

FLANGED IMMERSION HEATERS

SOLUTION WATER HEATING

- Incoloy Elements
- 45 watts/square inch

For use in severe industrial process and solution water where the high nickel content of the Incoloy elements will resist chemical attack. 3" and 5" sizes have standard listings with stainless steel flanges.

- Maximum pH range of 5-9
- Less than 6% solution of alkaline or acid content
- See Watt Density and Operating Temperature Guideline (23T)
- See Corrosion Resistance of Sheath Materials (24T)

3" 150 LB ASA FLANGE					CATALOG NUMBERS WITH STEEL FLANGE		CATALOG NUMBERS WITH STAINLESS STEEL FLANGE	
KILOWATTS	VOLTS	PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 1	FIG. 2	FIG. 1	FIG. 2
6	240	1	1	18 $\frac{1}{2}$	K3A-3-0308-M1	K3A-0308-M7	K3A-3-0567-M1	K3A-3-0567-M7
6	240	3	1		K3A-3-0309-M1	K3A-0309-M7	K3A-3-0568-M1	K3A-3-0568-M7
6	480	1	1		K3A-3-0310-M1	K3A-0310-M7	K3A-3-0569-M1	K3A-3-0569-M7
6	480	3	1		K3A-3-0311-M1	K3A-0311-M7	K3A-3-0570-M1	K3A-3-0570-M7
9	240	1	1	25 $\frac{1}{2}$	K3A-3-0312-M1	K3A-0312-M7	K3A-3-0571-M1	K3A-3-0571-M7
9	240	3	1		K3A-3-0313-M1	K3A-0313-M7	K3A-3-0572-M1	K3A-3-0572-M7
9	480	1	1		K3A-3-0314-M1	K3A-0314-M7	K3A-3-0573-M1	K3A-3-0573-M7
9	480	3	1		K3A-3-0315-M1	K3A-0315-M7	K3A-3-0574-M1	K3A-3-0574-M7
12	240	1	1	33 $\frac{1}{2}$	K3A-3-0316-M1	K3A-0316-M7	K3A-3-0575-M1	K3A-3-0575-M7
12	240	3	1		K3A-3-0317-M1	K3A-0317-M7	K3A-3-0576-M1	K3A-3-0576-M7
12	480	1	1		K3A-3-0318-M1	K3A-0318-M7	K3A-3-0577-M1	K3A-3-0577-M7
12	480	3	1		K3A-3-0319-M1	K3A-0319-M7	K3A-3-0578-M1	K3A-3-0578-M7
15	240	1	1	40 $\frac{1}{2}$	K3A-3-0320-M1	K3A-0320-M7	K3A-3-0579-M1	K3A-3-0579-M7
15	240	3	1		K3A-3-0321-M1	K3A-0321-M7	K3A-3-0580-M1	K3A-3-0580-M7
15	480	1	1		K3A-3-0322-M1	K3A-0322-M7	K3A-3-0581-M1	K3A-3-0581-M7
15	480	3	1		K3A-3-0323-M1	K3A-0323-M7	K3A-3-0582-M1	K3A-3-0582-M7
18	240	1	1	48 $\frac{1}{2}$	K3A-3-0324-M1	K3A-0324-M7	K3A-3-0583-M1	K3A-3-0583-M7
18	240	3	1		K3A-3-0325-M1	K3A-0325-M7	K3A-3-0584-M1	K3A-3-0584-M7
18	480	1	1		K3A-3-0326-M1	K3A-0326-M7	K3A-3-0585-M1	K3A-3-0585-M7
18	480	3	1		K3A-3-0327-M1	K3A-0327-M7	K3A-3-0586-M1	K3A-3-0586-M7

4" 150 LB ASA STEEL FLANGE					CATALOG NUMBERS	
KILOWATTS	VOLTS	PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 3	FIG. 4
9	240	1	1	13 $\frac{1}{2}$	K4A-6-0072-M1	K4A-6-0072-M7
9	240	3	1		K4A-6-0073-M1	K4A-6-0073-M7
9	480	1	1		K4A-6-0074-M1	K4A-6-0074-M7
9	480	3	1		K4A-6-0075-M1	K4A-6-0075-M7
12	240	1	1	18	K4A-6-0076-M1	K4A-6-0076-M7
12	240	3	1		K4A-6-0077-M1	K4A-6-0077-M7
12	480	1	1		K4A-6-0078-M1	K4A-6-0078-M7
12	480	3	1		K4A-6-0079-M1	K4A-6-0079-M7
15	240	1	2	20 $\frac{1}{2}$	K4A-6-0080-M1	K4A-6-0080-M7
15	240	3	1		K4A-6-0081-M1	K4A-6-0081-M7
15	480	1	1		K4A-6-0082-M1	K4A-6-0082-M7
15	480	3	1		K4A-6-0083-M1	K4A-6-0083-M7
18	240	1	2	25 $\frac{1}{2}$	K4A-6-0084-M1	K4A-6-0084-M7
18	240	3	1		K4A-6-0085-M1	K4A-6-0085-M7
18	480	1	1		K4A-6-0086-M1	K4A-6-0086-M7
18	480	3	1		K4A-6-0087-M1	K4A-6-0087-M7
24	240	3	2	33	K4A-6-0088-M1	K4A-6-0088-M7
24	480	3	1		K4A-6-0089-M1	K4A-6-0089-M7
30	240	3	2	40 $\frac{1}{2}$	K4A-6-0090-M1	K4A-6-0090-M7
30	480	3	1		K4A-6-0091-M1	K4A-6-0091-M7
36	240	3	2	48	K4A-6-0092-M1	K4A-6-0092-M7
36	480	3	1		K4A-6-0093-M1	K4A-6-0093-M7

INCOLOY ELEMENTS— 45 watts/square inch

5" 150 LB ASA FLANGE				CAT. NOS. W/STEEL FLANGE		CAT. NOS. W/S.S. FLANGE			
KILOWATTS	VOLTS 3 PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 5	FIG. 6	FIG. 5	FIG. 6		
12	240	1	18 ⁵ / ₈	K5A-6-0273-M1	K5A-6-0273-M7				
12	480	1		K5A-6-0274-M1	K5A-6-0274-M7				
15	240	1	19 ¹ / ₈	K5A-6-0275-M1	K5A-6-0275-M7				
15	480	1		K5A-6-0276-M1	K5A-6-0276-M7				
18	240	1	25 ³ / ₈	K5A-6-0277-M1	K5A-6-0277-M7				
18	480	1		K5A-6-0278-M1	K5A-6-0278-M7				
24	240	2	33 ³ / ₈	K5A-6-0279-M1	K5A-6-0279-M7			K5A-6-0521-M1	K5A-6-0521-M7
24	480	1		K5A-6-0280-M1	K5A-6-0280-M7			K5A-6-0522-M1	K5A-6-0522-M7
30	240	2	40 ⁰ / ₈	K5A-6-0281-M1	K5A-6-0281-M7			K5A-6-0523-M1	K5A-6-0523-M7
30	480	1		K5A-6-0282-M1	K5A-6-0282-M7			K5A-6-0524-M1	K5A-6-0524-M7
40	240	2	52 ² / ₈	K5A-6-0283-M1	K5A-6-0283-M7	K5A-6-0525-M1	K5A-6-0525-M7		
40	480	1		K5A-6-0284-M1	K5A-6-0284-M7	K5A-6-0526-M1	K5A-6-0526-M7		
50	480	2	65 ⁵ / ₈	K5A-6-0285-M1	K5A-6-0285-M7	K5A-6-0527-M1	K5A-6-0527-M7		
60	480	2	78 ⁵ / ₈	K5A-6-0286-M1	K5A-6-0286-M7	K5A-6-0528-M1	K5A-6-0528-M7		

6" 150 LB ASA STEEL FLANGE				CATALOG NUMBERS		
KILOWATTS	VOLTS 3 PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 7	FIG. 8	FIG. 9
36	240	2	25 ¹ / ₂	K6A-12-0160-M1	K6A-12-0160-M5	K6A-12-0160-M6
36	480	1		K6A-12-0161-M1	K6A-12-0161-M5	K6A-12-0161-M6
48	240	2	33	K6A-12-0162-M1	K6A-12-0162-M5	K6A-12-0162-M6
48	480	2		K6A-12-0163-M1	K6A-12-0163-M5	K6A-12-0163-M6
60	240	4	40 ¹ / ₂	K6A-12-0164-M1	K6A-12-0164-M5	K6A-12-0164-M6
60	480	2		K6A-12-0165-M1	K6A-12-0165-M5	K6A-12-0165-M6
72	240	4	48	K6A-12-0166-M1	K6A-12-0166-M5	K6A-12-0166-M6
72	480	2		K6A-12-0167-M1	K6A-12-0167-M5	K6A-12-0167-M6

8" 150 LB ASA STEEL FLANGE				CATALOG NUMBERS		
KILOWATTS	VOLTS 3 PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 10	FIG. 11	FIG. 12
50	240	3	27 ¹ / ₂	K8A-18-0140-M1	K8A-18-0140-M5	K8A-18-0140-M6
50	480	2		K8A-18-0141-M1	K8A-18-0141-M5	K8A-18-0141-M6
75	240	3	36 ¹ / ₂	K8A-18-0142-M1	K8A-18-0142-M5	K8A-18-0142-M6
75	480	2		K8A-18-0143-M1	K8A-18-0143-M5	K8A-18-0143-M6
100	240	3	43 ¹ / ₈	K8A-18-0144-M1	K8A-18-0144-M5	K8A-18-0144-M6
100	480	3		K8A-18-0145-M1	K8A-18-0145-M5	K8A-18-0145-M6
120	240	6	51 ¹ / ₂	K8A-18-0146-M1	K8A-18-0146-M5	K8A-18-0146-M6
120	480	3		K8A-18-0147-M1	K8A-18-0147-M5	K8A-18-0147-M6
150	480	3	61 ¹ / ₂	K8A-18-0149-M1	K8A-18-0149-M5	K8A-18-0149-M6
175	480	3	69 ¹ / ₂	K8A-18-0151-M1	K8A-18-0151-M5	K8A-18-0151-M6
200	480	3	78 ¹ / ₂	K8A-18-0153-M1	K8A-18-0153-M5	K8A-18-0153-M6

10" 150 LB ASA STEEL FLANGE				CATALOG NUMBERS		
KILOWATTS	VOLTS 3 PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 13	FIG. 14	FIG. 15
100	480	3	32	K10A-27-0087-M1	K10A-27-0087-M5	K10A-27-0087-M6
145	480	9	43 ¹ / ₈	K10A-27-0089-M1	K10A-27-0089-M5	K10A-27-0089-M6
175	480	9	51 ¹ / ₂	K10A-27-0091-M1	K10A-27-0091-M5	K10A-27-0091-M6
210	480	9	61 ¹ / ₂	K10A-27-0093-M1	K10A-27-0093-M5	K10A-27-0093-M6
240	480	9	69 ¹ / ₂	K10A-27-0095-M1	K10A-27-0095-M5	K10A-27-0095-M6
280	480	9	78 ¹ / ₂	K10A-27-0097-M1	K10A-27-0097-M5	K10A-27-0097-M6

12" 150 LB ASA STEEL FLANGE				CATALOG NUMBERS		
KILOWATTS	VOLTS 3 PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 16	FIG. 17	FIG. 18
135	480	4	32	K12A-36-0071-M1	K12A-36-0071-M5	K12A-36-0071-M6
195	480	6	43 ¹ / ₈	K12A-36-0073-M1	K12A-36-0073-M5	K12A-36-0073-M6
235	480	6	51 ¹ / ₂	K12A-36-0075-M1	K12A-36-0075-M5	K12A-36-0075-M6
285	480	6	61 ¹ / ₂	K12A-36-0077-M1	K12A-36-0077-M5	K12A-36-0077-M6
325	480	6	69 ¹ / ₂	K12A-36-0079-M1	K12A-36-0079-M5	K12A-36-0079-M6
370	480	12	78 ¹ / ₂	K12A-36-0081-M1	K12A-36-0081-M5	K12A-36-0081-M6

14" 150 LB ASA STEEL FLANGE				CATALOG NUMBERS		
KILOWATTS	VOLTS 3 PHASE	NUMBER OF CIRCUITS	B IMMERSION LENGTH	FIG. 19	FIG. 20	FIG. 21
165	480	5	32	K14A-45-0073-M1	K14A-45-0073-M5	K14A-45-0073-M6
240	480	5	43 ¹ / ₈	K14A-45-0075-M1	K14A-45-0075-M5	K14A-45-0075-M6
295	480	5	51 ¹ / ₂	K14A-45-0077-M1	K14A-45-0077-M5	K14A-45-0077-M6
355	480	10	61 ¹ / ₂	K14A-60-0079-M1*	K14A-60-0079-M5*	K14A-60-0079-M6*
405	480	10	69 ¹ / ₂	K14A-60-0081-M1*	K14A-60-0081-M5*	K14A-60-0081-M6*
465	480	10	78 ¹ / ₂	K14A-60-0083-M1*	K14A-60-0083-M5*	K14A-60-0083-M6*

*60 elements—35 watts/square inch