	16½	3½	5½	6⅝
3	480	CK3A-0343	CK3A-0056	ACK3A-0056						
4.5	240	CK3A-0345	CK3A-0058	ACK3A-0058	43⅝	32½	26½	3½	5½	6⅝
4.5	480	CK3A-0347	CK3A-0060	ACK3A-0060						
6	240	CK3A-0349	CK3A-0062	ACK3A-0062	56⅝	45	39	3½	5½	6⅝
6	480	CK3A-0351	CK3A-0064	ACK3A-0064						

### SERIES 5—5" FLANGE AND PIPEBODY

9	240	CK5A-0294	CK5A-0046	ACK5A-0046	42 <sup>7</sup> / <sub>16</sub>	30	25	4	6½	8⅝
9	480	CK5A-0295	CK5A-0047	ACK5A-0047						
12	240	CK5A-0296	CK5A-0048	ACK5A-0048	49 <sup>7</sup> / <sub>16</sub>	37	25	4	10	8⅝
12	480	CK5A-0297	CK5A-0049	ACK5A-0049						
20	240	CK5A-0300	CK5A-0052	ACK5A-0052	60 <sup>19</sup> / <sub>16</sub>	48½	25	4	15⅝	8⅝
20	480	CK5A-0301	CK5A-0053	ACK5A-0053						
25	240	CK5A-0302	CK5A-0054	ACK5A-0054	74 <sup>9</sup> / <sub>16</sub>	61⅝	25	4	22⅝	8⅝
25	480	CK5A-0303	CK5A-0055	ACK5A-0055						
30	240	CK5A-0304	CK5A-0056	ACK5A-0056	87 <sup>9</sup> / <sub>16</sub>	74⅝	25	4	28⅝	8⅝
30	480	CK5A-0305	CK5A-0057	ACK5A-0057						

### SERIES 8—8" FLANGE AND PIPEBODY

30	240	CK8A-0166	CK8A-0027	ACK8A-0027	53 <sup>9</sup> / <sub>16</sub>	32¾	29¼	12⅝	14⅝	10¼
30	480	CK8A-0167	CK8A-0028	ACK8A-0028						
40	240	CK8A-0168	CK8A-0029	ACK8A-0029	60 <sup>9</sup> / <sub>16</sub>	39¾	36¼	12⅝	14⅝	10¼
40	480	CK8A-0169	CK8A-0030	ACK8A-0030						
50	240	CK8A-0170	CK8A-0031	ACK8A-0031	68 <sup>3</sup> / <sub>16</sub>	47⅝	43⅝	12⅝	14⅝	10¼
50	480	CK8A-0171	CK8A-0032	ACK8A-0032						

KILO-WATTS	VOLTS 3 PHASE	MILD CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>1</sup>	CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>2</sup>	AIR, GAS, STEAM HEATING CATALOG NUMBER <sup>3</sup>	A	B	C	D	E	F	K	L
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### SERIES 10—10" FLANGE AND PIPEBODY

70	240	CK10A-0112	CK10A-0043	ACK10A-0043	74	60¼	66	13¾	8	13⅝	3	13⅝
70	480	CK10A-0113	CK10A-0044	ACK10A-0044								
85	240	CK10A-0114	CK10A-0045	ACK10A-0045	81½	67¾	73⅝	13¾	8	13⅝	3	13⅝
85	480	CK10A-0115	CK10A-0046	ACK10A-0046								
105	480	CK10A-0117	CK10A-0048	ACK10A-0048	89	75¼	81	13¾	8	13⅝	3	13⅝
120	480	CK10A-0119	CK10A-0050	ACK10A-0050								
135	480	CK10A-0121	CK10A-0052	ACK10A-0052	104	90¼	96	13¾	8	13⅝	3	13⅝

KILO-WATTS	VOLTS 3 PHASE	MILD CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>1</sup>	CORROSIVE SOLUTION HEATING CATALOG NUMBER <sup>2</sup>	AIR, GAS, STEAM HEATING CATALOG NUMBER <sup>3</sup>								
					A	B	C	D	E	F	K	L

**SERIES 12—12" FLANGE AND PIPEBODY**

140	480	CK12A-0101	CK12A-0048	ACK12A-0048	89 $\frac{3}{4}$	75	81 $\frac{1}{8}$	14 $\frac{1}{4}$	8	15 $\frac{1}{2}$	3 $\frac{1}{4}$	14
160	480	CK12A-0103	CK12A-0050	ACK12A-0050	96 $\frac{3}{4}$	82 $\frac{1}{2}$	88 $\frac{5}{8}$	14 $\frac{1}{4}$	8	15 $\frac{1}{2}$	3 $\frac{1}{4}$	14
180	480	CK12A-0105	CK12A-0052	ACK12A-0052	104 $\frac{1}{4}$	90	96 $\frac{1}{8}$	14 $\frac{1}{4}$	8	15 $\frac{1}{2}$	3 $\frac{1}{4}$	14

**SERIES 14—14" FLANGE AND PIPEBODY**

175	480	CK14A-0103	CK14A-0045	ACK14A-0045	89 $\frac{5}{8}$	74 $\frac{3}{8}$	81 $\frac{1}{4}$	15 $\frac{1}{4}$	8 $\frac{1}{2}$	16 $\frac{1}{4}$	3 $\frac{1}{2}$	15
200	480	CK14A-0105	CK14A-0047	ACK14A-0047	97 $\frac{1}{8}$	81 $\frac{1}{8}$	88 $\frac{3}{4}$	15 $\frac{1}{4}$	8 $\frac{1}{2}$	16 $\frac{1}{4}$	3 $\frac{1}{2}$	15
225	480	CK14A-0107	CK14A-0049	ACK14A-0049	104 $\frac{5}{8}$	89 $\frac{3}{8}$	96 $\frac{1}{4}$	15 $\frac{1}{4}$	8 $\frac{1}{2}$	16 $\frac{1}{4}$	3 $\frac{1}{2}$	15

<sup>1</sup>STAINLESS STEEL ELEMENTS  
22 watts/sq. in.  
(Fig. 1 for Series 3 & 5)  
(Fig. 2 for Series 8)  
(Fig. 4 for Series 10, 12, 14)

<sup>2</sup>INCOLOY SHEATH ELEMENTS  
22 watts/sq. in.  
(Fig. 1 for Series 3 & 5)  
(Fig. 2 for Series 8)  
(Fig. 4 for Series 10, 12, 14)  
(Fig. 6 for Series 2)  
Process may require all wetted parts to be stainless steel—consult factory

<sup>3</sup>INCOLOY SHEATH ELEMENTS  
22 watts/sq. in.  
(Fig. 3 for Series 3 & 5)  
(Fig. 2 for Series 8)  
(Fig. 4 for Series 10, 12, 14)  
Processes at elevated temperature and pressure may require high pressure rated flange and chamber—consult factory

**CORROSIVE SOLUTION HEATING—INCOLOY SHEATH ELEMENTS—All other wetted parts, passivated 304 stainless steel—15 watts/sq. in.**

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F
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**SERIES 3—3" FLANGE AND PIPEBODY (FIG. 1)**

2	240	CK3A-0439	33 $\frac{3}{8}$	22 $\frac{1}{2}$	16 $\frac{1}{2}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{8}$
2	480	CK3A-0441						
3	240	CK3A-0443	43 $\frac{3}{8}$	32 $\frac{1}{2}$	26 $\frac{1}{2}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{8}$
3	480	CK3A-0445						
4	240	CK3A-0447	56 $\frac{1}{8}$	45	39	3 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{8}$
4	480	CK3A-0449						

**SERIES 5—5" FLANGE AND PIPEBODY (FIG. 1)**

6	240	CK5A-0387	42 $\frac{1}{16}$	30	25	4	6 $\frac{1}{2}$	8 $\frac{5}{8}$
6	480	CK5A-0388						
8	240	CK5A-0389	49 $\frac{1}{16}$	37	25	4	10	8 $\frac{5}{8}$
8	480	CK5A-0390						
13.5	240	CK5A-0393	60 $\frac{1}{16}$	48 $\frac{1}{2}$	25	4	15 $\frac{5}{8}$	8 $\frac{5}{8}$
13.5	480	CK5A-0394						
17	240	CK5A-0395	74 $\frac{1}{16}$	61 $\frac{1}{8}$	25	4	22 $\frac{3}{8}$	8 $\frac{5}{8}$
17	480	CK5A-0396						
20	240	CK5A-0397	87 $\frac{1}{16}$	74 $\frac{1}{8}$	25	4	28 $\frac{3}{8}$	8 $\frac{5}{8}$
20	480	CK5A-0398						

**SERIES 8—8" FLANGE AND PIPEBODY (FIG. 2)**

20	240	CK8A-0222	53 $\frac{1}{16}$	32 $\frac{3}{4}$	29 $\frac{1}{4}$	12 $\frac{7}{8}$	14 $\frac{3}{8}$	10 $\frac{3}{4}$
20	480	CK8A-0223						
27	240	CK8A-0224	60 $\frac{1}{16}$	39 $\frac{3}{4}$	36 $\frac{1}{4}$	12 $\frac{7}{8}$	14 $\frac{3}{8}$	10 $\frac{3}{4}$
27	480	CK8A-0225						
34	240	CK8A-0226	68 $\frac{1}{16}$	47 $\frac{3}{8}$	43 $\frac{3}{8}$	12 $\frac{7}{8}$	14 $\frac{3}{8}$	10 $\frac{3}{4}$
34	480	CK8A-0227						

KILO-WATTS	VOLTS 3 PHASE	CATALOG NUMBER	A	B	C	D	E	F	K	L
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**SERIES 10—10" FLANGE AND PIPEBODY (FIG. 4)**

48	240	CK10A-0177	74	60 $\frac{1}{4}$	66	13 $\frac{3}{4}$	8	13 $\frac{1}{8}$	3	13 $\frac{1}{8}$
48	480	CK10A-0178								
58	240	CK10A-0179	81 $\frac{1}{2}$	67 $\frac{3}{4}$	73 $\frac{1}{8}$	13 $\frac{3}{4}$	8	13 $\frac{1}{8}$	3	13 $\frac{1}{8}$
58	480	CK10A-0180								
72	240	CK10A-0181	89	75 $\frac{1}{4}$	81	13 $\frac{3}{4}$	8	13 $\frac{1}{8}$	3	13 $\frac{1}{8}$
72	480	CK10A-0182								
80	240	CK10A-0183	96 $\frac{1}{2}$	82 $\frac{3}{4}$	88 $\frac{1}{2}$	13 $\frac{3}{4}$	8	13 $\frac{1}{8}$	3	13 $\frac{1}{8}$
80	480	CK10A-0184								
92	480	CK10A-0186	104	90 $\frac{1}{4}$	96	13 $\frac{3}{4}$	8	13 $\frac{1}{8}$	3	13 $\frac{1}{8}$

**SERIES 12—12" FLANGE AND PIPEBODY (FIG. 4)**

95	480	CK12A-0153	89 $\frac{3}{4}$	75	81 $\frac{1}{8}$	14 $\frac{1}{4}$	8	15 $\frac{1}{2}$	3 $\frac{1}{4}$	14
109	480	CK12A-0155	96 $\frac{3}{4}$	82 $\frac{1}{2}$	88 $\frac{5}{8}$	14 $\frac{1}{4}$	8	15 $\frac{1}{2}$	3 $\frac{1}{4}$	14
123	480	CK12A-0157	104 $\frac{1}{4}$	90	96 $\frac{1}{8}$	14 $\frac{1}{4}$	8	15 $\frac{1}{2}$	3 $\frac{1}{4}$	14

**SERIES 14—14" FLANGE AND PIPEBODY (FIG. 4)**

120	480	CK14A-0159	89 $\frac{5}{8}$	74 $\frac{3}{8}$	81 $\frac{1}{4}$	15 $\frac{1}{4}$	8 $\frac{1}{2}$	16 $\frac{1}{4}$	3 $\frac{1}{2}$	15
135	480	CK14A-0161	97 $\frac{1}{8}$	81 $\frac{1}{8}$	88 $\frac{3}{4}$	15 $\frac{1}{4}$	8 $\frac{1}{2}$	16 $\frac{1}{4}$	3 $\frac{1}{2}$	15
153	480	CK14A-0163	104 $\frac{5}{8}$	89 $\frac{3}{8}$	96 $\frac{1}{4}$	15 $\frac{1}{4}$	8 $\frac{1}{2}$	16 $\frac{1}{4}$	3 $\frac{1}{2}$	15





Customer Name : \_\_\_\_\_

Customer Number : \_\_\_\_\_

Date : \_\_\_\_\_ Completed By : \_\_\_\_\_

Quantity: \_\_\_\_\_

### Circulation Heater Product Data Sheet

Approval drawing required

Part Number: \_\_\_\_\_ A/E: \_\_\_\_\_

Part Number Format: CK3A-XXXX

**Vessel Specification:** (Please check all applicable)

- 1. Rating: Watts \_\_\_\_\_ Volts \_\_\_\_\_ Phase \_\_\_\_\_
- 2. Vessel Size: 1-½"  2-½"  3"  4"  5"   
8"  10"  12"  14"  Other: \_\_\_\_\_
- 3. Vessel Material: Steel  304 SS  316 SS   
Other(Specify): \_\_\_\_\_
- 4. Inlet & Outlet Size: \_\_\_\_\_ Type: NPT  Flanged
- 5. Inlet & Outlet "Center-To-Center" Length: \_\_\_\_\_
- 6. Heater Enclosure: M0  M1  M6  M7

**Heater Specification:** (Please check all applicable)

- A. Flange or Pipe Plug Size: 1-¼" NPT  2-½" NPT   
3"  4"  5"  8"  10"  12"   
14"  Other: \_\_\_\_\_
- B. Flange or Pipe Plug Material: Steel  304 SS   
316 SS  Brass (Plug Only)  Other: \_\_\_\_\_
- C. Flange Rating: 150 lb.  300 lb.  Other: \_\_\_\_\_
- D. Sheath Material: Incoloy  Stainless Steel   
Steel  Copper  Other: \_\_\_\_\_
- E. # of Elements: \_\_\_\_\_ "B" Dimension: \_\_\_\_\_  
Cold Length below Flange: \_\_\_\_\_
- F. Thermostat Mounted On Tank: None   
T2: 0-100°F  60-250°F  150-550°F
- G. Over-Temperature Cut-out:  
T2R: 60-250°F  100-550°F  300-650°F

H. Thermostat Enclosure (If applicable): General Purpose

Moisture Resistant  Explosion Resistant

Explosion Resistant/Moisture Resistant

I. A.S.M.E.: Design Only  Design & Certify

J. Agency Approvals: None  CE

For Hazardous Locations: C.S.A.  NRTL

K. Other Special Features:

Terminal Seals (See Flanged Htr Data Sheet for more info)

Mighty Blade Elements  Cross Flow Baffles

Stand-Off Enclosure: 4"  6"  Other: \_\_\_\_\_

High-Limit T/C welded to sheath: "J"  "K"

Passivation of wetted parts

Other (Specify): \_\_\_\_\_

**Operating Conditions:**

I. Application (Describe in detail): \_\_\_\_\_

Heated Medium: Gas  Liquid

II. Operating Temperature: \_\_\_\_\_ °F

III. Operating Pressure: \_\_\_\_\_ psig

IV. Installation Environment: Indoor  Outdoor

Hazardous [ Div \_\_\_\_\_ Group \_\_\_\_\_ ]

V. Ambient Temperature: \_\_\_\_\_

