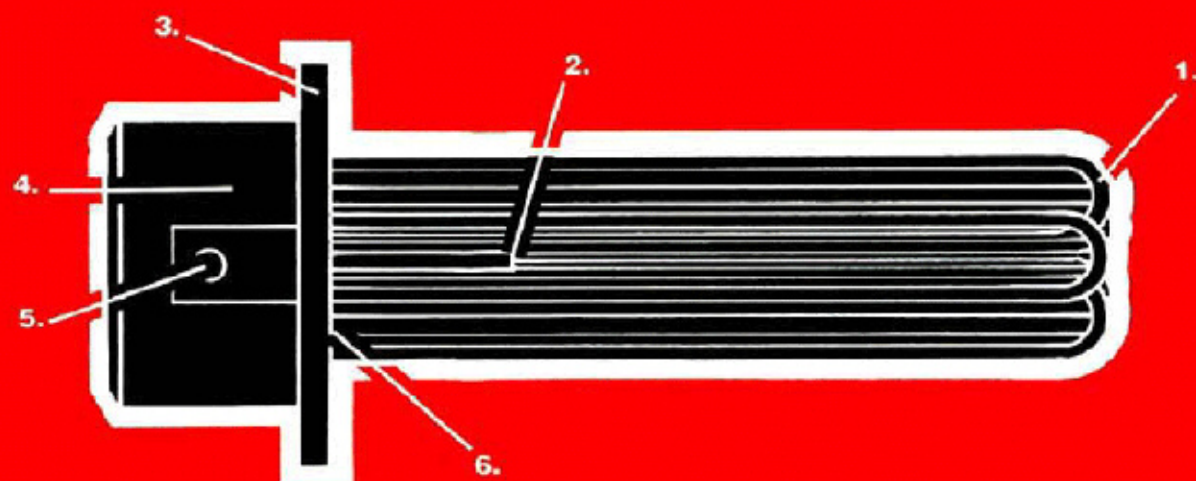


FLANGED IMMERSION HEATERS



1. .475" DIA. INCOLOY SHEATHED TUBULAR ELEMENTS
2. 1/2" DIA. INCOLOY THERMOWELL TO ACCEPT UP TO 3/8" DIA. SENSING BULB
3. ASA 150 LB. CARBON STEEL BLIND FLANGES

4. NEMA 1 GENERAL PURPOSE WIRING ENCLOSURE
5. FIXED SUPPORT BRACKET FOR CONDUIT CONNECTION ALLOWS COVER TO BE REMOVED WITHOUT DISTURBING WIRING CONNECTIONS
6. LEAKTIGHT WELDED CONSTRUCTION BETWEEN ELEMENTS AND FLANGE

FEATURES

- ANSI RAISED FACE FLANGES
- INCOLOY ELEMENTS STANDARD
- WELDED OR BRAZED CONSTRUCTION
- NEMA 1 HOUSING STANDARD
- NEMA 4/7 HOUSING OPTIONAL
- BUILT-IN THERMOSTATS AVAILABLE
- ASME CODE STAMPED OPTIONAL

APPLICATIONS

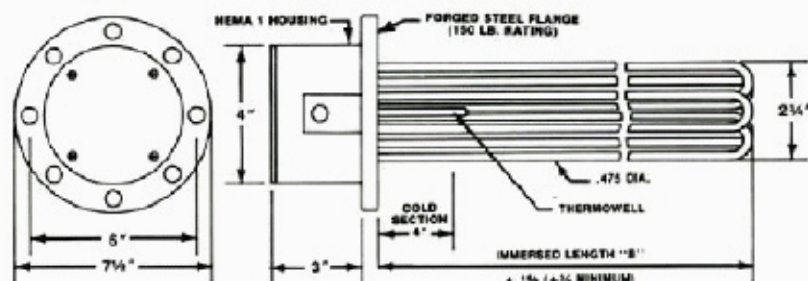
- HOT LIQUID STORAGE
- PRE-HEATING OILS
- HEAT TRANSFER SYSTEMS
- PROCESS AIR AND GAS HEATING
- FOOD PROCESS EQUIPMENT
- FREEZE PROTECTION
- BOILER HEATING

DELTA 
MANUFACTURING
COMPANY INCORPORATED

FLANGED IMMERSION HEATERS

3" - 150#

(3) .475 dia. elements



48 WSI

23 WSI

12 WSI

8 WSI

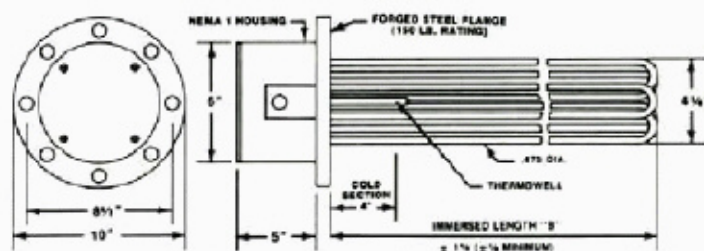
CLEAN WATER MILD SOLUTIONS		GASES, LT. WT. OILS CAUSTIC SOLUTIONS		GASES, MED. WT. OILS, CORROSIVES		GASES, #6 FUEL OIL, CORROSIVES	
INSERT LENGTH "B"	VOLTS 3-PH.	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER

INSERT LENGTH "B"	VOLTS 3-PH.	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER	NET WT. LBS.
18"	240 480	6	H33-6-3 H33-6-5	3	M33-3-3 M33-3-5	1.5	L33-15-3 L33-15-5	1	V33-1-3 V33-1-5	15
20"	240 480	7.5	H33-75-3 H33-75-5	3.7	M33-37-3 M33-37-5	2	L33-2-3 L33-2-5	1.2	V33-12-3 V33-12-5	15
25 1/4"	240 480	9	H33-9-3 H33-9-5	4.5	M33-45-3 M33-45-5	2.3	L33-23-3 L33-23-5	1.5	V33-15-3 V33-15-5	16
33"	240 480	12	H33-12-3 H33-12-5	6	M33-6-3 M33-6-5	3	L33-3-3 L33-3-5	2	V33-2-3 V33-2-5	17
40 3/4"	240 480	15	H33-15-3 H33-15-5	7.5	M33-75-3 M33-75-5	3.7	L33-37-3 L33-37-5	2.5	V33-25-3 V33-25-5	19
48"	240 480	18	H33-18-3 H33-18-5	9	M33-9-3 M33-9-5	4.5	L33-45-3 L33-45-5	3	V33-3-3 V33-3-5	20
52"	240 480	20	H33-20-3 H33-20-5	10	M33-10-3 M33-10-5	5	L33-5-3 L33-5-5	3.3	V33-33-3 V33-33-5	21

Note: All models wired for 3-phase operation unless otherwise specified.

5" - 150#

(6) .475 dia. elements



48 WSI

23 WSI

12 WSI

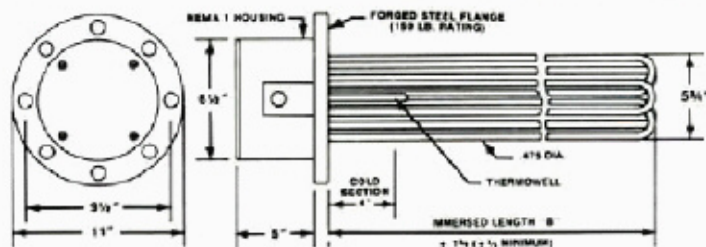
8 WSI

CLEAN WATER MILD SOLUTIONS		GASES, LT. WT. OILS CAUSTIC SOLUTIONS		GASES, MED. WT. OILS, CORROSIVES		GASES, #6 FUEL OIL, CORROSIVES	
INSERT LENGTH "B"	VOLTS 3-PH.	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER

INSERT LENGTH "B"	VOLTS 3-PH.	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER	NET WT. LBS.
13"	240 480	9	H56-9-3 H56-9-5	4.5	M56-45-3 M56-45-5	2.2	L56-22-3 L56-22-5	1.5	V56-15-3 V56-15-5	28
18"	240 480	12	H56-12-3 H56-12-5	6	M56-6-3 M56-6-5	3	L56-3-3 L56-3-5	2	V56-2-3 V56-2-5	29
20"	240 480	15	H56-15-3 H56-15-5	7.5	M56-75-3 M56-75-5	3.7	L56-37-3 L56-37-5	2.5	V56-25-3 V56-25-5	30
25 1/4"	240 480	18	H56-18-3 H56-18-5	9	M56-9-3 M56-9-5	4.5	L56-45-3 L56-45-5	3	V56-3-3 V56-3-5	36
33"	240 480	24	H56-24-3 H56-24-5	12	M56-12-3 M56-12-5	6	L56-6-3 L56-6-5	4	V56-4-3 V56-4-5	39
40 3/4"	240 480	30	H56-30-3 H56-30-5	15	M56-15-3 M56-15-5	7.5	L56-75-3 L56-75-5	5	V56-5-3 V56-5-5	43
48"	240 480	36	H56-36-3 H56-36-5	18	M56-18-3 M56-18-5	9	L56-9-3 L56-9-5	6	V56-6-3 V56-6-5	48
52"	240 480	40	H56-40-3 H56-40-5	20	M56-20-3 M56-20-5	10	L56-10-3 L56-10-5	6.7	V56-67-3 V56-67-5	52
62"	240 480	50	H56-50-3 H56-50-5	25	M56-25-3 M56-25-5	12.5	L56-125-3 L56-125-5	8.3	V56-83-3 V56-83-5	58
78"	240 480	60	H56-60-3 H56-60-5	30	M56-30-3 M56-30-5	15	L56-15-3 L56-15-5	10	V56-10-3 V56-10-5	64

FLANGED IMMERSION HEATERS

6" - 150#
(12) .475 dia. elements

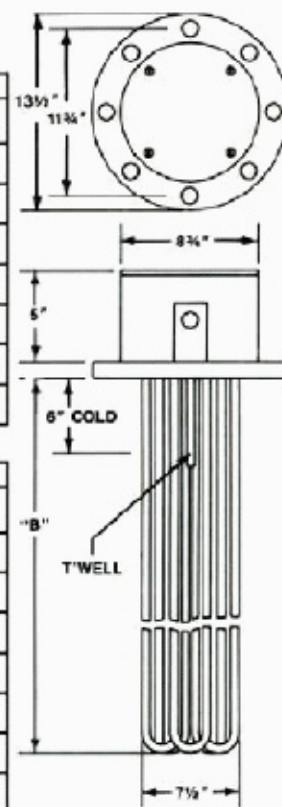


		48 WSI		23 WSI		12 WSI		8 WSI		
		CLEAN WATER MILD SOLUTIONS		GASES, LT. WT. OILS CAUSTIC SOLUTIONS		GASES, MED. WT. OILS, CORROSIVES		GASES, #6 FUEL OIL, CORROSIVES		
INSERT LENGTH "B"	VOLTS 3-PH.	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER	KW	MODEL NUMBER	NET WT. LBS.
13"	240 480	18	H612-18-3 H612-18-5	9	M612-9-3 M612-9-5	4.5	L612-45-3 L612-45-5	3	V612-3-3 V612-3-5	46
18"	240 480	24	H612-24-3 H612-24-5	12	M612-12-3 M612-12-5	6	L612-6-3 L612-6-5	4	V612-4-3 V612-4-5	48
20"	240 480	30	H612-30-3 H612-30-5	15	M612-15-3 M612-15-5	7.5	L612-75-3 L612-75-5	5	V612-5-3 V612-5-5	50
25¼"	240 480	36	H612-36-3 H612-36-5	18	M612-18-3 M612-18-5	9	L612-9-3 L612-9-5	6	V612-6-3 V612-6-5	52
33"	240 480	48	H612-48-3 H612-48-5	24	M612-24-3 M612-24-5	12	L612-12-3 L612-12-5	6	V612-8-3 V612-8-5	55
40¾"	240 480	60	H612-60-3 H612-60-5	30	M612-30-3 M612-30-5	15	L612-15-3 L612-15-5	10	V612-10-3 V612-10-5	60
48"	240 480	72	H612-72-3 H612-72-5	36	M612-36-3 M612-36-5	18	L612-18-3 L612-18-5	12	V612-12-3 V612-12-5	63
52"	240 480	80	H612-80-3 H612-80-5	40	M612-40-3 M612-40-5	20	L612-20-3 L612-20-5	13	V612-13-3 V612-13-5	66
62"	240 480	100	H612-100-3 H612-100-5	50	M612-50-3 M612-50-5	25	L612-25-3 L612-25-5	17	V612-17-3 V612-17-5	70
78"	240 480	120	H612-120-3 H612-120-5	60	M612-60-3 M612-60-5	30	L612-30-3 L612-30-5	20	V612-20-3 V612-20-5	80

8" - 150# **FORGED STEEL FLANGE - NEMA 1 HOUSING**
(18) .475 dia. elements

48 WSI				23 WSI			
CLEAN WATER, MILD SOLUTIONS				LT. WT. OILS, GASES, CAUSTIC			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.	VOLTS 3-PH.	INSERT LENGTH "B"	KW	MODEL NUMBER
27 1/4"	50	H818-50-3 H818-50-5	102	240 480	32 1/4"	30	M818-30-3 M818-30-5
36 1/2"	75	H818-75-3 H818-75-5	110	240 480	43 1/4"	40	M818-40-3 M818-40-5
44"	100	H818-100-3 H818-100-5	119	240 480	51 1/4"	50	M818-50-3 M818-50-5
52"	120	H818-120-3 H818-120-5	123	240 480	61 1/2"	60	M818-60-3 M818-60-5
61 1/2"	150	H818-150-3 H818-150-5	133	240 480	70"	70	M818-70-3 M818-70-5
70"	175	H818-175-3 H818-175-5	140	240 480	79"	80	M818-80-3 M818-80-5
79"	200	H818-200-3 H818-200-5	147	240 480	88"	100	M818-100-3 M818-100-5

12 WSI				8 WSI			
MED. WT. OILS, GASES, CORROSIVES				#6 FUEL OILS, GASES, CORROSIVES			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.	VOLTS 3-PH.	INSERT LENGTH "B"	KW	MODEL NUMBER
27 1/4"	12	L818-12-3 L818-12-5	102	240 480	32 1/4"	10	V818-10-3 V818-10-5
36 1/2"	18	L818-18-3 L818-18-5	110	240 480	43 1/4"	13	V818-13-3 V818-13-5
44"	25	L818-25-3 L818-25-5	119	240 480	51 1/4"	16	V818-16-3 V818-16-5
52"	30	L818-30-3 L818-30-5	123	240 480	61 1/2"	20	V818-20-3 V818-20-5
61 1/2"	37	L818-37-3 L818-37-5	133	240 480	70"	23	V818-23-3 V818-23-5
70"	44	L818-44-3 L818-44-5	140	240 480	79"	27	V818-27-3 V818-27-5
79"	50	L818-50-3 L818-50-5	147	240 480	88"	30	V818-30-3 V818-30-5



FLANGED IMMERSION HEATERS

10" - 150#

FORGED STEEL FLANGE - NEMA 1 HOUSING
(27) .475 dia. elements

48 WSI

CLEAN WATER, MILD SOLUTIONS			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
27"	75	H1027-75-3 H1027-75-5	125
34"	100	H1027-100-3 H1027-100-5	135
40 1/2"	125	H1027-125-3 H1027-125-5	160
47"	150	H1027-150-3 H1027-150-5	175
54"	175	H1027-175-3 H1027-175-5	200
61"	200	H1027-200-3 H1027-200-5	215
68"	225	H1027-225-3 H1027-225-5	230

23 WSI

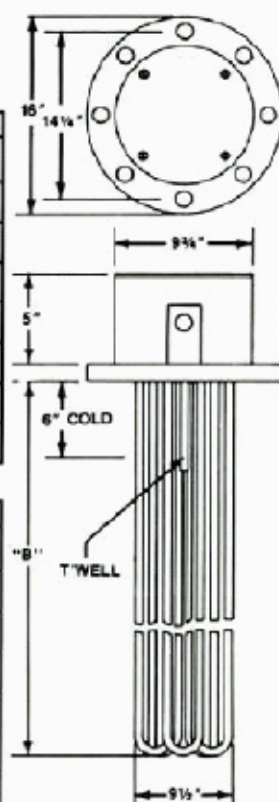
LT. WT. OILS, GASES, CAUSTIC			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
33"	45	M1027-45-3 M1027-45-5	135
43 3/4"	60	M1027-60-3 M1027-60-5	168
51 3/4"	75	M1027-75-3 M1027-75-5	195
61 1/2"	90	M1027-90-3 M1027-90-5	215
70"	105	M1027-105-3 M1027-105-5	235
79"	120	M1027-120-3 M1027-120-5	255
88"	135	M1027-135-3 M1027-135-5	275

12 WSI

MED. WT. OILS, GASES, CORROSIVES			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
34"	25	L1027-25-3 L1027-25-5	135
40 1/2"	30	L1027-30-3 L1027-30-5	160
54"	45	L1027-45-3 L1027-45-5	200
61"	50	L1027-50-3 L1027-50-5	215
68"	55	L1027-55-3 L1027-55-5	230
75"	60	L1027-60-3 L1027-60-5	250

8 WSI

#6 FUEL OILS, GASES, CORROSIVES			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
43 3/4"	20	V1027-20-3 V1027-20-5	168
51 3/4"	25	V1027-25-3 V1027-25-5	195
61 1/2"	30	V1027-30-3 V1027-30-5	215
70"	35	V1027-35-3 V1027-35-5	235
79"	40	V1027-40-3 V1027-40-5	255
88"	45	V1027-45-3 V1027-45-5	275



12" - 150#

FORGED STEEL FLANGE - NEMA 1 HOUSING
(36) .475 dia. elements

48 WSI

CLEAN WATER, MILD SOLUTIONS			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
27 1/2"	100	H1236-100-3 H1236-100-5	210
36 1/2"	150	H1236-150-3 H1236-150-5	230
44"	200	H1236-200-3 H1236-200-5	245
52"	240	H1236-240-3 H1236-240-5	260
61 1/2"	300	H1236-300-3 H1236-300-5	275
70"	350	H1236-350-3 H1236-350-5	305
79"	400	H1236-400-3 H1236-400-5	320

23 WSI

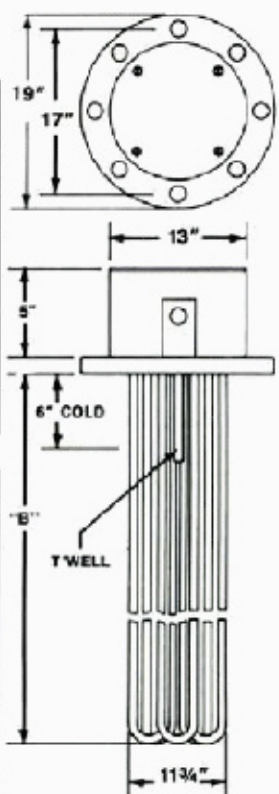
LT. WT. OILS, GASES, CAUSTIC			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
32 3/4"	60	M1236-60-3 M1236-60-5	215
43 3/4"	80	M1236-80-3 M1236-80-5	235
51 3/4"	100	M1236-100-3 M1236-100-5	250
61 1/2"	120	M1236-120-3 M1236-120-5	265
70"	140	M1236-140-3 M1236-140-5	285
79"	160	M1236-160-3 M1236-160-5	310
88"	200	M1236-200-3 M1236-200-5	330

12 WSI

MED. WT. OILS, GASES, CORROSIVES			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
27 1/2"	24	L1236-24-3 L1236-24-5	210
36 1/2"	36	L1236-36-3 L1236-36-5	230
44"	50	L1236-50-3 L1236-50-5	245
52"	60	L1236-60-3 L1236-60-5	260
61 1/2"	75	L1236-75-3 L1236-75-5	275
70"	90	L1236-90-3 L1236-90-5	305
79"	100	L1236-100-3 L1236-100-5	320

8 WSI

#6 FUEL OILS, GASES, CORROSIVES			
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.
32 3/4"	20	V1236-20-3 V1236-20-5	215
43 3/4"	27	V1236-27-3 V1236-27-5	235
51 3/4"	33	V1236-33-3 V1236-33-5	250
61 1/2"	40	V1236-40-3 V1236-40-5	265
70"	45	V1236-45-3 V1236-45-5	285
79"	55	V1236-55-3 V1236-55-5	310
88"	60	V1236-60-3 V1236-60-5	330



FLANGED IMMERSION HEATERS

14" - 150#

FORGED STEEL FLANGE - NEMA 1 HOUSING
(45) .475 dia. elements

48 WSI

CLEAN WATER, MILD SOLUTIONS				
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.	VOLTS 3-PH
27"	125	H1445-125-3 H1445-125-5	265	240 480
34"	166	H1445-166-3 H1445-166-5	280	240 480
40 1/2"	205	H1445-205-3 H1445-205-5	300	240 480
47"	250	H1445-250-3 H1445-250-5	320	240 480
54"	300	H1445-300-3 H1445-300-5	360	240 480
61"	335	H1445-335-3 H1445-335-5	375	240 480
68"	375	H1445-375-3 H1445-375-5	390	240 480

23 WSI

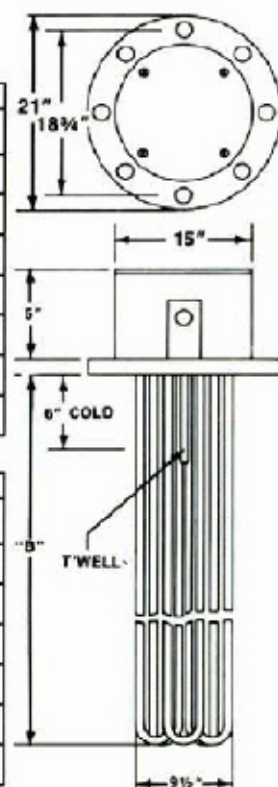
LT. WT. OILS, GASES, CAUSTIC				
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.	VOLTS 3-PH
33"	75	M1445-75-3 M1445-75-5	135	240 480
43 1/4"	100	M1445-100-3 M1445-100-5	168	240 480
51 1/4"	125	M1445-125-3 M1445-125-5	195	240 480
61 1/4"	150	M1445-150-3 M1445-150-5	215	240 480
70"	175	M1445-175-3 M1445-175-5	235	240 480
79"	200	M1445-200-3 M1445-200-5	255	240 480
88"	225	M1445-225-3 M1445-225-5	275	240 480

12 WSI

MED. WT. OILS, GASES, CORROSIVES				
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.	VOLTS 3-PH
34"	40	L1445-40-3 L1445-40-5	280	240 480
40 1/2"	50	L1445-50-3 L1445-50-5	300	240 480
54"	75	L1445-75-3 L1445-75-5	350	240 480
61"	85	L1445-85-3 L1445-85-5	375	240 480
68"	90	L1445-90-3 L1445-90-5	390	240 480
75"	100	L1445-100-3 L1445-100-5	415	240 480

8 WSI

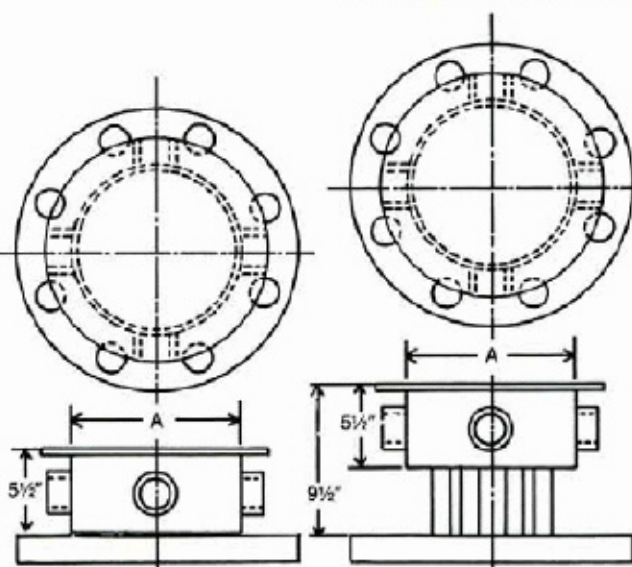
#6 FUEL OILS, GASES, CORROSIVES				
INSERT LENGTH "B"	KW	MODEL NUMBER	NET WT. LBS.	VOLTS 3-PH
43 1/4"	35	V1445-35-3 V1445-35-5	285	240 480
51 1/4"	40	V1445-40-3 V1445-40-5	330	240 480
61 1/4"	50	V1445-50-3 V1445-50-5	375	240 480
70"	60	V1445-60-3 V1445-60-5	385	240 480
79"	65	V1445-65-3 V1445-65-5	420	240 480
88"	75	V1445-75-3 V1445-75-5	440	240 480



OPTIONAL TERMINAL HOUSING/ACCESSORIES

NEMA 4 OR NEMA 7

STAND OFF HOUSING
HIGH TEMP APPLICATIONS



NOTE: Multiple circuits offered on 5" flanges and larger

CONDUIT CONNECTIONS

FLANGE SIZE	"A" MAX	CONDUIT	HUB
3"	4 1/2"	1	1" NPT
5"	6 1/4"	1	1" NPT
6"	6 3/4"	1	1" NPT
8"	8 3/4"	2	1" NPT
10"	10 3/4"	3	1 1/2" NPT
12"	12 3/4"	3	1 1/2" NPT
14"	14"	3	2" NPT

* When multiple connections are supplied, they are 90° apart

HOW TO ORDER FLANGED IMMERSION HEATERS

1. Order by part number, if known
2. Quantity
3. Flange size: Material and pressure rating
4. Kilowatt and voltage
5. Optional features: Terminal housing, stand off construction, thermocouples
6. Control device and temperature range

DELTA
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