



## 150# Flanged Immersion Heaters - Type IF

### Applications:

60 and 45 Watts Per Square Inch

For heating clean water only in commercial and/or residential applications.

30 and 35 Watts Per Square Inch

For Fuel Gas , low temperature air and gas heating

23 and 20 Watts Per Square Inch

For heat transfer oil, cleaners, high temperature air and gas heating.

15 and 12 Watts Per Square Inch

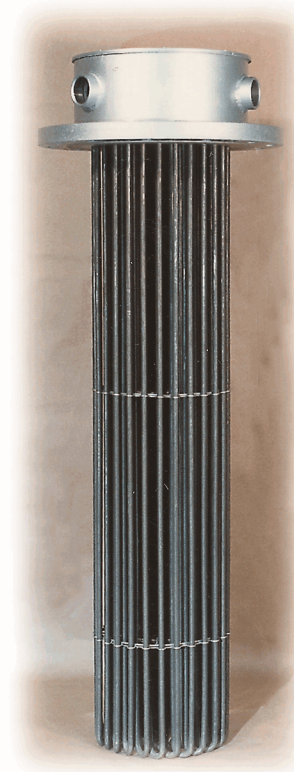
For lubricating oils, medium viscosity oils, high temperature air and gas heating.

8 and 6 Watts Per Square Inch

For #5 and #6 fuel oil heating, viscous materials, raw crude oil, residual oils, high temperature air and gas heating.

4 and 2 Watts Per Square Inch

For asphalt and other hard-to-heat substances, extra high temperature air and gas.



### Standard Features:

#### Heating Elements

Alloy 800 (UNS08000) Sheath Material  
Heavy Wall (.035 In.)  
Larger Diameter (.475" OD)  
Sealed Terminals

#### Spacer/Support

High Temperature Alloy Material  
Rugged Design  
"Evenflow" Configuration

#### Construction

Welded Heating Elements  
Welded Terminal Housing

#### Service

Wiring Modifiable in Field  
Assembly repairable at Factory

### Optional Features

#### Terminal Housings

-ER Explosion Resistant  
-LT Liquid Tight  
-GP General Purpose

#### Flange Materials

Carbon Steel	Low Temp Carbon Steel
304SS (L/H)	316SS (L/H)
Inconel 600 / 625	Alloy 800
Hastelloy C	Others

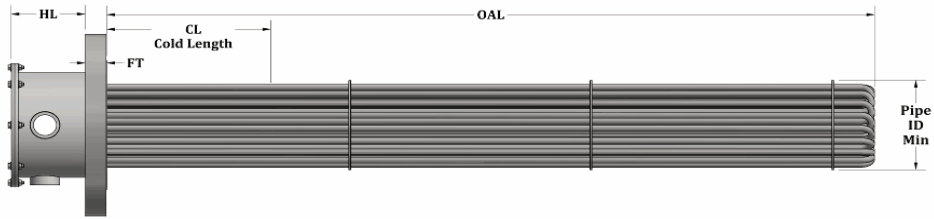
#### Sensors

Type J,K,E Thermocouples  
100 Ohm RTD's  
Simplex or Duplex  
Optional Tube Wells

#### Certifications

CSA	UL
ATEX	IEC eX
CRN	

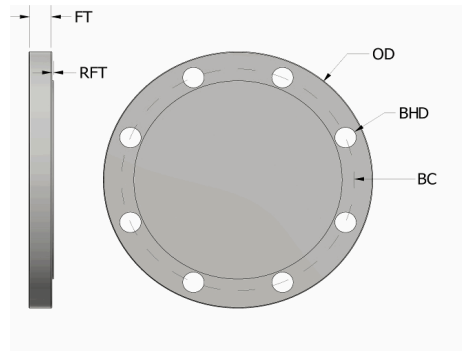
## Heater Dimensional Drawing Data



### Housing Dimensions (HL)

<u>Diameter</u>	<u>GP</u>	<u>LT</u>	<u>ER</u>	<u>Atex/IEC ex</u>
2.50	2.63	2.63	5.50	7.00
3.00	2.63	2.63	5.50	7.00
4.00	5.50	5.50	6.50	8.00
5.00	5.50	5.50	6.50	9.00
6.00	5.50	5.50	8.00	11.00
8.00	5.50	5.50	9.00	11.00
10.00	7.00	7.00	11.00	11.00
12.00	7.00	7.00	11.00	11.00
14.00	7.00	7.00	11.00	11.50
16.00	9.00	9.00	13.00	11.50
18.00	9.00	9.00	13.00	11.50
20.00	9.00	9.00	13.00	11.50
24.00	11.00	11.00	15.00	11.50

## Flange Dimensional Drawing Data



<u>Dia</u>	<u>OD</u>	<u>FT</u>	<u>RFT</u>	<u>BC</u>	<u>BHD</u>	<u>Q BH</u>
2.50	7.00	0.81	0.06	5.50	0.75	4.00
3.00	7.50	0.88	0.06	6.00	0.75	4.00
4.00	9.00	0.88	0.06	7.50	0.75	8.00
5.00	10.00	0.88	0.06	8.50	0.88	8.00
6.00	11.00	0.94	0.06	9.50	0.88	8.00
8.00	13.50	1.06	0.06	11.75	0.88	8.00
10.00	16.00	1.13	0.06	14.25	1.00	12.00
12.00	19.00	1.19	0.06	17.00	1.00	12.00
14.00	21.00	1.31	0.06	18.75	1.13	12.00
16.00	23.50	1.38	0.06	21.25	1.13	16.00
18.00	25.00	1.50	0.06	22.75	1.25	16.00
20.00	27.50	1.63	0.06	25.00	1.25	20.00
24.00	32.00	1.81	0.06	29.50	1.38	20.00

# 150# Flanged Immersion Heaters - Type IF

60 Watts/Sq. Inch

## 3 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
3F3N18B4D3H1	7.50	3	480	1	9	17.94	3.88	2.9000	0.94
3F3N20B4D3H1	8.63	3	480	1	10	19.94	3.88	2.9000	0.94
3F3N25B2D3H1	11.50	3	240	1	28	25.44	3.88	2.9000	0.94
3F3N25B4D3H1	11.50	3	480	1	14	25.44	3.88	2.9000	0.94
3F3N33B2D3H1	15.00	3	240	1	36	32.94	3.88	2.9000	0.94
3F3N33B4D3H1	15.00	3	480	1	18	32.94	3.88	2.9000	0.94
3F3N38B4D3H1	18.00	3	480	1	22	38.44	5.88	2.9000	0.94
3F3N36B4D3H1	19.25	3	480	1	23	35.94	3.88	2.9000	0.94
3F3N43B4D3H1	20.00	3	480	1	24	42.94	5.88	2.9000	0.94
3F3N52B4D3H1	25.00	3	480	1	30	51.94	5.88	2.9000	0.94
3F3N57B4D3H1	25.00	3	480	1	30	56.94	10.88	2.9000	0.94
3F3N61B4D3H1	30.00	3	480	1	36	61.44	5.88	2.9000	0.94
3F3N68B4D3H1	30.00	3	480	1	36	68.44	12.88	2.9000	0.94

## 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N18B4D3H1	15.00	6	480	1	18	17.94	3.88	3.8260	0.94
4F6N20B4D3H1	17.25	6	480	1	21	19.94	3.88	3.8260	0.94
4F6N25B2D3H1	23.00	6	240	2	55	25.44	3.88	3.8260	0.94
4F6N25B4D3H1	23.00	6	480	1	28	25.44	3.88	3.8260	0.94
4F6N33B2D3H1	30.00	6	240	2	72	32.94	3.88	3.8260	0.94
4F6N33B4D3H1	30.00	6	480	1	36	32.94	3.88	3.8260	0.94
4F6N38B4D3H1	36.00	6	480	1	43	38.44	5.88	3.8260	0.94
4F6N36B4D3H1	38.50	6	480	1	46	35.94	3.88	3.8260	0.94
4F6N43B4D3H1	40.00	6	480	1	48	42.94	5.88	3.8260	0.94
4F6N52B4D3H1	50.00	6	480	2	60	51.94	5.88	3.8260	0.94
4F6N57B4D3H1	50.00	6	480	2	60	56.94	10.88	3.8260	0.94
4F6N61B4D3H1	60.00	6	480	2	72	61.44	5.88	3.8260	0.94
4F6N68B4D3H1	60.00	6	480	2	72	68.44	12.88	3.8260	0.94

## 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N18B4D3H1	22.50	9	480	1	27	17.94	3.88	4.8125	0.94
5F9N20B4D3H1	26.00	9	480	1	31	19.94	3.88	4.8125	0.94
5F9N25B4D3H1	34.50	9	480	1	41	25.44	3.88	4.8125	0.94
5F9N43B4D3H1	60.00	9	480	3	72	42.94	5.88	4.8125	0.94
5F9N52B4D3H1	75.00	9	480	3	90	51.94	5.88	4.8125	0.94
5F9N57B4D3H1	75.00	9	480	3	90	56.94	10.88	4.8125	0.94
5F9N61B4D3H1	90.00	9	480	3	108	61.44	5.88	4.8125	0.94
5F9N68B4D3H1	90.00	9	480	3	108	68.44	12.88	4.8125	0.94

## 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N18B4D3H1	30.00	12	480	1	36	17.88	3.81	5.7610	1.00
6F12N20B4D3H1	34.75	12	480	1	42	19.88	3.81	5.7610	1.00
6F15N18B4D3H1	37.50	15	480	1	45	17.88	3.81	5.7610	1.00
6F12N25B4D3H1	46.00	12	480	2	55	25.38	3.81	5.7610	1.00
6F12N33B4D3H1	60.00	12	480	2	72	32.88	3.81	5.7610	1.00
6F12N38B4D3H1	72.00	12	480	2	87	38.38	5.81	5.7610	1.00
6F12N36B4D3H1	77.25	12	480	2	93	35.88	3.81	5.7610	1.00

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6F12N43B4D3H1	80.00	12	480	2	96	42.88	5.81	5.7610	1.00
6F15N43B4D3H1	100.00	15	480	5	120	42.88	5.81	5.7610	1.00
6F12N52B4D3H1	100.00	12	480	4	120	51.88	5.81	5.7610	1.00
6F12N57B4D3H1	100.00	12	480	4	120	56.88	10.81	5.7610	1.00
6F12N61B4D3H1	120.00	12	480	4	144	61.38	5.81	5.7610	1.00
6F12N68B4D3H1	120.00	12	480	4	144	68.38	12.81	5.7610	1.00
6F15N52B4D3H1	125.00	15	480	5	150	51.88	5.81	5.7610	1.00
6F15N57B4D3H1	125.00	15	480	5	150	56.88	10.81	5.7610	1.00
6F15N61B4D3H1	150.00	15	480	5	180	61.38	5.81	5.7610	1.00
6F15N68B4D3H1	150.00	15	480	5	180	68.38	12.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N18B4D3H1	45.00	18	480	2	54	17.75	3.69	7.6250	1.13
8F18N20B4D3H1	52.00	18	480	2	63	19.75	3.69	7.6250	1.13
8F24N18B4D3H1	60.00	24	480	2	72	17.75	3.69	7.6250	1.13
8F18N25B4D3H1	69.25	18	480	2	83	25.25	3.69	7.6250	1.13
8F24N20B4D3H1	69.50	24	480	2	84	19.75	3.69	7.6250	1.13
8F18N33B4D3H1	90.00	18	480	3	108	32.75	3.69	7.6250	1.13
8F24N25B4D3H1	92.25	24	480	4	111	25.25	3.69	7.6250	1.13
8F18N38B4D3H1	108.00	18	480	3	130	38.25	5.69	7.6250	1.13
8F18N36B4D3H1	116.00	18	480	3	140	35.75	3.69	7.6250	1.13
8F24N33B4D3H1	120.00	24	480	4	144	32.75	3.69	7.6250	1.13
8F18N43B4D3H1	120.00	18	480	3	144	42.75	5.69	7.6250	1.13
8F24N38B4D3H1	144.00	24	480	4	173	38.25	5.69	7.6250	1.13
8F18N52B4D3H1	150.00	18	480	6	180	51.75	5.69	7.6250	1.13
8F18N57B4D3H1	150.00	18	480	6	180	56.75	10.69	7.6250	1.13
8F24N36B4D3H1	154.50	24	480	4	186	35.75	3.69	7.6250	1.13
8F24N43B4D3H1	160.00	24	480	4	192	42.75	5.69	7.6250	1.13
8F18N61B4D3H1	180.00	18	480	6	217	61.25	5.69	7.6250	1.13
8F18N68B4D3H1	180.00	18	480	6	217	68.25	12.69	7.6250	1.13
8F24N52B4D3H1	200.00	24	480	8	241	51.75	5.69	7.6250	1.13
8F24N57B4D3H1	200.00	24	480	8	241	56.75	10.69	7.6250	1.13
8F24N61B4D3H1	240.00	24	480	8	289	61.25	5.69	7.6250	1.13
8F24N68B4D3H1	240.00	24	480	8	289	68.25	12.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N18B4D3H1	75.00	30	480	2	90	17.69	3.63	9.7500	1.19
10F36N18B4D3H1	90.00	36	480	3	108	17.69	3.63	9.7500	1.19
10F36N20B4D3H1	104.00	36	480	3	125	19.69	3.63	9.7500	1.19
10F30N25B4D3H1	115.50	30	480	5	139	25.19	3.63	9.7500	1.19
10F36N25B4D3H1	138.50	36	480	4	167	25.19	3.63	9.7500	1.19
10F30N33B4D3H1	150.00	30	480	5	180	32.69	3.63	9.7500	1.19
10F36N33B4D3H1	180.00	36	480	6	217	32.69	3.63	9.7500	1.19
10F30N38B4D3H1	180.00	30	480	5	217	38.19	5.63	9.7500	1.19
10F30N36B4D3H1	193.50	30	480	5	233	35.69	3.63	9.7500	1.19
10F30N43B4D3H1	200.00	30	480	5	241	42.69	5.63	9.7500	1.19
10F36N38B4D3H1	216.00	36	480	6	260	38.19	5.63	9.7500	1.19
10F36N36B4D3H1	232.00	36	480	6	279	35.69	3.63	9.7500	1.19
10F36N43B4D3H1	240.00	36	480	6	289	42.69	5.63	9.7500	1.19
10F30N52B4D3H1	250.00	30	480	10	301	51.69	5.63	9.7500	1.19
10F30N57B4D3H1	250.00	30	480	10	301	56.69	10.63	9.7500	1.19
10F36N52B4D3H1	300.00	36	480	12	361	51.69	5.63	9.7500	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N57B4D3H1	300.00	36	480	12	361	56.69	10.63	9.7500	1.19
10F30N61B4D3H1	300.00	30	480	10	361	61.19	5.63	9.7500	1.19
10F30N68B4D3H1	300.00	30	480	10	361	68.19	12.63	9.7500	1.19
10F36N61B4D3H1	360.00	36	480	12	433	61.19	5.63	9.7500	1.19
10F36N68B4D3H1	360.00	36	480	12	433	68.19	12.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N43B4D3H1	320.00	48	480	8	385	42.63	5.56	11.7500	1.25
12F48N52B4D3H1	400.00	48	480	16	481	51.63	5.56	11.7500	1.25
12F48N57B4D3H1	400.00	48	480	16	481	56.63	10.56	11.7500	1.25
12F48N61B4D3H1	480.00	48	480	16	577	61.13	5.56	11.7500	1.25
12F48N68B4D3H1	480.00	48	480	16	577	68.13	12.56	11.7500	1.25

### 45 Watts/Sq. Inch

#### 3 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
3F3N10H4D3H1	3.00	3	480	1	4	10.44	3.88	2.9000	0.94
3F3N18H2D3H1	6.00	3	240	1	14	17.94	3.88	2.9000	0.94
3F3N18H4D3H1	6.00	3	480	1	7	17.94	3.88	2.9000	0.94
3F3N20H2D3H1	7.50	3	240	1	18	19.94	3.88	2.9000	0.94
3F3N20H4D3H1	7.50	3	480	1	9	19.94	3.88	2.9000	0.94
3F3N25H2D3H1	9.00	3	240	1	22	25.44	3.88	2.9000	0.94
3F3N25H4D3H1	9.00	3	480	1	11	25.44	3.88	2.9000	0.94
3F3N33H2D3H1	12.00	3	240	1	29	32.94	3.88	2.9000	0.94
3F3N33H4D3H1	12.00	3	480	1	14	32.94	3.88	2.9000	0.94
3F3N40H2D3H1	15.00	3	240	1	36	40.44	3.88	2.9000	0.94
3F3N40H4D3H1	15.00	3	480	1	18	40.44	3.88	2.9000	0.94
3F3N48H4D3H1	18.00	3	480	1	22	47.94	3.88	2.9000	0.94
3F3N52H4D3H1	18.00	3	480	1	22	51.94	5.88	2.9000	0.94
3F3N61H4D3H1	25.00	3	480	1	30	61.44	5.88	2.9000	0.94
3F3N68H4D3H1	25.00	3	480	1	30	68.44	12.88	2.9000	0.94
3F3N80H4D3H1	33.25	3	480	1	40	78.94	10.88	2.9000	0.94
3F3N88H4D3H1	37.50	3	480	1	45	88.94	5.88	2.9000	0.94
3F3N95H4D3H1	37.50	3	480	1	45	95.94	12.88	2.9000	0.94

#### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N10H4D3H1	6.00	6	480	1	7	10.44	3.88	3.8260	0.94
4F6N18H2D3H1	12.00	6	240	1	29	17.94	3.88	3.8260	0.94
4F6N18H4D3H1	12.00	6	480	1	14	17.94	3.88	3.8260	0.94
4F6N20H2D3H1	15.00	6	240	1	36	19.94	3.88	3.8260	0.94
4F6N20H4D3H1	15.00	6	480	1	18	19.94	3.88	3.8260	0.94
4F6N25H4D3H1	18.00	6	480	1	22	25.44	3.88	3.8260	0.94
4F6N25H2D3H1	18.00	6	240	1	43	25.44	3.88	3.8260	0.94
4F6N33H2D3H1	24.00	6	240	2	58	32.94	3.88	3.8260	0.94
4F6N33H4D3H1	24.00	6	480	1	29	32.94	3.88	3.8260	0.94
4F6N40H2D3H1	30.00	6	240	2	72	40.44	3.88	3.8260	0.94
4F6N40H4D3H1	30.00	6	480	1	36	40.44	3.88	3.8260	0.94
4F6N48H4D3H1	36.00	6	480	1	43	47.94	3.88	3.8260	0.94
4F6N52H4D3H1	36.00	6	480	1	43	51.94	5.88	3.8260	0.94
4F6N61H4D3H1	50.00	6	480	2	60	61.44	5.88	3.8260	0.94
4F6N68H4D3H1	50.00	6	480	2	60	68.44	12.88	3.8260	0.94

## 150# Flanged Immersion Heaters - Type IF

4F6N80H4D3H1	66.50	6	480	2	80	78.94	10.88	3.8260	0.94
4F6N88H4D3H1	75.00	6	480	2	90	88.94	5.88	3.8260	0.94
4F6N95H4D3H1	75.00	6	480	2	90	95.94	12.88	3.8260	0.94

### 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N10H4D3H1	9.00	9	480	1	11	10.44	3.88	4.8125	0.94
5F9N18H2D3H1	18.00	9	240	1	43	17.94	3.88	4.8125	0.94
5F9N18H4D3H1	18.00	9	480	1	22	17.94	3.88	4.8125	0.94
5F9N20H4D3H1	22.50	9	480	1	27	19.94	3.88	4.8125	0.94
5F9N25H4D3H1	27.00	9	480	1	32	25.44	3.88	4.8125	0.94
5F9N33H4D3H1	36.00	9	480	1	43	32.94	3.88	4.8125	0.94
5F9N61H4D3H1	75.00	9	480	3	90	61.44	5.88	4.8125	0.94
5F9N68H4D3H1	75.00	9	480	3	90	68.44	12.88	4.8125	0.94
5F9N80H4D3H1	99.75	9	480	3	120	78.94	10.88	4.8125	0.94
5F9N88H4D3H1	112.50	9	480	3	135	88.94	5.88	4.8125	0.94
5F9N95H4D3H1	112.50	9	480	3	135	95.94	12.88	4.8125	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10H4D3H1	12.00	12	480	1	14	10.38	3.81	5.7610	1.00
6F15N10H4D3H1	15.00	15	480	1	18	10.38	3.81	5.7610	1.00
6F12N18H2D3H1	24.00	12	240	2	58	17.88	3.81	5.7610	1.00
6F12N18H4D3H1	24.00	12	480	1	29	17.88	3.81	5.7610	1.00
6F15N18H4D3H1	30.00	15	480	1	36	17.88	3.81	5.7610	1.00
6F12N20H2D3H1	30.00	12	240	2	72	19.88	3.81	5.7610	1.00
6F12N20H4D3H1	30.00	12	480	1	36	19.88	3.81	5.7610	1.00
6F12N25H2D3H1	36.00	12	240	2	87	25.38	3.81	5.7610	1.00
6F12N25H4D3H1	36.00	12	480	1	43	25.38	3.81	5.7610	1.00
6F15N20H4D3H1	37.50	15	480	1	45	19.88	3.81	5.7610	1.00
6F12N33H4D3H1	48.00	12	480	2	58	32.88	3.81	5.7610	1.00
6F12N40H4D3H1	60.00	12	480	2	72	40.38	3.81	5.7610	1.00
6F12N48H4D3H1	72.00	12	480	2	87	47.88	3.81	5.7610	1.00
6F12N52H4D3H1	72.00	12	480	2	87	51.88	5.81	5.7610	1.00
6F12N61H4D3H1	100.00	12	480	4	120	61.38	5.81	5.7610	1.00
6F12N68H4D3H1	100.00	12	480	4	120	68.38	12.81	5.7610	1.00
6F15N61H4D3H1	125.00	15	480	5	150	61.38	5.81	5.7610	1.00
6F15N68H4D3H1	125.00	15	480	5	150	68.38	12.81	5.7610	1.00
6F12N80H4D3H1	133.00	12	480	4	160	78.88	10.81	5.7610	1.00
6F12N88H4D3H1	150.00	12	480	4	180	88.88	5.81	5.7610	1.00
6F12N95H4D3H1	150.00	12	480	4	180	95.88	12.81	5.7610	1.00
6F15N80H4D3H1	166.50	15	480	5	200	78.88	10.81	5.7610	1.00
6F15N88H4D3H1	187.50	15	480	5	226	88.88	5.81	5.7610	1.00
6F15N95H4D3H1	187.50	15	480	5	226	95.88	12.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N10H4D3H1	18.00	18	480	1	22	10.25	3.69	7.6250	1.13
8F24N10H4D3H1	24.00	24	480	1	29	10.25	3.69	7.6250	1.13
8F18N18H4D3H1	36.00	18	480	1	43	17.75	3.69	7.6250	1.13
8F18N20H4D3H1	45.00	18	480	2	54	19.75	3.69	7.6250	1.13
8F24N18H4D3H1	48.00	24	480	2	58	17.75	3.69	7.6250	1.13
8F18N25H4D3H1	54.00	18	480	2	65	25.25	3.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N20H4D3H1	60.00	24	480	2	72	19.75	3.69	7.6250	1.13
8F24N25H4D3H1	72.00	24	480	2	87	25.25	3.69	7.6250	1.13
8F18N33H4D3H1	72.00	18	480	2	87	32.75	3.69	7.6250	1.13
8F18N40H4D3H1	90.00	18	480	3	108	40.25	3.69	7.6250	1.13
8F24N33H4D3H1	96.00	24	480	4	115	32.75	3.69	7.6250	1.13
8F18N48H4D3H1	108.00	18	480	3	130	47.75	3.69	7.6250	1.13
8F18N52H4D3H1	108.00	18	480	3	130	51.75	5.69	7.6250	1.13
8F24N40H4D3H1	120.00	24	480	4	144	40.25	3.69	7.6250	1.13
8F24N48H4D3H1	144.00	24	480	4	173	47.75	3.69	7.6250	1.13
8F24N52H4D3H1	144.00	24	480	4	173	51.75	5.69	7.6250	1.13
8F18N61H4D3H1	150.00	18	480	6	180	61.25	5.69	7.6250	1.13
8F18N68H4D3H1	150.00	18	480	6	180	68.25	12.69	7.6250	1.13
8F18N80H4D3H1	199.50	18	480	6	240	78.75	10.69	7.6250	1.13
8F24N61H4D3H1	200.00	24	480	8	241	61.25	5.69	7.6250	1.13
8F24N68H4D3H1	200.00	24	480	8	241	68.25	12.69	7.6250	1.13
8F18N88H4D3H1	225.00	18	480	6	271	88.75	5.69	7.6250	1.13
8F18N95H4D3H1	225.00	18	480	6	271	95.75	12.69	7.6250	1.13
8F24N80H4D3H1	266.00	24	480	8	320	78.75	10.69	7.6250	1.13
8F24N88H4D3H1	300.00	24	480	8	361	88.75	5.69	7.6250	1.13
8F24N95H4D3H1	300.00	24	480	8	361	95.75	12.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N10H4D3H1	30.00	30	480	1	36	10.19	3.63	9.7500	1.19
10F36N10H4D3H1	36.00	36	480	1	43	10.19	3.63	9.7500	1.19
10F30N18H4D3H1	60.00	30	480	2	72	17.69	3.63	9.7500	1.19
10F36N18H4D3H1	72.00	36	480	2	87	17.69	3.63	9.7500	1.19
10F30N20H4D3H1	75.00	30	480	2	90	19.69	3.63	9.7500	1.19
10F36N20H4D3H1	90.00	36	480	3	108	19.69	3.63	9.7500	1.19
10F36N25H4D3H1	108.00	36	480	3	130	25.19	3.63	9.7500	1.19
10F30N33H4D3H1	120.00	30	480	5	144	32.69	3.63	9.7500	1.19
10F36N33H4D3H1	144.00	36	480	4	173	32.69	3.63	9.7500	1.19
10F30N40H4D3H1	150.00	30	480	5	180	40.19	3.63	9.7500	1.19
10F36N40H4D3H1	180.00	36	480	6	217	40.19	3.63	9.7500	1.19
10F30N48H4D3H1	180.00	30	480	5	217	47.69	3.63	9.7500	1.19
10F30N52H4D3H1	180.00	30	480	5	217	51.69	5.63	9.7500	1.19
10F36N48H4D3H1	216.00	36	480	6	260	47.69	3.63	9.7500	1.19
10F36N52H4D3H1	216.00	36	480	6	260	51.69	5.63	9.7500	1.19
10F30N61H4D3H1	250.00	30	480	10	301	61.19	5.63	9.7500	1.19
10F30N68H4D3H1	250.00	30	480	10	301	68.19	12.63	9.7500	1.19
10F36N61H4D3H1	300.00	36	480	12	361	61.19	5.63	9.7500	1.19
10F36N68H4D3H1	300.00	36	480	12	361	68.19	12.63	9.7500	1.19
10F30N80H4D3H1	333.00	30	480	10	401	78.69	10.63	9.7500	1.19
10F30N88H4D3H1	375.00	30	480	10	451	88.69	5.63	9.7500	1.19
10F30N95H4D3H1	375.00	30	480	10	451	95.69	12.63	9.7500	1.19
10F36N80H4D3H1	399.50	36	480	12	481	78.69	10.63	9.7500	1.19
10F36N88H4D3H1	450.00	36	480	12	541	88.69	5.63	9.7500	1.19
10F36N95H4D3H1	450.00	36	480	12	541	95.69	12.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N40H4D3H1	240.00	48	480	8	289	40.13	3.56	11.7500	1.25
12F48N48H4D3H1	288.00	48	480	8	346	47.63	3.56	11.7500	1.25
12F48N52H4D3H1	288.00	48	480	8	346	51.63	5.56	11.7500	1.25

## 150# Flanged Immersion Heaters - Type IF

12F48N61H4D3H1	400.00	48	480	16	481	61.13	5.56	11.7500	1.25
12F48N68H4D3H1	400.00	48	480	16	481	68.13	12.56	11.7500	1.25
12F48N80H4D3H1	533.00	48	480	16	641	78.63	10.56	11.7500	1.25
12F54N80H4D3H1	599.00	54	480	18	721	78.63	10.56	11.7500	1.25
12F48N88H4D3H1	600.00	48	480	16	722	88.63	5.56	11.7500	1.25
12F48N95H4D3H1	600.00	48	480	16	722	95.63	12.56	11.7500	1.25
12F54N88H4D3H1	675.00	54	480	18	812	88.63	5.56	11.7500	1.25
12F54N95H4D3H1	675.00	54	480	18	812	95.63	12.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N80H4D3H1	599.00	54	480	18	721	78.50	10.44	13.0000	1.38
14F60N80H4D3H1	666.00	60	480	20	801	78.50	10.44	13.0000	1.38
14F54N88H4D3H1	675.00	54	480	18	812	88.50	5.44	13.0000	1.38
14F54N95H4D3H1	675.00	54	480	18	812	95.50	12.44	13.0000	1.38
14F60N88H4D3H1	750.00	60	480	20	902	88.50	5.44	13.0000	1.38
14F60N95H4D3H1	750.00	60	480	20	902	95.50	12.44	13.0000	1.38
14F72N80H4D3H1	799.00	72	480	24	961	78.50	10.44	13.0000	1.38
14F72N88H4D3H1	900.00	72	480	24	1,083	88.50	5.44	13.0000	1.38
14F72N95H4D3H1	900.00	72	480	24	1,083	95.50	12.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N80H4D3H1	932.00	84	480	28	1,121	78.44	10.38	15.0000	1.44
16F90N80H4D3H1	999.00	90	480	30	1,202	78.44	10.38	15.0000	1.44
16F84N88H4D3H1	1,050.00	84	480	28	1,263	88.44	5.38	15.0000	1.44
16F84N95H4D3H1	1,050.00	84	480	28	1,263	95.44	12.38	15.0000	1.44
16F96N80H4D3H1	1,066.00	96	480	32	1,282	78.44	10.38	15.0000	1.44
16F90N88H4D3H1	1,125.00	90	480	30	1,353	88.44	5.38	15.0000	1.44
16F90N95H4D3H1	1,125.00	90	480	30	1,353	95.44	12.38	15.0000	1.44
16F96N88H4D3H1	1,200.00	96	480	32	1,443	88.44	5.38	15.0000	1.44
16F96N95H4D3H1	1,200.00	96	480	32	1,443	95.44	12.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88H4D3H1	1,350.00	108	480	36	1,624	88.31	5.25	17.0000	1.56
18F108N95H4D3H1	1,350.00	108	480	36	1,624	95.31	12.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88H4D3H1	1,500.00	120	480	40	1,804	88.19	5.13	19.0000	1.69
20F120N95H4D3H1	1,500.00	120	480	40	1,804	95.19	12.13	19.0000	1.69
20F126N88H4D3H1	1,575.00	126	480	42	1,894	88.19	5.13	19.0000	1.69
20F126N95H4D3H1	1,575.00	126	480	42	1,894	95.19	12.13	19.0000	1.69
20F132N88H4D3H1	1,650.00	132	480	44	1,985	88.19	5.13	19.0000	1.69
20F132N95H4D3H1	1,650.00	132	480	44	1,985	95.19	12.13	19.0000	1.69
20F144N88H4D3H1	1,800.00	144	480	48	2,165	88.19	5.13	19.0000	1.69
20F144N95H4D3H1	1,800.00	144	480	48	2,165	95.19	12.13	19.0000	1.69
20F162N88H4D3H1	2,025.00	162	480	54	2,436	88.19	5.13	19.0000	1.69
20F162N95H4D3H1	2,025.00	162	480	54	2,436	95.19	12.13	19.0000	1.69
20F180N88H4D3H1	2,250.00	180	480	60	2,706	88.19	5.13	19.0000	1.69
20F180N95H4D3H1	2,250.00	180	480	60	2,706	95.19	12.13	19.0000	1.69





## 150# Flanged Immersion Heaters - Type IF

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N48F4D3H1	60.00	18	480	2	72	46.75	13.69	7.6250	1.13
8F24N48F4D3H1	80.00	24	480	2	96	46.75	13.69	7.6250	1.13
8F18N61F4D3H1	90.00	18	480	3	108	59.75	13.69	7.6250	1.13
8F24N61F4D3H1	120.00	24	480	4	144	59.75	13.69	7.6250	1.13
8F18N77F4D3H1	120.00	18	480	3	144	75.75	13.69	7.6250	1.13
8F18N93F4D3H1	150.00	18	480	6	180	91.75	13.69	7.6250	1.13
8F24N77F4D3H1	160.00	24	480	4	192	75.75	13.69	7.6250	1.13
8F18N120F4D3H1	180.00	18	480	6	217	118.75	13.69	7.6250	1.13
8F24N93F4D3H1	200.00	24	480	8	241	91.75	13.69	7.6250	1.13
8F24N120F4D3H1	240.00	24	480	8	289	118.75	13.69	7.6250	1.13
8F18N144F4D3H1	240.00	18	480	6	289	142.75	13.69	7.6250	1.13
8F24N144F4D3H1	320.00	24	480	8	385	142.75	13.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N48F4D3H1	100.00	30	480	5	120	48.19	16.63	9.7500	1.19
10F36N48F4D3H1	120.00	36	480	4	144	46.69	13.63	9.7500	1.19
10F30N61F4D3H1	150.00	30	480	5	180	59.69	13.63	9.7500	1.19
10F36N61F4D3H1	180.00	36	480	6	217	59.69	13.63	9.7500	1.19
10F30N77F4D3H1	200.00	30	480	5	241	75.69	13.63	9.7500	1.19
10F36N77F4D3H1	240.00	36	480	6	289	75.69	13.63	9.7500	1.19
10F30N93F4D3H1	250.00	30	480	10	301	91.69	13.63	9.7500	1.19
10F36N93F4D3H1	300.00	36	480	12	361	91.69	13.63	9.7500	1.19
10F30N120F4D3H1	300.00	30	480	10	361	118.69	13.63	9.7500	1.19
10F36N120F4D3H1	360.00	36	480	12	433	118.69	13.63	9.7500	1.19
10F30N144F4D3H1	400.00	30	480	10	481	142.69	13.63	9.7500	1.19
10F36N144F4D3H1	480.00	36	480	12	577	142.69	13.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N48F4D3H1	160.00	48	480	4	192	46.63	13.56	11.7500	1.25
12F54N48F4D3H1	180.00	54	480	6	217	46.63	13.56	11.7500	1.25
12F48N61F4D3H1	240.00	48	480	8	289	59.63	13.56	11.7500	1.25
12F54N61F4D3H1	270.00	54	480	9	325	59.63	13.56	11.7500	1.25
12F48N77F4D3H1	320.00	48	480	8	385	75.63	13.56	11.7500	1.25
12F54N77F4D3H1	360.00	54	480	9	433	75.63	13.56	11.7500	1.25
12F48N93F4D3H1	400.00	48	480	16	481	91.63	13.56	11.7500	1.25
12F54N93F4D3H1	450.00	54	480	18	541	91.63	13.56	11.7500	1.25
12F48N120F4D3H1	480.00	48	480	16	577	118.63	13.56	11.7500	1.25
12F54N120F4D3H1	540.00	54	480	18	650	118.63	13.56	11.7500	1.25
12F48N144F4D3H1	640.00	48	480	16	770	142.63	13.56	11.7500	1.25
12F54N144F4D3H1	720.00	54	480	18	866	142.63	13.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N48F4D3H1	180.00	54	480	6	217	46.50	13.44	13.0000	1.38
14F60N48F4D3H1	200.00	60	480	5	241	46.50	13.44	13.0000	1.38
14F72N48F4D3H1	240.00	72	480	6	289	46.50	13.44	13.0000	1.38
14F54N61F4D3H1	270.00	54	480	9	325	59.50	13.44	13.0000	1.38
14F60N61F4D3H1	300.00	60	480	10	361	59.50	13.44	13.0000	1.38
14F72N61F4D3H1	360.00	72	480	12	433	59.50	13.44	13.0000	1.38
14F54N77F4D3H1	360.00	54	480	9	433	75.50	13.44	13.0000	1.38

## 150# Flanged Immersion Heaters - Type IF

14F60N77F4D3H1	400.00	60	480	10	481	75.50	13.44	13.0000	1.38
14F54N93F4D3H1	450.00	54	480	18	541	91.50	13.44	13.0000	1.38
14F72N77F4D3H1	480.00	72	480	12	577	75.50	13.44	13.0000	1.38
14F60N93F4D3H1	500.00	60	480	20	601	91.50	13.44	13.0000	1.38
14F54N120F4D3H1	540.00	54	480	18	650	118.50	13.44	13.0000	1.38
14F72N93F4D3H1	600.00	72	480	24	722	91.50	13.44	13.0000	1.38
14F60N120F4D3H1	600.00	60	480	20	722	118.50	13.44	13.0000	1.38
14F72N120F4D3H1	720.00	72	480	24	866	118.50	13.44	13.0000	1.38
14F54N144F4D3H1	720.00	54	480	18	866	142.50	13.44	13.0000	1.38
14F60N144F4D3H1	800.00	60	480	20	962	142.50	13.44	13.0000	1.38
14F72N144F4D3H1	960.00	72	480	24	1,155	142.50	13.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F90N48F4D3H1	300.00	90	480	10	361	46.44	13.38	15.0000	1.44
16F96N48F4D3H1	320.00	96	480	8	385	46.44	13.38	15.0000	1.44
16F84N61F4D3H1	420.00	84	480	14	505	59.44	13.38	15.0000	1.44
16F90N61F4D3H1	450.00	90	480	15	541	59.44	13.38	15.0000	1.44
16F96N61F4D3H1	480.00	96	480	16	577	59.44	13.38	15.0000	1.44
16F84N77F4D3H1	560.00	84	480	14	674	75.44	13.38	15.0000	1.44
16F90N77F4D3H1	600.00	90	480	15	722	75.44	13.38	15.0000	1.44
16F96N77F4D3H1	640.00	96	480	16	770	75.44	13.38	15.0000	1.44
16F84N93F4D3H1	700.00	84	480	28	842	91.44	13.38	15.0000	1.44
16F90N93F4D3H1	750.00	90	480	30	902	91.44	13.38	15.0000	1.44
16F96N93F4D3H1	800.00	96	480	32	962	91.44	13.38	15.0000	1.44
16F84N120F4D3H1	840.00	84	480	28	1,010	118.44	13.38	15.0000	1.44
16F90N120F4D3H1	900.00	90	480	30	1,083	118.44	13.38	15.0000	1.44
16F96N120F4D3H1	960.00	96	480	32	1,155	118.44	13.38	15.0000	1.44
16F84N144F4D3H1	1,120.00	84	480	28	1,347	142.44	13.38	15.0000	1.44
16F90N144F4D3H1	1,200.00	90	480	30	1,443	142.44	13.38	15.0000	1.44
16F96N144F4D3H1	1,280.00	96	480	32	1,540	142.44	13.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N48F4D3H1	360.00	108	480	12	433	46.31	13.25	17.0000	1.56
18F108N61F4D3H1	540.00	108	480	18	650	59.31	13.25	17.0000	1.56
18F108N77F4D3H1	720.00	108	480	18	866	75.31	13.25	17.0000	1.56
18F108N93F4D3H1	900.00	108	480	36	1,083	91.31	13.25	17.0000	1.56
18F108N120F4D3H1	1,080.00	108	480	36	1,299	118.31	13.25	17.0000	1.56
18F108N144F4D3H1	1,440.00	108	480	36	1,732	142.31	13.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N48F4D3H1	400.00	120	480	10	481	46.19	13.13	19.0000	1.69
20F126N48F4D3H1	420.00	126	480	14	505	46.19	13.13	19.0000	1.69
20F144N48F4D3H1	480.00	144	480	12	577	46.19	13.13	19.0000	1.69
20F162N48F4D3H1	540.00	162	480	18	650	46.19	13.13	19.0000	1.69
20F180N48F4D3H1	600.00	180	480	15	722	46.19	13.13	19.0000	1.69
20F120N61F4D3H1	600.00	120	480	20	722	59.19	13.13	19.0000	1.69
20F132N61F4D3H1	660.00	132	480	22	794	59.19	13.13	19.0000	1.69
20F144N61F4D3H1	720.00	144	480	24	866	59.19	13.13	19.0000	1.69
20F120N77F4D3H1	800.00	120	480	20	962	75.19	13.13	19.0000	1.69
20F132N77F4D3H1	880.00	132	480	22	1,059	75.19	13.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F180N61F4D3H1	900.00	180	480	30	1,083	59.19	13.13	19.0000	1.69
20F144N77F4D3H1	960.00	144	480	24	1,155	75.19	13.13	19.0000	1.69
20F120N93F4D3H1	1,000.00	120	480	40	1,203	91.19	13.13	19.0000	1.69
20F126N93F4D3H1	1,050.00	126	480	42	1,263	91.19	13.13	19.0000	1.69
20F132N93F4D3H1	1,100.00	132	480	44	1,323	91.19	13.13	19.0000	1.69
20F180N77F4D3H1	1,200.00	180	480	30	1,443	75.19	13.13	19.0000	1.69
20F144N93F4D3H1	1,200.00	144	480	48	1,443	91.19	13.13	19.0000	1.69
20F120N120F4D3H1	1,200.00	120	480	40	1,443	118.19	13.13	19.0000	1.69
20F126N120F4D3H1	1,260.00	126	480	42	1,516	118.19	13.13	19.0000	1.69
20F132N120F4D3H1	1,320.00	132	480	44	1,588	118.19	13.13	19.0000	1.69
20F162N93F4D3H1	1,350.00	162	480	54	1,624	91.19	13.13	19.0000	1.69
20F144N120F4D3H1	1,440.00	144	480	48	1,732	118.19	13.13	19.0000	1.69
20F180N93F4D3H1	1,500.00	180	480	60	1,804	91.19	13.13	19.0000	1.69
20F120N144F4D3H1	1,600.00	120	480	40	1,925	142.19	13.13	19.0000	1.69
20F162N120F4D3H1	1,620.00	162	480	54	1,949	118.19	13.13	19.0000	1.69
20F126N144F4D3H1	1,680.00	126	480	42	2,021	142.19	13.13	19.0000	1.69
20F132N144F4D3H1	1,760.00	132	480	44	2,117	142.19	13.13	19.0000	1.69
20F180N120F4D3H1	1,800.00	180	480	60	2,165	118.19	13.13	19.0000	1.69
20F144N144F4D3H1	1,920.00	144	480	48	2,309	142.19	13.13	19.0000	1.69
20F162N144F4D3H1	2,160.00	162	480	54	2,598	142.19	13.13	19.0000	1.69
20F180N144F4D3H1	2,400.00	180	480	60	2,887	142.19	13.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N48F4D3H1	640.00	192	480	16	770	46.00	12.94	23.0000	1.88
24F216N48F4D3H1	720.00	216	480	18	866	46.00	12.94	23.0000	1.88
24F234N48F4D3H1	780.00	234	480	26	938	46.00	12.94	23.0000	1.88
24F240N48F4D3H1	800.00	240	480	20	962	46.00	12.94	23.0000	1.88
24F192N61F4D3H1	960.00	192	480	32	1,155	59.00	12.94	23.0000	1.88
24F216N61F4D3H1	1,080.00	216	480	36	1,299	59.00	12.94	23.0000	1.88
24F240N61F4D3H1	1,200.00	240	480	40	1,443	59.00	12.94	23.0000	1.88
24F192N77F4D3H1	1,280.00	192	480	32	1,540	75.00	12.94	23.0000	1.88
24F216N77F4D3H1	1,440.00	216	480	36	1,732	75.00	12.94	23.0000	1.88
24F240N77F4D3H1	1,600.00	240	480	40	1,925	75.00	12.94	23.0000	1.88
24F192N93F4D3H1	1,600.00	192	480	64	1,925	91.00	12.94	23.0000	1.88
24F216N93F4D3H1	1,800.00	216	480	72	2,165	91.00	12.94	23.0000	1.88
24F192N120F4D3H1	1,920.00	192	480	64	2,309	118.00	12.94	23.0000	1.88
24F234N93F4D3H1	1,950.00	234	480	78	2,346	91.00	12.94	23.0000	1.88
24F240N93F4D3H1	2,000.00	240	480	80	2,406	91.00	12.94	23.0000	1.88
24F216N120F4D3H1	2,160.00	216	480	72	2,598	118.00	12.94	23.0000	1.88
24F234N120F4D3H1	2,340.00	234	480	78	2,815	118.00	12.94	23.0000	1.88
24F240N120F4D3H1	2,400.00	240	480	80	2,887	118.00	12.94	23.0000	1.88
24F192N144F4D3H1	2,560.00	192	480	64	3,079	142.00	12.94	23.0000	1.88
24F216N144F4D3H1	2,880.00	216	480	72	3,464	142.00	12.94	23.0000	1.88
24F234N144F4D3H1	3,120.00	234	480	78	3,753	142.00	12.94	23.0000	1.88
24F240N144F4D3H1	3,200.00	240	480	80	3,849	142.00	12.94	23.0000	1.88

### 30 Watts/Sq. Inch

#### 3 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
3F3N44G4D3H1	9.00	3	480	1	11	44.44	10.88	2.9000	0.94
3F3N56G4D3H1	12.00	3	480	1	14	56.44	10.88	2.9000	0.94
3F3N67G4D3H1	15.00	3	480	1	18	67.44	10.88	2.9000	0.94
3F3N80G4D3H1	18.00	3	480	1	22	80.44	12.88	2.9000	0.94

## 150# Flanged Immersion Heaters - Type IF

3F3N100G4D3H1	22.50	3	480	1	27	100.44	12.88	2.9000	0.94
3F3N120G4D3H1	28.50	3	480	1	34	120.44	12.88	2.9000	0.94
3F3N140G4D3H1	33.00	3	480	1	40	140.44	16.88	2.9000	0.94
3F3N160G4D3H1	39.00	3	480	1	47	160.44	16.88	2.9000	0.94

### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N44G4D3H1	18.00	6	480	1	22	44.44	10.88	3.8260	0.94
4F6N56G4D3H1	24.00	6	480	1	29	56.44	10.88	3.8260	0.94
4F6N67G4D3H1	30.00	6	480	1	36	67.44	10.88	3.8260	0.94
4F6N80G4D3H1	36.00	6	480	1	43	80.44	12.88	3.8260	0.94
4F6N100G4D3H1	45.00	6	480	2	54	100.44	12.88	3.8260	0.94
4F6N120G4D3H1	57.00	6	480	2	69	120.44	12.88	3.8260	0.94
4F6N140G4D3H1	66.00	6	480	2	79	140.44	16.88	3.8260	0.94
4F6N160G4D3H1	78.00	6	480	2	94	160.44	16.88	3.8260	0.94

### 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N44G4D3H1	27.00	9	480	1	32	44.44	10.88	4.8125	0.94
5F9N56G4D3H1	36.00	9	480	1	43	56.44	10.88	4.8125	0.94
5F9N100G4D3H1	67.50	9	480	3	81	100.44	12.88	4.8125	0.94
5F9N120G4D3H1	85.50	9	480	3	103	120.44	12.88	4.8125	0.94
5F9N140G4D3H1	99.00	9	480	3	119	140.44	16.88	4.8125	0.94
5F9N160G4D3H1	117.00	9	480	3	141	160.44	16.88	4.8125	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N44G4D3H1	36.00	12	480	1	43	44.38	10.81	5.7610	1.00
6F12N56G4D3H1	48.00	12	480	2	58	56.38	10.81	5.7610	1.00
6F12N67G4D3H1	60.00	12	480	2	72	67.38	10.81	5.7610	1.00
6F12N80G4D3H1	72.00	12	480	2	87	80.38	12.81	5.7610	1.00
6F12N100G4D3H1	90.00	12	480	4	108	100.38	12.81	5.7610	1.00
6F15N100G4D3H1	112.50	15	480	5	135	100.38	12.81	5.7610	1.00
6F12N120G4D3H1	114.00	12	480	4	137	120.38	12.81	5.7610	1.00
6F12N140G4D3H1	132.00	12	480	4	159	140.38	16.81	5.7610	1.00
6F15N120G4D3H1	142.50	15	480	5	171	120.38	12.81	5.7610	1.00
6F12N160G4D3H1	156.00	12	480	4	188	160.38	16.81	5.7610	1.00
6F15N140G4D3H1	165.00	15	480	5	198	140.38	16.81	5.7610	1.00
6F15N160G4D3H1	195.00	15	480	5	235	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N44G4D3H1	54.00	18	480	2	65	44.25	10.69	7.6250	1.13
8F24N44G4D3H1	72.00	24	480	2	87	44.25	10.69	7.6250	1.13
8F18N56G4D3H1	72.00	18	480	2	87	56.25	10.69	7.6250	1.13
8F18N67G4D3H1	90.00	18	480	3	108	67.25	10.69	7.6250	1.13
8F24N56G4D3H1	96.00	24	480	4	115	56.25	10.69	7.6250	1.13
8F18N80G4D3H1	108.00	18	480	3	130	80.25	12.69	7.6250	1.13
8F24N67G4D3H1	120.00	24	480	4	144	67.25	10.69	7.6250	1.13
8F18N100G4D3H1	135.00	18	480	6	162	100.25	12.69	7.6250	1.13
8F24N80G4D3H1	144.00	24	480	4	173	80.25	12.69	7.6250	1.13
8F18N120G4D3H1	171.00	18	480	6	206	120.25	12.69	7.6250	1.13
8F24N100G4D3H1	180.00	24	480	8	217	100.25	12.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N140G4D3H1	198.00	18	480	6	238	140.25	16.69	7.6250	1.13
8F24N120G4D3H1	228.00	24	480	8	274	120.25	12.69	7.6250	1.13
8F18N160G4D3H1	234.00	18	480	6	281	160.25	16.69	7.6250	1.13
8F24N140G4D3H1	264.00	24	480	8	318	140.25	16.69	7.6250	1.13
8F24N160G4D3H1	312.00	24	480	8	375	160.25	16.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F36N44G4D3H1	108.00	36	480	3	130	44.19	10.63	9.7500	1.19
10F30N56G4D3H1	120.00	30	480	5	144	56.19	10.63	9.7500	1.19
10F36N56G4D3H1	144.00	36	480	4	173	56.19	10.63	9.7500	1.19
10F30N67G4D3H1	150.00	30	480	5	180	67.19	10.63	9.7500	1.19
10F36N67G4D3H1	180.00	36	480	6	217	67.19	10.63	9.7500	1.19
10F30N80G4D3H1	180.00	30	480	5	217	80.19	12.63	9.7500	1.19
10F36N80G4D3H1	216.00	36	480	6	260	80.19	12.63	9.7500	1.19
10F30N100G4D3H1	225.00	30	480	10	271	100.19	12.63	9.7500	1.19
10F36N100G4D3H1	270.00	36	480	12	325	100.19	12.63	9.7500	1.19
10F30N120G4D3H1	285.00	30	480	10	343	120.19	12.63	9.7500	1.19
10F30N140G4D3H1	330.00	30	480	10	397	140.19	16.63	9.7500	1.19
10F36N120G4D3H1	342.00	36	480	12	411	120.19	12.63	9.7500	1.19
10F30N160G4D3H1	390.00	30	480	10	469	160.19	16.63	9.7500	1.19
10F36N140G4D3H1	396.00	36	480	12	476	140.19	16.63	9.7500	1.19
10F36N160G4D3H1	468.00	36	480	12	563	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N44G4D3H1	144.00	48	480	4	173	44.13	10.56	11.7500	1.25
12F48N56G4D3H1	192.00	48	480	8	231	56.13	10.56	11.7500	1.25
12F48N67G4D3H1	240.00	48	480	8	289	67.13	10.56	11.7500	1.25
12F48N80G4D3H1	288.00	48	480	8	346	80.13	12.56	11.7500	1.25
12F54N80G4D3H1	324.00	54	480	9	390	80.13	12.56	11.7500	1.25
12F48N100G4D3H1	360.00	48	480	16	433	100.13	12.56	11.7500	1.25
12F54N100G4D3H1	405.00	54	480	18	487	100.13	12.56	11.7500	1.25
12F48N120G4D3H1	456.00	48	480	16	548	120.13	12.56	11.7500	1.25
12F54N120G4D3H1	513.00	54	480	18	617	120.13	12.56	11.7500	1.25
12F48N140G4D3H1	528.00	48	480	16	635	140.13	16.56	11.7500	1.25
12F54N140G4D3H1	594.00	54	480	18	714	140.13	16.56	11.7500	1.25
12F48N160G4D3H1	624.00	48	480	16	751	160.13	16.56	11.7500	1.25
12F54N160G4D3H1	702.00	54	480	18	844	160.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N80G4D3H1	324.00	54	480	9	390	80.00	12.44	13.0000	1.38
14F60N80G4D3H1	360.00	60	480	10	433	80.00	12.44	13.0000	1.38
14F54N100G4D3H1	405.00	54	480	18	487	100.00	12.44	13.0000	1.38
14F72N80G4D3H1	432.00	72	480	12	520	80.00	12.44	13.0000	1.38
14F60N100G4D3H1	450.00	60	480	20	541	100.00	12.44	13.0000	1.38
14F54N120G4D3H1	513.00	54	480	18	617	120.00	12.44	13.0000	1.38
14F72N100G4D3H1	540.00	72	480	24	650	100.00	12.44	13.0000	1.38
14F60N120G4D3H1	570.00	60	480	20	686	120.00	12.44	13.0000	1.38
14F54N140G4D3H1	594.00	54	480	18	714	140.00	16.44	13.0000	1.38
14F60N140G4D3H1	660.00	60	480	20	794	140.00	16.44	13.0000	1.38
14F72N120G4D3H1	684.00	72	480	24	823	120.00	12.44	13.0000	1.38

## 150# Flanged Immersion Heaters - Type IF

14F54N160G4D3H1	702.00	54	480	18	844	160.00	16.44	13.0000	1.38
14F60N160G4D3H1	780.00	60	480	20	938	160.00	16.44	13.0000	1.38
14F72N140G4D3H1	792.00	72	480	24	953	140.00	16.44	13.0000	1.38
14F72N160G4D3H1	936.00	72	480	24	1,126	160.00	16.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N80G4D3H1	504.00	84	480	14	606	79.94	12.38	15.0000	1.44
16F90N80G4D3H1	540.00	90	480	15	650	79.94	12.38	15.0000	1.44
16F96N80G4D3H1	576.00	96	480	16	693	79.94	12.38	15.0000	1.44
16F84N100G4D3H1	630.00	84	480	28	758	99.94	12.38	15.0000	1.44
16F90N100G4D3H1	675.00	90	480	30	812	99.94	12.38	15.0000	1.44
16F96N100G4D3H1	720.00	96	480	32	866	99.94	12.38	15.0000	1.44
16F84N120G4D3H1	798.00	84	480	28	960	119.94	12.38	15.0000	1.44
16F90N120G4D3H1	855.00	90	480	30	1,028	119.94	12.38	15.0000	1.44
16F96N120G4D3H1	912.00	96	480	32	1,097	119.94	12.38	15.0000	1.44
16F84N140G4D3H1	924.00	84	480	28	1,111	139.94	16.38	15.0000	1.44
16F90N140G4D3H1	990.00	90	480	30	1,191	139.94	16.38	15.0000	1.44
16F96N140G4D3H1	1,056.00	96	480	32	1,270	139.94	16.38	15.0000	1.44
16F84N160G4D3H1	1,092.00	84	480	28	1,314	159.94	16.38	15.0000	1.44
16F90N160G4D3H1	1,170.00	90	480	30	1,407	159.94	16.38	15.0000	1.44
16F96N160G4D3H1	1,248.00	96	480	32	1,501	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N100G4D3H1	810.00	108	480	36	974	99.81	12.25	17.0000	1.56
18F108N120G4D3H1	1,026.00	108	480	36	1,234	119.81	12.25	17.0000	1.56
18F108N140G4D3H1	1,188.00	108	480	36	1,429	139.81	16.25	17.0000	1.56
18F108N160G4D3H1	1,404.00	108	480	36	1,689	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N100G4D3H1	900.00	120	480	40	1,083	99.69	12.13	19.0000	1.69
20F126N100G4D3H1	945.00	126	480	42	1,137	99.69	12.13	19.0000	1.69
20F132N100G4D3H1	990.00	132	480	44	1,191	99.69	12.13	19.0000	1.69
20F144N100G4D3H1	1,080.00	144	480	48	1,299	99.69	12.13	19.0000	1.69
20F120N120G4D3H1	1,140.00	120	480	40	1,371	119.69	12.13	19.0000	1.69
20F126N120G4D3H1	1,197.00	126	480	42	1,440	119.69	12.13	19.0000	1.69
20F162N100G4D3H1	1,215.00	162	480	54	1,461	99.69	12.13	19.0000	1.69
20F132N120G4D3H1	1,254.00	132	480	44	1,508	119.69	12.13	19.0000	1.69
20F120N140G4D3H1	1,320.00	120	480	40	1,588	139.69	16.13	19.0000	1.69
20F180N100G4D3H1	1,350.00	180	480	60	1,624	99.69	12.13	19.0000	1.69
20F144N120G4D3H1	1,368.00	144	480	48	1,645	119.69	12.13	19.0000	1.69
20F126N140G4D3H1	1,386.00	126	480	42	1,667	139.69	16.13	19.0000	1.69
20F132N140G4D3H1	1,452.00	132	480	44	1,747	139.69	16.13	19.0000	1.69
20F162N120G4D3H1	1,539.00	162	480	54	1,851	119.69	12.13	19.0000	1.69
20F120N160G4D3H1	1,560.00	120	480	40	1,876	159.69	16.13	19.0000	1.69
20F144N140G4D3H1	1,584.00	144	480	48	1,905	139.69	16.13	19.0000	1.69
20F126N160G4D3H1	1,638.00	126	480	42	1,970	159.69	16.13	19.0000	1.69
20F180N120G4D3H1	1,710.00	180	480	60	2,057	119.69	12.13	19.0000	1.69
20F132N160G4D3H1	1,716.00	132	480	44	2,064	159.69	16.13	19.0000	1.69
20F162N140G4D3H1	1,782.00	162	480	54	2,143	139.69	16.13	19.0000	1.69
20F144N160G4D3H1	1,872.00	144	480	48	2,252	159.69	16.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F180N140G4D3H1	1,980.00	180	480	60	2,382	139.69	16.13	19.0000	1.69
20F162N160G4D3H1	2,106.00	162	480	54	2,533	159.69	16.13	19.0000	1.69
20F180N160G4D3H1	2,340.00	180	480	60	2,815	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N100G4D3H1	1,440.00	192	480	64	1,732	99.50	11.94	23.0000	1.88
24F216N100G4D3H1	1,620.00	216	480	72	1,949	99.50	11.94	23.0000	1.88
24F234N100G4D3H1	1,755.00	234	480	78	2,111	99.50	11.94	23.0000	1.88
24F240N100G4D3H1	1,800.00	240	480	80	2,165	99.50	11.94	23.0000	1.88
24F192N120G4D3H1	1,824.00	192	480	64	2,194	119.50	11.94	23.0000	1.88
24F216N120G4D3H1	2,052.00	216	480	72	2,468	119.50	11.94	23.0000	1.88
24F192N140G4D3H1	2,112.00	192	480	64	2,540	139.50	15.94	23.0000	1.88
24F234N120G4D3H1	2,223.00	234	480	78	2,674	119.50	11.94	23.0000	1.88
24F240N120G4D3H1	2,280.00	240	480	80	2,742	119.50	11.94	23.0000	1.88
24F216N140G4D3H1	2,376.00	216	480	72	2,858	139.50	15.94	23.0000	1.88
24F192N160G4D3H1	2,496.00	192	480	64	3,002	159.50	15.94	23.0000	1.88
24F234N140G4D3H1	2,574.00	234	480	78	3,096	139.50	15.94	23.0000	1.88
24F240N140G4D3H1	2,640.00	240	480	80	3,176	139.50	15.94	23.0000	1.88
24F216N160G4D3H1	2,808.00	216	480	72	3,378	159.50	15.94	23.0000	1.88
24F234N160G4D3H1	3,042.00	234	480	78	3,659	159.50	15.94	23.0000	1.88
24F240N160G4D3H1	3,120.00	240	480	80	3,753	159.50	15.94	23.0000	1.88

### 23 Watts/Sq. Inch

#### 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N10M2D3H1	1.50	3	240	1	4	10.44	3.88	2.9000	0.94
3F3N13M4D3H1	2.25	3	480	1	3	13.44	3.88	2.9000	0.94
3F3N13M1D3H1	2.25	3	120	1	11	13.44	3.88	2.9000	0.94
3F3N13M2D3H1	2.25	3	120	1	11	13.44	3.88	2.9000	0.94
3F3N18M2D3H1	3.00	3	240	1	7	17.94	3.88	2.9000	0.94
3F3N18M4D3H1	3.00	3	480	1	4	17.94	3.88	2.9000	0.94
3F3N20M2D3H1	3.75	3	240	1	9	19.94	3.88	2.9000	0.94
3F3N20M4D3H1	3.75	3	480	1	5	20.44	3.88	2.9000	0.94
3F3N25M4D3H1	4.50	3	480	1	5	25.44	3.88	2.9000	0.94
3F3N25M1D3H1	4.50	3	120	1	22	25.44	3.88	2.9000	0.94
3F3N25M2D3H1	4.50	3	240	1	11	25.44	3.88	2.9000	0.94
3F3N33M4D3H1	6.00	3	480	1	7	32.94	3.88	2.9000	0.94
3F3N40M4D3H1	7.50	3	480	1	9	40.44	3.88	2.9000	0.94
3F3N40M2D3H1	7.50	3	240	1	18	40.44	3.88	2.9000	0.94
3F3N48M4D3H1	9.00	3	480	1	11	47.94	3.88	2.9000	0.94
3F3N52M2D3H1	10.00	3	240	1	24	51.94	5.88	2.9000	0.94
3F3N52M4D3H1	10.00	3	480	1	12	51.94	5.88	2.9000	0.94
3F3N59M4D3H1	10.00	3	480	1	12	57.94	12.88	2.9000	0.94
3F3N64M2D3H1	12.75	3	240	1	31	64.44	5.88	2.9000	0.94
3F3N64M4D3H1	12.75	3	480	1	15	64.44	5.88	2.9000	0.94
3F3N73M4D3H1	12.75	3	480	1	15	71.94	16.88	2.9000	0.94
3F3N77M4D3H1	15.00	3	480	1	18	76.94	5.88	2.9000	0.94
3F3N77M2D3H1	15.00	3	240	1	36	76.94	5.88	2.9000	0.94
3F3N88M4D3H1	16.75	3	480	1	20	88.94	5.88	2.9000	0.94
3F3N95M4D3H1	16.75	3	480	1	20	93.94	12.88	2.9000	0.94
3F3N106M4D3H1	18.75	3	480	1	23	106.44	12.88	2.9000	0.94
3F3N120M4D3H1	23.25	3	480	1	28	120.44	12.88	2.9000	0.94
3F3N140M4D3H1	26.25	3	480	1	32	140.44	16.88	2.9000	0.94



## 150# Flanged Immersion Heaters - Type IF

3F3N160M4D3H1	30.00	3	480	1	36	160.44	16.88	2.9000	0.94
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### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N10M2D3H1	3.00	6	240	1	7	10.44	3.88	3.8260	0.94
4F6N13M1D3H1	4.50	6	120	1	22	13.44	3.88	3.8260	0.94
4F6N13M2D3H1	4.50	6	120	1	22	13.44	3.88	3.8260	0.94
4F6N13M4D3H1	4.50	6	480	1	5	13.44	3.88	3.8260	0.94
4F6N18M2D3H1	6.00	6	240	1	14	17.94	3.88	3.8260	0.94
4F6N18M4D3H1	6.00	6	480	1	7	17.94	3.88	3.8260	0.94
4F6N20M2D3H1	7.50	6	240	1	18	19.94	3.88	3.8260	0.94
4F6N20M4D3H1	7.50	6	480	1	9	20.44	3.88	3.8260	0.94
4F6N25M2D3H1	9.00	6	240	1	22	25.44	3.88	3.8260	0.94
4F6N25M4D3H1	9.00	6	480	1	11	25.44	3.88	3.8260	0.94
4F6N33M4D3H1	12.00	6	480	1	14	32.94	3.88	3.8260	0.94
4F6N40M2D3H1	15.00	6	240	1	36	40.44	3.88	3.8260	0.94
4F6N40M4D3H1	15.00	6	480	1	18	40.44	3.88	3.8260	0.94
4F6N48M4D3H1	18.00	6	480	1	22	47.94	3.88	3.8260	0.94
4F6N52M2D3H1	20.00	6	240	1	48	51.94	5.88	3.8260	0.94
4F6N52M4D3H1	20.00	6	480	1	24	51.94	5.88	3.8260	0.94
4F6N59M4D3H1	20.00	6	480	1	24	57.94	12.88	3.8260	0.94
4F6N64M4D3H1	25.50	6	480	1	31	64.44	5.88	3.8260	0.94
4F6N64M2D3H1	25.50	6	240	2	61	64.44	5.88	3.8260	0.94
4F6N73M4D3H1	25.50	6	480	1	31	71.94	16.88	3.8260	0.94
4F6N77M2D3H1	30.00	6	240	2	72	76.94	5.88	3.8260	0.94
4F6N77M4D3H1	30.00	6	480	1	36	76.94	5.88	3.8260	0.94
4F6N88M4D3H1	33.50	6	480	1	40	88.94	5.88	3.8260	0.94
4F6N95M4D3H1	33.50	6	480	1	40	93.94	12.88	3.8260	0.94
4F6N106M4D3H1	37.75	6	480	1	45	106.44	12.88	3.8260	0.94
4F6N120M4D3H1	46.75	6	480	2	56	120.44	12.88	3.8260	0.94
4F6N140M4D3H1	52.50	6	480	2	63	140.44	16.88	3.8260	0.94
4F6N160M4D3H1	60.00	6	480	2	72	160.44	16.88	3.8260	0.94

### 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N10M2D3H1	4.50	9	240	1	11	10.44	3.88	4.8125	0.94
5F9N13M4D3H1	6.75	9	480	1	8	13.44	3.88	4.8125	0.94
5F9N18M2D3H1	9.00	9	240	1	22	17.94	3.88	4.8125	0.94
5F9N18M4D3H1	9.00	9	480	1	11	17.94	3.88	4.8125	0.94
5F9N20M2D3H1	11.25	9	240	1	27	19.94	3.88	4.8125	0.94
5F9N20M4D3H1	11.25	9	480	1	14	20.44	3.88	4.8125	0.94
5F9N25M2D3H1	13.50	9	240	1	32	25.44	3.88	4.8125	0.94
5F9N25M4D3H1	13.50	9	480	1	16	25.44	3.88	4.8125	0.94
5F9N33M4D3H1	18.00	9	480	1	22	32.94	3.88	4.8125	0.94
5F9N40M4D3H1	22.50	9	480	1	27	40.44	3.88	4.8125	0.94
5F9N48M4D3H1	27.00	9	480	1	32	47.94	3.88	4.8125	0.94
5F9N52M4D3H1	30.00	9	480	1	36	51.94	5.88	4.8125	0.94
5F9N59M4D3H1	30.00	9	480	1	36	57.94	12.88	4.8125	0.94
5F9N64M4D3H1	38.25	9	480	1	46	64.44	5.88	4.8125	0.94
5F9N73M4D3H1	38.25	9	480	1	46	71.94	16.88	4.8125	0.94
5F9N120M4D3H1	70.00	9	480	3	84	120.44	12.88	4.8125	0.94
5F9N140M4D3H1	78.75	9	480	3	95	140.44	16.88	4.8125	0.94
5F9N160M4D3H1	90.00	9	480	3	108	160.44	16.88	4.8125	0.94

## 150# Flanged Immersion Heaters - Type IF

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10M2D3H1	6.00	12	240	1	14	10.38	3.81	5.7610	1.00
6F15N10M2D3H1	7.50	15	240	1	18	10.38	3.81	5.7610	1.00
6F12N13M4D3H1	9.00	12	480	1	11	13.38	3.81	5.7610	1.00
6F15N13M4D3H1	11.25	15	480	1	14	13.38	3.81	5.7610	1.00
6F12N18M2D3H1	12.00	12	240	1	29	17.88	3.81	5.7610	1.00
6F12N18M4D3H1	12.00	12	480	1	14	17.88	3.81	5.7610	1.00
6F15N18M2D3H1	15.00	15	240	1	36	17.88	3.81	5.7610	1.00
6F15N18M4D3H1	15.00	15	480	1	18	17.88	3.81	5.7610	1.00
6F12N20M2D3H1	15.00	12	240	1	36	19.88	3.81	5.7610	1.00
6F12N20M4D3H1	15.00	12	480	1	18	20.38	3.81	5.7610	1.00
6F12N25M2D3H1	18.00	12	240	1	43	25.38	3.81	5.7610	1.00
6F12N25M4D3H1	18.00	12	480	1	22	25.38	3.81	5.7610	1.00
6F15N20M2D3H1	18.75	15	240	1	45	19.88	3.81	5.7610	1.00
6F15N20M4D3H1	18.75	15	480	1	23	20.38	3.81	5.7610	1.00
6F15N25M4D3H1	22.50	15	480	1	27	25.38	3.81	5.7610	1.00
6F12N33M4D3H1	24.00	12	480	1	29	32.88	3.81	5.7610	1.00
6F15N33M4D3H1	30.00	15	480	1	36	32.88	3.81	5.7610	1.00
6F12N40M2D3H1	30.00	12	240	2	72	40.38	3.81	5.7610	1.00
6F12N40M4D3H1	30.00	12	480	1	36	40.38	3.81	5.7610	1.00
6F12N48M4D3H1	36.00	12	480	1	43	47.88	3.81	5.7610	1.00
6F15N40M4D3H1	37.50	15	480	1	45	40.38	3.81	5.7610	1.00
6F12N52M2D3H1	40.00	12	240	2	96	51.88	5.81	5.7610	1.00
6F12N52M4D3H1	40.00	12	480	1	48	51.88	5.81	5.7610	1.00
6F12N59M4D3H1	40.00	12	480	1	48	57.88	12.81	5.7610	1.00
6F12N64M4D3H1	51.00	12	480	2	61	64.38	5.81	5.7610	1.00
6F12N73M4D3H1	51.00	12	480	2	61	71.88	16.81	5.7610	1.00
6F12N77M4D3H1	60.00	12	480	2	72	76.88	5.81	5.7610	1.00
6F12N88M4D3H1	67.00	12	480	2	81	88.88	5.81	5.7610	1.00
6F12N95M4D3H1	67.00	12	480	2	81	93.88	12.81	5.7610	1.00
6F12N106M4D3H1	75.50	12	480	2	91	106.38	12.81	5.7610	1.00
6F12N120M4D3H1	93.50	12	480	4	112	120.38	12.81	5.7610	1.00
6F12N140M4D3H1	105.00	12	480	4	126	140.38	16.81	5.7610	1.00
6F15N120M4D3H1	117.00	15	480	5	141	120.38	12.81	5.7610	1.00
6F12N160M4D3H1	120.00	12	480	4	144	160.38	16.81	5.7610	1.00
6F15N140M4D3H1	131.00	15	480	5	158	140.38	16.81	5.7610	1.00
6F15N160M4D3H1	150.00	15	480	5	180	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N13M4D3H1	13.50	18	480	1	16	13.25	3.69	7.6250	1.13
8F24N13M4D3H1	18.00	24	480	1	22	13.25	3.69	7.6250	1.13
8F18N18M4D3H1	18.00	18	480	1	22	17.75	3.69	7.6250	1.13
8F18N20M4D3H1	22.50	18	480	1	27	20.25	3.69	7.6250	1.13
8F24N18M4D3H1	24.00	24	480	1	29	17.75	3.69	7.6250	1.13
8F18N25M4D3H1	27.00	18	480	1	32	25.25	3.69	7.6250	1.13
8F24N20M4D3H1	30.00	24	480	1	36	20.25	3.69	7.6250	1.13
8F24N25M4D3H1	36.00	24	480	1	43	25.25	3.69	7.6250	1.13
8F18N33M4D3H1	36.00	18	480	1	43	32.75	3.69	7.6250	1.13
8F18N40M4D3H1	45.00	18	480	2	54	40.25	3.69	7.6250	1.13
8F24N33M4D3H1	48.00	24	480	2	58	32.75	3.69	7.6250	1.13
8F18N48M4D3H1	54.00	18	480	2	65	47.75	3.69	7.6250	1.13
8F24N40M4D3H1	60.00	24	480	2	72	40.25	3.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N52M4D3H1	60.00	18	480	2	72	51.75	5.69	7.6250	1.13
8F18N59M4D3H1	60.00	18	480	2	72	57.75	12.69	7.6250	1.13
8F24N48M4D3H1	72.00	24	480	2	87	47.75	3.69	7.6250	1.13
8F18N64M4D3H1	76.50	18	480	2	92	64.25	5.69	7.6250	1.13
8F18N73M4D3H1	76.50	18	480	2	92	71.75	16.69	7.6250	1.13
8F24N52M4D3H1	80.00	24	480	2	96	51.75	5.69	7.6250	1.13
8F24N59M4D3H1	80.00	24	480	2	96	57.75	12.69	7.6250	1.13
8F18N77M4D3H1	90.00	18	480	3	108	76.75	5.69	7.6250	1.13
8F18N88M4D3H1	100.50	18	480	3	121	88.75	5.69	7.6250	1.13
8F18N95M4D3H1	100.50	18	480	3	121	93.75	12.69	7.6250	1.13
8F24N64M4D3H1	102.00	24	480	4	123	64.25	5.69	7.6250	1.13
8F24N73M4D3H1	102.00	24	480	4	123	71.75	16.69	7.6250	1.13
8F18N106M4D3H1	113.00	18	480	3	136	106.25	12.69	7.6250	1.13
8F24N77M4D3H1	120.00	24	480	4	144	76.75	5.69	7.6250	1.13
8F24N88M4D3H1	134.00	24	480	4	161	88.75	5.69	7.6250	1.13
8F24N95M4D3H1	134.00	24	480	4	161	93.75	12.69	7.6250	1.13
8F18N120M4D3H1	140.00	18	480	6	168	120.25	12.69	7.6250	1.13
8F24N106M4D3H1	151.00	24	480	4	182	106.25	12.69	7.6250	1.13
8F18N140M4D3H1	157.50	18	480	6	189	140.25	16.69	7.6250	1.13
8F18N160M4D3H1	180.00	18	480	6	217	160.25	16.69	7.6250	1.13
8F24N120M4D3H1	187.00	24	480	8	225	120.25	12.69	7.6250	1.13
8F24N140M4D3H1	210.00	24	480	8	253	140.25	16.69	7.6250	1.13
8F24N160M4D3H1	240.00	24	480	8	289	160.25	16.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N13M4D3H1	22.50	30	480	1	27	13.19	3.63	9.7500	1.19
10F36N13M4D3H1	27.00	36	480	1	32	13.19	3.63	9.7500	1.19
10F30N18M4D3H1	30.00	30	480	1	36	17.69	3.63	9.7500	1.19
10F36N18M4D3H1	36.00	36	480	1	43	17.69	3.63	9.7500	1.19
10F30N20M4D3H1	37.50	30	480	1	45	20.19	3.63	9.7500	1.19
10F36N20M4D3H1	45.00	36	480	2	54	20.19	3.63	9.7500	1.19
10F30N25M4D3H1	45.00	30	480	2	54	25.19	3.63	9.7500	1.19
10F36N25M4D3H1	54.00	36	480	2	65	25.19	3.63	9.7500	1.19
10F30N33M4D3H1	60.00	30	480	2	72	32.69	3.63	9.7500	1.19
10F36N33M4D3H1	72.00	36	480	2	87	32.69	3.63	9.7500	1.19
10F30N40M4D3H1	75.00	30	480	2	90	40.19	3.63	9.7500	1.19
10F36N40M4D3H1	90.00	36	480	3	108	40.19	3.63	9.7500	1.19
10F30N52M4D3H1	100.00	30	480	5	120	51.69	5.63	9.7500	1.19
10F30N59M4D3H1	100.00	30	480	5	120	57.69	12.63	9.7500	1.19
10F36N48M4D3H1	108.00	36	480	3	130	47.69	3.63	9.7500	1.19
10F36N52M4D3H1	120.00	36	480	3	144	51.69	5.63	9.7500	1.19
10F36N59M4D3H1	120.00	36	480	3	144	57.69	12.63	9.7500	1.19
10F36N66MX43H1	120.00	36	480	0	144	64.69	19.63	9.7500	1.19
10F30N64M4D3H1	127.50	30	480	5	153	64.19	5.63	9.7500	1.19
10F30N73M4D3H1	127.50	30	480	5	153	71.69	16.63	9.7500	1.19
10F30N77M4D3H1	150.00	30	480	5	180	76.69	5.63	9.7500	1.19
10F36N64M4D3H1	153.00	36	480	4	184	64.19	5.63	9.7500	1.19
10F36N73M4D3H1	153.00	36	480	4	184	71.69	16.63	9.7500	1.19
10F30N88M4D3H1	168.00	30	480	5	202	88.69	5.63	9.7500	1.19
10F30N95M4D3H1	168.00	30	480	5	202	93.69	12.63	9.7500	1.19
10F36N77M4D3H1	180.00	36	480	6	217	76.69	5.63	9.7500	1.19
10F30N106M4D3H1	189.00	30	480	5	227	106.19	12.63	9.7500	1.19
10F36N88M4D3H1	201.50	36	480	6	242	88.69	5.63	9.7500	1.19



## 150# Flanged Immersion Heaters - Type IF

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N88M4D3H1	470.00	84	480	14	565	88.44	5.38	15.0000	1.44
16F84N95M4D3H1	470.00	84	480	14	565	93.44	12.38	15.0000	1.44
16F90N88M4D3H1	504.00	90	480	15	606	88.44	5.38	15.0000	1.44
16F90N95M4D3H1	504.00	90	480	15	606	93.44	12.38	15.0000	1.44
16F84N106M4D3H1	529.00	84	480	14	636	105.94	12.38	15.0000	1.44
16F96N88M4D3H1	538.00	96	480	16	647	88.44	5.38	15.0000	1.44
16F96N95M4D3H1	538.00	96	480	16	647	93.44	12.38	15.0000	1.44
16F90N106M4D3H1	567.00	90	480	15	682	105.94	12.38	15.0000	1.44
16F96N106M4D3H1	605.00	96	480	16	728	105.94	12.38	15.0000	1.44
16F84N120M4D3H1	655.00	84	480	28	788	119.94	12.38	15.0000	1.44
16F90N120M4D3H1	702.00	90	480	30	844	119.94	12.38	15.0000	1.44
16F84N140M4D3H1	735.00	84	480	28	884	139.94	16.38	15.0000	1.44
16F96N120M4D3H1	749.00	96	480	32	901	119.94	12.38	15.0000	1.44
16F90N140M4D3H1	788.00	90	480	30	948	139.94	16.38	15.0000	1.44
16F96N140M4D3H1	840.00	96	480	32	1,010	139.94	16.38	15.0000	1.44
16F84N160M4D3H1	840.00	84	480	28	1,010	159.94	16.38	15.0000	1.44
16F90N160M4D3H1	900.00	90	480	30	1,083	159.94	16.38	15.0000	1.44
16F96N160M4D3H1	960.00	96	480	32	1,155	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88M4D3H1	605.00	108	480	18	728	88.31	5.25	17.0000	1.56
18F108N95M4D3H1	605.00	108	480	18	728	93.31	12.25	17.0000	1.56
18F108N106M4D3H1	680.00	108	480	18	818	105.81	12.25	17.0000	1.56
18F108N120M4D3H1	842.00	108	480	36	1,013	119.81	12.25	17.0000	1.56
18F108N140M4D3H1	945.00	108	480	36	1,137	139.81	16.25	17.0000	1.56
18F108N160M4D3H1	1,080.00	108	480	36	1,299	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88M4D3H1	672.00	120	480	20	808	88.19	5.13	19.0000	1.69
20F120N95M4D3H1	672.00	120	480	20	808	93.19	12.13	19.0000	1.69
20F126N88M4D3H1	706.00	126	480	21	849	88.19	5.13	19.0000	1.69
20F126N95M4D3H1	706.00	126	480	21	849	93.19	12.13	19.0000	1.69
20F132N88M4D3H1	739.00	132	480	22	889	88.19	5.13	19.0000	1.69
20F132N95M4D3H1	739.00	132	480	22	889	93.19	12.13	19.0000	1.69
20F120N106M4D3H1	756.00	120	480	20	909	105.69	12.13	19.0000	1.69
20F126N106M4D3H1	794.00	126	480	21	955	105.69	12.13	19.0000	1.69
20F144N88M4D3H1	806.00	144	480	24	969	88.19	5.13	19.0000	1.69
20F144N95M4D3H1	806.00	144	480	24	969	93.19	12.13	19.0000	1.69
20F132N106M4D3H1	832.00	132	480	22	1,001	105.69	12.13	19.0000	1.69
20F162N88M4D3H1	907.00	162	480	27	1,091	88.19	5.13	19.0000	1.69
20F162N95M4D3H1	907.00	162	480	27	1,091	93.19	12.13	19.0000	1.69
20F144N106M4D3H1	907.00	144	480	24	1,091	105.69	12.13	19.0000	1.69
20F120N120M4D3H1	936.00	120	480	40	1,126	119.69	12.13	19.0000	1.69
20F126N120M4D3H1	983.00	126	480	42	1,182	119.69	12.13	19.0000	1.69
20F180N88M4D3H1	1,008.00	180	480	30	1,212	88.19	5.13	19.0000	1.69
20F180N95M4D3H1	1,008.00	180	480	30	1,212	93.19	12.13	19.0000	1.69
20F162N106M4D3H1	1,021.00	162	480	27	1,228	105.69	12.13	19.0000	1.69
20F132N120M4D3H1	1,030.00	132	480	44	1,239	119.69	12.13	19.0000	1.69
20F120N140M4D3H1	1,050.00	120	480	40	1,263	139.69	16.13	19.0000	1.69
20F126N140M4D3H1	1,103.00	126	480	42	1,327	139.69	16.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F144N120M4D3H1	1,123.00	144	480	48	1,351	119.69	12.13	19.0000	1.69
20F180N106M4D3H1	1,134.00	180	480	30	1,364	105.69	12.13	19.0000	1.69
20F132N140M4D3H1	1,155.00	132	480	44	1,389	139.69	16.13	19.0000	1.69
20F120N160M4D3H1	1,200.00	120	480	40	1,443	159.69	16.13	19.0000	1.69
20F144N140M4D3H1	1,260.00	144	480	48	1,516	139.69	16.13	19.0000	1.69
20F126N160M4D3H1	1,260.00	126	480	42	1,516	159.69	16.13	19.0000	1.69
20F162N120M4D3H1	1,264.00	162	480	54	1,520	119.69	12.13	19.0000	1.69
20F132N160M4D3H1	1,320.00	132	480	44	1,588	159.69	16.13	19.0000	1.69
20F180N120M4D3H1	1,404.00	180	480	60	1,689	119.69	12.13	19.0000	1.69
20F162N140M4D3H1	1,418.00	162	480	54	1,706	139.69	16.13	19.0000	1.69
20F144N160M4D3H1	1,440.00	144	480	48	1,732	159.69	16.13	19.0000	1.69
20F180N140M4D3H1	1,575.00	180	480	60	1,894	139.69	16.13	19.0000	1.69
20F162N160M4D3H1	1,620.00	162	480	54	1,949	159.69	16.13	19.0000	1.69
20F180N160M4D3H1	1,800.00	180	480	60	2,165	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N88M4D3H1	1,075.00	192	480	32	1,293	88.00	4.94	23.0000	1.88
24F192N95M4D3H1	1,075.00	192	480	32	1,293	93.00	11.94	23.0000	1.88
24F216N88M4D3H1	1,210.00	216	480	36	1,455	88.00	4.94	23.0000	1.88
24F216N95M4D3H1	1,210.00	216	480	36	1,455	93.00	11.94	23.0000	1.88
24F192N106M4D3H1	1,210.00	192	480	32	1,455	105.50	11.94	23.0000	1.88
24F234N88M4D3H1	1,310.00	234	480	39	1,576	88.00	4.94	23.0000	1.88
24F234N95M4D3H1	1,310.00	234	480	39	1,576	93.00	11.94	23.0000	1.88
24F240N88M4D3H1	1,344.00	240	480	40	1,617	88.00	4.94	23.0000	1.88
24F240N95M4D3H1	1,344.00	240	480	40	1,617	93.00	11.94	23.0000	1.88
24F216N106M4D3H1	1,361.00	216	480	36	1,637	105.50	11.94	23.0000	1.88
24F234N106M4D3H1	1,474.00	234	480	39	1,773	105.50	11.94	23.0000	1.88
24F192N120M4D3H1	1,498.00	192	480	64	1,802	119.50	11.94	23.0000	1.88
24F240N106M4D3H1	1,512.00	240	480	40	1,819	105.50	11.94	23.0000	1.88
24F192N140M4D3H1	1,680.00	192	480	64	2,021	139.50	15.94	23.0000	1.88
24F216N120M4D3H1	1,685.00	216	480	72	2,027	119.50	11.94	23.0000	1.88
24F234N120M4D3H1	1,825.00	234	480	78	2,195	119.50	11.94	23.0000	1.88
24F240N120M4D3H1	1,872.00	240	480	80	2,252	119.50	11.94	23.0000	1.88
24F216N140M4D3H1	1,890.00	216	480	72	2,273	139.50	15.94	23.0000	1.88
24F192N160M4D3H1	1,920.00	192	480	64	2,309	159.50	15.94	23.0000	1.88
24F234N140M4D3H1	2,048.00	234	480	78	2,463	139.50	15.94	23.0000	1.88
24F240N140M4D3H1	2,100.00	240	480	80	2,526	139.50	15.94	23.0000	1.88
24F216N160M4D3H1	2,160.00	216	480	72	2,598	159.50	15.94	23.0000	1.88
24F234N160M4D3H1	2,340.00	234	480	78	2,815	159.50	15.94	23.0000	1.88
24F240N160M4D3H1	2,400.00	240	480	80	2,887	159.50	15.94	23.0000	1.88

### 20 Watts/Sq. Inch

#### 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N18B4Y3H1	2.50	3	480	1	3	17.94	3.88	2.9000	0.94
3F3N20B4Y3H1	2.88	3	480	1	3	19.94	3.88	2.9000	0.94
3F3N25B4Y3H1	3.75	3	480	1	5	25.44	3.88	2.9000	0.94
3F3N25B2Y3H1	3.75	3	240	1	9	25.44	3.88	2.9000	0.94
3F3N33B2Y3H1	5.00	3	240	1	12	32.94	3.88	2.9000	0.94
3F3N33B4Y3H1	5.00	3	480	1	6	32.94	3.88	2.9000	0.94
3F3N38B4Y3H1	6.00	3	480	1	7	38.44	5.88	2.9000	0.94
3F3N36B4Y3H1	6.38	3	480	1	8	35.94	3.88	2.9000	0.94
3F3N43B4Y3H1	6.63	3	480	1	8	42.94	5.88	2.9000	0.94

## 150# Flanged Immersion Heaters - Type IF

3F3N52B4Y3H1	8.25	3	480	1	10	51.94	5.88	2.9000	0.94
3F3N52B2Y3H1	8.25	3	240	1	20	51.94	5.88	2.9000	0.94
3F3N57B4Y3H1	8.25	3	480	1	10	56.94	10.88	2.9000	0.94
3F3N61B4Y3H1	10.00	3	480	1	12	61.44	5.88	2.9000	0.94
3F3N68B4Y3H1	10.00	3	480	1	12	68.44	12.88	2.9000	0.94
3F3N88B4Y3H1	14.75	3	480	1	18	88.94	5.88	2.9000	0.94
3F3N106B4Y3H1	16.50	3	480	1	20	106.44	12.88	2.9000	0.94
3F3N120B4Y3H1	19.00	3	480	1	23	120.44	12.88	2.9000	0.94

### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N18B4Y3H1	5.00	6	480	1	6	17.94	3.88	3.8260	0.94
4F6N20B4Y3H1	5.75	6	480	1	7	19.94	3.88	3.8260	0.94
4F6N25B4Y3H1	7.63	6	480	1	9	25.44	3.88	3.8260	0.94
4F6N25B2Y3H1	7.63	6	240	1	18	25.44	3.88	3.8260	0.94
4F6N33B4Y3H1	10.00	6	480	1	12	32.94	3.88	3.8260	0.94
4F6N33B2Y3H1	10.00	6	240	1	24	32.94	3.88	3.8260	0.94
4F6N38B4Y3H1	12.00	6	480	1	14	38.44	5.88	3.8260	0.94
4F6N36B4Y3H1	12.75	6	480	1	15	35.94	3.88	3.8260	0.94
4F6N43B4Y3H1	13.25	6	480	1	16	42.94	5.88	3.8260	0.94
4F6N52B4Y3H1	16.50	6	480	1	20	51.94	5.88	3.8260	0.94
4F6N52B2Y3H1	16.50	6	240	1	40	51.94	5.88	3.8260	0.94
4F6N57B4Y3H1	16.50	6	480	1	20	56.94	10.88	3.8260	0.94
4F6N61B4Y3H1	20.00	6	480	1	24	61.44	5.88	3.8260	0.94
4F6N68B4Y3H1	20.00	6	480	1	24	68.44	12.88	3.8260	0.94
4F6N88B4Y3H1	29.50	6	480	1	35	88.94	5.88	3.8260	0.94
4F6N106B4Y3H1	33.25	6	480	1	40	106.44	12.88	3.8260	0.94
4F6N120B4Y3H1	38.00	6	480	1	46	120.44	12.88	3.8260	0.94

### 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N18B4Y3H1	7.50	9	480	1	9	17.94	3.88	4.8125	0.94
5F9N20B4Y3H1	8.63	9	480	1	10	19.94	3.88	4.8125	0.94
5F9N25B4Y3H1	11.50	9	480	1	14	25.44	3.88	4.8125	0.94
5F9N25B2Y3H1	11.50	9	240	1	28	25.44	3.88	4.8125	0.94
5F9N33B2Y3H1	15.00	9	240	1	36	32.94	3.88	4.8125	0.94
5F9N33B4Y3H1	15.00	9	480	1	18	32.94	3.88	4.8125	0.94
5F9N38B4Y3H1	18.00	9	480	1	22	38.44	5.88	4.8125	0.94
5F9N36B4Y3H1	19.25	9	480	1	23	35.94	3.88	4.8125	0.94
5F9N43B4Y3H1	20.00	9	480	1	24	42.94	5.88	4.8125	0.94
5F9N52B4Y3H1	25.00	9	480	1	30	51.94	5.88	4.8125	0.94
5F9N57B4Y3H1	25.00	9	480	1	30	56.94	10.88	4.8125	0.94
5F9N61B4Y3H1	30.00	9	480	1	36	61.44	5.88	4.8125	0.94
5F9N68B4Y3H1	30.00	9	480	1	36	68.44	12.88	4.8125	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N18B4Y3H1	10.00	12	480	1	12	17.88	3.81	5.7610	1.00
6F12N20B4Y3H1	11.50	12	480	1	14	19.88	3.81	5.7610	1.00
6F15N18B4Y3H1	12.50	15	480	1	15	17.88	3.81	5.7610	1.00
6F15N20B4Y3H1	14.50	15	480	1	17	19.88	3.81	5.7610	1.00
6F12N25B2Y3H1	15.25	12	240	1	37	25.38	3.81	5.7610	1.00
6F12N25B4Y3H1	15.25	12	480	1	18	25.38	3.81	5.7610	1.00

## 150# Flanged Immersion Heaters - Type IF

6F15N25B2Y3H1	19.25	15	240	1	46	25.38	3.81	5.7610	1.00
6F15N25B4Y3H1	19.25	15	480	1	23	25.38	3.81	5.7610	1.00
6F12N33B2Y3H1	20.00	12	240	1	48	32.88	3.81	5.7610	1.00
6F12N33B4Y3H1	20.00	12	480	1	24	32.88	3.81	5.7610	1.00
6F12N38B4Y3H1	24.00	12	480	1	29	38.38	5.81	5.7610	1.00
6F15N33B4Y3H1	25.00	15	480	1	30	32.88	3.81	5.7610	1.00
6F12N36B4Y3H1	25.75	12	480	1	31	35.88	3.81	5.7610	1.00
6F12N43B4Y3H1	26.50	12	480	1	32	42.88	5.81	5.7610	1.00
6F15N38B4Y3H1	30.00	15	480	1	36	38.38	5.81	5.7610	1.00
6F15N36B4Y3H1	32.25	15	480	1	39	35.88	3.81	5.7610	1.00
6F15N43B4Y3H1	33.25	15	480	1	40	42.88	5.81	5.7610	1.00
6F12N52B4Y3H1	33.25	12	480	1	40	51.88	5.81	5.7610	1.00
6F12N52B2Y3H1	33.25	12	240	2	80	51.88	5.81	5.7610	1.00
6F12N57B4Y3H1	33.25	12	480	1	40	56.88	10.81	5.7610	1.00
6F12N61B4Y3H1	40.00	12	480	1	48	61.38	5.81	5.7610	1.00
6F12N68B4Y3H1	40.00	12	480	1	48	68.38	12.81	5.7610	1.00
6F12N88B4Y3H1	59.00	12	480	2	71	88.88	5.81	5.7610	1.00
6F12N106B4Y3H1	66.50	12	480	2	80	106.38	12.81	5.7610	1.00
6F12N120B4Y3H1	76.00	12	480	2	91	120.38	12.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N18B4Y3H1	15.00	18	480	1	18	17.75	3.69	7.6250	1.13
8F18N20B4Y3H1	17.25	18	480	1	21	19.75	3.69	7.6250	1.13
8F24N18B4Y3H1	20.00	24	480	1	24	17.75	3.69	7.6250	1.13
8F24N20B4Y3H1	23.00	24	480	1	28	19.75	3.69	7.6250	1.13
8F18N25B4Y3H1	23.00	18	480	1	28	25.25	3.69	7.6250	1.13
8F18N33B4Y3H1	30.00	18	480	1	36	32.75	3.69	7.6250	1.13
8F24N25B4Y3H1	30.75	24	480	1	37	25.25	3.69	7.6250	1.13
8F18N38B4Y3H1	36.00	18	480	1	43	38.25	5.69	7.6250	1.13
8F18N36B4Y3H1	38.50	18	480	1	46	35.75	3.69	7.6250	1.13
8F24N33B4Y3H1	40.00	24	480	1	48	32.75	3.69	7.6250	1.13
8F18N43B4Y3H1	40.00	18	480	1	48	42.75	5.69	7.6250	1.13
8F24N38B4Y3H1	48.00	24	480	2	58	38.25	5.69	7.6250	1.13
8F18N52B4Y3H1	50.00	18	480	2	60	51.75	5.69	7.6250	1.13
8F18N57B4Y3H1	50.00	18	480	2	60	56.75	10.69	7.6250	1.13
8F24N36B4Y3H1	51.50	24	480	2	62	35.75	3.69	7.6250	1.13
8F24N43B4Y3H1	53.25	24	480	2	64	42.75	5.69	7.6250	1.13
8F18N61B4Y3H1	60.00	18	480	2	72	61.25	5.69	7.6250	1.13
8F18N68B4Y3H1	60.00	18	480	2	72	68.25	12.69	7.6250	1.13
8F24N52B4Y3H1	66.50	24	480	2	80	51.75	5.69	7.6250	1.13
8F24N57B4Y3H1	66.50	24	480	2	80	56.75	10.69	7.6250	1.13
8F24N61B4Y3H1	80.00	24	480	2	96	61.25	5.69	7.6250	1.13
8F24N68B4Y3H1	80.00	24	480	2	96	68.25	12.69	7.6250	1.13
8F18N88B4Y3H1	88.75	18	480	3	107	88.75	5.69	7.6250	1.13
8F18N106B4Y3H1	100.00	18	480	3	120	106.25	12.69	7.6250	1.13
8F18N120B4Y3H1	114.00	18	480	3	137	120.25	12.69	7.6250	1.13
8F24N88B4Y3H1	118.00	24	480	4	142	88.75	5.69	7.6250	1.13
8F24N106B4Y3H1	133.00	24	480	4	160	106.25	12.69	7.6250	1.13
8F24N120B4Y3H1	152.00	24	480	4	183	120.25	12.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N18B4Y3H1	25.00	30	480	1	30	17.69	3.63	9.7500	1.19





## 150# Flanged Immersion Heaters - Type IF

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N88B4Y3H1	414.00	84	480	14	498	88.44	5.38	15.0000	1.44
16F90N88B4Y3H1	444.00	90	480	15	534	88.44	5.38	15.0000	1.44
16F84N106B4Y3H1	466.50	84	480	14	561	105.94	12.38	15.0000	1.44
16F96N88B4Y3H1	473.50	96	480	16	570	88.44	5.38	15.0000	1.44
16F90N106B4Y3H1	500.00	90	480	15	601	105.94	12.38	15.0000	1.44
16F84N120B4Y3H1	532.00	84	480	14	640	119.94	12.38	15.0000	1.44
16F96N106B4Y3H1	533.00	96	480	16	641	105.94	12.38	15.0000	1.44
16F90N120B4Y3H1	570.00	90	480	15	686	119.94	12.38	15.0000	1.44
16F96N120B4Y3H1	608.00	96	480	16	731	119.94	12.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88B4Y3H1	533.00	108	480	18	641	88.31	5.25	17.0000	1.56
18F108N106B4Y3H1	600.00	108	480	18	722	105.81	12.25	17.0000	1.56
18F108N120B4Y3H1	684.00	108	480	18	823	119.81	12.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88B4Y3H1	592.00	120	480	20	712	88.19	5.13	19.0000	1.69
20F126N88B4Y3H1	622.00	126	480	21	748	88.19	5.13	19.0000	1.69
20F132N88B4Y3H1	651.00	132	480	22	783	88.19	5.13	19.0000	1.69
20F120N106B4Y3H1	667.00	120	480	20	802	105.69	12.13	19.0000	1.69
20F126N106B4Y3H1	700.00	126	480	21	842	105.69	12.13	19.0000	1.69
20F144N88B4Y3H1	710.00	144	480	24	854	88.19	5.13	19.0000	1.69
20F132N106B4Y3H1	733.00	132	480	22	882	105.69	12.13	19.0000	1.69
20F120N120B4Y3H1	760.00	120	480	20	914	119.69	12.13	19.0000	1.69
20F126N120B4Y3H1	798.00	126	480	21	960	119.69	12.13	19.0000	1.69
20F162N88B4Y3H1	799.00	162	480	27	961	88.19	5.13	19.0000	1.69
20F144N106B4Y3H1	800.00	144	480	24	962	105.69	12.13	19.0000	1.69
20F132N120B4Y3H1	836.00	132	480	22	1,006	119.69	12.13	19.0000	1.69
20F180N88B4Y3H1	888.00	180	480	30	1,068	88.19	5.13	19.0000	1.69
20F162N106B4Y3H1	900.00	162	480	27	1,083	105.69	12.13	19.0000	1.69
20F144N120B4Y3H1	912.00	144	480	24	1,097	119.69	12.13	19.0000	1.69
20F180N106B4Y3H1	1,000.00	180	480	30	1,203	105.69	12.13	19.0000	1.69
20F162N120B4Y3H1	1,026.00	162	480	27	1,234	119.69	12.13	19.0000	1.69
20F180N120B4Y3H1	1,140.00	180	480	30	1,371	119.69	12.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N88B4Y3H1	947.00	192	480	32	1,139	88.00	4.94	23.0000	1.88
24F216N88B4Y3H1	1,066.00	216	480	36	1,282	88.00	4.94	23.0000	1.88
24F192N106B4Y3H1	1,067.00	192	480	32	1,283	105.50	11.94	23.0000	1.88
24F234N88B4Y3H1	1,154.00	234	480	39	1,388	88.00	4.94	23.0000	1.88
24F240N88B4Y3H1	1,184.00	240	480	40	1,424	88.00	4.94	23.0000	1.88
24F216N106B4Y3H1	1,200.00	216	480	36	1,443	105.50	11.94	23.0000	1.88
24F192N120B4Y3H1	1,216.00	192	480	32	1,463	119.50	11.94	23.0000	1.88
24F234N106B4Y3H1	1,300.00	234	480	39	1,564	105.50	11.94	23.0000	1.88
24F240N106B4Y3H1	1,333.00	240	480	40	1,603	105.50	11.94	23.0000	1.88
24F216N120B4Y3H1	1,368.00	216	480	36	1,645	119.50	11.94	23.0000	1.88
24F234N120B4Y3H1	1,482.00	234	480	39	1,783	119.50	11.94	23.0000	1.88
24F240N120B4Y3H1	1,520.00	240	480	40	1,828	119.50	11.94	23.0000	1.88

## 150# Flanged Immersion Heaters - Type IF

15 Watts/Sq. Inch

### 3 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
3F3N10H4Y3H1	1.00	3	480	1	1	10.44	3.88	2.9000	0.94
3F3N18H2Y3H1	2.00	3	240	1	5	17.94	3.88	2.9000	0.94
3F3N18H4Y3H1	2.00	3	480	1	2	17.94	3.88	2.9000	0.94
3F3N20H4Y3H1	2.50	3	480	1	3	19.94	3.88	2.9000	0.94
3F3N20H2Y3H1	2.50	3	240	1	6	19.94	3.88	2.9000	0.94
3F3N25H4Y3H1	3.00	3	480	1	4	25.44	3.88	2.9000	0.94
3F3N25H2Y3H1	3.00	3	240	1	7	25.44	3.88	2.9000	0.94
3F3N33H2Y3H1	4.00	3	240	1	10	32.94	3.88	2.9000	0.94
3F3N33H4Y3H1	4.00	3	480	1	5	32.94	3.88	2.9000	0.94
3F3N40H2Y3H1	5.00	3	240	1	12	40.44	3.88	2.9000	0.94
3F3N40H4Y3H1	5.00	3	480	1	6	40.44	3.88	2.9000	0.94
3F3N48H4Y3H1	6.00	3	480	1	7	47.94	3.88	2.9000	0.94
3F3N52H4Y3H1	6.00	3	480	1	7	51.94	5.88	2.9000	0.94
3F3N61H4Y3H1	8.25	3	480	1	10	61.44	5.88	2.9000	0.94
3F3N68H4Y3H1	8.25	3	480	1	10	68.44	12.88	2.9000	0.94
3F3N80H4Y3H1	11.00	3	480	1	13	78.94	10.88	2.9000	0.94
3F3N88H4Y3H1	12.50	3	480	1	15	88.94	5.88	2.9000	0.94
3F3N95H4Y3H1	12.50	3	480	1	15	95.94	12.88	2.9000	0.94
3F3N120H4Y3H1	15.00	3	480	1	18	120.44	14.38	2.9000	0.94
3F3N140H4Y3H1	17.50	3	480	1	21	140.44	16.88	2.9000	0.94
3F3N160H4Y3H1	20.00	3	480	1	24	160.44	16.88	2.9000	0.94

### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N10H4Y3H1	2.00	6	480	1	2	10.44	3.88	3.8260	0.94
4F6N18B4S3H1	3.75	6	480	1	5	17.94	3.88	3.8260	0.94
4F6N18H2Y3H1	4.00	6	240	1	10	17.94	3.88	3.8260	0.94
4F6N18H4Y3H1	4.00	6	480	1	5	17.94	3.88	3.8260	0.94
4F6N20B4S3H1	4.25	6	480	1	5	19.94	3.88	3.8260	0.94
4F6N20H4Y3H1	5.00	6	480	1	6	19.94	3.88	3.8260	0.94
4F6N20H2Y3H1	5.00	6	240	1	12	19.94	3.88	3.8260	0.94
4F6N25B4S3H1	5.75	6	480	1	7	25.44	3.88	3.8260	0.94
4F6N25B2S3H1	5.75	6	240	1	14	25.44	3.88	3.8260	0.94
4F6N25H2Y3H1	6.00	6	240	1	14	25.44	3.88	3.8260	0.94
4F6N25H4Y3H1	6.00	6	480	1	7	25.44	3.88	3.8260	0.94
4F6N33B2S3H1	7.50	6	240	1	18	32.94	3.88	3.8260	0.94
4F6N33B4S3H1	7.50	6	480	1	9	32.94	3.88	3.8260	0.94
4F6N33H4Y3H1	8.00	6	480	1	10	32.94	3.88	3.8260	0.94
4F6N33H2Y3H1	8.00	6	240	1	19	32.94	3.88	3.8260	0.94
4F6N38B4S3H1	9.00	6	480	1	11	38.44	5.88	3.8260	0.94
4F6N36B4S3H1	9.63	6	480	1	12	35.94	3.88	3.8260	0.94
4F6N40H2Y3H1	10.00	6	240	1	24	40.44	3.88	3.8260	0.94
4F6N40H4Y3H1	10.00	6	480	1	12	40.44	3.88	3.8260	0.94
4F6N43B4S3H1	10.00	6	480	1	12	42.94	5.88	3.8260	0.94
4F6N48H4Y3H1	12.00	6	480	1	14	47.94	3.88	3.8260	0.94
4F6N52H4Y3H1	12.00	6	480	1	14	51.94	5.88	3.8260	0.94
4F6N52B4S3H1	12.50	6	480	1	15	51.94	5.88	3.8260	0.94
4F6N52B2S3H1	12.50	6	240	1	30	51.94	5.88	3.8260	0.94
4F6N57B4S3H1	12.50	6	480	1	15	56.94	10.88	3.8260	0.94
4F6N61B4S3H1	15.00	6	480	1	18	61.44	5.88	3.8260	0.94
4F6N68B4S3H1	15.00	6	480	1	18	68.44	12.88	3.8260	0.94

## 150# Flanged Immersion Heaters - Type IF

4F6N61H4Y3H1	16.50	6	480	1	20	61.44	5.88	3.8260	0.94
4F6N68H4Y3H1	16.50	6	480	1	20	68.44	12.88	3.8260	0.94
4F6N80H4Y3H1	22.00	6	480	1	26	78.94	10.88	3.8260	0.94
4F6N88B4S3H1	22.00	6	480	1	26	88.94	5.88	3.8260	0.94
4F6N88H4Y3H1	25.00	6	480	1	30	88.94	5.88	3.8260	0.94
4F6N95H4Y3H1	25.00	6	480	1	30	95.94	12.88	3.8260	0.94
4F6N106B4S3H1	25.00	6	480	1	30	106.44	12.88	3.8260	0.94
4F6N120B4S3H1	28.50	6	480	1	34	120.44	12.88	3.8260	0.94
4F6N120H4Y3H1	30.00	6	480	1	36	120.44	14.38	3.8260	0.94
4F6N140H4Y3H1	35.00	6	480	1	42	140.44	16.88	3.8260	0.94
4F6N160H4Y3H1	40.00	6	480	1	48	160.44	16.88	3.8260	0.94

### 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N10H4Y3H1	3.00	9	480	1	4	10.44	3.88	4.8125	0.94
5F9N18H4Y3H1	6.00	9	480	1	7	17.94	3.88	4.8125	0.94
5F9N18H2Y3H1	6.00	9	240	1	14	17.94	3.88	4.8125	0.94
5F9N20H2Y3H1	7.50	9	240	1	18	19.94	3.88	4.8125	0.94
5F9N20H4Y3H1	7.50	9	480	1	9	19.94	3.88	4.8125	0.94
5F9N25H2Y3H1	9.00	9	240	1	22	25.44	3.88	4.8125	0.94
5F9N25H4Y3H1	9.00	9	480	1	11	25.44	3.88	4.8125	0.94
5F9N33H2Y3H1	12.00	9	240	1	29	32.94	3.88	4.8125	0.94
5F9N33H4Y3H1	12.00	9	480	1	14	32.94	3.88	4.8125	0.94
5F9N40H2Y3H1	15.00	9	240	1	36	40.44	3.88	4.8125	0.94
5F9N40H4Y3H1	15.00	9	480	1	18	40.44	3.88	4.8125	0.94
5F9N48H4Y3H1	18.00	9	480	1	22	47.94	3.88	4.8125	0.94
5F9N52H4Y3H1	18.00	9	480	1	22	51.94	5.88	4.8125	0.94
5F9N61H4Y3H1	25.00	9	480	1	30	61.44	5.88	4.8125	0.94
5F9N68H4Y3H1	25.00	9	480	1	30	68.44	12.88	4.8125	0.94
5F9N80H4Y3H1	33.25	9	480	1	40	78.94	10.88	4.8125	0.94
5F9N88H4Y3H1	37.50	9	480	1	45	88.94	5.88	4.8125	0.94
5F9N95H4Y3H1	37.50	9	480	1	45	95.94	12.88	4.8125	0.94
5F9N160H4Y3H1	60.00	9	480	3	72	160.44	16.88	4.8125	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10H4Y3H1	4.00	12	480	1	5	10.38	3.81	5.7610	1.00
6F15N10H4Y3H1	5.00	15	480	1	6	10.38	3.81	5.7610	1.00
6F12N18B4S3H1	7.50	12	480	1	9	17.88	3.81	5.7610	1.00
6F12N18H2Y3H1	8.00	12	240	1	19	17.88	3.81	5.7610	1.00
6F12N18H4Y3H1	8.00	12	480	1	10	17.88	3.81	5.7610	1.00
6F12N20B4S3H1	8.63	12	480	1	10	19.88	3.81	5.7610	1.00
6F15N18H4Y3H1	10.00	15	480	1	12	17.88	3.81	5.7610	1.00
6F15N18H2Y3H1	10.00	15	240	1	24	17.88	3.81	5.7610	1.00
6F12N20H2Y3H1	10.00	12	240	1	24	19.88	3.81	5.7610	1.00
6F12N20H4Y3H1	10.00	12	480	1	12	19.88	3.81	5.7610	1.00
6F12N25B4S3H1	11.50	12	480	1	14	25.38	3.81	5.7610	1.00
6F12N25B2S3H1	11.50	12	240	1	28	25.38	3.81	5.7610	1.00
6F12N25H2Y3H1	12.00	12	240	1	29	25.38	3.81	5.7610	1.00
6F12N25H4Y3H1	12.00	12	480	1	14	25.38	3.81	5.7610	1.00
6F15N20H2Y3H1	12.50	15	240	1	30	19.88	3.81	5.7610	1.00
6F15N20H4Y3H1	12.50	15	480	1	15	19.88	3.81	5.7610	1.00
6F15N25H2Y3H1	15.00	15	240	1	36	25.38	3.81	5.7610	1.00
6F15N25H4Y3H1	15.00	15	480	1	18	25.38	3.81	5.7610	1.00

## 150# Flanged Immersion Heaters - Type IF

6F12N33B2S3H1	15.00	12	240	1	36	32.88	3.81	5.7610	1.00
6F12N33B4S3H1	15.00	12	480	1	18	32.88	3.81	5.7610	1.00
6F12N33H2Y3H1	16.00	12	240	1	38	32.88	3.81	5.7610	1.00
6F12N33H4Y3H1	16.00	12	480	1	19	32.88	3.81	5.7610	1.00
6F12N38B4S3H1	18.00	12	480	1	22	38.38	5.81	5.7610	1.00
6F12N36B4S3H1	19.25	12	480	1	23	35.88	3.81	5.7610	1.00
6F15N33H2Y3H1	20.00	15	240	1	48	32.88	3.81	5.7610	1.00
6F15N33H4Y3H1	20.00	15	480	1	24	32.88	3.81	5.7610	1.00
6F12N40H2Y3H1	20.00	12	240	1	48	40.38	3.81	5.7610	1.00
6F12N40H4Y3H1	20.00	12	480	1	24	40.38	3.81	5.7610	1.00
6F12N43B4S3H1	20.00	12	480	1	24	42.88	5.81	5.7610	1.00
6F12N48H4Y3H1	24.00	12	480	1	29	47.88	3.81	5.7610	1.00
6F12N52H4Y3H1	24.00	12	480	1	29	51.88	5.81	5.7610	1.00
6F15N40H4Y3H1	25.00	15	480	1	30	40.38	3.81	5.7610	1.00
6F12N52B4S3H1	25.00	12	480	1	30	51.88	5.81	5.7610	1.00
6F12N52B2S3H1	25.00	12	240	2	60	51.88	5.81	5.7610	1.00
6F12N57B4S3H1	25.00	12	480	1	30	56.88	10.81	5.7610	1.00
6F15N48H4Y3H1	30.00	15	480	1	36	47.88	3.81	5.7610	1.00
6F15N52H4Y3H1	30.00	15	480	1	36	51.88	5.81	5.7610	1.00
6F12N61B4S3H1	30.00	12	480	1	36	61.38	5.81	5.7610	1.00
6F12N68B4S3H1	30.00	12	480	1	36	68.38	12.81	5.7610	1.00
6F12N61H4Y3H1	33.25	12	480	1	40	61.38	5.81	5.7610	1.00
6F12N68H4Y3H1	33.25	12	480	1	40	68.38	12.81	5.7610	1.00
6F12N80H4Y3H1	44.25	12	480	2	53	78.88	10.81	5.7610	1.00
6F12N88B4S3H1	44.25	12	480	2	53	88.88	5.81	5.7610	1.00
6F12N88H4Y3H1	50.00	12	480	2	60	88.88	5.81	5.7610	1.00
6F12N95H4Y3H1	50.00	12	480	2	60	95.88	12.81	5.7610	1.00
6F12N106B4S3H1	50.00	12	480	2	60	106.38	12.81	5.7610	1.00
6F12N120B4S3H1	57.00	12	480	2	69	120.38	12.81	5.7610	1.00
6F12N120H4Y3H1	60.00	12	480	2	72	120.38	14.31	5.7610	1.00
6F12N140H4Y3H1	70.00	12	480	2	84	140.38	16.81	5.7610	1.00
6F12N160H4Y3H1	80.00	12	480	2	96	160.38	16.81	5.7610	1.00
6F15N160H4Y3H1	100.00	15	480	5	120	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
8F18N10H4Y3H1	6.00	18	480	1	7	10.25	3.69	7.6250	1.13
8F24N10H4Y3H1	8.00	24	480	1	10	10.25	3.69	7.6250	1.13
8F18N18B4S3H1	11.25	18	480	1	14	17.75	3.69	7.6250	1.13
8F18N18H4Y3H1	12.00	18	480	1	14	17.75	3.69	7.6250	1.13
8F18N20B4S3H1	13.00	18	480	1	16	19.75	3.69	7.6250	1.13
8F24N18B4S3H1	15.00	24	480	1	18	17.75	3.69	7.6250	1.13
8F18N20H4Y3H1	15.00	18	480	1	18	19.75	3.69	7.6250	1.13
8F24N18H4Y3H1	16.00	24	480	1	19	17.75	3.69	7.6250	1.13
8F24N20B4S3H1	17.25	24	480	1	21	19.75	3.69	7.6250	1.13
8F18N25B4S3H1	17.25	18	480	1	21	25.25	3.69	7.6250	1.13
8F18N25H4Y3H1	18.00	18	480	1	22	25.25	3.69	7.6250	1.13
8F24N20H4Y3H1	20.00	24	480	1	24	19.75	3.69	7.6250	1.13
8F18N33B4S3H1	22.50	18	480	1	27	32.75	3.69	7.6250	1.13
8F24N25B4S3H1	23.00	24	480	1	28	25.25	3.69	7.6250	1.13
8F24N25H4Y3H1	24.00	24	480	1	29	25.25	3.69	7.6250	1.13
8F18N33H4Y3H1	24.00	18	480	1	29	32.75	3.69	7.6250	1.13
8F18N38B4S3H1	27.00	18	480	1	32	38.25	5.69	7.6250	1.13
8F18N36B4S3H1	29.00	18	480	1	35	35.75	3.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N33B4S3H1	30.00	24	480	1	36	32.75	3.69	7.6250	1.13
8F18N40H4Y3H1	30.00	18	480	1	36	40.25	3.69	7.6250	1.13
8F18N43B4S3H1	30.00	18	480	1	36	42.75	5.69	7.6250	1.13
8F24N33H4Y3H1	32.00	24	480	1	38	32.75	3.69	7.6250	1.13
8F24N38B4S3H1	36.00	24	480	1	43	38.25	5.69	7.6250	1.13
8F18N48H4Y3H1	36.00	18	480	1	43	47.75	3.69	7.6250	1.13
8F18N52H4Y3H1	36.00	18	480	1	43	51.75	5.69	7.6250	1.13
8F18N52B4S3H1	37.50	18	480	1	45	51.75	5.69	7.6250	1.13
8F18N57B4S3H1	37.50	18	480	1	45	56.75	10.69	7.6250	1.13
8F24N36B4S3H1	38.50	24	480	1	46	35.75	3.69	7.6250	1.13
8F24N40H4Y3H1	40.00	24	480	1	48	40.25	3.69	7.6250	1.13
8F24N43B4S3H1	40.00	24	480	1	48	42.75	5.69	7.6250	1.13
8F24N48H4Y3H1	48.00	24	480	2	58	47.75	3.69	7.6250	1.13
8F24N52H4Y3H1	48.00	24	480	2	58	51.75	5.69	7.6250	1.13
8F24N52B4S3H1	50.00	24	480	2	60	51.75	5.69	7.6250	1.13
8F24N57B4S3H1	50.00	24	480	2	60	56.75	10.69	7.6250	1.13
8F18N61H4Y3H1	50.00	18	480	2	60	61.25	5.69	7.6250	1.13
8F18N68H4Y3H1	50.00	18	480	2	60	68.25	12.69	7.6250	1.13
8F24N61B4S3H1	60.00	24	480	2	72	61.25	5.69	7.6250	1.13
8F24N68B4S3H1	60.00	24	480	2	72	68.25	12.69	7.6250	1.13
8F24N61H4Y3H1	66.50	24	480	2	80	61.25	5.69	7.6250	1.13
8F24N68H4Y3H1	66.50	24	480	2	80	68.25	12.69	7.6250	1.13
8F18N80H4Y3H1	66.50	18	480	2	80	78.75	10.69	7.6250	1.13
8F18N88B4S3H1	66.50	18	480	3	80	88.75	5.69	7.6250	1.13
8F18N88H4Y3H1	75.00	18	480	2	90	88.75	5.69	7.6250	1.13
8F18N95H4Y3H1	75.00	18	480	2	90	95.75	12.69	7.6250	1.13
8F18N106B4S3H1	75.00	18	480	3	90	106.25	12.69	7.6250	1.13
8F18N120B4S3H1	85.50	18	480	3	103	120.25	12.69	7.6250	1.13
8F24N80H4Y3H1	88.75	24	480	4	107	78.75	10.69	7.6250	1.13
8F24N88B4S3H1	88.75	24	480	4	107	88.75	5.69	7.6250	1.13
8F18N120H4Y3H1	90.00	18	480	3	108	120.25	14.19	7.6250	1.13
8F24N88H4Y3H1	100.00	24	480	4	120	88.75	5.69	7.6250	1.13
8F24N95H4Y3H1	100.00	24	480	4	120	95.75	12.69	7.6250	1.13
8F24N106B4S3H1	100.00	24	480	4	120	106.25	12.69	7.6250	1.13
8F18N140H4Y3H1	105.00	18	480	3	126	140.25	16.69	7.6250	1.13
8F24N120B4S3H1	114.00	24	480	4	137	120.25	12.69	7.6250	1.13
8F24N120H4Y3H1	120.00	24	480	4	144	120.25	14.19	7.6250	1.13
8F18N160H4Y3H1	120.00	18	480	3	144	160.25	16.69	7.6250	1.13
8F24N140H4Y3H1	140.00	24	480	4	168	140.25	16.69	7.6250	1.13
8F24N160H4Y3H1	160.00	24	480	4	192	160.25	16.69	7.6250	1.13

### 10 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
10F30N10H4Y3H1	10.00	30	480	1	12	10.19	3.63	9.7500	1.19
10F36N10H4Y3H1	12.00	36	480	1	14	10.19	3.63	9.7500	1.19
10F30N18B4S3H1	18.75	30	480	1	23	17.69	3.63	9.7500	1.19
10F30N18H4Y3H1	20.00	30	480	1	24	17.69	3.63	9.7500	1.19
10F30N20B4S3H1	21.75	30	480	1	26	19.69	3.63	9.7500	1.19
10F36N18B4S3H1	22.50	36	480	1	27	17.69	3.63	9.7500	1.19
10F36N18H4Y3H1	24.00	36	480	1	29	17.69	3.63	9.7500	1.19
10F30N20H4Y3H1	25.00	30	480	1	30	19.69	3.63	9.7500	1.19
10F36N20B4S3H1	26.00	36	480	1	31	19.69	3.63	9.7500	1.19
10F30N25B4S3H1	28.75	30	480	1	35	25.19	3.63	9.7500	1.19
10F36N20H4Y3H1	30.00	36	480	1	36	19.69	3.63	9.7500	1.19

## 150# Flanged Immersion Heaters - Type IF

10F30N25H4Y3H1	30.00	30	480	1	36	25.19	3.63	9.7500	1.19
10F36N25B4S3H1	34.50	36	480	1	41	25.19	3.63	9.7500	1.19
10F36N25H4Y3H1	36.00	36	480	1	43	25.19	3.63	9.7500	1.19
10F30N33B4S3H1	37.50	30	480	1	45	32.69	3.63	9.7500	1.19
10F30N33H4Y3H1	40.00	30	480	1	48	32.69	3.63	9.7500	1.19
10F36N33B4S3H1	45.00	36	480	2	54	32.69	3.63	9.7500	1.19
10F36N33H4Y3H1	48.00	36	480	2	58	32.69	3.63	9.7500	1.19
10F30N40H4Y3H1	50.00	30	480	2	60	40.19	3.63	9.7500	1.19
10F36N38B4S3H1	54.00	36	480	2	65	38.19	5.63	9.7500	1.19
10F36N36B4S3H1	58.00	36	480	2	70	35.69	3.63	9.7500	1.19
10F36N40H4Y3H1	60.00	36	480	2	72	40.19	3.63	9.7500	1.19
10F36N43B4S3H1	60.00	36	480	2	72	42.69	5.63	9.7500	1.19
10F30N48H4Y3H1	60.00	30	480	2	72	47.69	3.63	9.7500	1.19
10F30N52H4Y3H1	60.00	30	480	2	72	51.69	5.63	9.7500	1.19
10F36N48H4Y3H1	72.00	36	480	2	87	47.69	3.63	9.7500	1.19
10F36N52H4Y3H1	72.00	36	480	2	87	51.69	5.63	9.7500	1.19
10F36N52B4S3H1	75.00	36	480	2	90	51.69	5.63	9.7500	1.19
10F36N57B4S3H1	75.00	36	480	2	90	56.69	10.63	9.7500	1.19
10F36N61B4S3H1	90.00	36	480	3	108	61.19	5.63	9.7500	1.19
10F36N68B4S3H1	90.00	36	480	3	108	68.19	12.63	9.7500	1.19
10F36N61H4Y3H1	100.00	36	480	3	120	61.19	5.63	9.7500	1.19
10F36N68H4Y3H1	100.00	36	480	3	120	68.19	12.63	9.7500	1.19
10F30N80H4Y3H1	111.00	30	480	5	134	78.69	10.63	9.7500	1.19
10F30N88B4S3H1	111.00	30	480	5	134	88.69	5.63	9.7500	1.19
10F30N88H4Y3H1	125.00	30	480	5	150	88.69	5.63	9.7500	1.19
10F30N95H4Y3H1	125.00	30	480	5	150	95.69	12.63	9.7500	1.19
10F30N106B4S3H1	125.00	30	480	5	150	106.19	12.63	9.7500	1.19
10F36N80H4Y3H1	133.00	36	480	4	160	78.69	10.63	9.7500	1.19
10F36N88B4S3H1	133.00	36	480	6	160	88.69	5.63	9.7500	1.19
10F30N120B4S3H1	142.50	30	480	5	171	120.19	12.63	9.7500	1.19
10F36N88H4Y3H1	150.00	36	480	4	180	88.69	5.63	9.7500	1.19
10F36N95H4Y3H1	150.00	36	480	4	180	95.69	12.63	9.7500	1.19
10F36N106B4S3H1	150.00	36	480	6	180	106.19	12.63	9.7500	1.19
10F30N120H4Y3H1	150.00	30	480	5	180	120.19	14.13	9.7500	1.19
10F36N120B4S3H1	171.00	36	480	6	206	120.19	12.63	9.7500	1.19
10F30N140H4Y3H1	175.00	30	480	5	210	140.19	16.63	9.7500	1.19
10F36N120H4Y3H1	180.00	36	480	6	217	120.19	14.13	9.7500	1.19
10F30N160H4Y3H1	200.00	30	480	5	241	160.19	16.63	9.7500	1.19
10F36N140H4Y3H1	210.00	36	480	6	253	140.19	16.63	9.7500	1.19
10F36N160H4Y3H1	240.00	36	480	6	289	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
12F48N40H4Y3H1	80.00	48	480	2	96	40.13	3.56	11.7500	1.25
12F48N43B4S3H1	80.00	48	480	2	96	42.63	5.56	11.7500	1.25
12F48N48H4Y3H1	96.00	48	480	4	115	47.63	3.56	11.7500	1.25
12F48N52H4Y3H1	96.00	48	480	4	115	51.63	5.56	11.7500	1.25
12F48N52B4S3H1	100.00	48	480	4	120	51.63	5.56	11.7500	1.25
12F48N57B4S3H1	100.00	48	480	4	120	56.63	10.56	11.7500	1.25
12F48N61B4S3H1	120.00	48	480	4	144	61.13	5.56	11.7500	1.25
12F48N68B4S3H1	120.00	48	480	4	144	68.13	12.56	11.7500	1.25
12F48N61H4Y3H1	133.00	48	480	4	160	61.13	5.56	11.7500	1.25
12F48N68H4Y3H1	133.00	48	480	4	160	68.13	12.56	11.7500	1.25
12F48N80H4Y3H1	177.50	48	480	8	214	78.63	10.56	11.7500	1.25

## 150# Flanged Immersion Heaters - Type IF

12F48N88B4S3H1	177.50	48	480	8	214	88.63	5.56	11.7500	1.25
12F54N80H4Y3H1	199.50	54	480	6	240	78.63	10.56	11.7500	1.25
12F54N88B4S3H1	199.50	54	480	9	240	88.63	5.56	11.7500	1.25
12F48N88H4Y3H1	200.00	48	480	8	241	88.63	5.56	11.7500	1.25
12F48N95H4Y3H1	200.00	48	480	8	241	95.63	12.56	11.7500	1.25
12F48N106B4S3H1	200.00	48	480	8	241	106.13	12.56	11.7500	1.25
12F54N88H4Y3H1	225.00	54	480	6	271	88.63	5.56	11.7500	1.25
12F54N95H4Y3H1	225.00	54	480	6	271	95.63	12.56	11.7500	1.25
12F54N106B4S3H1	225.00	54	480	9	271	106.13	12.56	11.7500	1.25
12F48N120B4S3H1	228.00	48	480	8	274	120.13	12.56	11.7500	1.25
12F48N120H4Y3H1	240.00	48	480	8	289	120.13	14.06	11.7500	1.25
12F54N120B4S3H1	256.50	54	480	9	309	120.13	12.56	11.7500	1.25
12F54N120H4Y3H1	270.00	54	480	9	325	120.13	14.06	11.7500	1.25
12F48N140H4Y3H1	280.00	48	480	8	337	140.13	16.56	11.7500	1.25
12F54N140H4Y3H1	315.00	54	480	9	379	140.13	16.56	11.7500	1.25
12F48N160H4Y3H1	320.00	48	480	8	385	160.13	16.56	11.7500	1.25
12F54N160H4Y3H1	360.00	54	480	9	433	160.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N80H4Y3H1	199.50	54	480	6	240	78.50	10.44	13.0000	1.38
14F54N88B4S3H1	199.50	54	480	9	240	88.50	5.44	13.0000	1.38
14F60N80H4Y3H1	222.00	60	480	10	267	78.50	10.44	13.0000	1.38
14F60N88B4S3H1	222.00	60	480	10	267	88.50	5.44	13.0000	1.38
14F54N88H4Y3H1	225.00	54	480	6	271	88.50	5.44	13.0000	1.38
14F54N95H4Y3H1	225.00	54	480	6	271	95.50	12.44	13.0000	1.38
14F54N106B4S3H1	225.00	54	480	9	271	106.00	12.44	13.0000	1.38
14F60N88H4Y3H1	250.00	60	480	10	301	88.50	5.44	13.0000	1.38
14F60N95H4Y3H1	250.00	60	480	10	301	95.50	12.44	13.0000	1.38
14F60N106B4S3H1	250.00	60	480	10	301	106.00	12.44	13.0000	1.38
14F54N120B4S3H1	256.50	54	480	9	309	120.00	12.44	13.0000	1.38
14F72N80H4Y3H1	266.00	72	480	8	320	78.50	10.44	13.0000	1.38
14F72N88B4S3H1	266.00	72	480	12	320	88.50	5.44	13.0000	1.38
14F54N120H4Y3H1	270.00	54	480	9	325	120.00	13.94	13.0000	1.38
14F60N120B4S3H1	285.00	60	480	10	343	120.00	12.44	13.0000	1.38
14F72N88H4Y3H1	300.00	72	480	8	361	88.50	5.44	13.0000	1.38
14F72N95H4Y3H1	300.00	72	480	8	361	95.50	12.44	13.0000	1.38
14F72N106B4S3H1	300.00	72	480	12	361	106.00	12.44	13.0000	1.38
14F60N120H4Y3H1	300.00	60	480	10	361	120.00	13.94	13.0000	1.38
14F54N140H4Y3H1	315.00	54	480	9	379	140.00	16.44	13.0000	1.38
14F72N120B4S3H1	342.00	72	480	12	411	120.00	12.44	13.0000	1.38
14F60N140H4Y3H1	350.00	60	480	10	421	140.00	16.44	13.0000	1.38
14F72N120H4Y3H1	360.00	72	480	12	433	120.00	13.94	13.0000	1.38
14F54N160H4Y3H1	360.00	54	480	9	433	160.00	16.44	13.0000	1.38
14F60N160H4Y3H1	400.00	60	480	10	481	160.00	16.44	13.0000	1.38
14F72N140H4Y3H1	420.00	72	480	12	505	140.00	16.44	13.0000	1.38
14F72N160H4Y3H1	480.00	72	480	12	577	160.00	16.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N80H4Y3H1	310.50	84	480	14	373	78.44	10.38	15.0000	1.44
16F84N88B4S3H1	310.50	84	480	14	373	88.44	5.38	15.0000	1.44
16F90N80H4Y3H1	333.00	90	480	10	401	78.44	10.38	15.0000	1.44
16F90N88B4S3H1	333.00	90	480	15	401	88.44	5.38	15.0000	1.44



## 150# Flanged Immersion Heaters - Type IF

16F84N88H4Y3H1	350.00	84	480	14	421	88.44	5.38	15.0000	1.44
16F84N95H4Y3H1	350.00	84	480	14	421	95.44	12.38	15.0000	1.44
16F84N106B4S3H1	350.00	84	480	14	421	105.94	12.38	15.0000	1.44
16F96N80H4Y3H1	355.00	96	480	16	427	78.44	10.38	15.0000	1.44
16F96N88B4S3H1	355.00	96	480	16	427	88.44	5.38	15.0000	1.44
16F90N88H4Y3H1	375.00	90	480	10	451	88.44	5.38	15.0000	1.44
16F90N95H4Y3H1	375.00	90	480	10	451	95.44	12.38	15.0000	1.44
16F90N106B4S3H1	375.00	90	480	15	451	105.94	12.38	15.0000	1.44
16F84N120B4S3H1	399.00	84	480	14	480	119.94	12.38	15.0000	1.44
16F96N88H4Y3H1	400.00	96	480	16	481	88.44	5.38	15.0000	1.44
16F96N95H4Y3H1	400.00	96	480	16	481	95.44	12.38	15.0000	1.44
16F96N106B4S3H1	400.00	96	480	16	481	105.94	12.38	15.0000	1.44
16F84N120H4Y3H1	420.00	84	480	14	505	119.94	13.88	15.0000	1.44
16F90N120B4S3H1	427.50	90	480	15	514	119.94	12.38	15.0000	1.44
16F90N120H4Y3H1	450.00	90	480	15	541	119.94	13.88	15.0000	1.44
16F96N120B4S3H1	456.00	96	480	16	548	119.94	12.38	15.0000	1.44
16F96N120H4Y3H1	480.00	96	480	16	577	119.94	13.88	15.0000	1.44
16F84N140H4Y3H1	490.00	84	480	14	589	139.94	16.38	15.0000	1.44
16F90N140H4Y3H1	525.00	90	480	15	631	139.94	16.38	15.0000	1.44
16F96N140H4Y3H1	560.00	96	480	16	674	139.94	16.38	15.0000	1.44
16F84N160H4Y3H1	560.00	84	480	14	674	159.94	16.38	15.0000	1.44
16F90N160H4Y3H1	600.00	90	480	15	722	159.94	16.38	15.0000	1.44
16F96N160H4Y3H1	640.00	96	480	16	770	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88B4S3H1	399.50	108	480	18	481	88.31	5.25	17.0000	1.56
18F108N88H4Y3H1	450.00	108	480	12	541	88.31	5.25	17.0000	1.56
18F108N95H4Y3H1	450.00	108	480	12	541	95.31	12.25	17.0000	1.56
18F108N106B4S3H1	450.00	108	480	18	541	105.81	12.25	17.0000	1.56
18F108N120B4S3H1	513.00	108	480	18	617	119.81	12.25	17.0000	1.56
18F108N120H4Y3H1	540.00	108	480	18	650	119.81	13.75	17.0000	1.56
18F108N140H4Y3H1	630.00	108	480	18	758	139.81	16.25	17.0000	1.56
18F108N160H4Y3H1	720.00	108	480	18	866	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88B4S3H1	444.00	120	480	20	534	88.19	5.13	19.0000	1.69
20F126N88B4S3H1	466.00	126	480	21	561	88.19	5.13	19.0000	1.69
20F132N88B4S3H1	488.00	132	480	22	587	88.19	5.13	19.0000	1.69
20F120N88H4Y3H1	500.00	120	480	20	601	88.19	5.13	19.0000	1.69
20F120N95H4Y3H1	500.00	120	480	20	601	95.19	12.13	19.0000	1.69
20F120N106B4S3H1	500.00	120	480	20	601	105.69	12.13	19.0000	1.69
20F126N88H4Y3H1	525.00	126	480	14	631	88.19	5.13	19.0000	1.69
20F126N95H4Y3H1	525.00	126	480	14	631	95.19	12.13	19.0000	1.69
20F126N106B4S3H1	525.00	126	480	21	631	105.69	12.13	19.0000	1.69
20F144N88B4S3H1	533.00	144	480	24	641	88.19	5.13	19.0000	1.69
20F132N88H4Y3H1	550.00	132	480	22	662	88.19	5.13	19.0000	1.69
20F132N95H4Y3H1	550.00	132	480	22	662	95.19	12.13	19.0000	1.69
20F132N106B4S3H1	550.00	132	480	22	662	105.69	12.13	19.0000	1.69
20F120N120B4S3H1	570.00	120	480	20	686	119.69	12.13	19.0000	1.69
20F162N88B4S3H1	599.00	162	480	27	721	88.19	5.13	19.0000	1.69
20F126N120B4S3H1	599.00	126	480	21	721	119.69	12.13	19.0000	1.69
20F144N88H4Y3H1	600.00	144	480	24	722	88.19	5.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F144N95H4Y3H1	600.00	144	480	24	722	95.19	12.13	19.0000	1.69
20F144N106B4S3H1	600.00	144	480	24	722	105.69	12.13	19.0000	1.69
20F120N120H4Y3H1	600.00	120	480	20	722	119.69	13.63	19.0000	1.69
20F132N120B4S3H1	627.00	132	480	22	754	119.69	12.13	19.0000	1.69
20F126N120H4Y3H1	630.00	126	480	21	758	119.69	13.63	19.0000	1.69
20F132N120H4Y3H1	660.00	132	480	22	794	119.69	13.63	19.0000	1.69
20F180N88B4S3H1	666.00	180	480	20	801	88.19	5.13	19.0000	1.69
20F162N88H4Y3H1	675.00	162	480	18	812	88.19	5.13	19.0000	1.69
20F162N95H4Y3H1	675.00	162	480	18	812	95.19	12.13	19.0000	1.69
20F162N106B4S3H1	675.00	162	480	27	812	105.69	12.13	19.0000	1.69
20F144N120B4S3H1	684.00	144	480	24	823	119.69	12.13	19.0000	1.69
20F120N140H4Y3H1	700.00	120	480	20	842	139.69	16.13	19.0000	1.69
20F144N120H4Y3H1	720.00	144	480	24	866	119.69	13.63	19.0000	1.69
20F126N140H4Y3H1	735.00	126	480	21	884	139.69	16.13	19.0000	1.69
20F180N88H4Y3H1	750.00	180	480	20	902	88.19	5.13	19.0000	1.69
20F180N95H4Y3H1	750.00	180	480	20	902	95.19	12.13	19.0000	1.69
20F180N106B4S3H1	750.00	180	480	20	902	105.69	12.13	19.0000	1.69
20F162N120B4S3H1	770.00	162	480	27	926	119.69	12.13	19.0000	1.69
20F132N140H4Y3H1	770.00	132	480	22	926	139.69	16.13	19.0000	1.69
20F120N160H4Y3H1	800.00	120	480	20	962	159.69	16.13	19.0000	1.69
20F162N120H4Y3H1	810.00	162	480	27	974	119.69	13.63	19.0000	1.69
20F144N140H4Y3H1	840.00	144	480	24	1,010	139.69	16.13	19.0000	1.69
20F126N160H4Y3H1	840.00	126	480	21	1,010	159.69	16.13	19.0000	1.69
20F180N120B4S3H1	855.00	180	480	30	1,028	119.69	12.13	19.0000	1.69
20F132N160H4Y3H1	880.00	132	480	22	1,059	159.69	16.13	19.0000	1.69
20F180N120H4Y3H1	900.00	180	480	30	1,083	119.69	13.63	19.0000	1.69
20F162N140H4Y3H1	945.00	162	480	27	1,137	139.69	16.13	19.0000	1.69
20F144N160H4Y3H1	960.00	144	480	24	1,155	159.69	16.13	19.0000	1.69
20F180N140H4Y3H1	1,050.00	180	480	30	1,263	139.69	16.13	19.0000	1.69
20F162N160H4Y3H1	1,080.00	162	480	27	1,299	159.69	16.13	19.0000	1.69
20F180N160H4Y3H1	1,200.00	180	480	30	1,443	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N88B4S3H1	710.00	192	480	32	854	88.00	4.94	23.0000	1.88
24F216N88B4S3H1	799.00	216	480	36	961	88.00	4.94	23.0000	1.88
24F192N88H4Y3H1	800.00	192	480	32	962	88.00	4.94	23.0000	1.88
24F192N95H4Y3H1	800.00	192	480	32	962	95.00	11.94	23.0000	1.88
24F192N106B4S3H1	800.00	192	480	32	962	105.50	11.94	23.0000	1.88
24F234N88B4S3H1	866.00	234	480	39	1,042	88.00	4.94	23.0000	1.88
24F240N88B4S3H1	888.00	240	480	40	1,068	88.00	4.94	23.0000	1.88
24F216N88H4Y3H1	900.00	216	480	24	1,083	88.00	4.94	23.0000	1.88
24F216N95H4Y3H1	900.00	216	480	24	1,083	95.00	11.94	23.0000	1.88
24F216N106B4S3H1	900.00	216	480	36	1,083	105.50	11.94	23.0000	1.88
24F192N120B4S3H1	912.00	192	480	32	1,097	119.50	11.94	23.0000	1.88
24F192N120H4Y3H1	960.00	192	480	32	1,155	119.50	13.44	23.0000	1.88
24F234N88H4Y3H1	975.00	234	480	26	1,173	88.00	4.94	23.0000	1.88
24F234N95H4Y3H1	975.00	234	480	26	1,173	95.00	11.94	23.0000	1.88
24F234N106B4S3H1	975.00	234	480	39	1,173	105.50	11.94	23.0000	1.88
24F240N88H4Y3H1	1,000.00	240	480	40	1,203	88.00	4.94	23.0000	1.88
24F240N95H4Y3H1	1,000.00	240	480	40	1,203	95.00	11.94	23.0000	1.88
24F240N106B4S3H1	1,000.00	240	480	40	1,203	105.50	11.94	23.0000	1.88
24F216N120B4S3H1	1,026.00	216	480	36	1,234	119.50	11.94	23.0000	1.88
24F216N120H4Y3H1	1,080.00	216	480	36	1,299	119.50	13.44	23.0000	1.88

## 150# Flanged Immersion Heaters - Type IF

24F234N120B4S3H1	1,112.00	234	480	39	1,338	119.50	11.94	23.0000	1.88
24F192N140H4Y3H1	1,120.00	192	480	32	1,347	139.50	15.94	23.0000	1.88
24F240N120B4S3H1	1,140.00	240	480	40	1,371	119.50	11.94	23.0000	1.88
24F234N120H4Y3H1	1,170.00	234	480	39	1,407	119.50	13.44	23.0000	1.88
24F240N120H4Y3H1	1,200.00	240	480	40	1,443	119.50	13.44	23.0000	1.88
24F216N140H4Y3H1	1,260.00	216	480	36	1,516	139.50	15.94	23.0000	1.88
24F192N160H4Y3H1	1,280.00	192	480	32	1,540	159.50	15.94	23.0000	1.88
24F234N140H4Y3H1	1,365.00	234	480	39	1,642	139.50	15.94	23.0000	1.88
24F240N140H4Y3H1	1,400.00	240	480	40	1,684	139.50	15.94	23.0000	1.88
24F216N160H4Y3H1	1,440.00	216	480	36	1,732	159.50	15.94	23.0000	1.88
24F234N160H4Y3H1	1,560.00	234	480	39	1,876	159.50	15.94	23.0000	1.88
24F240N160H4Y3H1	1,600.00	240	480	40	1,925	159.50	15.94	23.0000	1.88

### 12 Watts/Sq. Inch

#### 3 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
3F3N48F4Y3H1	3.25	3	480	1	4	48.44	16.88	2.9000	0.94
3F3N61F4Y3H1	5.00	3	480	1	6	61.44	13.88	2.9000	0.94
3F3N77F4Y3H1	6.63	3	480	1	8	77.44	13.88	2.9000	0.94
3F3N84F4Y3H1	6.63	3	240	1	16	84.44	16.88	2.9000	0.94
3F3N93F4Y3H1	8.25	3	480	1	10	93.44	13.88	2.9000	0.94
3F3N111F4Y3H1	10.00	3	240	1	24	-1.06	16.88	2.9000	0.94
3F3N120F4Y3H1	10.00	3	480	1	12	111.44	16.88	2.9000	0.94
3F3N144F4Y3H1	13.25	3	480	1	16	144.44	16.88	2.9000	0.94

#### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N10H4S3H1	1.50	6	480	1	2	10.44	3.88	3.8260	0.94
4F6N18H4S3H1	3.00	6	480	1	4	17.94	3.88	3.8260	0.94
4F6N18H2S3H1	3.00	6	240	1	7	17.94	3.88	3.8260	0.94
4F6N20H4S3H1	3.75	6	480	1	5	19.94	3.88	3.8260	0.94
4F6N20H2S3H1	3.75	6	240	1	9	19.94	3.88	3.8260	0.94
4F6N25H2S3H1	4.50	6	240	1	11	25.44	3.88	3.8260	0.94
4F6N25H4S3H1	4.50	6	480	1	5	25.44	3.88	3.8260	0.94
4F6N33H2S3H1	6.00	6	240	1	14	32.94	3.88	3.8260	0.94
4F6N33H4S3H1	6.00	6	480	1	7	32.94	3.88	3.8260	0.94
4F6N48F4Y3H1	6.63	6	480	1	8	48.44	16.88	3.8260	0.94
4F6N40H4S3H1	7.50	6	480	1	9	40.44	3.88	3.8260	0.94
4F6N40H2S3H1	7.50	6	240	1	18	40.44	3.88	3.8260	0.94
4F6N48H4S3H1	9.00	6	480	1	11	47.94	3.88	3.8260	0.94
4F6N52H4S3H1	9.00	6	480	1	11	51.94	5.88	3.8260	0.94
4F6N61F4Y3H1	10.00	6	480	1	12	61.44	13.88	3.8260	0.94
4F6N61H4S3H1	12.50	6	480	1	15	61.44	5.88	3.8260	0.94
4F6N68H4S3H1	12.50	6	480	1	15	68.44	12.88	3.8260	0.94
4F6N77F4Y3H1	13.25	6	480	1	16	77.44	13.88	3.8260	0.94
4F6N84F4Y3H1	13.25	6	240	1	32	84.44	16.88	3.8260	0.94
4F6N80H4S3H1	16.50	6	480	1	20	78.94	10.88	3.8260	0.94
4F6N93F4Y3H1	16.50	6	480	1	20	93.44	13.88	3.8260	0.94
4F6N88H4S3H1	18.75	6	480	1	23	88.94	5.88	3.8260	0.94
4F6N95H4S3H1	18.75	6	480	1	23	95.94	12.88	3.8260	0.94
4F6N111F4Y3H1	20.00	6	240	1	48	-1.06	16.88	3.8260	0.94
4F6N120F4Y3H1	20.00	6	480	1	24	111.44	16.88	3.8260	0.94
4F6N120H4S3H1	22.50	6	480	1	27	120.44	14.38	3.8260	0.94
4F6N140H4S3H1	26.25	6	480	1	32	140.44	16.88	3.8260	0.94

## 150# Flanged Immersion Heaters - Type IF

4F6N144F4Y3H1	26.50	6	480	1	32	144.44	16.88	3.8260	0.94
4F6N160H4S3H1	30.00	6	480	1	36	160.44	16.88	3.8260	0.94

### 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N48F4Y3H1	9.88	9	480	1	12	48.44	16.88	4.8125	0.94
5F9N61F4Y3H1	15.00	9	480	1	18	61.44	13.88	4.8125	0.94
5F9N77F4Y3H1	19.75	9	480	1	24	77.44	13.88	4.8125	0.94
5F9N84F4Y3H1	20.00	9	240	1	48	84.44	16.88	4.8125	0.94
5F9N93F4Y3H1	24.75	9	480	1	30	93.44	13.88	4.8125	0.94
5F9N120F4Y3H1	30.00	9	480	1	36	111.44	16.88	4.8125	0.94
5F9N144F4Y3H1	40.00	9	480	1	48	144.44	16.88	4.8125	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10H4S3H1	3.00	12	480	1	4	10.38	3.81	5.7610	1.00
6F12N18H4S3H1	6.00	12	480	1	7	17.88	3.81	5.7610	1.00
6F12N18H2S3H1	6.00	12	240	1	14	17.88	3.81	5.7610	1.00
6F12N20H4S3H1	7.50	12	480	1	9	19.88	3.81	5.7610	1.00
6F12N20H2S3H1	7.50	12	240	1	18	19.88	3.81	5.7610	1.00
6F12N25H4S3H1	9.00	12	480	1	11	25.38	3.81	5.7610	1.00
6F12N25H2S3H1	9.00	12	240	1	22	25.38	3.81	5.7610	1.00
6F12N33H4S3H1	12.00	12	480	1	14	32.88	3.81	5.7610	1.00
6F12N33H2S3H1	12.00	12	240	1	29	32.88	3.81	5.7610	1.00
6F12N48F4Y3H1	13.25	12	480	1	16	48.38	16.81	5.7610	1.00
6F12N40H4S3H1	15.00	12	480	1	18	40.38	3.81	5.7610	1.00
6F12N40H2S3H1	15.00	12	240	1	36	40.38	3.81	5.7610	1.00
6F15N48F4Y3H1	16.50	15	480	1	20	48.38	16.81	5.7610	1.00
6F12N48H4S3H1	18.00	12	480	1	22	47.88	3.81	5.7610	1.00
6F12N52H4S3H1	18.00	12	480	1	22	51.88	5.81	5.7610	1.00
6F12N61F4Y3H1	20.00	12	480	1	24	61.38	13.81	5.7610	1.00
6F12N61H4S3H1	25.00	12	480	1	30	61.38	5.81	5.7610	1.00
6F15N61F4Y3H1	25.00	15	480	1	30	61.38	13.81	5.7610	1.00
6F12N68H4S3H1	25.00	12	480	1	30	68.38	12.81	5.7610	1.00
6F12N77F4Y3H1	26.50	12	480	1	32	77.38	13.81	5.7610	1.00
6F12N84F4Y3H1	26.50	12	240	2	64	84.38	16.81	5.7610	1.00
6F15N77F4Y3H1	33.25	15	480	1	40	77.38	13.81	5.7610	1.00
6F12N80H4S3H1	33.25	12	480	1	40	78.88	10.81	5.7610	1.00
6F12N93F4Y3H1	33.25	12	480	1	40	93.38	13.81	5.7610	1.00
6F12N88H4S3H1	37.50	12	480	1	45	88.88	5.81	5.7610	1.00
6F12N95H4S3H1	37.50	12	480	1	45	95.88	12.81	5.7610	1.00
6F12N111F4Y3H1	40.00	12	240	2	96	-1.13	16.81	5.7610	1.00
6F12N120F4Y3H1	40.00	12	480	1	48	111.38	16.81	5.7610	1.00
6F12N120H4S3H1	45.00	12	480	2	54	120.38	14.31	5.7610	1.00
6F12N140H4S3H1	52.50	12	480	2	63	140.38	16.81	5.7610	1.00
6F12N144F4Y3H1	53.25	12	480	2	64	144.38	16.81	5.7610	1.00
6F12N160H4S3H1	60.00	12	480	2	72	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N10H4S3H1	4.50	18	480	1	5	10.25	3.69	7.6250	1.13
8F24N10H4S3H1	6.00	24	480	1	7	10.25	3.69	7.6250	1.13
8F18N18H4S3H1	9.00	18	480	1	11	17.75	3.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N20H4S3H1	11.25	18	480	1	14	19.75	3.69	7.6250	1.13
8F24N18H4S3H1	12.00	24	480	1	14	17.75	3.69	7.6250	1.13
8F18N25H4S3H1	13.50	18	480	1	16	25.25	3.69	7.6250	1.13
8F24N20H4S3H1	15.00	24	480	1	18	19.75	3.69	7.6250	1.13
8F24N25H4S3H1	18.00	24	480	1	22	25.25	3.69	7.6250	1.13
8F18N33H4S3H1	18.00	18	480	1	22	32.75	3.69	7.6250	1.13
8F18N48F4Y3H1	20.00	18	480	1	24	48.25	16.69	7.6250	1.13
8F18N40H4S3H1	22.50	18	480	1	27	40.25	3.69	7.6250	1.13
8F24N33H4S3H1	24.00	24	480	1	29	32.75	3.69	7.6250	1.13
8F24N48F4Y3H1	26.50	24	480	1	32	48.25	16.69	7.6250	1.13
8F18N48H4S3H1	27.00	18	480	1	32	47.75	3.69	7.6250	1.13
8F18N52H4S3H1	27.00	18	480	1	32	51.75	5.69	7.6250	1.13
8F24N40H4S3H1	30.00	24	480	1	36	40.25	3.69	7.6250	1.13
8F18N61F4Y3H1	30.00	18	480	1	36	61.25	13.69	7.6250	1.13
8F24N48H4S3H1	36.00	24	480	1	43	47.75	3.69	7.6250	1.13
8F24N52H4S3H1	36.00	24	480	1	43	51.75	5.69	7.6250	1.13
8F18N61H4S3H1	37.50	18	480	1	45	61.25	5.69	7.6250	1.13
8F18N68H4S3H1	37.50	18	480	1	45	68.25	12.69	7.6250	1.13
8F18N77F4Y3H1	39.75	18	480	1	48	77.25	13.69	7.6250	1.13
8F24N61F4Y3H1	40.00	24	480	1	48	61.25	13.69	7.6250	1.13
8F18N93F4Y3H1	49.75	18	480	2	60	93.25	13.69	7.6250	1.13
8F24N61H4S3H1	50.00	24	480	2	60	61.25	5.69	7.6250	1.13
8F24N68H4S3H1	50.00	24	480	2	60	68.25	12.69	7.6250	1.13
8F24N77F4Y3H1	53.25	24	480	2	64	77.25	13.69	7.6250	1.13
8F18N120F4Y3H1	60.00	18	480	2	72	111.25	16.69	7.6250	1.13
8F24N80H4S3H1	66.50	24	480	2	80	78.75	10.69	7.6250	1.13
8F24N93F4Y3H1	66.50	24	480	2	80	93.25	13.69	7.6250	1.13
8F18N120H4S3H1	67.50	18	480	3	81	120.25	14.19	7.6250	1.13
8F24N88H4S3H1	75.00	24	480	2	90	88.75	5.69	7.6250	1.13
8F24N95H4S3H1	75.00	24	480	2	90	95.75	12.69	7.6250	1.13
8F18N140H4S3H1	78.75	18	480	3	95	140.25	16.69	7.6250	1.13
8F18N144F4Y3H1	79.75	18	480	2	96	144.25	16.69	7.6250	1.13
8F24N120F4Y3H1	80.00	24	480	2	96	111.25	16.69	7.6250	1.13
8F24N120H4S3H1	90.00	24	480	4	108	120.25	14.19	7.6250	1.13
8F18N160H4S3H1	90.00	18	480	3	108	160.25	16.69	7.6250	1.13
8F24N140H4S3H1	105.00	24	480	4	126	140.25	16.69	7.6250	1.13
8F24N144F4Y3H1	106.50	24	480	4	128	144.25	16.69	7.6250	1.13
8F24N160H4S3H1	120.00	24	480	4	144	160.25	16.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N10H4S3H1	7.50	30	480	1	9	10.19	3.63	9.7500	1.19
10F36N10H4S3H1	9.00	36	480	1	11	10.19	3.63	9.7500	1.19
10F30N18H4S3H1	15.00	30	480	1	18	17.69	3.63	9.7500	1.19
10F36N18H4S3H1	18.00	36	480	1	22	17.69	3.63	9.7500	1.19
10F30N20H4S3H1	18.75	30	480	1	23	19.69	3.63	9.7500	1.19
10F36N20H4S3H1	22.50	36	480	1	27	19.69	3.63	9.7500	1.19
10F30N25H4S3H1	22.50	30	480	1	27	25.19	3.63	9.7500	1.19
10F36N25H4S3H1	27.00	36	480	1	32	25.19	3.63	9.7500	1.19
10F30N33H4S3H1	30.00	30	480	1	36	32.69	3.63	9.7500	1.19
10F30N48F4Y3H1	33.25	30	480	1	40	48.19	16.63	9.7500	1.19
10F36N33H4S3H1	36.00	36	480	1	43	32.69	3.63	9.7500	1.19
10F30N40H4S3H1	37.50	30	480	1	45	40.19	3.63	9.7500	1.19
10F36N48F4Y3H1	40.00	36	480	1	48	48.19	16.63	9.7500	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N40H4S3H1	45.00	36	480	2	54	40.19	3.63	9.7500	1.19
10F30N61F4Y3H1	50.00	30	480	2	60	61.19	13.63	9.7500	1.19
10F36N48H4S3H1	54.00	36	480	2	65	47.69	3.63	9.7500	1.19
10F36N52H4S3H1	54.00	36	480	2	65	51.69	5.63	9.7500	1.19
10F36N61F4Y3H1	60.00	36	480	2	72	61.19	13.63	9.7500	1.19
10F30N77F4Y3H1	66.50	30	480	2	80	77.19	13.63	9.7500	1.19
10F36N61H4S3H1	75.00	36	480	2	90	61.19	5.63	9.7500	1.19
10F36N68H4S3H1	75.00	36	480	2	90	68.19	12.63	9.7500	1.19
10F36N77F4Y3H1	79.75	36	480	2	96	77.19	13.63	9.7500	1.19
10F36N80H4S3H1	99.75	36	480	3	120	78.69	10.63	9.7500	1.19
10F36N93F4Y3H1	99.75	36	480	3	120	93.19	13.63	9.7500	1.19
10F30N120F4Y3H1	100.00	30	480	5	120	111.19	16.63	9.7500	1.19
10F36N88H4S3H1	112.50	36	480	3	135	88.69	5.63	9.7500	1.19
10F36N95H4S3H1	112.50	36	480	3	135	95.69	12.63	9.7500	1.19
10F30N120H4S3H1	112.50	30	480	5	135	120.19	14.13	9.7500	1.19
10F36N120F4Y3H1	120.00	36	480	3	144	111.19	16.63	9.7500	1.19
10F30N140H4S3H1	131.00	30	480	5	158	140.19	16.63	9.7500	1.19
10F30N144F4Y3H1	133.00	30	480	5	160	144.19	16.63	9.7500	1.19
10F36N120H4S3H1	135.00	36	480	6	162	120.19	14.13	9.7500	1.19
10F30N160H4S3H1	150.00	30	480	5	180	160.19	16.63	9.7500	1.19
10F36N140H4S3H1	157.50	36	480	6	189	140.19	16.63	9.7500	1.19
10F36N144F4Y3H1	160.00	36	480	4	192	144.19	16.63	9.7500	1.19
10F36N160H4S3H1	180.00	36	480	6	217	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N48F4Y3H1	53.25	48	480	2	64	48.13	16.56	11.7500	1.25
12F48N40H4S3H1	60.00	48	480	2	72	40.13	3.56	11.7500	1.25
12F48N48H4S3H1	72.00	48	480	2	87	47.63	3.56	11.7500	1.25
12F48N52H4S3H1	72.00	48	480	2	87	51.63	5.56	11.7500	1.25
12F48N61F4Y3H1	80.00	48	480	2	96	61.13	13.56	11.7500	1.25
12F48N61H4S3H1	100.00	48	480	4	120	61.13	5.56	11.7500	1.25
12F48N68H4S3H1	100.00	48	480	4	120	68.13	12.56	11.7500	1.25
12F48N77F4Y3H1	106.50	48	480	4	128	77.13	13.56	11.7500	1.25
12F48N80H4S3H1	133.00	48	480	4	160	78.63	10.56	11.7500	1.25
12F48N93F4Y3H1	133.00	48	480	4	160	93.13	13.56	11.7500	1.25
12F54N93F4Y3H1	149.50	54	480	6	180	93.13	13.56	11.7500	1.25
12F48N88H4S3H1	150.00	48	480	4	180	88.63	5.56	11.7500	1.25
12F48N95H4S3H1	150.00	48	480	4	180	95.63	12.56	11.7500	1.25
12F48N120F4Y3H1	160.00	48	480	4	192	111.13	16.56	11.7500	1.25
12F54N120F4Y3H1	180.00	54	480	6	217	111.13	16.56	11.7500	1.25
12F48N120H4S3H1	180.00	48	480	8	217	120.13	14.06	11.7500	1.25
12F54N120H4S3H1	202.50	54	480	9	244	120.13	14.06	11.7500	1.25
12F48N140H4S3H1	210.00	48	480	8	253	140.13	16.56	11.7500	1.25
12F48N144F4Y3H1	213.00	48	480	8	256	144.13	16.56	11.7500	1.25
12F54N140H4S3H1	236.00	54	480	9	284	140.13	16.56	11.7500	1.25
12F54N144F4Y3H1	239.50	54	480	6	288	144.13	16.56	11.7500	1.25
12F48N160H4S3H1	240.00	48	480	8	289	160.13	16.56	11.7500	1.25
12F54N160H4S3H1	270.00	54	480	9	325	160.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N93F4Y3H1	149.50	54	480	6	180	93.00	13.44	13.0000	1.38
14F60N80H4S3H1	166.50	60	480	5	200	78.50	10.44	13.0000	1.38



## 150# Flanged Immersion Heaters - Type IF

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N93F4Y3H1	299.50	108	480	9	360	92.81	13.25	17.0000	1.56
18F108N88H4S3H1	337.50	108	480	9	406	88.31	5.25	17.0000	1.56
18F108N95H4S3H1	337.50	108	480	9	406	95.31	12.25	17.0000	1.56
18F108N120F4Y3H1	360.00	108	480	9	433	110.81	16.25	17.0000	1.56
18F108N120H4S3H1	405.00	108	480	18	487	119.81	13.75	17.0000	1.56
18F108N140H4S3H1	472.50	108	480	18	568	139.81	16.25	17.0000	1.56
18F108N144F4Y3H1	479.50	108	480	12	577	143.81	16.25	17.0000	1.56
18F108N160H4S3H1	540.00	108	480	18	650	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N93F4Y3H1	333.00	120	480	10	401	92.69	13.13	19.0000	1.69
20F126N93F4Y3H1	349.50	126	480	14	420	92.69	13.13	19.0000	1.69
20F132N93F4Y3H1	366.50	132	480	11	441	92.69	13.13	19.0000	1.69
20F120N88H4S3H1	375.00	120	480	10	451	88.19	5.13	19.0000	1.69
20F120N95H4S3H1	375.00	120	480	10	451	95.19	12.13	19.0000	1.69
20F144N93F4Y3H1	399.50	144	480	12	481	92.69	13.13	19.0000	1.69
20F120N120F4Y3H1	400.00	120	480	10	481	110.69	16.13	19.0000	1.69
20F132N88H4S3H1	412.50	132	480	11	496	88.19	5.13	19.0000	1.69
20F132N95H4S3H1	412.50	132	480	11	496	95.19	12.13	19.0000	1.69
20F126N120F4Y3H1	420.00	126	480	14	505	110.69	16.13	19.0000	1.69
20F132N120F4Y3H1	440.00	132	480	11	529	110.69	16.13	19.0000	1.69
20F162N93F4Y3H1	449.50	162	480	18	541	92.69	13.13	19.0000	1.69
20F144N88H4S3H1	450.00	144	480	12	541	88.19	5.13	19.0000	1.69
20F144N95H4S3H1	450.00	144	480	12	541	95.19	12.13	19.0000	1.69
20F120N120H4S3H1	450.00	120	480	20	541	119.69	13.63	19.0000	1.69
20F126N120H4S3H1	472.50	126	480	21	568	119.69	13.63	19.0000	1.69
20F144N120F4Y3H1	480.00	144	480	12	577	110.69	16.13	19.0000	1.69
20F132N120H4S3H1	495.00	132	480	22	595	119.69	13.63	19.0000	1.69
20F180N93F4Y3H1	500.00	180	480	15	601	92.69	13.13	19.0000	1.69
20F120N140H4S3H1	525.00	120	480	20	631	139.69	16.13	19.0000	1.69
20F120N144F4Y3H1	533.00	120	480	20	641	143.69	16.13	19.0000	1.69
20F162N120F4Y3H1	540.00	162	480	18	650	110.69	16.13	19.0000	1.69
20F144N120H4S3H1	540.00	144	480	24	650	119.69	13.63	19.0000	1.69
20F126N140H4S3H1	551.00	126	480	21	663	139.69	16.13	19.0000	1.69
20F126N144F4Y3H1	560.00	126	480	14	674	143.69	16.13	19.0000	1.69
20F180N88H4S3H1	563.00	180	480	15	677	88.19	5.13	19.0000	1.69
20F180N95H4S3H1	563.00	180	480	15	677	95.19	12.13	19.0000	1.69
20F132N140H4S3H1	578.00	132	480	22	695	139.69	16.13	19.0000	1.69
20F132N144F4Y3H1	587.00	132	480	22	706	143.69	16.13	19.0000	1.69
20F180N120F4Y3H1	600.00	180	480	15	722	110.69	16.13	19.0000	1.69
20F120N160H4S3H1	600.00	120	480	20	722	159.69	16.13	19.0000	1.69
20F162N120H4S3H1	608.00	162	480	27	731	119.69	13.63	19.0000	1.69
20F144N140H4S3H1	630.00	144	480	24	758	139.69	16.13	19.0000	1.69
20F126N160H4S3H1	630.00	126	480	21	758	159.69	16.13	19.0000	1.69
20F144N144F4Y3H1	640.00	144	480	24	770	143.69	16.13	19.0000	1.69
20F132N160H4S3H1	660.00	132	480	22	794	159.69	16.13	19.0000	1.69
20F180N120H4S3H1	675.00	180	480	20	812	119.69	13.63	19.0000	1.69
20F162N140H4S3H1	709.00	162	480	27	853	139.69	16.13	19.0000	1.69
20F162N144F4Y3H1	720.00	162	480	18	866	143.69	16.13	19.0000	1.69
20F144N160H4S3H1	720.00	144	480	24	866	159.69	16.13	19.0000	1.69
20F180N140H4S3H1	788.00	180	480	20	948	139.69	16.13	19.0000	1.69
20F180N144F4Y3H1	800.00	180	480	20	962	143.69	16.13	19.0000	1.69



## 150# Flanged Immersion Heaters - Type IF

20F162N160H4S3H1	810.00	162	480	27	974	159.69	16.13	19.0000	1.69
20F180N160H4S3H1	900.00	180	480	30	1,083	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N93F4Y3H1	533.00	192	480	16	641	92.50	12.94	23.0000	1.88
24F192N88H4S3H1	600.00	192	480	16	722	88.00	4.94	23.0000	1.88
24F216N93F4Y3H1	600.00	216	480	18	722	92.50	12.94	23.0000	1.88
24F192N95H4S3H1	600.00	192	480	16	722	95.00	11.94	23.0000	1.88
24F192N120F4Y3H1	640.00	192	480	16	770	110.50	15.94	23.0000	1.88
24F234N93F4Y3H1	650.00	234	480	26	782	92.50	12.94	23.0000	1.88
24F240N93F4Y3H1	667.00	240	480	20	802	92.50	12.94	23.0000	1.88
24F216N88H4S3H1	675.00	216	480	18	812	88.00	4.94	23.0000	1.88
24F216N95H4S3H1	675.00	216	480	18	812	95.00	11.94	23.0000	1.88
24F216N120F4Y3H1	720.00	216	480	18	866	110.50	15.94	23.0000	1.88
24F192N120H4S3H1	720.00	192	480	32	866	119.50	13.44	23.0000	1.88
24F240N88H4S3H1	750.00	240	480	20	902	88.00	4.94	23.0000	1.88
24F240N95H4S3H1	750.00	240	480	20	902	95.00	11.94	23.0000	1.88
24F234N120F4Y3H1	780.00	234	480	26	938	110.50	15.94	23.0000	1.88
24F240N120F4Y3H1	800.00	240	480	20	962	110.50	15.94	23.0000	1.88
24F216N120H4S3H1	810.00	216	480	36	974	119.50	13.44	23.0000	1.88
24F192N140H4S3H1	840.00	192	480	32	1,010	139.50	15.94	23.0000	1.88
24F192N144F4Y3H1	853.00	192	480	32	1,026	143.50	15.94	23.0000	1.88
24F234N120H4S3H1	878.00	234	480	39	1,056	119.50	13.44	23.0000	1.88
24F240N120H4S3H1	900.00	240	480	40	1,083	119.50	13.44	23.0000	1.88
24F216N140H4S3H1	945.00	216	480	36	1,137	139.50	15.94	23.0000	1.88
24F216N144F4Y3H1	960.00	216	480	24	1,155	143.50	15.94	23.0000	1.88
24F192N160H4S3H1	960.00	192	480	32	1,155	159.50	15.94	23.0000	1.88
24F234N140H4S3H1	1,024.00	234	480	39	1,232	139.50	15.94	23.0000	1.88
24F234N144F4Y3H1	1,040.00	234	480	26	1,251	143.50	15.94	23.0000	1.88
24F240N140H4S3H1	1,050.00	240	480	40	1,263	139.50	15.94	23.0000	1.88
24F240N144F4Y3H1	1,067.00	240	480	40	1,283	143.50	15.94	23.0000	1.88
24F216N160H4S3H1	1,080.00	216	480	36	1,299	159.50	15.94	23.0000	1.88
24F234N160H4S3H1	1,170.00	234	480	39	1,407	159.50	15.94	23.0000	1.88
24F240N160H4S3H1	1,200.00	240	480	40	1,443	159.50	15.94	23.0000	1.88

### 10 Watts/Sq. Inch

#### 3 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
3F3N44G4Y3H1	3.00	3	480	1	4	44.44	10.88	2.9000	0.94
3F3N56G4Y3H1	4.00	3	480	1	5	56.44	10.88	2.9000	0.94
3F3N67G4Y3H1	5.00	3	480	1	6	67.44	10.88	2.9000	0.94
3F3N80G4Y3H1	6.00	3	480	1	7	80.44	12.88	2.9000	0.94
3F3N100G4Y3H1	7.50	3	480	1	9	100.44	12.88	2.9000	0.94
3F3N120G4Y3H1	9.50	3	480	1	11	120.44	12.88	2.9000	0.94
3F3N140G4Y3H1	11.00	3	480	1	13	140.44	16.88	2.9000	0.94
3F3N160G4Y3H1	13.00	3	480	1	16	160.44	16.88	2.9000	0.94

#### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N44G4Y3H1	6.00	6	480	1	7	44.44	10.88	3.8260	0.94
4F6N56G4Y3H1	8.00	6	480	1	10	56.44	10.88	3.8260	0.94
4F6N67G4Y3H1	10.00	6	480	1	12	67.44	10.88	3.8260	0.94



## 150# Flanged Immersion Heaters - Type IF

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N44G4Y3H1	30.00	30	480	1	36	44.19	10.63	9.7500	1.19
10F36N44G4Y3H1	36.00	36	480	1	43	44.19	10.63	9.7500	1.19
10F30N56G4Y3H1	40.00	30	480	1	48	56.19	10.63	9.7500	1.19
10F36N56G4Y3H1	48.00	36	480	2	58	56.19	10.63	9.7500	1.19
10F30N67G4Y3H1	50.00	30	480	2	60	67.19	10.63	9.7500	1.19
10F36N67G4Y3H1	60.00	36	480	2	72	67.19	10.63	9.7500	1.19
10F30N80G4Y3H1	60.00	30	480	2	72	80.19	12.63	9.7500	1.19
10F36N80G4Y3H1	72.00	36	480	2	87	80.19	12.63	9.7500	1.19
10F30N100G4Y3H1	75.00	30	480	2	90	100.19	12.63	9.7500	1.19
10F36N100G4Y3H1	90.00	36	480	3	108	100.19	12.63	9.7500	1.19
10F30N140G4Y3H1	110.00	30	480	5	132	140.19	16.63	9.7500	1.19
10F36N120G4Y3H1	114.00	36	480	3	137	120.19	12.63	9.7500	1.19
10F30N160G4Y3H1	130.00	30	480	5	156	160.19	16.63	9.7500	1.19
10F36N140G4Y3H1	132.00	36	480	4	159	140.19	16.63	9.7500	1.19
10F36N160G4Y3H1	156.00	36	480	4	188	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N44G4Y3H1	48.00	48	480	2	58	44.13	10.56	11.7500	1.25
12F48N56G4Y3H1	64.00	48	480	2	77	56.13	10.56	11.7500	1.25
12F48N67G4Y3H1	80.00	48	480	2	96	67.13	10.56	11.7500	1.25
12F48N80G4Y3H1	96.00	48	480	4	115	80.13	12.56	11.7500	1.25
12F54N80G4Y3H1	108.00	54	480	3	130	80.13	12.56	11.7500	1.25
12F48N100G4Y3H1	120.00	48	480	4	144	100.13	12.56	11.7500	1.25
12F54N100G4Y3H1	135.00	54	480	6	162	100.13	12.56	11.7500	1.25
12F48N120G4Y3H1	152.00	48	480	4	183	120.13	12.56	11.7500	1.25
12F54N120G4Y3H1	171.00	54	480	6	206	120.13	12.56	11.7500	1.25
12F48N140G4Y3H1	176.00	48	480	8	212	140.13	16.56	11.7500	1.25
12F54N140G4Y3H1	198.00	54	480	6	238	140.13	16.56	11.7500	1.25
12F48N160G4Y3H1	208.00	48	480	8	250	160.13	16.56	11.7500	1.25
12F54N160G4Y3H1	234.00	54	480	6	281	160.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N80G4Y3H1	108.00	54	480	3	130	80.00	12.44	13.0000	1.38
14F60N80G4Y3H1	120.00	60	480	4	144	80.00	12.44	13.0000	1.38
14F54N100G4Y3H1	135.00	54	480	6	162	100.00	12.44	13.0000	1.38
14F72N80G4Y3H1	144.00	72	480	4	173	80.00	12.44	13.0000	1.38
14F60N100G4Y3H1	150.00	60	480	4	180	100.00	12.44	13.0000	1.38
14F54N120G4Y3H1	171.00	54	480	6	206	120.00	12.44	13.0000	1.38
14F72N100G4Y3H1	180.00	72	480	6	217	100.00	12.44	13.0000	1.38
14F60N120G4Y3H1	190.00	60	480	5	229	120.00	12.44	13.0000	1.38
14F54N140G4Y3H1	198.00	54	480	6	238	140.00	16.44	13.0000	1.38
14F60N140G4Y3H1	220.00	60	480	10	265	140.00	16.44	13.0000	1.38
14F72N120G4Y3H1	228.00	72	480	6	274	120.00	12.44	13.0000	1.38
14F54N160G4Y3H1	234.00	54	480	6	281	160.00	16.44	13.0000	1.38
14F60N160G4Y3H1	260.00	60	480	10	313	160.00	16.44	13.0000	1.38
14F72N140G4Y3H1	264.00	72	480	8	318	140.00	16.44	13.0000	1.38
14F72N160G4Y3H1	312.00	72	480	8	375	160.00	16.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
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## 150# Flanged Immersion Heaters - Type IF

16F84N80G4Y3H1	168.00	84	480	7	202	79.94	12.38	15.0000	1.44
16F90N80G4Y3H1	180.00	90	480	5	217	79.94	12.38	15.0000	1.44
16F96N80G4Y3H1	192.00	96	480	8	231	79.94	12.38	15.0000	1.44
16F84N100G4Y3H1	210.00	84	480	7	253	99.94	12.38	15.0000	1.44
16F90N100G4Y3H1	225.00	90	480	10	271	99.94	12.38	15.0000	1.44
16F96N100G4Y3H1	240.00	96	480	8	289	99.94	12.38	15.0000	1.44
16F84N120G4Y3H1	266.00	84	480	7	320	119.94	12.38	15.0000	1.44
16F90N120G4Y3H1	285.00	90	480	10	343	119.94	12.38	15.0000	1.44
16F96N120G4Y3H1	304.00	96	480	8	366	119.94	12.38	15.0000	1.44
16F84N140G4Y3H1	308.00	84	480	14	370	139.94	16.38	15.0000	1.44
16F90N140G4Y3H1	330.00	90	480	10	397	139.94	16.38	15.0000	1.44
16F96N140G4Y3H1	352.00	96	480	16	423	139.94	16.38	15.0000	1.44
16F84N160G4Y3H1	364.00	84	480	14	438	159.94	16.38	15.0000	1.44
16F90N160G4Y3H1	390.00	90	480	10	469	159.94	16.38	15.0000	1.44
16F96N160G4Y3H1	416.00	96	480	16	500	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N100G4Y3H1	270.00	108	480	9	325	99.81	12.25	17.0000	1.56
18F108N120G4Y3H1	342.00	108	480	9	411	119.81	12.25	17.0000	1.56
18F108N140G4Y3H1	396.00	108	480	12	476	139.81	16.25	17.0000	1.56
18F108N160G4Y3H1	468.00	108	480	12	563	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N100G4Y3H1	300.00	120	480	8	361	99.69	12.13	19.0000	1.69
20F126N100G4Y3H1	315.00	126	480	14	379	99.69	12.13	19.0000	1.69
20F132N100G4Y3H1	330.00	132	480	11	397	99.69	12.13	19.0000	1.69
20F144N100G4Y3H1	360.00	144	480	12	433	99.69	12.13	19.0000	1.69
20F120N120G4Y3H1	380.00	120	480	10	457	119.69	12.13	19.0000	1.69
20F126N120G4Y3H1	399.00	126	480	14	480	119.69	12.13	19.0000	1.69
20F162N100G4Y3H1	405.00	162	480	18	487	99.69	12.13	19.0000	1.69
20F132N120G4Y3H1	418.00	132	480	11	503	119.69	12.13	19.0000	1.69
20F120N140G4Y3H1	440.00	120	480	20	529	139.69	16.13	19.0000	1.69
20F180N100G4Y3H1	450.00	180	480	12	541	99.69	12.13	19.0000	1.69
20F144N120G4Y3H1	456.00	144	480	12	548	119.69	12.13	19.0000	1.69
20F126N140G4Y3H1	462.00	126	480	14	556	139.69	16.13	19.0000	1.69
20F132N140G4Y3H1	484.00	132	480	22	582	139.69	16.13	19.0000	1.69
20F162N120G4Y3H1	513.00	162	480	18	617	119.69	12.13	19.0000	1.69
20F120N160G4Y3H1	520.00	120	480	20	625	159.69	16.13	19.0000	1.69
20F144N140G4Y3H1	528.00	144	480	24	635	139.69	16.13	19.0000	1.69
20F126N160G4Y3H1	546.00	126	480	14	657	159.69	16.13	19.0000	1.69
20F180N120G4Y3H1	570.00	180	480	15	686	119.69	12.13	19.0000	1.69
20F132N160G4Y3H1	572.00	132	480	22	688	159.69	16.13	19.0000	1.69
20F162N140G4Y3H1	594.00	162	480	18	714	139.69	16.13	19.0000	1.69
20F144N160G4Y3H1	624.00	144	480	24	751	159.69	16.13	19.0000	1.69
20F180N140G4Y3H1	660.00	180	480	20	794	139.69	16.13	19.0000	1.69
20F162N160G4Y3H1	702.00	162	480	18	844	159.69	16.13	19.0000	1.69
20F180N160G4Y3H1	780.00	180	480	20	938	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N100G4Y3H1	480.00	192	480	16	577	99.50	11.94	23.0000	1.88

## 150# Flanged Immersion Heaters - Type IF

24F216N100G4Y3H1	540.00	216	480	18	650	99.50	11.94	23.0000	1.88
24F234N100G4Y3H1	585.00	234	480	26	704	99.50	11.94	23.0000	1.88
24F240N100G4Y3H1	600.00	240	480	16	722	99.50	11.94	23.0000	1.88
24F192N120G4Y3H1	608.00	192	480	16	731	119.50	11.94	23.0000	1.88
24F216N120G4Y3H1	684.00	216	480	18	823	119.50	11.94	23.0000	1.88
24F192N140G4Y3H1	704.00	192	480	32	847	139.50	15.94	23.0000	1.88
24F234N120G4Y3H1	741.00	234	480	26	891	119.50	11.94	23.0000	1.88
24F240N120G4Y3H1	760.00	240	480	20	914	119.50	11.94	23.0000	1.88
24F216N140G4Y3H1	792.00	216	480	24	953	139.50	15.94	23.0000	1.88
24F192N160G4Y3H1	832.00	192	480	32	1,001	159.50	15.94	23.0000	1.88
24F234N140G4Y3H1	858.00	234	480	26	1,032	139.50	15.94	23.0000	1.88
24F240N140G4Y3H1	880.00	240	480	40	1,059	139.50	15.94	23.0000	1.88
24F216N160G4Y3H1	936.00	216	480	24	1,126	159.50	15.94	23.0000	1.88
24F234N160G4Y3H1	1,014.00	234	480	26	1,220	159.50	15.94	23.0000	1.88
24F240N160G4Y3H1	1,040.00	240	480	40	1,251	159.50	15.94	23.0000	1.88

### 9 Watts/Sq. Inch

#### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N48F4S3H1	4.88	6	480	1	6	48.44	16.88	3.8260	0.94
4F6N61F4S3H1	7.50	6	480	1	9	61.44	13.88	3.8260	0.94
4F6N77F4S3H1	9.88	6	480	1	12	77.44	13.88	3.8260	0.94
4F6N84F4S3H1	10.00	6	240	1	24	84.44	16.88	3.8260	0.94
4F6N93F4S3H1	12.25	6	480	1	15	93.44	13.88	3.8260	0.94
4F6N111F4S3H1	15.00	6	240	1	36	-1.06	16.88	3.8260	0.94
4F6N120F4S3H1	15.00	6	480	1	18	111.44	16.88	3.8260	0.94
4F6N144F4S3H1	20.00	6	480	1	24	144.44	16.88	3.8260	0.94

#### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N48F4S3H1	9.88	12	480	1	12	48.38	16.81	5.7610	1.00
6F12N61F4S3H1	15.00	12	480	1	18	61.38	13.81	5.7610	1.00
6F12N77F4S3H1	19.75	12	480	1	24	77.38	13.81	5.7610	1.00
6F12N84F4S3H1	20.00	12	240	1	48	84.38	16.81	5.7610	1.00
6F12N93F4S3H1	24.75	12	480	1	30	93.38	13.81	5.7610	1.00
6F12N111F4S3H1	30.00	12	240	2	72	-1.13	16.81	5.7610	1.00
6F12N120F4S3H1	30.00	12	480	1	36	111.38	16.81	5.7610	1.00
6F12N144F4S3H1	40.00	12	480	1	48	144.38	16.81	5.7610	1.00

#### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N48F4S3H1	15.00	18	480	1	18	48.25	16.69	7.6250	1.13
8F24N48F4S3H1	20.00	24	480	1	24	48.25	16.69	7.6250	1.13
8F18N61F4S3H1	22.50	18	480	1	27	61.25	13.69	7.6250	1.13
8F18N77F4S3H1	29.75	18	480	1	36	77.25	13.69	7.6250	1.13
8F24N61F4S3H1	30.00	24	480	1	36	61.25	13.69	7.6250	1.13
8F18N93F4S3H1	37.25	18	480	1	45	93.25	13.69	7.6250	1.13
8F24N77F4S3H1	39.75	24	480	1	48	77.25	13.69	7.6250	1.13
8F24N93F4S3H1	49.75	24	480	2	60	93.25	13.69	7.6250	1.13
8F24N120F4S3H1	60.00	24	480	2	72	111.25	16.69	7.6250	1.13
8F18N144F4S3H1	60.00	18	480	3	72	144.25	16.69	7.6250	1.13
8F24N144F4S3H1	79.75	24	480	2	96	144.25	16.69	7.6250	1.13

#### 10 Inch Heaters

## 150# Flanged Immersion Heaters - Type IF

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N48F4S3H1	25.00	30	480	1	30	48.19	16.63	9.7500	1.19
10F36N48F4S3H1	30.00	36	480	1	36	48.19	16.63	9.7500	1.19
10F30N61F4S3H1	37.50	30	480	1	45	61.19	13.63	9.7500	1.19
10F36N61F4S3H1	45.00	36	480	2	54	61.19	13.63	9.7500	1.19
10F36N77F4S3H1	59.75	36	480	2	72	77.19	13.63	9.7500	1.19
10F36N93F4S3H1	74.75	36	480	2	90	93.19	13.63	9.7500	1.19
10F36N120F4S3H1	90.00	36	480	3	108	111.19	16.63	9.7500	1.19
10F36N144F4S3H1	120.00	36	480	3	144	144.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N48F4S3H1	40.00	48	480	1	48	48.13	16.56	11.7500	1.25
12F48N61F4S3H1	60.00	48	480	2	72	61.13	13.56	11.7500	1.25
12F48N77F4S3H1	79.75	48	480	2	96	77.13	13.56	11.7500	1.25
12F48N93F4S3H1	99.75	48	480	4	120	93.13	13.56	11.7500	1.25
12F54N93F4S3H1	112.00	54	480	3	135	93.13	13.56	11.7500	1.25
12F48N120F4S3H1	120.00	48	480	4	144	111.13	16.56	11.7500	1.25
12F48N144F4S3H1	160.00	48	480	4	192	144.13	16.56	11.7500	1.25
12F54N144F4S3H1	180.00	54	480	9	217	144.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N93F4S3H1	112.00	54	480	3	135	93.00	13.44	13.0000	1.38
14F60N93F4S3H1	124.50	60	480	5	150	93.00	13.44	13.0000	1.38
14F72N93F4S3H1	149.50	72	480	4	180	93.00	13.44	13.0000	1.38
14F60N120F4S3H1	150.00	60	480	5	180	111.00	16.44	13.0000	1.38
14F72N120F4S3H1	180.00	72	480	6	217	111.00	16.44	13.0000	1.38
14F54N144F4S3H1	180.00	54	480	9	217	144.00	16.44	13.0000	1.38
14F60N144F4S3H1	199.50	60	480	5	240	144.00	16.44	13.0000	1.38
14F72N144F4S3H1	239.50	72	480	6	288	144.00	16.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N93F4S3H1	174.50	84	480	7	210	92.94	13.38	15.0000	1.44
16F90N93F4S3H1	187.00	90	480	5	225	92.94	13.38	15.0000	1.44
16F96N93F4S3H1	199.50	96	480	8	240	92.94	13.38	15.0000	1.44
16F84N120F4S3H1	210.00	84	480	7	253	110.94	16.38	15.0000	1.44
16F96N120F4S3H1	240.00	96	480	8	289	110.94	16.38	15.0000	1.44
16F84N144F4S3H1	279.50	84	480	7	336	143.94	16.38	15.0000	1.44
16F90N144F4S3H1	299.50	90	480	15	360	143.94	16.38	15.0000	1.44
16F96N144F4S3H1	319.50	96	480	8	384	143.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N93F4S3H1	224.50	108	480	6	270	92.81	13.25	17.0000	1.56
18F108N120F4S3H1	270.00	108	480	9	325	110.81	16.25	17.0000	1.56
18F108N144F4S3H1	359.50	108	480	9	432	143.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N93F4S3H1	249.50	120	480	10	300	92.69	13.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F126N93F4S3H1	262.00	126	480	7	315	92.69	13.13	19.0000	1.69
20F132N93F4S3H1	274.50	132	480	11	330	92.69	13.13	19.0000	1.69
20F144N93F4S3H1	299.50	144	480	8	360	92.69	13.13	19.0000	1.69
20F120N120F4S3H1	300.00	120	480	10	361	110.69	16.13	19.0000	1.69
20F132N120F4S3H1	330.00	132	480	11	397	110.69	16.13	19.0000	1.69
20F162N93F4S3H1	337.00	162	480	9	405	92.69	13.13	19.0000	1.69
20F144N120F4S3H1	360.00	144	480	12	433	110.69	16.13	19.0000	1.69
20F180N93F4S3H1	374.50	180	480	10	450	92.69	13.13	19.0000	1.69
20F120N144F4S3H1	399.50	120	480	10	481	143.69	16.13	19.0000	1.69
20F132N144F4S3H1	439.50	132	480	11	529	143.69	16.13	19.0000	1.69
20F180N120F4S3H1	450.00	180	480	12	541	110.69	16.13	19.0000	1.69
20F144N144F4S3H1	479.50	144	480	12	577	143.69	16.13	19.0000	1.69
20F180N144F4S3H1	600.00	180	480	15	722	143.69	16.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N93F4S3H1	399.50	192	480	16	481	92.50	12.94	23.0000	1.88
24F216N93F4S3H1	449.50	216	480	12	541	92.50	12.94	23.0000	1.88
24F192N120F4S3H1	480.00	192	480	16	577	110.50	15.94	23.0000	1.88
24F234N93F4S3H1	487.00	234	480	13	586	92.50	12.94	23.0000	1.88
24F240N93F4S3H1	500.00	240	480	20	601	92.50	12.94	23.0000	1.88
24F216N120F4S3H1	540.00	216	480	18	650	110.50	15.94	23.0000	1.88
24F240N120F4S3H1	600.00	240	480	20	722	110.50	15.94	23.0000	1.88
24F192N144F4S3H1	640.00	192	480	16	770	143.50	15.94	23.0000	1.88
24F216N144F4S3H1	720.00	216	480	18	866	143.50	15.94	23.0000	1.88
24F240N144F4S3H1	800.00	240	480	20	962	143.50	15.94	23.0000	1.88

### 8 Watts/Sq. Inch

#### 3 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
3F3N10M2Y3H1	0.50	3	240	1	1	10.44	3.88	2.9000	0.94
3F3N13M4Y3H1	0.75	3	480	1	1	13.44	3.88	2.9000	0.94
3F3N13M2Y3H1	0.75	3	120	1	4	13.44	3.88	2.9000	0.94
3F3N13M1Y3H1	0.75	3	120	1	4	13.44	3.88	2.9000	0.94
3F3N18M2Y3H1	1.00	3	240	1	2	17.94	3.88	2.9000	0.94
3F3N18M4Y3H1	1.00	3	480	1	1	17.94	3.88	2.9000	0.94
3F3N20M2Y3H1	1.25	3	240	1	3	19.94	3.88	2.9000	0.94
3F3N20M4Y3H1	1.25	3	480	1	2	20.44	3.88	2.9000	0.94
3F3N25M4Y3H1	1.50	3	480	1	2	25.44	3.88	2.9000	0.94
3F3N25M2Y3H1	1.50	3	240	1	4	25.44	3.88	2.9000	0.94
3F3N25M1Y3H1	1.50	3	120	1	7	25.44	3.88	2.9000	0.94
3F3N33M4Y3H1	2.00	3	480	1	2	32.94	3.88	2.9000	0.94
3F3N40M4Y3H1	2.50	3	480	1	3	40.44	3.88	2.9000	0.94
3F3N40M2Y3H1	2.50	3	240	1	6	40.44	3.88	2.9000	0.94
3F3N48M4Y3H1	3.00	3	480	1	4	47.94	3.88	2.9000	0.94
3F3N52M4Y3H1	3.25	3	480	1	4	51.94	5.88	2.9000	0.94
3F3N52M2Y3H1	3.25	3	240	1	8	51.94	5.88	2.9000	0.94
3F3N59M4Y3H1	3.25	3	480	1	4	57.94	12.88	2.9000	0.94
3F3N64M4Y3H1	4.25	3	480	1	5	64.44	5.88	2.9000	0.94
3F3N64M2Y3H1	4.25	3	240	1	10	64.44	5.88	2.9000	0.94
3F3N73M4Y3H1	4.25	3	480	1	5	71.94	16.88	2.9000	0.94
3F3N77M4Y3H1	5.00	3	480	1	6	76.94	5.88	2.9000	0.94
3F3N77M2Y3H1	5.00	3	240	1	12	76.94	5.88	2.9000	0.94
3F3N88M4Y3H1	5.50	3	480	1	7	88.94	5.88	2.9000	0.94

## 150# Flanged Immersion Heaters - Type IF

3F3N95M4Y3H1	5.50	3	480	1	7	93.94	12.88	2.9000	0.94
3F3N106M4Y3H1	6.25	3	480	1	8	106.44	12.88	2.9000	0.94
3F3N120M4Y3H1	7.75	3	480	1	9	120.44	12.88	2.9000	0.94
3F3N140M4Y3H1	8.75	3	480	1	11	140.44	16.88	2.9000	0.94
3F3N160M4Y3H1	10.00	3	480	1	12	160.44	16.88	2.9000	0.94

### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N10M2Y3H1	1.00	6	240	1	2	10.44	3.88	3.8260	0.94
4F6N13M1Y3H1	1.50	6	120	1	7	13.44	3.88	3.8260	0.94
4F6N13M2Y3H1	1.50	6	120	1	7	13.44	3.88	3.8260	0.94
4F6N13M4Y3H1	1.50	6	480	1	2	13.44	3.88	3.8260	0.94
4F6N18M4Y3H1	2.00	6	480	1	2	17.94	3.88	3.8260	0.94
4F6N18M2Y3H1	2.00	6	240	1	5	17.94	3.88	3.8260	0.94
4F6N20M2Y3H1	2.50	6	240	1	6	19.94	3.88	3.8260	0.94
4F6N20M4Y3H1	2.50	6	480	1	3	20.44	3.88	3.8260	0.94
4F6N25M1Y3H1	3.00	6	120	1	14	25.44	3.88	3.8260	0.94
4F6N25M4Y3H1	3.00	6	480	1	4	25.44	3.88	3.8260	0.94
4F6N25M2Y3H1	3.00	6	240	1	7	25.44	3.88	3.8260	0.94
4F6N33M4Y3H1	4.00	6	480	1	5	32.94	3.88	3.8260	0.94
4F6N44G4S3H1	4.50	6	480	1	5	44.44	10.88	3.8260	0.94
4F6N40M4Y3H1	5.00	6	480	1	6	40.44	3.88	3.8260	0.94
4F6N40M2Y3H1	5.00	6	240	1	12	40.44	3.88	3.8260	0.94
4F6N48M4Y3H1	6.00	6	480	1	7	47.94	3.88	3.8260	0.94
4F6N56G4S3H1	6.00	6	480	1	7	56.44	10.88	3.8260	0.94
4F6N52M4Y3H1	6.63	6	480	1	8	51.94	5.88	3.8260	0.94
4F6N52M2Y3H1	6.63	6	240	1	16	51.94	5.88	3.8260	0.94
4F6N59M4Y3H1	6.63	6	480	1	8	57.94	12.88	3.8260	0.94
4F6N67G4S3H1	7.50	6	480	1	9	67.44	10.88	3.8260	0.94
4F6N64M4Y3H1	8.50	6	480	1	10	64.44	5.88	3.8260	0.94
4F6N64M2Y3H1	8.50	6	240	1	20	64.44	5.88	3.8260	0.94
4F6N73M4Y3H1	8.50	6	480	1	10	71.94	16.88	3.8260	0.94
4F6N80G4S3H1	9.00	6	480	1	11	80.44	12.88	3.8260	0.94
4F6N77M4Y3H1	10.00	6	480	1	12	76.94	5.88	3.8260	0.94
4F6N77M2Y3H1	10.00	6	240	1	24	76.94	5.88	3.8260	0.94
4F6N88M4Y3H1	11.00	6	480	1	13	88.94	5.88	3.8260	0.94
4F6N95M4Y3H1	11.00	6	480	1	13	93.94	12.88	3.8260	0.94
4F6N100G4S3H1	11.25	6	480	1	14	100.44	12.88	3.8260	0.94
4F6N106M4Y3H1	12.50	6	480	1	15	106.44	12.88	3.8260	0.94
4F6N120G4S3H1	14.25	6	480	1	17	120.44	12.88	3.8260	0.94
4F6N120M4Y3H1	15.50	6	480	1	19	120.44	12.88	3.8260	0.94
4F6N140G4S3H1	16.50	6	480	1	20	140.44	16.88	3.8260	0.94
4F6N140M4Y3H1	17.50	6	480	1	21	140.44	16.88	3.8260	0.94
4F6N160G4S3H1	19.50	6	480	1	23	160.44	16.88	3.8260	0.94
4F6N160M4Y3H1	20.00	6	480	1	24	160.44	16.88	3.8260	0.94

### 5 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
5F9N10M2Y3H1	1.50	9	240	1	4	10.44	3.88	4.8125	0.94
5F9N13M4Y3H1	2.25	9	480	1	3	13.44	3.88	4.8125	0.94
5F9N18M4Y3H1	3.00	9	480	1	4	17.94	3.88	4.8125	0.94
5F9N18M2Y3H1	3.00	9	240	1	7	17.94	3.88	4.8125	0.94
5F9N20M2Y3H1	3.75	9	240	1	9	19.94	3.88	4.8125	0.94
5F9N20M4Y3H1	3.75	9	480	1	5	20.44	3.88	4.8125	0.94



## 150# Flanged Immersion Heaters - Type IF

5F9N25M4Y3H1	4.50	9	480	1	5	25.44	3.88	4.8125	0.94
5F9N25M2Y3H1	4.50	9	240	1	11	25.44	3.88	4.8125	0.94
5F9N33M4Y3H1	6.00	9	480	1	7	32.94	3.88	4.8125	0.94
5F9N40M2Y3H1	7.50	9	240	1	18	40.44	3.88	4.8125	0.94
5F9N40M4Y3H1	7.50	9	480	1	9	40.44	3.88	4.8125	0.94
5F9N48M4Y3H1	9.00	9	480	1	11	47.94	3.88	4.8125	0.94
5F9N52M4Y3H1	10.00	9	480	1	12	51.94	5.88	4.8125	0.94
5F9N52M2Y3H1	10.00	9	240	1	24	51.94	5.88	4.8125	0.94
5F9N59M4Y3H1	10.00	9	480	1	12	57.94	12.88	4.8125	0.94
5F9N64M2Y3H1	12.75	9	240	1	31	64.44	5.88	4.8125	0.94
5F9N64M4Y3H1	12.75	9	480	1	15	64.44	5.88	4.8125	0.94
5F9N73M4Y3H1	12.75	9	480	1	15	71.94	16.88	4.8125	0.94
5F9N77M2Y3H1	15.00	9	240	1	36	76.94	5.88	4.8125	0.94
5F9N77M4Y3H1	15.00	9	480	1	18	76.94	5.88	4.8125	0.94
5F9N88M4Y3H1	16.75	9	480	1	20	88.94	5.88	4.8125	0.94
5F9N95M4Y3H1	16.75	9	480	1	20	93.94	12.88	4.8125	0.94
5F9N106M4Y3H1	18.75	9	480	1	23	106.44	12.88	4.8125	0.94
5F9N120M4Y3H1	23.25	9	480	1	28	120.44	12.88	4.8125	0.94
5F9N140M4Y3H1	26.25	9	480	1	32	140.44	16.88	4.8125	0.94
5F9N160M4Y3H1	30.00	9	480	1	36	160.44	16.88	4.8125	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10M2Y3H1	2.00	12	240	1	5	10.38	3.81	5.7610	1.00
6F15N10M2Y3H1	2.50	15	240	1	6	10.38	3.81	5.7610	1.00
6F12N13M4Y3H1	3.00	12	480	1	4	13.38	3.81	5.7610	1.00
6F15N13M4Y3H1	3.75	15	480	1	5	13.38	3.81	5.7610	1.00
6F12N18M4Y3H1	4.00	12	480	1	5	17.88	3.81	5.7610	1.00
6F12N18M2Y3H1	4.00	12	240	1	10	17.88	3.81	5.7610	1.00
6F15N18M4Y3H1	5.00	15	480	1	6	17.88	3.81	5.7610	1.00
6F15N18M2Y3H1	5.00	15	240	1	12	17.88	3.81	5.7610	1.00
6F12N20M2Y3H1	5.00	12	240	1	12	19.88	3.81	5.7610	1.00
6F12N20M4Y3H1	5.00	12	480	1	6	20.38	3.81	5.7610	1.00
6F12N25M2Y3H1	6.00	12	240	1	14	25.38	3.81	5.7610	1.00
6F12N25M4Y3H1	6.00	12	480	1	7	25.38	3.81	5.7610	1.00
6F15N20M2Y3H1	6.25	15	240	1	15	19.88	3.81	5.7610	1.00
6F15N20M4Y3H1	6.25	15	480	1	8	20.38	3.81	5.7610	1.00
6F15N25M2Y3H1	7.50	15	240	1	18	25.38	3.81	5.7610	1.00
6F15N25M4Y3H1	7.50	15	480	1	9	25.38	3.81	5.7610	1.00
6F12N33M4Y3H1	8.00	12	480	1	10	32.88	3.81	5.7610	1.00
6F12N44G4S3H1	9.00	12	480	1	11	44.38	10.81	5.7610	1.00
6F15N33M4Y3H1	10.00	15	480	1	12	32.88	3.81	5.7610	1.00
6F12N40M4Y3H1	10.00	12	480	1	12	40.38	3.81	5.7610	1.00
6F12N40M2Y3H1	10.00	12	240	1	24	40.38	3.81	5.7610	1.00
6F12N48M4Y3H1	12.00	12	480	1	14	47.88	3.81	5.7610	1.00
6F12N56G4S3H1	12.00	12	480	1	14	56.38	10.81	5.7610	1.00
6F15N40M4Y3H1	12.50	15	480	1	15	40.38	3.81	5.7610	1.00
6F15N40M2Y3H1	12.50	15	240	1	30	40.38	3.81	5.7610	1.00
6F12N52M4Y3H1	13.25	12	480	1	16	51.88	5.81	5.7610	1.00
6F12N52M2Y3H1	13.25	12	240	1	32	51.88	5.81	5.7610	1.00
6F12N59M4Y3H1	13.25	12	480	1	16	57.88	12.81	5.7610	1.00
6F15N48M4Y3H1	15.00	15	480	1	18	47.88	3.81	5.7610	1.00
6F12N67G4S3H1	15.00	12	480	1	18	67.38	10.81	5.7610	1.00
6F15N52M2Y3H1	16.50	15	240	1	40	51.88	5.81	5.7610	1.00

## 150# Flanged Immersion Heaters - Type IF

6F15N52M4Y3H1	16.50	15	480	1	20	51.88	5.81	5.7610	1.00
6F15N59M4Y3H1	16.50	15	480	1	20	57.88	12.81	5.7610	1.00
6F12N64M4Y3H1	17.00	12	480	1	20	64.38	5.81	5.7610	1.00
6F12N64M2Y3H1	17.00	12	240	1	41	64.38	5.81	5.7610	1.00
6F12N73M4Y3H1	17.00	12	480	1	20	71.88	16.81	5.7610	1.00
6F12N80G4S3H1	18.00	12	480	1	22	80.38	12.81	5.7610	1.00
6F12N77M2Y3H1	20.00	12	240	1	48	76.88	5.81	5.7610	1.00
6F12N77M4Y3H1	20.00	12	480	1	24	76.88	5.81	5.7610	1.00
6F15N64M4Y3H1	21.25	15	480	1	26	64.38	5.81	5.7610	1.00
6F15N73M4Y3H1	21.25	15	480	1	26	71.88	16.81	5.7610	1.00
6F12N88M4Y3H1	22.25	12	480	1	27	88.88	5.81	5.7610	1.00
6F12N95M4Y3H1	22.25	12	480	1	27	93.88	12.81	5.7610	1.00
6F12N100G4S3H1	22.50	12	480	1	27	100.38	12.81	5.7610	1.00
6F15N77M4Y3H1	25.00	15	480	1	30	76.88	5.81	5.7610	1.00
6F12N106M4Y3H1	25.00	12	480	1	30	106.38	12.81	5.7610	1.00
6F15N88M4Y3H1	28.00	15	480	1	34	88.88	5.81	5.7610	1.00
6F15N95M4Y3H1	28.00	15	480	1	34	93.88	12.81	5.7610	1.00
6F12N120G4S3H1	28.50	12	480	1	34	120.38	12.81	5.7610	1.00
6F12N120M4Y3H1	31.00	12	480	1	37	120.38	12.81	5.7610	1.00
6F15N106M4Y3H1	31.50	15	480	1	38	106.38	12.81	5.7610	1.00
6F12N140G4S3H1	33.00	12	480	1	40	140.38	16.81	5.7610	1.00
6F12N140M4Y3H1	35.00	12	480	1	42	140.38	16.81	5.7610	1.00
6F15N120M4Y3H1	39.00	15	480	1	47	120.38	12.81	5.7610	1.00
6F12N160G4S3H1	39.00	12	480	1	47	160.38	16.81	5.7610	1.00
6F12N160M4Y3H1	40.00	12	480	1	48	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N13M4Y3H1	4.50	18	480	1	5	13.25	3.69	7.6250	1.13
8F24N13M4Y3H1	6.00	24	480	1	7	13.25	3.69	7.6250	1.13
8F18N18M4Y3H1	6.00	18	480	1	7	17.75	3.69	7.6250	1.13
8F18N20M4Y3H1	7.50	18	480	1	9	20.25	3.69	7.6250	1.13
8F24N18M4Y3H1	8.00	24	480	1	10	17.75	3.69	7.6250	1.13
8F18N25M4Y3H1	9.00	18	480	1	11	25.25	3.69	7.6250	1.13
8F24N20M4Y3H1	10.00	24	480	1	12	20.25	3.69	7.6250	1.13
8F24N25M4Y3H1	12.00	24	480	1	14	25.25	3.69	7.6250	1.13
8F18N33M4Y3H1	12.00	18	480	1	14	32.75	3.69	7.6250	1.13
8F18N44G4S3H1	13.50	18	480	1	16	44.25	10.69	7.6250	1.13
8F18N40M4Y3H1	15.00	18	480	1	18	40.25	3.69	7.6250	1.13
8F24N33M4Y3H1	16.00	24	480	1	19	32.75	3.69	7.6250	1.13
8F24N44G4S3H1	18.00	24	480	1	22	44.25	10.69	7.6250	1.13
8F18N48M4Y3H1	18.00	18	480	1	22	47.75	3.69	7.6250	1.13
8F18N56G4S3H1	18.00	18	480	1	22	56.25	10.69	7.6250	1.13
8F24N40M4Y3H1	20.00	24	480	1	24	40.25	3.69	7.6250	1.13
8F18N52M4Y3H1	20.00	18	480	1	24	51.75	5.69	7.6250	1.13
8F18N59M4Y3H1	20.00	18	480	1	24	57.75	12.69	7.6250	1.13
8F18N67G4S3H1	22.50	18	480	1	27	67.25	10.69	7.6250	1.13
8F24N48M4Y3H1	24.00	24	480	1	29	47.75	3.69	7.6250	1.13
8F24N56G4S3H1	24.00	24	480	1	29	56.25	10.69	7.6250	1.13
8F18N64M4Y3H1	25.50	18	480	1	31	64.25	5.69	7.6250	1.13
8F18N73M4Y3H1	25.50	18	480	1	31	71.75	16.69	7.6250	1.13
8F24N52M4Y3H1	26.50	24	480	1	32	51.75	5.69	7.6250	1.13
8F24N59M4Y3H1	26.50	24	480	1	32	57.75	12.69	7.6250	1.13
8F18N80G4S3H1	27.00	18	480	1	32	80.25	12.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N67G4S3H1	30.00	24	480	1	36	67.25	10.69	7.6250	1.13
8F18N77M4Y3H1	30.00	18	480	1	36	76.75	5.69	7.6250	1.13
8F18N88M4Y3H1	33.50	18	480	1	40	88.75	5.69	7.6250	1.13
8F18N95M4Y3H1	33.50	18	480	1	40	93.75	12.69	7.6250	1.13
8F18N100G4S3H1	33.75	18	480	1	41	100.25	12.69	7.6250	1.13
8F24N64M4Y3H1	34.00	24	480	1	41	64.25	5.69	7.6250	1.13
8F24N73M4Y3H1	34.00	24	480	1	41	71.75	16.69	7.6250	1.13
8F24N80G4S3H1	36.00	24	480	1	43	80.25	12.69	7.6250	1.13
8F18N106M4Y3H1	37.75	18	480	1	45	106.25	12.69	7.6250	1.13
8F24N77M4Y3H1	40.00	24	480	1	48	76.75	5.69	7.6250	1.13
8F24N88M4Y3H1	44.75	24	480	2	54	88.75	5.69	7.6250	1.13
8F24N95M4Y3H1	44.75	24	480	2	54	93.75	12.69	7.6250	1.13
8F24N100G4S3H1	45.00	24	480	2	54	100.25	12.69	7.6250	1.13
8F18N120M4Y3H1	46.75	18	480	2	56	120.25	12.69	7.6250	1.13
8F24N106M4Y3H1	50.25	24	480	2	60	106.25	12.69	7.6250	1.13
8F18N140M4Y3H1	52.50	18	480	2	63	140.25	16.69	7.6250	1.13
8F24N120G4S3H1	57.00	24	480	2	69	120.25	12.69	7.6250	1.13
8F18N160M4Y3H1	60.00	18	480	2	72	160.25	16.69	7.6250	1.13
8F24N120M4Y3H1	62.25	24	480	2	75	120.25	12.69	7.6250	1.13
8F24N140G4S3H1	66.00	24	480	2	79	140.25	16.69	7.6250	1.13
8F24N140M4Y3H1	70.00	24	480	2	84	140.25	16.69	7.6250	1.13
8F24N160G4S3H1	78.00	24	480	2	94	160.25	16.69	7.6250	1.13
8F24N160M4Y3H1	80.00	24	480	2	96	160.25	16.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N13M4Y3H1	7.50	30	480	1	9	13.19	3.63	9.7500	1.19
10F36N13M4Y3H1	9.00	36	480	1	11	13.19	3.63	9.7500	1.19
10F30N18M4Y3H1	10.00	30	480	1	12	17.69	3.63	9.7500	1.19
10F36N18M4Y3H1	12.00	36	480	1	14	17.69	3.63	9.7500	1.19
10F30N20M4Y3H1	12.50	30	480	1	15	20.19	3.63	9.7500	1.19
10F36N20M4Y3H1	15.00	36	480	1	18	20.19	3.63	9.7500	1.19
10F30N25M4Y3H1	15.00	30	480	1	18	25.19	3.63	9.7500	1.19
10F36N25M4Y3H1	18.00	36	480	1	22	25.19	3.63	9.7500	1.19
10F30N33M4Y3H1	20.00	30	480	1	24	32.69	3.63	9.7500	1.19
10F30N44G4S3H1	22.50	30	480	1	27	44.19	10.63	9.7500	1.19
10F36N33M4Y3H1	24.00	36	480	1	29	32.69	3.63	9.7500	1.19
10F30N40M4Y3H1	25.00	30	480	1	30	40.19	3.63	9.7500	1.19
10F36N44G4S3H1	27.00	36	480	1	32	44.19	10.63	9.7500	1.19
10F36N40M4Y3H1	30.00	36	480	1	36	40.19	3.63	9.7500	1.19
10F30N48M4Y3H1	30.00	30	480	1	36	47.69	3.63	9.7500	1.19
10F30N56G4S3H1	30.00	30	480	1	36	56.19	10.63	9.7500	1.19
10F30N52M4Y3H1	33.25	30	480	1	40	51.69	5.63	9.7500	1.19
10F30N59M4Y3H1	33.25	30	480	1	40	57.69	12.63	9.7500	1.19
10F36N48M4Y3H1	36.00	36	480	1	43	47.69	3.63	9.7500	1.19
10F36N56G4S3H1	36.00	36	480	1	43	56.19	10.63	9.7500	1.19
10F30N67G4S3H1	37.50	30	480	1	45	67.19	10.63	9.7500	1.19
10F36N52M4Y3H1	40.00	36	480	1	48	51.69	5.63	9.7500	1.19
10F36N59M4Y3H1	40.00	36	480	1	48	57.69	12.63	9.7500	1.19
10F30N64M4Y3H1	42.50	30	480	2	51	64.19	5.63	9.7500	1.19
10F30N73M4Y3H1	42.50	30	480	2	51	71.69	16.63	9.7500	1.19
10F36N67G4S3H1	45.00	36	480	2	54	67.19	10.63	9.7500	1.19
10F30N77M4Y3H1	50.00	30	480	2	60	76.69	5.63	9.7500	1.19
10F36N64M4Y3H1	51.00	36	480	2	61	64.19	5.63	9.7500	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N73M4Y3H1	51.00	36	480	2	61	71.69	16.63	9.7500	1.19
10F36N80G4S3H1	54.00	36	480	2	65	80.19	12.63	9.7500	1.19
10F30N88M4Y3H1	56.00	30	480	2	67	88.69	5.63	9.7500	1.19
10F30N95M4Y3H1	56.00	30	480	2	67	93.69	12.63	9.7500	1.19
10F36N77M4Y3H1	60.00	36	480	2	72	76.69	5.63	9.7500	1.19
10F30N106M4Y3H1	63.00	30	480	2	76	106.19	12.63	9.7500	1.19
10F36N88M4Y3H1	67.00	36	480	2	81	88.69	5.63	9.7500	1.19
10F36N95M4Y3H1	67.00	36	480	2	81	93.69	12.63	9.7500	1.19
10F36N100G4S3H1	67.50	36	480	2	81	100.19	12.63	9.7500	1.19
10F36N106M4Y3H1	75.50	36	480	2	91	106.19	12.63	9.7500	1.19
10F30N120M4Y3H1	78.00	30	480	2	94	120.19	12.63	9.7500	1.19
10F36N120G4S3H1	85.50	36	480	3	103	120.19	12.63	9.7500	1.19
10F36N120M4Y3H1	93.50	36	480	3	112	120.19	12.63	9.7500	1.19
10F36N140G4S3H1	99.00	36	480	3	119	140.19	16.63	9.7500	1.19
10F30N160M4Y3H1	100.00	30	480	5	120	160.19	16.63	9.7500	1.19
10F36N140M4Y3H1	105.00	36	480	3	126	140.19	16.63	9.7500	1.19
10F36N160G4S3H1	117.00	36	480	3	141	160.19	16.63	9.7500	1.19
10F36N160M4Y3H1	120.00	36	480	3	144	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
12F48N44G4S3H1	36.00	48	480	1	43	44.13	10.56	11.7500	1.25
12F48N40M4Y3H1	40.00	48	480	1	48	40.13	3.56	11.7500	1.25
12F48N48M4Y3H1	48.00	48	480	2	58	47.63	3.56	11.7500	1.25
12F48N56G4S3H1	48.00	48	480	2	58	56.13	10.56	11.7500	1.25
12F48N52M4Y3H1	53.25	48	480	2	64	51.63	5.56	11.7500	1.25
12F48N59M4Y3H1	53.25	48	480	2	64	57.63	12.56	11.7500	1.25
12F48N67G4S3H1	60.00	48	480	2	72	67.13	10.56	11.7500	1.25
12F48N64M4Y3H1	68.00	48	480	2	82	64.13	5.56	11.7500	1.25
12F48N73M4Y3H1	68.00	48	480	2	82	71.63	16.56	11.7500	1.25
12F48N80G4S3H1	72.00	48	480	2	87	80.13	12.56	11.7500	1.25
12F48N77M4Y3H1	80.00	48	480	2	96	76.63	5.56	11.7500	1.25
12F54N80G4S3H1	81.00	54	480	3	97	80.13	12.56	11.7500	1.25
12F48N88M4Y3H1	89.50	48	480	4	108	88.63	5.56	11.7500	1.25
12F48N95M4Y3H1	89.50	48	480	4	108	93.63	12.56	11.7500	1.25
12F48N100G4S3H1	90.00	48	480	4	108	100.13	12.56	11.7500	1.25
12F54N88M4Y3H1	100.50	54	480	3	121	88.63	5.56	11.7500	1.25
12F54N95M4Y3H1	100.50	54	480	3	121	93.63	12.56	11.7500	1.25
12F48N106M4Y3H1	100.50	48	480	4	121	106.13	12.56	11.7500	1.25
12F54N100G4S3H1	101.00	54	480	3	121	100.13	12.56	11.7500	1.25
12F54N106M4Y3H1	113.00	54	480	3	136	106.13	12.56	11.7500	1.25
12F48N120G4S3H1	114.00	48	480	4	137	120.13	12.56	11.7500	1.25
12F48N120M4Y3H1	124.50	48	480	4	150	120.13	12.56	11.7500	1.25
12F48N140G4S3H1	132.00	48	480	4	159	140.13	16.56	11.7500	1.25
12F54N120M4Y3H1	140.00	54	480	6	168	120.13	12.56	11.7500	1.25
12F48N140M4Y3H1	140.00	48	480	4	168	140.13	16.56	11.7500	1.25
12F48N160G4S3H1	156.00	48	480	4	188	160.13	16.56	11.7500	1.25
12F54N140M4Y3H1	157.50	54	480	6	189	140.13	16.56	11.7500	1.25
12F48N160M4Y3H1	160.00	48	480	4	192	160.13	16.56	11.7500	1.25
12F54N160M4Y3H1	180.00	54	480	6	217	160.13	16.56	11.7500	1.25

### 14 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
14F54N80G4S3H1	81.00	54	480	3	97	80.00	12.44	13.0000	1.38

## 150# Flanged Immersion Heaters - Type IF

14F54N88M4Y3H1	100.50	54	480	3	121	88.50	5.44	13.0000	1.38
14F54N95M4Y3H1	100.50	54	480	3	121	93.50	12.44	13.0000	1.38
14F54N100G4S3H1	101.00	54	480	3	121	100.00	12.44	13.0000	1.38
14F72N80G4S3H1	108.00	72	480	3	130	80.00	12.44	13.0000	1.38
14F60N88M4Y3H1	112.00	60	480	4	135	88.50	5.44	13.0000	1.38
14F60N95M4Y3H1	112.00	60	480	4	135	93.50	12.44	13.0000	1.38
14F60N100G4S3H1	112.50	60	480	5	135	100.00	12.44	13.0000	1.38
14F54N106M4Y3H1	113.00	54	480	3	136	106.00	12.44	13.0000	1.38
14F60N106M4Y3H1	126.00	60	480	4	152	106.00	12.44	13.0000	1.38
14F72N88M4Y3H1	134.00	72	480	4	161	88.50	5.44	13.0000	1.38
14F72N95M4Y3H1	134.00	72	480	4	161	93.50	12.44	13.0000	1.38
14F72N100G4S3H1	135.00	72	480	4	162	100.00	12.44	13.0000	1.38
14F54N120M4Y3H1	140.00	54	480	6	168	120.00	12.44	13.0000	1.38
14F60N120G4S3H1	142.50	60	480	5	171	120.00	12.44	13.0000	1.38
14F72N106M4Y3H1	151.00	72	480	4	182	106.00	12.44	13.0000	1.38
14F60N120M4Y3H1	156.00	60	480	4	188	120.00	12.44	13.0000	1.38
14F54N140M4Y3H1	157.50	54	480	6	189	140.00	16.44	13.0000	1.38
14F60N140G4S3H1	165.00	60	480	5	198	140.00	16.44	13.0000	1.38
14F72N120G4S3H1	171.00	72	480	6	206	120.00	12.44	13.0000	1.38
14F60N140M4Y3H1	175.00	60	480	5	210	140.00	16.44	13.0000	1.38
14F54N160M4Y3H1	180.00	54	480	6	217	160.00	16.44	13.0000	1.38
14F72N120M4Y3H1	187.00	72	480	6	225	120.00	12.44	13.0000	1.38
14F60N160G4S3H1	195.00	60	480	5	235	160.00	16.44	13.0000	1.38
14F72N140G4S3H1	198.00	72	480	6	238	140.00	16.44	13.0000	1.38
14F60N160M4Y3H1	200.00	60	480	5	241	160.00	16.44	13.0000	1.38
14F72N140M4Y3H1	210.00	72	480	6	253	140.00	16.44	13.0000	1.38
14F72N160G4S3H1	234.00	72	480	6	281	160.00	16.44	13.0000	1.38
14F72N160M4Y3H1	240.00	72	480	6	289	160.00	16.44	13.0000	1.38

### 16 Inch Heaters

Part Number	KW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
16F90N80G4S3H1	135.00	90	480	5	162	79.94	12.38	15.0000	1.44
16F96N80G4S3H1	144.00	96	480	4	173	79.94	12.38	15.0000	1.44
16F84N88M4Y3H1	156.50	84	480	4	188	88.44	5.38	15.0000	1.44
16F84N95M4Y3H1	156.50	84	480	4	188	93.44	12.38	15.0000	1.44
16F84N100G4S3H1	157.50	84	480	7	189	99.94	12.38	15.0000	1.44
16F90N88M4Y3H1	168.00	90	480	5	202	88.44	5.38	15.0000	1.44
16F90N95M4Y3H1	168.00	90	480	5	202	93.44	12.38	15.0000	1.44
16F90N100G4S3H1	168.50	90	480	5	203	99.94	12.38	15.0000	1.44
16F84N106M4Y3H1	176.00	84	480	7	212	105.94	12.38	15.0000	1.44
16F96N88M4Y3H1	179.00	96	480	8	215	88.44	5.38	15.0000	1.44
16F96N95M4Y3H1	179.00	96	480	8	215	93.44	12.38	15.0000	1.44
16F96N100G4S3H1	180.00	96	480	8	217	99.94	12.38	15.0000	1.44
16F90N106M4Y3H1	189.00	90	480	5	227	105.94	12.38	15.0000	1.44
16F84N120G4S3H1	199.50	84	480	7	240	119.94	12.38	15.0000	1.44
16F96N106M4Y3H1	201.50	96	480	8	242	105.94	12.38	15.0000	1.44
16F84N120M4Y3H1	218.00	84	480	7	262	119.94	12.38	15.0000	1.44
16F96N120G4S3H1	228.00	96	480	8	274	119.94	12.38	15.0000	1.44
16F84N140G4S3H1	231.00	84	480	7	278	139.94	16.38	15.0000	1.44
16F90N120M4Y3H1	234.00	90	480	10	281	119.94	12.38	15.0000	1.44
16F84N140M4Y3H1	245.00	84	480	7	295	139.94	16.38	15.0000	1.44
16F96N120M4Y3H1	249.50	96	480	8	300	119.94	12.38	15.0000	1.44
16F90N140M4Y3H1	262.50	90	480	10	316	139.94	16.38	15.0000	1.44
16F96N140G4S3H1	264.00	96	480	8	318	139.94	16.38	15.0000	1.44

## 150# Flanged Immersion Heaters - Type IF

16F84N160G4S3H1	273.00	84	480	7	328	159.94	16.38	15.0000	1.44
16F96N140M4Y3H1	280.00	96	480	8	337	139.94	16.38	15.0000	1.44
16F84N160M4Y3H1	280.00	84	480	7	337	159.94	16.38	15.0000	1.44
16F90N160G4S3H1	292.50	90	480	15	352	159.94	16.38	15.0000	1.44
16F90N160M4Y3H1	300.00	90	480	10	361	159.94	16.38	15.0000	1.44
16F96N160G4S3H1	312.00	96	480	8	375	159.94	16.38	15.0000	1.44
16F96N160M4Y3H1	320.00	96	480	8	385	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88M4Y3H1	201.50	108	480	6	242	88.31	5.25	17.0000	1.56
18F108N95M4Y3H1	201.50	108	480	6	242	93.31	12.25	17.0000	1.56
18F108N100G4S3H1	202.50	108	480	6	244	99.81	12.25	17.0000	1.56
18F108N106M4Y3H1	226.50	108	480	6	272	105.81	12.25	17.0000	1.56
18F108N120G4S3H1	256.50	108	480	9	309	119.81	12.25	17.0000	1.56
18F108N120M4Y3H1	280.50	108	480	9	337	119.81	12.25	17.0000	1.56
18F108N140G4S3H1	297.00	108	480	9	357	139.81	16.25	17.0000	1.56
18F108N140M4Y3H1	315.00	108	480	9	379	139.81	16.25	17.0000	1.56
18F108N160G4S3H1	351.00	108	480	9	422	159.81	16.25	17.0000	1.56
18F108N160M4Y3H1	360.00	108	480	9	433	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88M4Y3H1	224.00	120	480	8	269	88.19	5.13	19.0000	1.69
20F120N95M4Y3H1	224.00	120	480	8	269	93.19	12.13	19.0000	1.69
20F120N100G4S3H1	225.00	120	480	10	271	99.69	12.13	19.0000	1.69
20F126N88M4Y3H1	235.00	126	480	6	283	88.19	5.13	19.0000	1.69
20F126N95M4Y3H1	235.00	126	480	6	283	93.19	12.13	19.0000	1.69
20F126N100G4S3H1	236.00	126	480	7	284	99.69	12.13	19.0000	1.69
20F132N88M4Y3H1	246.00	132	480	11	296	88.19	5.13	19.0000	1.69
20F132N95M4Y3H1	246.00	132	480	11	296	93.19	12.13	19.0000	1.69
20F132N100G4S3H1	247.50	132	480	11	298	99.69	12.13	19.0000	1.69
20F120N106M4Y3H1	252.00	120	480	8	303	105.69	12.13	19.0000	1.69
20F126N106M4Y3H1	264.50	126	480	7	318	105.69	12.13	19.0000	1.69
20F144N88M4Y3H1	268.50	144	480	8	323	88.19	5.13	19.0000	1.69
20F144N95M4Y3H1	268.50	144	480	8	323	93.19	12.13	19.0000	1.69
20F144N100G4S3H1	270.00	144	480	8	325	99.69	12.13	19.0000	1.69
20F132N106M4Y3H1	277.00	132	480	11	333	105.69	12.13	19.0000	1.69
20F120N120G4S3H1	285.00	120	480	10	343	119.69	12.13	19.0000	1.69
20F162N88M4Y3H1	302.00	162	480	9	363	88.19	5.13	19.0000	1.69
20F162N95M4Y3H1	302.00	162	480	9	363	93.19	12.13	19.0000	1.69
20F144N106M4Y3H1	302.00	144	480	8	363	105.69	12.13	19.0000	1.69
20F162N100G4S3H1	303.50	162	480	9	365	99.69	12.13	19.0000	1.69
20F120N120M4Y3H1	312.00	120	480	8	375	119.69	12.13	19.0000	1.69
20F132N120G4S3H1	313.50	132	480	11	377	119.69	12.13	19.0000	1.69
20F126N120M4Y3H1	327.50	126	480	14	394	119.69	12.13	19.0000	1.69
20F120N140G4S3H1	330.00	120	480	10	397	139.69	16.13	19.0000	1.69
20F180N88M4Y3H1	336.00	180	480	10	404	88.19	5.13	19.0000	1.69
20F180N95M4Y3H1	336.00	180	480	10	404	93.19	12.13	19.0000	1.69
20F180N100G4S3H1	337.50	180	480	10	406	99.69	12.13	19.0000	1.69
20F162N106M4Y3H1	340.00	162	480	9	409	105.69	12.13	19.0000	1.69
20F144N120G4S3H1	342.00	144	480	12	411	119.69	12.13	19.0000	1.69
20F132N120M4Y3H1	343.00	132	480	11	413	119.69	12.13	19.0000	1.69
20F120N140M4Y3H1	350.00	120	480	10	421	139.69	16.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F132N140G4S3H1	363.00	132	480	11	437	139.69	16.13	19.0000	1.69
20F126N140M4Y3H1	367.50	126	480	14	442	139.69	16.13	19.0000	1.69
20F144N120M4Y3H1	374.00	144	480	12	450	119.69	12.13	19.0000	1.69
20F180N106M4Y3H1	378.00	180	480	10	455	105.69	12.13	19.0000	1.69
20F132N140M4Y3H1	385.00	132	480	11	463	139.69	16.13	19.0000	1.69
20F120N160G4S3H1	390.00	120	480	10	469	159.69	16.13	19.0000	1.69
20F144N140G4S3H1	396.00	144	480	12	476	139.69	16.13	19.0000	1.69
20F120N160M4Y3H1	400.00	120	480	10	481	159.69	16.13	19.0000	1.69
20F144N140M4Y3H1	420.00	144	480	12	505	139.69	16.13	19.0000	1.69
20F126N160M4Y3H1	420.00	126	480	14	505	159.69	16.13	19.0000	1.69
20F162N120M4Y3H1	421.00	162	480	18	506	119.69	12.13	19.0000	1.69
20F180N120G4S3H1	427.50	180	480	12	514	119.69	12.13	19.0000	1.69
20F132N160G4S3H1	429.00	132	480	11	516	159.69	16.13	19.0000	1.69
20F132N160M4Y3H1	440.00	132	480	11	529	159.69	16.13	19.0000	1.69
20F180N120M4Y3H1	468.00	180	480	12	563	119.69	12.13	19.0000	1.69
20F144N160G4S3H1	468.00	144	480	12	563	159.69	16.13	19.0000	1.69
20F162N140M4Y3H1	472.50	162	480	18	568	139.69	16.13	19.0000	1.69
20F144N160M4Y3H1	480.00	144	480	12	577	159.69	16.13	19.0000	1.69
20F180N140G4S3H1	495.00	180	480	15	595	139.69	16.13	19.0000	1.69
20F180N140M4Y3H1	525.00	180	480	15	631	139.69	16.13	19.0000	1.69
20F162N160M4Y3H1	540.00	162	480	18	650	159.69	16.13	19.0000	1.69
20F180N160G4S3H1	585.00	180	480	15	704	159.69	16.13	19.0000	1.69
20F180N160M4Y3H1	600.00	180	480	15	722	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N88M4Y3H1	358.00	192	480	16	431	88.00	4.94	23.0000	1.88
24F192N95M4Y3H1	358.00	192	480	16	431	93.00	11.94	23.0000	1.88
24F192N100G4S3H1	360.00	192	480	16	433	99.50	11.94	23.0000	1.88
24F216N88M4Y3H1	403.00	216	480	12	485	88.00	4.94	23.0000	1.88
24F216N95M4Y3H1	403.00	216	480	12	485	93.00	11.94	23.0000	1.88
24F192N106M4Y3H1	403.00	192	480	16	485	105.50	11.94	23.0000	1.88
24F216N100G4S3H1	405.00	216	480	12	487	99.50	11.94	23.0000	1.88
24F234N88M4Y3H1	436.50	234	480	13	525	88.00	4.94	23.0000	1.88
24F234N95M4Y3H1	436.50	234	480	13	525	93.00	11.94	23.0000	1.88
24F234N100G4S3H1	438.50	234	480	13	527	99.50	11.94	23.0000	1.88
24F240N88M4Y3H1	448.00	240	480	16	539	88.00	4.94	23.0000	1.88
24F240N95M4Y3H1	448.00	240	480	16	539	93.00	11.94	23.0000	1.88
24F240N100G4S3H1	450.00	240	480	20	541	99.50	11.94	23.0000	1.88
24F216N106M4Y3H1	453.50	216	480	12	545	105.50	11.94	23.0000	1.88
24F192N120G4S3H1	456.00	192	480	16	548	119.50	11.94	23.0000	1.88
24F234N106M4Y3H1	491.00	234	480	13	591	105.50	11.94	23.0000	1.88
24F192N120M4Y3H1	499.00	192	480	16	600	119.50	11.94	23.0000	1.88
24F240N106M4Y3H1	504.00	240	480	16	606	105.50	11.94	23.0000	1.88
24F216N120G4S3H1	513.00	216	480	18	617	119.50	11.94	23.0000	1.88
24F192N140G4S3H1	528.00	192	480	16	635	139.50	15.94	23.0000	1.88
24F192N140M4Y3H1	560.00	192	480	16	674	139.50	15.94	23.0000	1.88
24F216N120M4Y3H1	562.00	216	480	18	676	119.50	11.94	23.0000	1.88
24F240N120G4S3H1	570.00	240	480	20	686	119.50	11.94	23.0000	1.88
24F216N140G4S3H1	594.00	216	480	18	714	139.50	15.94	23.0000	1.88
24F234N120M4Y3H1	608.00	234	480	26	731	119.50	11.94	23.0000	1.88
24F240N120M4Y3H1	624.00	240	480	16	751	119.50	11.94	23.0000	1.88
24F192N160G4S3H1	624.00	192	480	16	751	159.50	15.94	23.0000	1.88
24F216N140M4Y3H1	630.00	216	480	18	758	139.50	15.94	23.0000	1.88

## 150# Flanged Immersion Heaters - Type IF

24F192N160M4Y3H1	640.00	192	480	16	770	159.50	15.94	23.0000	1.88
24F240N140G4S3H1	660.00	240	480	20	794	139.50	15.94	23.0000	1.88
24F234N140M4Y3H1	683.00	234	480	26	822	139.50	15.94	23.0000	1.88
24F240N140M4Y3H1	700.00	240	480	20	842	139.50	15.94	23.0000	1.88
24F216N160G4S3H1	702.00	216	480	18	844	159.50	15.94	23.0000	1.88
24F216N160M4Y3H1	720.00	216	480	18	866	159.50	15.94	23.0000	1.88
24F234N160M4Y3H1	780.00	234	480	26	938	159.50	15.94	23.0000	1.88
24F240N160G4S3H1	780.00	240	480	20	938	159.50	15.94	23.0000	1.88
24F240N160M4Y3H1	800.00	240	480	20	962	159.50	15.94	23.0000	1.88

### 6 Watts/Sq. Inch

#### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N10M2S3H1	0.75	6	240	1	2	10.44	3.88	3.8260	0.94
4F6N13M1S3H1	1.13	6	120	1	5	13.44	3.88	3.8260	0.94
4F6N13M2S3H1	1.13	6	120	1	5	13.44	3.88	3.8260	0.94
4F6N13M4S3H1	1.13	6	480	1	1	13.44	3.88	3.8260	0.94
4F6N18M4S3H1	1.50	6	480	1	2	17.94	3.88	3.8260	0.94
4F6N18M2S3H1	1.50	6	240	1	4	17.94	3.88	3.8260	0.94
4F6N20M2S3H1	1.88	6	240	1	5	19.94	3.88	3.8260	0.94
4F6N20M4S3H1	1.88	6	480	1	2	20.44	3.88	3.8260	0.94
4F6N25M1S3H1	2.25	6	120	1	11	25.44	3.88	3.8260	0.94
4F6N25M2S3H1	2.25	6	240	1	5	25.44	3.88	3.8260	0.94
4F6N25M4S3H1	2.25	6	480	1	3	25.44	3.88	3.8260	0.94
4F6N33M4S3H1	3.00	6	480	1	4	32.94	3.88	3.8260	0.94
4F6N40M2S3H1	3.75	6	240	1	9	40.44	3.88	3.8260	0.94
4F6N40M4S3H1	3.75	6	480	1	5	40.44	3.88	3.8260	0.94
4F6N48M4S3H1	4.50	6	480	1	5	47.94	3.88	3.8260	0.94
4F6N52M4S3H1	5.00	6	480	1	6	51.94	5.88	3.8260	0.94
4F6N52M2S3H1	5.00	6	240	1	12	51.94	5.88	3.8260	0.94
4F6N59M4S3H1	5.00	6	480	1	6	57.94	12.88	3.8260	0.94
4F6N64M4S3H1	6.38	6	480	1	8	64.44	5.88	3.8260	0.94
4F6N64M2S3H1	6.38	6	240	1	15	64.44	5.88	3.8260	0.94
4F6N73M4S3H1	6.38	6	480	1	8	71.94	16.88	3.8260	0.94
4F6N77M2S3H1	7.50	6	240	1	18	76.94	5.88	3.8260	0.94
4F6N77M4S3H1	7.50	6	480	1	9	76.94	5.88	3.8260	0.94
4F6N88M4S3H1	8.38	6	480	1	10	88.94	5.88	3.8260	0.94
4F6N95M4S3H1	8.38	6	480	1	10	93.94	12.88	3.8260	0.94
4F6N106M4S3H1	9.38	6	480	1	11	106.44	12.88	3.8260	0.94
4F6N120M4S3H1	11.50	6	480	1	14	120.44	12.88	3.8260	0.94
4F6N140M4S3H1	13.00	6	480	1	16	140.44	16.88	3.8260	0.94
4F6N160M4S3H1	15.00	6	480	1	18	160.44	16.88	3.8260	0.94

#### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10M2S3H1	1.50	12	240	1	4	10.38	3.81	5.7610	1.00
6F12N13M4S3H1	2.25	12	480	1	3	13.38	3.81	5.7610	1.00
6F12N18M4S3H1	3.00	12	480	1	4	17.88	3.81	5.7610	1.00
6F12N18M2S3H1	3.00	12	240	1	7	17.88	3.81	5.7610	1.00
6F12N20M2S3H1	3.75	12	240	1	9	19.88	3.81	5.7610	1.00
6F12N20M4S3H1	3.75	12	480	1	5	20.38	3.81	5.7610	1.00
6F12N25M2S3H1	4.50	12	240	1	11	25.38	3.81	5.7610	1.00
6F12N25M4S3H1	4.50	12	480	1	5	25.38	3.81	5.7610	1.00
6F12N33M4S3H1	6.00	12	480	1	7	32.88	3.81	5.7610	1.00



## 150# Flanged Immersion Heaters - Type IF

6F12N40M4S3H1	7.50	12	480	1	9	40.38	3.81	5.7610	1.00
6F12N40M2S3H1	7.50	12	240	1	18	40.38	3.81	5.7610	1.00
6F12N48M4S3H1	9.00	12	480	1	11	47.88	3.81	5.7610	1.00
6F12N52M2S3H1	10.00	12	240	1	24	51.88	5.81	5.7610	1.00
6F12N52M4S3H1	10.00	12	480	1	12	51.88	5.81	5.7610	1.00
6F12N59M4S3H1	10.00	12	480	1	12	57.88	12.81	5.7610	1.00
6F12N64M2S3H1	12.75	12	240	1	31	64.38	5.81	5.7610	1.00
6F12N64M4S3H1	12.75	12	480	1	15	64.38	5.81	5.7610	1.00
6F12N73M4S3H1	12.75	12	480	1	15	71.88	16.81	5.7610	1.00
6F12N77M4S3H1	15.00	12	480	1	18	76.88	5.81	5.7610	1.00
6F12N77M2S3H1	15.00	12	240	1	36	76.88	5.81	5.7610	1.00
6F12N88M4S3H1	16.75	12	480	1	20	88.88	5.81	5.7610	1.00
6F12N95M4S3H1	16.75	12	480	1	20	93.88	12.81	5.7610	1.00
6F12N106M4S3H1	18.75	12	480	1	23	106.38	12.81	5.7610	1.00
6F12N120M4S3H1	23.25	12	480	1	28	120.38	12.81	5.7610	1.00
6F12N140M4S3H1	26.25	12	480	1	32	140.38	16.81	5.7610	1.00
6F12N160M4S3H1	30.00	12	480	1	36	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N13M4S3H1	3.38	18	480	1	4	13.25	3.69	7.6250	1.13
8F24N13M4S3H1	4.50	24	480	1	5	13.25	3.69	7.6250	1.13
8F18N18M4S3H1	4.50	18	480	1	5	17.75	3.69	7.6250	1.13
8F18N20M4S3H1	5.63	18	480	1	7	20.25	3.69	7.6250	1.13
8F24N18M4S3H1	6.00	24	480	1	7	17.75	3.69	7.6250	1.13
8F18N25M4S3H1	6.75	18	480	1	8	25.25	3.69	7.6250	1.13
8F24N20M4S3H1	7.50	24	480	1	9	20.25	3.69	7.6250	1.13
8F24N25M4S3H1	9.00	24	480	1	11	25.25	3.69	7.6250	1.13
8F18N33M4S3H1	9.00	18	480	1	11	32.75	3.69	7.6250	1.13
8F18N40M4S3H1	11.25	18	480	1	14	40.25	3.69	7.6250	1.13
8F24N33M4S3H1	12.00	24	480	1	14	32.75	3.69	7.6250	1.13
8F18N48M4S3H1	13.50	18	480	1	16	47.75	3.69	7.6250	1.13
8F24N40M4S3H1	15.00	24	480	1	18	40.25	3.69	7.6250	1.13
8F18N52M4S3H1	15.00	18	480	1	18	51.75	5.69	7.6250	1.13
8F18N59M4S3H1	15.00	18	480	1	18	57.75	12.69	7.6250	1.13
8F24N48M4S3H1	18.00	24	480	1	22	47.75	3.69	7.6250	1.13
8F18N64M4S3H1	19.00	18	480	1	23	64.25	5.69	7.6250	1.13
8F18N73M4S3H1	19.00	18	480	1	23	71.75	16.69	7.6250	1.13
8F24N52M4S3H1	20.00	24	480	1	24	51.75	5.69	7.6250	1.13
8F24N59M4S3H1	20.00	24	480	1	24	57.75	12.69	7.6250	1.13
8F18N77M4S3H1	22.50	18	480	1	27	76.75	5.69	7.6250	1.13
8F18N88M4S3H1	25.00	18	480	1	30	88.75	5.69	7.6250	1.13
8F18N95M4S3H1	25.00	18	480	1	30	93.75	12.69	7.6250	1.13
8F24N64M4S3H1	25.50	24	480	1	31	64.25	5.69	7.6250	1.13
8F24N73M4S3H1	25.50	24	480	1	31	71.75	16.69	7.6250	1.13
8F18N106M4S3H1	28.25	18	480	1	34	106.25	12.69	7.6250	1.13
8F24N77M4S3H1	30.00	24	480	1	36	76.75	5.69	7.6250	1.13
8F24N88M4S3H1	33.50	24	480	1	40	88.75	5.69	7.6250	1.13
8F24N95M4S3H1	33.50	24	480	1	40	93.75	12.69	7.6250	1.13
8F18N120M4S3H1	35.00	18	480	1	42	120.25	12.69	7.6250	1.13
8F24N106M4S3H1	37.75	24	480	1	45	106.25	12.69	7.6250	1.13
8F18N140M4S3H1	39.25	18	480	1	47	140.25	16.69	7.6250	1.13
8F24N120M4S3H1	46.75	24	480	2	56	120.25	12.69	7.6250	1.13
8F24N140M4S3H1	52.50	24	480	2	63	140.25	16.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N160M4S3H1	60.00	24	480	2	72	160.25	16.69	7.6250	1.13
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### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N13M4S3H1	5.63	30	480	1	7	13.19	3.63	9.7500	1.19
10F36N13M4S3H1	6.75	36	480	1	8	13.19	3.63	9.7500	1.19
10F30N18M4S3H1	7.50	30	480	1	9	17.69	3.63	9.7500	1.19
10F36N18M4S3H1	9.00	36	480	1	11	17.69	3.63	9.7500	1.19
10F30N20M4S3H1	9.38	30	480	1	11	20.19	3.63	9.7500	1.19
10F36N20M4S3H1	11.25	36	480	1	14	20.19	3.63	9.7500	1.19
10F30N25M4S3H1	11.25	30	480	1	14	25.19	3.63	9.7500	1.19
10F36N25M4S3H1	13.50	36	480	1	16	25.19	3.63	9.7500	1.19
10F30N33M4S3H1	15.00	30	480	1	18	32.69	3.63	9.7500	1.19
10F36N33M4S3H1	18.00	36	480	1	22	32.69	3.63	9.7500	1.19
10F30N40M4S3H1	18.75	30	480	1	23	40.19	3.63	9.7500	1.19
10F36N40M4S3H1	22.50	36	480	1	27	40.19	3.63	9.7500	1.19
10F30N48M4S3H1	22.50	30	480	1	27	47.69	3.63	9.7500	1.19
10F30N52M4S3H1	25.00	30	480	1	30	51.69	5.63	9.7500	1.19
10F30N59M4S3H1	25.00	30	480	1	30	57.69	12.63	9.7500	1.19
10F36N48M4S3H1	27.00	36	480	1	32	47.69	3.63	9.7500	1.19
10F36N52M4S3H1	30.00	36	480	1	36	51.69	5.63	9.7500	1.19
10F36N59M4S3H1	30.00	36	480	1	36	57.69	12.63	9.7500	1.19
10F30N64M4S3H1	31.75	30	480	1	38	64.19	5.63	9.7500	1.19
10F30N73M4S3H1	31.75	30	480	1	38	71.69	16.63	9.7500	1.19
10F30N77M4S3H1	37.50	30	480	1	45	76.69	5.63	9.7500	1.19
10F36N64M4S3H1	38.25	36	480	1	46	64.19	5.63	9.7500	1.19
10F36N73M4S3H1	38.25	36	480	1	46	71.69	16.63	9.7500	1.19
10F36N77M4S3H1	45.00	36	480	2	54	76.69	5.63	9.7500	1.19
10F36N88M4S3H1	50.25	36	480	2	60	88.69	5.63	9.7500	1.19
10F36N95M4S3H1	50.25	36	480	2	60	93.69	12.63	9.7500	1.19
10F36N106M4S3H1	56.50	36	480	2	68	106.19	12.63	9.7500	1.19
10F36N120M4S3H1	70.00	36	480	2	84	120.19	12.63	9.7500	1.19
10F36N140M4S3H1	78.75	36	480	2	95	140.19	16.63	9.7500	1.19
10F36N160M4S3H1	90.00	36	480	3	108	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N40M4S3H1	30.00	48	480	1	36	40.13	3.56	11.7500	1.25
12F48N48M4S3H1	36.00	48	480	1	43	47.63	3.56	11.7500	1.25
12F48N52M4S3H1	40.00	48	480	1	48	51.63	5.56	11.7500	1.25
12F48N59M4S3H1	40.00	48	480	1	48	57.63	12.56	11.7500	1.25
12F48N64M4S3H1	51.00	48	480	2	61	64.13	5.56	11.7500	1.25
12F48N73M4S3H1	51.00	48	480	2	61	71.63	16.56	11.7500	1.25
12F48N77M4S3H1	60.00	48	480	2	72	76.63	5.56	11.7500	1.25
12F48N88M4S3H1	67.00	48	480	2	81	88.63	5.56	11.7500	1.25
12F48N95M4S3H1	67.00	48	480	2	81	93.63	12.56	11.7500	1.25
12F54N88M4S3H1	75.50	54	480	3	91	88.63	5.56	11.7500	1.25
12F54N95M4S3H1	75.50	54	480	3	91	93.63	12.56	11.7500	1.25
12F48N106M4S3H1	75.50	48	480	2	91	106.13	12.56	11.7500	1.25
12F54N106M4S3H1	85.00	54	480	3	102	106.13	12.56	11.7500	1.25
12F48N120M4S3H1	93.50	48	480	4	112	120.13	12.56	11.7500	1.25
12F54N120M4S3H1	105.00	54	480	3	126	120.13	12.56	11.7500	1.25
12F48N140M4S3H1	105.00	48	480	4	126	140.13	16.56	11.7500	1.25
12F54N140M4S3H1	118.00	54	480	3	142	140.13	16.56	11.7500	1.25

## 150# Flanged Immersion Heaters - Type IF

12F48N160M4S3H1	120.00	48	480	4	144	160.13	16.56	11.7500	1.25
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### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N88M4S3H1	75.50	54	480	3	91	88.50	5.44	13.0000	1.38
14F54N95M4S3H1	75.50	54	480	3	91	93.50	12.44	13.0000	1.38
14F54N106M4S3H1	85.00	54	480	3	102	106.00	12.44	13.0000	1.38
14F72N88M4S3H1	100.50	72	480	3	121	88.50	5.44	13.0000	1.38
14F72N95M4S3H1	100.50	72	480	3	121	93.50	12.44	13.0000	1.38
14F54N120M4S3H1	105.00	54	480	3	126	120.00	12.44	13.0000	1.38
14F72N106M4S3H1	113.00	72	480	3	136	106.00	12.44	13.0000	1.38
14F60N120M4S3H1	117.00	60	480	5	141	120.00	12.44	13.0000	1.38
14F54N140M4S3H1	118.00	54	480	3	142	140.00	16.44	13.0000	1.38
14F60N140M4S3H1	131.00	60	480	5	158	140.00	16.44	13.0000	1.38
14F72N120M4S3H1	140.00	72	480	4	168	120.00	12.44	13.0000	1.38
14F60N160M4S3H1	150.00	60	480	5	180	160.00	16.44	13.0000	1.38
14F72N140M4S3H1	157.50	72	480	4	189	140.00	16.44	13.0000	1.38
14F72N160M4S3H1	180.00	72	480	6	217	160.00	16.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F90N88M4S3H1	126.00	90	480	5	152	88.44	5.38	15.0000	1.44
16F90N95M4S3H1	126.00	90	480	5	152	93.44	12.38	15.0000	1.44
16F96N88M4S3H1	134.00	96	480	4	161	88.44	5.38	15.0000	1.44
16F96N95M4S3H1	134.00	96	480	4	161	93.44	12.38	15.0000	1.44
16F90N106M4S3H1	141.50	90	480	5	170	105.94	12.38	15.0000	1.44
16F96N106M4S3H1	151.00	96	480	4	182	105.94	12.38	15.0000	1.44
16F84N120M4S3H1	163.50	84	480	7	197	119.94	12.38	15.0000	1.44
16F90N120M4S3H1	175.50	90	480	5	211	119.94	12.38	15.0000	1.44
16F84N140M4S3H1	183.50	84	480	7	221	139.94	16.38	15.0000	1.44
16F96N120M4S3H1	187.00	96	480	8	225	119.94	12.38	15.0000	1.44
16F90N140M4S3H1	196.50	90	480	5	236	139.94	16.38	15.0000	1.44
16F96N140M4S3H1	210.00	96	480	8	253	139.94	16.38	15.0000	1.44
16F84N160M4S3H1	210.00	84	480	7	253	159.94	16.38	15.0000	1.44
16F96N160M4S3H1	240.00	96	480	8	289	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88M4S3H1	151.00	108	480	6	182	88.31	5.25	17.0000	1.56
18F108N95M4S3H1	151.00	108	480	6	182	93.31	12.25	17.0000	1.56
18F108N106M4S3H1	170.00	108	480	6	204	105.81	12.25	17.0000	1.56
18F108N120M4S3H1	210.50	108	480	6	253	119.81	12.25	17.0000	1.56
18F108N140M4S3H1	236.00	108	480	6	284	139.81	16.25	17.0000	1.56
18F108N160M4S3H1	270.00	108	480	9	325	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88M4S3H1	168.00	120	480	5	202	88.19	5.13	19.0000	1.69
20F120N95M4S3H1	168.00	120	480	5	202	93.19	12.13	19.0000	1.69
20F126N88M4S3H1	176.00	126	480	7	212	88.19	5.13	19.0000	1.69
20F126N95M4S3H1	176.00	126	480	7	212	93.19	12.13	19.0000	1.69
20F120N106M4S3H1	189.00	120	480	5	227	105.69	12.13	19.0000	1.69
20F126N106M4S3H1	198.00	126	480	7	238	105.69	12.13	19.0000	1.69



## 150# Flanged Immersion Heaters - Type IF

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N18B4Z3H1	1.25	6	480	1	2	17.94	3.88	3.8260	0.94
4F6N20B4Z3H1	1.38	6	480	1	2	19.94	3.88	3.8260	0.94
4F6N25B4Z3H1	1.88	6	480	1	2	25.44	3.88	3.8260	0.94
4F6N25B2Z3H1	1.88	6	240	1	5	25.44	3.88	3.8260	0.94
4F6N33B4Z3H1	2.50	6	480	1	3	32.94	3.88	3.8260	0.94
4F6N33B2Z3H1	2.50	6	240	1	6	32.94	3.88	3.8260	0.94
4F6N38B4Z3H1	3.00	6	480	1	4	38.44	5.88	3.8260	0.94
4F6N36B4Z3H1	3.13	6	480	1	4	35.94	3.88	3.8260	0.94
4F6N43B4Z3H1	3.25	6	480	1	4	42.94	5.88	3.8260	0.94
4F6N52B4Z3H1	4.13	6	480	1	5	51.94	5.88	3.8260	0.94
4F6N52B2Z3H1	4.13	6	240	1	10	51.94	5.88	3.8260	0.94
4F6N57B4Z3H1	4.13	6	480	1	5	56.94	10.88	3.8260	0.94
4F6N61B4Z3H1	5.00	6	480	1	6	61.44	5.88	3.8260	0.94
4F6N68B4Z3H1	5.00	6	480	1	6	68.44	12.88	3.8260	0.94
4F6N88B4Z3H1	7.38	6	480	1	9	88.94	5.88	3.8260	0.94
4F6N106B4Z3H1	8.25	6	480	1	10	106.44	12.88	3.8260	0.94
4F6N120B4Z3H1	9.50	6	480	1	11	120.44	12.88	3.8260	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N18B4Z3H1	2.50	12	480	1	3	17.88	3.81	5.7610	1.00
6F12N20B4Z3H1	2.88	12	480	1	3	19.88	3.81	5.7610	1.00
6F12N25B4Z3H1	3.75	12	480	1	5	25.38	3.81	5.7610	1.00
6F12N25B2Z3H1	3.75	12	240	1	9	25.38	3.81	5.7610	1.00
6F12N33B2Z3H1	5.00	12	240	1	12	32.88	3.81	5.7610	1.00
6F12N33B4Z3H1	5.00	12	480	1	6	32.88	3.81	5.7610	1.00
6F12N38B4Z3H1	6.00	12	480	1	7	38.38	5.81	5.7610	1.00
6F12N36B4Z3H1	6.38	12	480	1	8	35.88	3.81	5.7610	1.00
6F12N43B4Z3H1	6.63	12	480	1	8	42.88	5.81	5.7610	1.00
6F12N52B4Z3H1	8.25	12	480	1	10	51.88	5.81	5.7610	1.00
6F12N52B2Z3H1	8.25	12	240	1	20	51.88	5.81	5.7610	1.00
6F12N57B4Z3H1	8.25	12	480	1	10	56.88	10.81	5.7610	1.00
6F12N61B4Z3H1	10.00	12	480	1	12	61.38	5.81	5.7610	1.00
6F12N68B4Z3H1	10.00	12	480	1	12	68.38	12.81	5.7610	1.00
6F12N88B4Z3H1	14.75	12	480	1	18	88.88	5.81	5.7610	1.00
6F12N106B4Z3H1	16.50	12	480	1	20	106.38	12.81	5.7610	1.00
6F12N120B4Z3H1	19.00	12	480	1	23	120.38	12.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N18B4Z3H1	3.75	18	480	1	5	17.75	3.69	7.6250	1.13
8F18N20B4Z3H1	4.25	18	480	1	5	19.75	3.69	7.6250	1.13
8F24N18B4Z3H1	5.00	24	480	1	6	17.75	3.69	7.6250	1.13
8F24N20B4Z3H1	5.75	24	480	1	7	19.75	3.69	7.6250	1.13
8F18N25B4Z3H1	5.75	18	480	1	7	25.25	3.69	7.6250	1.13
8F18N33B4Z3H1	7.50	18	480	1	9	32.75	3.69	7.6250	1.13
8F24N25B4Z3H1	7.63	24	480	1	9	25.25	3.69	7.6250	1.13
8F18N38B4Z3H1	9.00	18	480	1	11	38.25	5.69	7.6250	1.13
8F18N36B4Z3H1	9.63	18	480	1	12	35.75	3.69	7.6250	1.13
8F24N33B4Z3H1	10.00	24	480	1	12	32.75	3.69	7.6250	1.13
8F18N43B4Z3H1	10.00	18	480	1	12	42.75	5.69	7.6250	1.13
8F24N38B4Z3H1	12.00	24	480	1	14	38.25	5.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N52B4Z3H1	12.50	18	480	1	15	51.75	5.69	7.6250	1.13
8F18N57B4Z3H1	12.50	18	480	1	15	56.75	10.69	7.6250	1.13
8F24N36B4Z3H1	12.75	24	480	1	15	35.75	3.69	7.6250	1.13
8F24N43B4Z3H1	13.25	24	480	1	16	42.75	5.69	7.6250	1.13
8F18N61B4Z3H1	15.00	18	480	1	18	61.25	5.69	7.6250	1.13
8F18N68B4Z3H1	15.00	18	480	1	18	68.25	12.69	7.6250	1.13
8F24N52B4Z3H1	16.50	24	480	1	20	51.75	5.69	7.6250	1.13
8F24N57B4Z3H1	16.50	24	480	1	20	56.75	10.69	7.6250	1.13
8F24N61B4Z3H1	20.00	24	480	1	24	61.25	5.69	7.6250	1.13
8F24N68B4Z3H1	20.00	24	480	1	24	68.25	12.69	7.6250	1.13
8F18N88B4Z3H1	22.00	18	480	1	26	88.75	5.69	7.6250	1.13
8F18N106B4Z3H1	25.00	18	480	1	30	106.25	12.69	7.6250	1.13
8F18N120B4Z3H1	28.50	18	480	1	34	120.25	12.69	7.6250	1.13
8F24N88B4Z3H1	29.50	24	480	1	35	88.75	5.69	7.6250	1.13
8F24N106B4Z3H1	33.25	24	480	1	40	106.25	12.69	7.6250	1.13
8F24N120B4Z3H1	38.00	24	480	1	46	120.25	12.69	7.6250	1.13

### 10 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
10F30N18B4Z3H1	6.25	30	480	1	8	17.69	3.63	9.7500	1.19
10F30N20B4Z3H1	7.25	30	480	1	9	19.69	3.63	9.7500	1.19
10F36N18B4Z3H1	7.50	36	480	1	9	17.69	3.63	9.7500	1.19
10F36N20B4Z3H1	8.63	36	480	1	10	19.69	3.63	9.7500	1.19
10F30N25B4Z3H1	9.63	30	480	1	12	25.19	3.63	9.7500	1.19
10F36N25B4Z3H1	11.50	36	480	1	14	25.19	3.63	9.7500	1.19
10F30N33B4Z3H1	12.50	30	480	1	15	32.69	3.63	9.7500	1.19
10F36N33B4Z3H1	15.00	36	480	1	18	32.69	3.63	9.7500	1.19
10F30N38B4Z3H1	15.00	30	480	1	18	38.19	5.63	9.7500	1.19
10F30N36B4Z3H1	16.00	30	480	1	19	35.69	3.63	9.7500	1.19
10F30N43B4Z3H1	16.50	30	480	1	20	42.69	5.63	9.7500	1.19
10F36N38B4Z3H1	18.00	36	480	1	22	38.19	5.63	9.7500	1.19
10F36N36B4Z3H1	19.25	36	480	1	23	35.69	3.63	9.7500	1.19
10F36N43B4Z3H1	20.00	36	480	1	24	42.69	5.63	9.7500	1.19
10F30N52B4Z3H1	20.75	30	480	1	25	51.69	5.63	9.7500	1.19
10F30N57B4Z3H1	20.75	30	480	1	25	56.69	10.63	9.7500	1.19
10F36N52B4Z3H1	25.00	36	480	1	30	51.69	5.63	9.7500	1.19
10F36N57B4Z3H1	25.00	36	480	1	30	56.69	10.63	9.7500	1.19
10F30N61B4Z3H1	25.00	30	480	1	30	61.19	5.63	9.7500	1.19
10F30N68B4Z3H1	25.00	30	480	1	30	68.19	12.63	9.7500	1.19
10F36N61B4Z3H1	30.00	36	480	1	36	61.19	5.63	9.7500	1.19
10F36N68B4Z3H1	30.00	36	480	1	36	68.19	12.63	9.7500	1.19
10F30N88B4Z3H1	37.00	30	480	1	45	88.69	5.63	9.7500	1.19
10F36N88B4Z3H1	44.25	36	480	2	53	88.69	5.63	9.7500	1.19
10F36N106B4Z3H1	50.00	36	480	2	60	106.19	12.63	9.7500	1.19
10F36N120B4Z3H1	57.00	36	480	2	69	120.19	12.63	9.7500	1.19

### 12 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
12F48N43B4Z3H1	26.50	48	480	1	32	42.63	5.56	11.7500	1.25
12F48N52B4Z3H1	33.25	48	480	1	40	51.63	5.56	11.7500	1.25
12F48N57B4Z3H1	33.25	48	480	1	40	56.63	10.56	11.7500	1.25
12F48N61B4Z3H1	40.00	48	480	1	48	61.13	5.56	11.7500	1.25
12F48N68B4Z3H1	40.00	48	480	1	48	68.13	12.56	11.7500	1.25
12F48N88B4Z3H1	59.00	48	480	2	71	88.63	5.56	11.7500	1.25

## 150# Flanged Immersion Heaters - Type IF

12F54N88B4Z3H1	66.50	54	480	3	80	88.63	5.56	11.7500	1.25
12F48N106B4Z3H1	66.50	48	480	2	80	106.13	12.56	11.7500	1.25
12F54N106B4Z3H1	75.00	54	480	3	90	106.13	12.56	11.7500	1.25
12F48N120B4Z3H1	76.00	48	480	2	91	120.13	12.56	11.7500	1.25
12F54N120B4Z3H1	85.50	54	480	3	103	120.13	12.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N88B4Z3H1	66.50	54	480	3	80	88.50	5.44	13.0000	1.38
14F60N88B4Z3H1	74.00	60	480	2	89	88.50	5.44	13.0000	1.38
14F54N106B4Z3H1	75.00	54	480	3	90	106.00	12.44	13.0000	1.38
14F54N120B4Z3H1	85.50	54	480	3	103	120.00	12.44	13.0000	1.38
14F72N88B4Z3H1	88.75	72	480	3	107	88.50	5.44	13.0000	1.38
14F72N106B4Z3H1	100.00	72	480	3	120	106.00	12.44	13.0000	1.38
14F72N120B4Z3H1	114.00	72	480	3	137	120.00	12.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F90N88B4Z3H1	111.00	90	480	3	134	88.44	5.38	15.0000	1.44
16F96N88B4Z3H1	118.00	96	480	4	142	88.44	5.38	15.0000	1.44
16F90N106B4Z3H1	125.00	90	480	5	150	105.94	12.38	15.0000	1.44
16F96N106B4Z3H1	133.00	96	480	4	160	105.94	12.38	15.0000	1.44
16F90N120B4Z3H1	142.50	90	480	5	171	119.94	12.38	15.0000	1.44
16F96N120B4Z3H1	152.00	96	480	4	183	119.94	12.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88B4Z3H1	133.00	108	480	6	160	88.31	5.25	17.0000	1.56
18F108N106B4Z3H1	150.00	108	480	6	180	105.81	12.25	17.0000	1.56
18F108N120B4Z3H1	171.00	108	480	6	206	119.81	12.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88B4Z3H1	148.00	120	480	4	178	88.19	5.13	19.0000	1.69
20F126N88B4Z3H1	155.00	126	480	7	186	88.19	5.13	19.0000	1.69
20F120N106B4Z3H1	166.50	120	480	5	200	105.69	12.13	19.0000	1.69
20F126N106B4Z3H1	175.00	126	480	7	210	105.69	12.13	19.0000	1.69
20F144N88B4Z3H1	177.50	144	480	6	214	88.19	5.13	19.0000	1.69
20F120N120B4Z3H1	190.00	120	480	5	229	119.69	12.13	19.0000	1.69
20F162N88B4Z3H1	199.50	162	480	9	240	88.19	5.13	19.0000	1.69
20F126N120B4Z3H1	199.50	126	480	7	240	119.69	12.13	19.0000	1.69
20F144N106B4Z3H1	200.00	144	480	6	241	105.69	12.13	19.0000	1.69
20F180N88B4Z3H1	222.00	180	480	6	267	88.19	5.13	19.0000	1.69
20F162N106B4Z3H1	225.00	162	480	9	271	105.69	12.13	19.0000	1.69
20F144N120B4Z3H1	228.00	144	480	6	274	119.69	12.13	19.0000	1.69
20F180N106B4Z3H1	250.00	180	480	10	301	105.69	12.13	19.0000	1.69
20F162N120B4Z3H1	256.50	162	480	9	309	119.69	12.13	19.0000	1.69
20F180N120B4Z3H1	285.00	180	480	10	343	119.69	12.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N88B4Z3H1	236.50	192	480	8	284	88.00	4.94	23.0000	1.88
24F216N88B4Z3H1	266.00	216	480	9	320	88.00	4.94	23.0000	1.88

## 150# Flanged Immersion Heaters - Type IF

24F192N106B4Z3H1	266.50	192	480	8	321	105.50	11.94	23.0000	1.88
24F234N88B4Z3H1	288.50	234	480	13	347	88.00	4.94	23.0000	1.88
24F240N88B4Z3H1	296.00	240	480	8	356	88.00	4.94	23.0000	1.88
24F216N106B4Z3H1	300.00	216	480	9	361	105.50	11.94	23.0000	1.88
24F192N120B4Z3H1	304.00	192	480	8	366	119.50	11.94	23.0000	1.88
24F234N106B4Z3H1	325.00	234	480	13	391	105.50	11.94	23.0000	1.88
24F240N106B4Z3H1	333.00	240	480	10	401	105.50	11.94	23.0000	1.88
24F216N120B4Z3H1	342.00	216	480	12	411	119.50	11.94	23.0000	1.88
24F234N120B4Z3H1	370.50	234	480	13	446	119.50	11.94	23.0000	1.88
24F240N120B4Z3H1	380.00	240	480	10	457	119.50	11.94	23.0000	1.88

### 4 Watts/Sq. Inch

#### 4 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
4F6N10H4Z3H1	0.50	6	480	1	1	10.44	3.88	3.8260	0.94
4F6N18H2Z3H1	1.00	6	240	1	2	17.94	3.88	3.8260	0.94
4F6N18H4Z3H1	1.00	6	480	1	1	17.94	3.88	3.8260	0.94
4F6N20H4Z3H1	1.25	6	480	1	2	19.94	3.88	3.8260	0.94
4F6N20H2Z3H1	1.25	6	240	1	3	19.94	3.88	3.8260	0.94
4F6N25H2Z3H1	1.50	6	240	1	4	25.44	3.88	3.8260	0.94
4F6N25H4Z3H1	1.50	6	480	1	2	25.44	3.88	3.8260	0.94
4F6N33H4Z3H1	2.00	6	480	1	2	32.94	3.88	3.8260	0.94
4F6N33H2Z3H1	2.00	6	240	1	5	32.94	3.88	3.8260	0.94
4F6N40H2Z3H1	2.50	6	240	1	6	40.44	3.88	3.8260	0.94
4F6N40H4Z3H1	2.50	6	480	1	3	40.44	3.88	3.8260	0.94
4F6N48H4Z3H1	3.00	6	480	1	4	47.94	3.88	3.8260	0.94
4F6N52H4Z3H1	3.00	6	480	1	4	51.94	5.88	3.8260	0.94
4F6N61H4Z3H1	4.13	6	480	1	5	61.44	5.88	3.8260	0.94
4F6N68H4Z3H1	4.13	6	480	1	5	68.44	12.88	3.8260	0.94
4F6N80H4Z3H1	5.50	6	480	1	7	78.94	10.88	3.8260	0.94
4F6N88H4Z3H1	6.25	6	480	1	8	88.94	5.88	3.8260	0.94
4F6N95H4Z3H1	6.25	6	480	1	8	95.94	12.88	3.8260	0.94
4F6N120H4Z3H1	7.50	6	480	1	9	120.44	14.38	3.8260	0.94
4F6N140H4Z3H1	8.75	6	480	1	11	140.44	16.88	3.8260	0.94
4F6N160H4Z3H1	10.00	6	480	1	12	160.44	16.88	3.8260	0.94

#### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10H4Z3H1	1.00	12	480	1	1	10.38	3.81	5.7610	1.00
6F12N18H4Z3H1	2.00	12	480	1	2	17.88	3.81	5.7610	1.00
6F12N18H2Z3H1	2.00	12	240	1	5	17.88	3.81	5.7610	1.00
6F12N20H2Z3H1	2.50	12	240	1	6	19.88	3.81	5.7610	1.00
6F12N20H4Z3H1	2.50	12	480	1	3	19.88	3.81	5.7610	1.00
6F12N25H2Z3H1	3.00	12	240	1	7	25.38	3.81	5.7610	1.00
6F12N25H4Z3H1	3.00	12	480	1	4	25.38	3.81	5.7610	1.00
6F12N33H2Z3H1	4.00	12	240	1	10	32.88	3.81	5.7610	1.00
6F12N33H4Z3H1	4.00	12	480	1	5	32.88	3.81	5.7610	1.00
6F12N40H2Z3H1	5.00	12	240	1	12	40.38	3.81	5.7610	1.00
6F12N40H4Z3H1	5.00	12	480	1	6	40.38	3.81	5.7610	1.00
6F12N48H4Z3H1	6.00	12	480	1	7	47.88	3.81	5.7610	1.00
6F12N52H4Z3H1	6.00	12	480	1	7	51.88	5.81	5.7610	1.00
6F12N61H4Z3H1	8.25	12	480	1	10	61.38	5.81	5.7610	1.00
6F12N68H4Z3H1	8.25	12	480	1	10	68.38	12.81	5.7610	1.00
6F12N80H4Z3H1	11.00	12	480	1	13	78.88	10.81	5.7610	1.00



## 150# Flanged Immersion Heaters - Type IF

6F12N88H4Z3H1	12.50	12	480	1	15	88.88	5.81	5.7610	1.00
6F12N95H4Z3H1	12.50	12	480	1	15	95.88	12.81	5.7610	1.00
6F12N120H4Z3H1	15.00	12	480	1	18	120.38	14.31	5.7610	1.00
6F12N140H4Z3H1	17.50	12	480	1	21	140.38	16.81	5.7610	1.00
6F12N160H4Z3H1	20.00	12	480	1	24	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N10H4Z3H1	1.50	18	480	1	2	10.25	3.69	7.6250	1.13
8F24N10H4Z3H1	2.00	24	480	1	2	10.25	3.69	7.6250	1.13
8F18N18H4Z3H1	3.00	18	480	1	4	17.75	3.69	7.6250	1.13
8F18N20H4Z3H1	3.75	18	480	1	5	19.75	3.69	7.6250	1.13
8F24N18H4Z3H1	4.00	24	480	1	5	17.75	3.69	7.6250	1.13
8F18N25H4Z3H1	4.50	18	480	1	5	25.25	3.69	7.6250	1.13
8F24N20H4Z3H1	5.00	24	480	1	6	19.75	3.69	7.6250	1.13
8F24N25H4Z3H1	6.00	24	480	1	7	25.25	3.69	7.6250	1.13
8F18N33H4Z3H1	6.00	18	480	1	7	32.75	3.69	7.6250	1.13
8F18N40H4Z3H1	7.50	18	480	1	9	40.25	3.69	7.6250	1.13
8F24N33H4Z3H1	8.00	24	480	1	10	32.75	3.69	7.6250	1.13
8F18N48H4Z3H1	9.00	18	480	1	11	47.75	3.69	7.6250	1.13
8F18N52H4Z3H1	9.00	18	480	1	11	51.75	5.69	7.6250	1.13
8F24N40H4Z3H1	10.00	24	480	1	12	40.25	3.69	7.6250	1.13
8F24N48H4Z3H1	12.00	24	480	1	14	47.75	3.69	7.6250	1.13
8F24N52H4Z3H1	12.00	24	480	1	14	51.75	5.69	7.6250	1.13
8F18N61H4Z3H1	12.50	18	480	1	15	61.25	5.69	7.6250	1.13
8F18N68H4Z3H1	12.50	18	480	1	15	68.25	12.69	7.6250	1.13
8F24N61H4Z3H1	16.50	24	480	1	20	61.25	5.69	7.6250	1.13
8F24N68H4Z3H1	16.50	24	480	1	20	68.25	12.69	7.6250	1.13
8F18N80H4Z3H1	16.50	18	480	1	20	78.75	10.69	7.6250	1.13
8F18N88H4Z3H1	18.75	18	480	1	23	88.75	5.69	7.6250	1.13
8F18N95H4Z3H1	18.75	18	480	1	23	95.75	12.69	7.6250	1.13
8F24N80H4Z3H1	22.00	24	480	1	26	78.75	10.69	7.6250	1.13
8F18N120H4Z3H1	22.50	18	480	1	27	120.25	14.19	7.6250	1.13
8F24N88H4Z3H1	25.00	24	480	1	30	88.75	5.69	7.6250	1.13
8F24N95H4Z3H1	25.00	24	480	1	30	95.75	12.69	7.6250	1.13
8F18N140H4Z3H1	26.25	18	480	1	32	140.25	16.69	7.6250	1.13
8F24N120H4Z3H1	30.00	24	480	1	36	120.25	14.19	7.6250	1.13
8F18N160H4Z3H1	30.00	18	480	1	36	160.25	16.69	7.6250	1.13
8F24N140H4Z3H1	35.00	24	480	1	42	140.25	16.69	7.6250	1.13
8F24N160H4Z3H1	40.00	24	480	1	48	160.25	16.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N10H4Z3H1	2.50	30	480	1	3	10.19	3.63	9.7500	1.19
10F36N10H4Z3H1	3.00	36	480	1	4	10.19	3.63	9.7500	1.19
10F30N18H4Z3H1	5.00	30	480	1	6	17.69	3.63	9.7500	1.19
10F36N18H4Z3H1	6.00	36	480	1	7	17.69	3.63	9.7500	1.19
10F30N20H4Z3H1	6.25	30	480	1	8	19.69	3.63	9.7500	1.19
10F36N20H4Z3H1	7.50	36	480	1	9	19.69	3.63	9.7500	1.19
10F30N25H4Z3H1	7.50	30	480	1	9	25.19	3.63	9.7500	1.19
10F36N25H4Z3H1	9.00	36	480	1	11	25.19	3.63	9.7500	1.19
10F30N33H4Z3H1	10.00	30	480	1	12	32.69	3.63	9.7500	1.19
10F36N33H4Z3H1	12.00	36	480	1	14	32.69	3.63	9.7500	1.19
10F30N40H4Z3H1	12.50	30	480	1	15	40.19	3.63	9.7500	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N40H4Z3H1	15.00	36	480	1	18	40.19	3.63	9.7500	1.19
10F30N48H4Z3H1	15.00	30	480	1	18	47.69	3.63	9.7500	1.19
10F30N52H4Z3H1	15.00	30	480	1	18	51.69	5.63	9.7500	1.19
10F36N48H4Z3H1	18.00	36	480	1	22	47.69	3.63	9.7500	1.19
10F36N52H4Z3H1	18.00	36	480	1	22	51.69	5.63	9.7500	1.19
10F30N61H4Z3H1	20.75	30	480	1	25	61.19	5.63	9.7500	1.19
10F30N68H4Z3H1	20.75	30	480	1	25	68.19	12.63	9.7500	1.19
10F36N61H4Z3H1	25.00	36	480	1	30	61.19	5.63	9.7500	1.19
10F36N68H4Z3H1	25.00	36	480	1	30	68.19	12.63	9.7500	1.19
10F30N80H4Z3H1	27.75	30	480	1	33	78.69	10.63	9.7500	1.19
10F30N88H4Z3H1	31.25	30	480	1	38	88.69	5.63	9.7500	1.19
10F30N95H4Z3H1	31.25	30	480	1	38	95.69	12.63	9.7500	1.19
10F36N80H4Z3H1	33.25	36	480	1	40	78.69	10.63	9.7500	1.19
10F36N88H4Z3H1	37.50	36	480	1	45	88.69	5.63	9.7500	1.19
10F36N95H4Z3H1	37.50	36	480	1	45	95.69	12.63	9.7500	1.19
10F30N120H4Z3H1	37.50	30	480	1	45	120.19	14.13	9.7500	1.19
10F36N120H4Z3H1	45.00	36	480	2	54	120.19	14.13	9.7500	1.19
10F36N140H4Z3H1	52.50	36	480	2	63	140.19	16.63	9.7500	1.19
10F36N160H4Z3H1	60.00	36	480	2	72	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N40H4Z3H1	20.00	48	480	1	24	40.13	3.56	11.7500	1.25
12F48N48H4Z3H1	24.00	48	480	1	29	47.63	3.56	11.7500	1.25
12F48N52H4Z3H1	24.00	48	480	1	29	51.63	5.56	11.7500	1.25
12F48N61H4Z3H1	33.25	48	480	1	40	61.13	5.56	11.7500	1.25
12F48N68H4Z3H1	33.25	48	480	1	40	68.13	12.56	11.7500	1.25
12F48N80H4Z3H1	44.25	48	480	2	53	78.63	10.56	11.7500	1.25
12F48N88H4Z3H1	50.00	48	480	2	60	88.63	5.56	11.7500	1.25
12F48N95H4Z3H1	50.00	48	480	2	60	95.63	12.56	11.7500	1.25
12F48N120H4Z3H1	60.00	48	480	2	72	120.13	14.06	11.7500	1.25
12F54N120H4Z3H1	67.50	54	480	3	81	120.13	14.06	11.7500	1.25
12F48N140H4Z3H1	70.00	48	480	2	84	140.13	16.56	11.7500	1.25
12F54N140H4Z3H1	78.75	54	480	3	95	140.13	16.56	11.7500	1.25
12F48N160H4Z3H1	80.00	48	480	2	96	160.13	16.56	11.7500	1.25
12F54N160H4Z3H1	90.00	54	480	3	108	160.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F60N80H4Z3H1	55.50	60	480	2	67	78.50	10.44	13.0000	1.38
14F60N88H4Z3H1	62.50	60	480	2	75	88.50	5.44	13.0000	1.38
14F60N95H4Z3H1	62.50	60	480	2	75	95.50	12.44	13.0000	1.38
14F72N80H4Z3H1	66.50	72	480	2	80	78.50	10.44	13.0000	1.38
14F54N120H4Z3H1	67.50	54	480	3	81	120.00	13.94	13.0000	1.38
14F72N88H4Z3H1	75.00	72	480	2	90	88.50	5.44	13.0000	1.38
14F72N95H4Z3H1	75.00	72	480	2	90	95.50	12.44	13.0000	1.38
14F60N120H4Z3H1	75.00	60	480	2	90	120.00	13.94	13.0000	1.38
14F54N140H4Z3H1	78.75	54	480	3	95	140.00	16.44	13.0000	1.38
14F72N120H4Z3H1	90.00	72	480	3	108	120.00	13.94	13.0000	1.38
14F54N160H4Z3H1	90.00	54	480	3	108	160.00	16.44	13.0000	1.38
14F60N160H4Z3H1	100.00	60	480	5	120	160.00	16.44	13.0000	1.38
14F72N140H4Z3H1	105.00	72	480	3	126	140.00	16.44	13.0000	1.38
14F72N160H4Z3H1	120.00	72	480	3	144	160.00	16.44	13.0000	1.38

## 150# Flanged Immersion Heaters - Type IF

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N80H4Z3H1	77.50	84	480	2	93	78.44	10.38	15.0000	1.44
16F90N80H4Z3H1	83.25	90	480	3	100	78.44	10.38	15.0000	1.44
16F96N80H4Z3H1	88.75	96	480	4	107	78.44	10.38	15.0000	1.44
16F90N88H4Z3H1	93.75	90	480	3	113	88.44	5.38	15.0000	1.44
16F90N95H4Z3H1	93.75	90	480	3	113	95.44	12.38	15.0000	1.44
16F96N88H4Z3H1	100.00	96	480	4	120	88.44	5.38	15.0000	1.44
16F96N95H4Z3H1	100.00	96	480	4	120	95.44	12.38	15.0000	1.44
16F90N120H4Z3H1	112.50	90	480	3	135	119.94	13.88	15.0000	1.44
16F96N120H4Z3H1	120.00	96	480	4	144	119.94	13.88	15.0000	1.44
16F90N140H4Z3H1	131.00	90	480	5	158	139.94	16.38	15.0000	1.44
16F96N140H4Z3H1	140.00	96	480	4	168	139.94	16.38	15.0000	1.44
16F84N160H4Z3H1	140.00	84	480	7	168	159.94	16.38	15.0000	1.44
16F90N160H4Z3H1	150.00	90	480	5	180	159.94	16.38	15.0000	1.44
16F96N160H4Z3H1	160.00	96	480	4	192	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88H4Z3H1	112.50	108	480	3	135	88.31	5.25	17.0000	1.56
18F108N95H4Z3H1	112.50	108	480	3	135	95.31	12.25	17.0000	1.56
18F108N120H4Z3H1	135.00	108	480	6	162	119.81	13.75	17.0000	1.56
18F108N140H4Z3H1	157.50	108	480	6	189	139.81	16.25	17.0000	1.56
18F108N160H4Z3H1	180.00	108	480	6	217	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88H4Z3H1	125.00	120	480	4	150	88.19	5.13	19.0000	1.69
20F120N95H4Z3H1	125.00	120	480	4	150	95.19	12.13	19.0000	1.69
20F144N88H4Z3H1	150.00	144	480	4	180	88.19	5.13	19.0000	1.69
20F144N95H4Z3H1	150.00	144	480	4	180	95.19	12.13	19.0000	1.69
20F120N120H4Z3H1	150.00	120	480	4	180	119.69	13.63	19.0000	1.69
20F126N120H4Z3H1	157.50	126	480	7	189	119.69	13.63	19.0000	1.69
20F120N140H4Z3H1	175.00	120	480	5	210	139.69	16.13	19.0000	1.69
20F144N120H4Z3H1	180.00	144	480	6	217	119.69	13.63	19.0000	1.69
20F126N140H4Z3H1	183.50	126	480	7	221	139.69	16.13	19.0000	1.69
20F180N88H4Z3H1	187.50	180	480	5	226	88.19	5.13	19.0000	1.69
20F180N95H4Z3H1	187.50	180	480	5	226	95.19	12.13	19.0000	1.69
20F120N160H4Z3H1	200.00	120	480	5	241	159.69	16.13	19.0000	1.69
20F162N120H4Z3H1	202.50	162	480	9	244	119.69	13.63	19.0000	1.69
20F144N140H4Z3H1	210.00	144	480	6	253	139.69	16.13	19.0000	1.69
20F126N160H4Z3H1	210.00	126	480	7	253	159.69	16.13	19.0000	1.69
20F132N160H4Z3H1	220.00	132	480	11	265	159.69	16.13	19.0000	1.69
20F180N120H4Z3H1	225.00	180	480	6	271	119.69	13.63	19.0000	1.69
20F162N140H4Z3H1	236.00	162	480	9	284	139.69	16.13	19.0000	1.69
20F144N160H4Z3H1	240.00	144	480	6	289	159.69	16.13	19.0000	1.69
20F180N140H4Z3H1	262.50	180	480	10	316	139.69	16.13	19.0000	1.69
20F162N160H4Z3H1	270.00	162	480	9	325	159.69	16.13	19.0000	1.69
20F180N160H4Z3H1	300.00	180	480	10	361	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N88H4Z3H1	200.00	192	480	8	241	88.00	4.94	23.0000	1.88

## 150# Flanged Immersion Heaters - Type IF

24F192N95H4Z3H1	200.00	192	480	8	241	95.00	11.94	23.0000	1.88
24F216N88H4Z3H1	225.00	216	480	6	271	88.00	4.94	23.0000	1.88
24F216N95H4Z3H1	225.00	216	480	6	271	95.00	11.94	23.0000	1.88
24F192N120H4Z3H1	240.00	192	480	8	289	119.50	13.44	23.0000	1.88
24F240N88H4Z3H1	250.00	240	480	8	301	88.00	4.94	23.0000	1.88
24F240N95H4Z3H1	250.00	240	480	8	301	95.00	11.94	23.0000	1.88
24F216N120H4Z3H1	270.00	216	480	9	325	119.50	13.44	23.0000	1.88
24F192N140H4Z3H1	280.00	192	480	8	337	139.50	15.94	23.0000	1.88
24F234N120H4Z3H1	292.50	234	480	13	352	119.50	13.44	23.0000	1.88
24F240N120H4Z3H1	300.00	240	480	8	361	119.50	13.44	23.0000	1.88
24F216N140H4Z3H1	315.00	216	480	9	379	139.50	15.94	23.0000	1.88
24F192N160H4Z3H1	320.00	192	480	8	385	159.50	15.94	23.0000	1.88
24F234N140H4Z3H1	341.00	234	480	13	410	139.50	15.94	23.0000	1.88
24F240N140H4Z3H1	350.00	240	480	10	421	139.50	15.94	23.0000	1.88
24F216N160H4Z3H1	360.00	216	480	12	433	159.50	15.94	23.0000	1.88
24F234N160H4Z3H1	390.00	234	480	13	469	159.50	15.94	23.0000	1.88
24F240N160H4Z3H1	400.00	240	480	10	481	159.50	15.94	23.0000	1.88

### 3 Watts/Sq. Inch

#### 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N44G4Z3H1	1.50	6	480	1	2	44.44	10.88	3.8260	0.94
4F6N48F4Z3H1	1.63	6	480	1	2	48.44	16.88	3.8260	0.94
4F6N56G4Z3H1	2.00	6	480	1	2	56.44	10.88	3.8260	0.94
4F6N61F4Z3H1	2.50	6	480	1	3	61.44	13.88	3.8260	0.94
4F6N67G4Z3H1	2.50	6	480	1	3	67.44	10.88	3.8260	0.94
4F6N80G4Z3H1	3.00	6	480	1	4	80.44	12.88	3.8260	0.94
4F6N77F4Z3H1	3.25	6	480	1	4	77.44	13.88	3.8260	0.94
4F6N84F4Z3H1	3.25	6	240	1	8	84.44	16.88	3.8260	0.94
4F6N100G4Z3H1	3.75	6	480	1	5	100.44	12.88	3.8260	0.94
4F6N93F4Z3H1	4.13	6	480	1	5	93.44	13.88	3.8260	0.94
4F6N120G4Z3H1	4.75	6	480	1	6	120.44	12.88	3.8260	0.94
4F6N111F4Z3H1	5.00	6	240	1	12	-1.06	16.88	3.8260	0.94
4F6N120F4Z3H1	5.00	6	480	1	6	111.44	16.88	3.8260	0.94
4F6N140G4Z3H1	5.50	6	480	1	7	140.44	16.88	3.8260	0.94
4F6N160G4Z3H1	6.50	6	480	1	8	160.44	16.88	3.8260	0.94
4F6N144F4Z3H1	6.63	6	480	1	8	144.44	16.88	3.8260	0.94

#### 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N44G4Z3H1	3.00	12	480	1	4	44.38	10.81	5.7610	1.00
6F12N48F4Z3H1	3.25	12	480	1	4	48.38	16.81	5.7610	1.00
6F12N56G4Z3H1	4.00	12	480	1	5	56.38	10.81	5.7610	1.00
6F12N61F4Z3H1	5.00	12	480	1	6	61.38	13.81	5.7610	1.00
6F12N67G4Z3H1	5.00	12	480	1	6	67.38	10.81	5.7610	1.00
6F12N80G4Z3H1	6.00	12	480	1	7	80.38	12.81	5.7610	1.00
6F12N77F4Z3H1	6.63	12	480	1	8	77.38	13.81	5.7610	1.00
6F12N84F4Z3H1	6.63	12	240	1	16	84.38	16.81	5.7610	1.00
6F12N100G4Z3H1	7.50	12	480	1	9	100.38	12.81	5.7610	1.00
6F12N93F4Z3H1	8.25	12	480	1	10	93.38	13.81	5.7610	1.00
6F12N120G4Z3H1	9.50	12	480	1	11	120.38	12.81	5.7610	1.00
6F12N111F4Z3H1	10.00	12	240	1	24	-1.13	16.81	5.7610	1.00
6F12N120F4Z3H1	10.00	12	480	1	12	111.38	16.81	5.7610	1.00
6F12N140G4Z3H1	11.00	12	480	1	13	140.38	16.81	5.7610	1.00

## 150# Flanged Immersion Heaters - Type IF

6F12N160G4Z3H1	13.00	12	480	1	16	160.38	16.81	5.7610	1.00
6F12N144F4Z3H1	13.25	12	480	1	16	144.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N44G4Z3H1	4.50	18	480	1	5	44.25	10.69	7.6250	1.13
8F18N48F4Z3H1	4.88	18	480	1	6	48.25	16.69	7.6250	1.13
8F24N44G4Z3H1	6.00	24	480	1	7	44.25	10.69	7.6250	1.13
8F18N56G4Z3H1	6.00	18	480	1	7	56.25	10.69	7.6250	1.13
8F24N48F4Z3H1	6.63	24	480	1	8	48.25	16.69	7.6250	1.13
8F18N61F4Z3H1	7.50	18	480	1	9	61.25	13.69	7.6250	1.13
8F18N67G4Z3H1	7.50	18	480	1	9	67.25	10.69	7.6250	1.13
8F24N56G4Z3H1	8.00	24	480	1	10	56.25	10.69	7.6250	1.13
8F18N80G4Z3H1	9.00	18	480	1	11	80.25	12.69	7.6250	1.13
8F18N77F4Z3H1	9.88	18	480	1	12	77.25	13.69	7.6250	1.13
8F24N61F4Z3H1	10.00	24	480	1	12	61.25	13.69	7.6250	1.13
8F24N67G4Z3H1	10.00	24	480	1	12	67.25	10.69	7.6250	1.13
8F18N100G4Z3H1	11.25	18	480	1	14	100.25	12.69	7.6250	1.13
8F24N80G4Z3H1	12.00	24	480	1	14	80.25	12.69	7.6250	1.13
8F18N93F4Z3H1	12.25	18	480	1	15	93.25	13.69	7.6250	1.13
8F24N77F4Z3H1	13.25	24	480	1	16	77.25	13.69	7.6250	1.13
8F18N120G4Z3H1	14.25	18	480	1	17	120.25	12.69	7.6250	1.13
8F24N100G4Z3H1	15.00	24	480	1	18	100.25	12.69	7.6250	1.13
8F18N120F4Z3H1	15.00	18	480	1	18	111.25	16.69	7.6250	1.13
8F24N93F4Z3H1	16.50	24	480	1	20	93.25	13.69	7.6250	1.13
8F18N140G4Z3H1	16.50	18	480	1	20	140.25	16.69	7.6250	1.13
8F24N120G4Z3H1	19.00	24	480	1	23	120.25	12.69	7.6250	1.13
8F18N160G4Z3H1	19.50	18	480	1	23	160.25	16.69	7.6250	1.13
8F24N120F4Z3H1	20.00	24	480	1	24	111.25	16.69	7.6250	1.13
8F18N144F4Z3H1	20.00	18	480	1	24	144.25	16.69	7.6250	1.13
8F24N140G4Z3H1	22.00	24	480	1	26	140.25	16.69	7.6250	1.13
8F24N160G4Z3H1	26.00	24	480	1	31	160.25	16.69	7.6250	1.13
8F24N144F4Z3H1	26.50	24	480	1	32	144.25	16.69	7.6250	1.13

### 10 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
10F30N44G4Z3H1	7.50	30	480	1	9	44.19	10.63	9.7500	1.19
10F30N48F4Z3H1	8.25	30	480	1	10	48.19	16.63	9.7500	1.19
10F36N44G4Z3H1	9.00	36	480	1	11	44.19	10.63	9.7500	1.19
10F36N48F4Z3H1	9.88	36	480	1	12	48.19	16.63	9.7500	1.19
10F30N56G4Z3H1	10.00	30	480	1	12	56.19	10.63	9.7500	1.19
10F36N56G4Z3H1	12.00	36	480	1	14	56.19	10.63	9.7500	1.19
10F30N61F4Z3H1	12.50	30	480	1	15	61.19	13.63	9.7500	1.19
10F30N67G4Z3H1	12.50	30	480	1	15	67.19	10.63	9.7500	1.19
10F36N61F4Z3H1	15.00	36	480	1	18	61.19	13.63	9.7500	1.19
10F36N67G4Z3H1	15.00	36	480	1	18	67.19	10.63	9.7500	1.19
10F30N80G4Z3H1	15.00	30	480	1	18	80.19	12.63	9.7500	1.19
10F30N77F4Z3H1	16.50	30	480	1	20	77.19	13.63	9.7500	1.19
10F36N80G4Z3H1	18.00	36	480	1	22	80.19	12.63	9.7500	1.19
10F30N100G4Z3H1	18.75	30	480	1	23	100.19	12.63	9.7500	1.19
10F36N77F4Z3H1	19.75	36	480	1	24	77.19	13.63	9.7500	1.19
10F30N93F4Z3H1	20.75	30	480	1	25	93.19	13.63	9.7500	1.19
10F36N100G4Z3H1	22.50	36	480	1	27	100.19	12.63	9.7500	1.19
10F30N120G4Z3H1	23.75	30	480	1	29	120.19	12.63	9.7500	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N93F4Z3H1	24.75	36	480	1	30	93.19	13.63	9.7500	1.19
10F30N120F4Z3H1	25.00	30	480	1	30	111.19	16.63	9.7500	1.19
10F30N140G4Z3H1	27.50	30	480	1	33	140.19	16.63	9.7500	1.19
10F36N120G4Z3H1	28.50	36	480	1	34	120.19	12.63	9.7500	1.19
10F36N120F4Z3H1	30.00	36	480	1	36	111.19	16.63	9.7500	1.19
10F30N160G4Z3H1	32.50	30	480	1	39	160.19	16.63	9.7500	1.19
10F36N140G4Z3H1	33.00	36	480	1	40	140.19	16.63	9.7500	1.19
10F30N144F4Z3H1	33.25	30	480	1	40	144.19	16.63	9.7500	1.19
10F36N160G4Z3H1	39.00	36	480	1	47	160.19	16.63	9.7500	1.19
10F36N144F4Z3H1	40.00	36	480	1	48	144.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N44G4Z3H1	12.00	48	480	1	14	44.13	10.56	11.7500	1.25
12F48N48F4Z3H1	13.25	48	480	1	16	48.13	16.56	11.7500	1.25
12F48N56G4Z3H1	16.00	48	480	1	19	56.13	10.56	11.7500	1.25
12F48N61F4Z3H1	20.00	48	480	1	24	61.13	13.56	11.7500	1.25
12F48N67G4Z3H1	20.00	48	480	1	24	67.13	10.56	11.7500	1.25
12F48N80G4Z3H1	24.00	48	480	1	29	80.13	12.56	11.7500	1.25
12F48N77F4Z3H1	26.50	48	480	1	32	77.13	13.56	11.7500	1.25
12F54N80G4Z3H1	27.00	54	480	1	32	80.13	12.56	11.7500	1.25
12F48N100G4Z3H1	30.00	48	480	1	36	100.13	12.56	11.7500	1.25
12F48N93F4Z3H1	33.25	48	480	1	40	93.13	13.56	11.7500	1.25
12F54N100G4Z3H1	33.75	54	480	1	41	100.13	12.56	11.7500	1.25
12F54N93F4Z3H1	37.25	54	480	1	45	93.13	13.56	11.7500	1.25
12F48N120G4Z3H1	38.00	48	480	1	46	120.13	12.56	11.7500	1.25
12F48N120F4Z3H1	40.00	48	480	1	48	111.13	16.56	11.7500	1.25
12F48N140G4Z3H1	44.00	48	480	2	53	140.13	16.56	11.7500	1.25
12F48N160G4Z3H1	52.00	48	480	2	63	160.13	16.56	11.7500	1.25
12F48N144F4Z3H1	53.25	48	480	2	64	144.13	16.56	11.7500	1.25
12F54N144F4Z3H1	60.00	54	480	3	72	144.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N80G4Z3H1	27.00	54	480	1	32	80.00	12.44	13.0000	1.38
14F60N80G4Z3H1	30.00	60	480	1	36	80.00	12.44	13.0000	1.38
14F54N100G4Z3H1	33.75	54	480	1	41	100.00	12.44	13.0000	1.38
14F72N80G4Z3H1	36.00	72	480	1	43	80.00	12.44	13.0000	1.38
14F54N93F4Z3H1	37.25	54	480	1	45	93.00	13.44	13.0000	1.38
14F60N100G4Z3H1	37.50	60	480	1	45	100.00	12.44	13.0000	1.38
14F60N93F4Z3H1	41.50	60	480	2	50	93.00	13.44	13.0000	1.38
14F72N100G4Z3H1	45.00	72	480	2	54	100.00	12.44	13.0000	1.38
14F60N120G4Z3H1	47.50	60	480	2	57	120.00	12.44	13.0000	1.38
14F72N93F4Z3H1	49.75	72	480	2	60	93.00	13.44	13.0000	1.38
14F60N120F4Z3H1	50.00	60	480	2	60	111.00	16.44	13.0000	1.38
14F60N140G4Z3H1	55.00	60	480	2	66	140.00	16.44	13.0000	1.38
14F72N120G4Z3H1	57.00	72	480	2	69	120.00	12.44	13.0000	1.38
14F72N120F4Z3H1	60.00	72	480	2	72	111.00	16.44	13.0000	1.38
14F54N144F4Z3H1	60.00	54	480	3	72	144.00	16.44	13.0000	1.38
14F60N160G4Z3H1	65.00	60	480	2	78	160.00	16.44	13.0000	1.38
14F72N140G4Z3H1	66.00	72	480	2	79	140.00	16.44	13.0000	1.38
14F60N144F4Z3H1	66.50	60	480	2	80	144.00	16.44	13.0000	1.38
14F72N160G4Z3H1	78.00	72	480	2	94	160.00	16.44	13.0000	1.38
14F72N144F4Z3H1	79.75	72	480	2	96	144.00	16.44	13.0000	1.38

## 150# Flanged Immersion Heaters - Type IF

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N80G4Z3H1	42.00	84	480	2	51	79.94	12.38	15.0000	1.44
16F96N80G4Z3H1	48.00	96	480	2	58	79.94	12.38	15.0000	1.44
16F84N100G4Z3H1	52.50	84	480	2	63	99.94	12.38	15.0000	1.44
16F84N93F4Z3H1	58.25	84	480	2	70	92.94	13.38	15.0000	1.44
16F96N100G4Z3H1	60.00	96	480	2	72	99.94	12.38	15.0000	1.44
16F90N93F4Z3H1	62.25	90	480	3	75	92.94	13.38	15.0000	1.44
16F96N93F4Z3H1	66.50	96	480	2	80	92.94	13.38	15.0000	1.44
16F84N120G4Z3H1	66.50	84	480	2	80	119.94	12.38	15.0000	1.44
16F84N120F4Z3H1	70.00	84	480	2	84	110.94	16.38	15.0000	1.44
16F90N120G4Z3H1	71.25	90	480	3	86	119.94	12.38	15.0000	1.44
16F90N120F4Z3H1	75.00	90	480	3	90	110.94	16.38	15.0000	1.44
16F96N120G4Z3H1	76.00	96	480	2	91	119.94	12.38	15.0000	1.44
16F84N140G4Z3H1	77.00	84	480	2	93	139.94	16.38	15.0000	1.44
16F96N120F4Z3H1	80.00	96	480	2	96	110.94	16.38	15.0000	1.44
16F90N140G4Z3H1	82.50	90	480	3	99	139.94	16.38	15.0000	1.44
16F96N140G4Z3H1	88.00	96	480	4	106	139.94	16.38	15.0000	1.44
16F90N160G4Z3H1	97.50	90	480	3	117	159.94	16.38	15.0000	1.44
16F90N144F4Z3H1	99.75	90	480	3	120	143.94	16.38	15.0000	1.44
16F96N160G4Z3H1	104.00	96	480	4	125	159.94	16.38	15.0000	1.44
16F96N144F4Z3H1	106.50	96	480	4	128	143.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N100G4Z3H1	67.50	108	480	2	81	99.81	12.25	17.0000	1.56
18F108N93F4Z3H1	74.75	108	480	2	90	92.81	13.25	17.0000	1.56
18F108N120G4Z3H1	85.50	108	480	3	103	119.81	12.25	17.0000	1.56
18F108N120F4Z3H1	90.00	108	480	3	108	110.81	16.25	17.0000	1.56
18F108N140G4Z3H1	99.00	108	480	3	119	139.81	16.25	17.0000	1.56
18F108N160G4Z3H1	117.00	108	480	3	141	159.81	16.25	17.0000	1.56
18F108N144F4Z3H1	120.00	108	480	3	144	143.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N100G4Z3H1	75.00	120	480	2	90	99.69	12.13	19.0000	1.69
20F126N100G4Z3H1	78.75	126	480	3	95	99.69	12.13	19.0000	1.69
20F120N93F4Z3H1	83.25	120	480	4	100	92.69	13.13	19.0000	1.69
20F126N93F4Z3H1	87.25	126	480	3	105	92.69	13.13	19.0000	1.69
20F144N100G4Z3H1	90.00	144	480	3	108	99.69	12.13	19.0000	1.69
20F120N120G4Z3H1	95.00	120	480	4	114	119.69	12.13	19.0000	1.69
20F144N93F4Z3H1	99.75	144	480	3	120	92.69	13.13	19.0000	1.69
20F126N120G4Z3H1	99.75	126	480	3	120	119.69	12.13	19.0000	1.69
20F120N120F4Z3H1	100.00	120	480	4	120	110.69	16.13	19.0000	1.69
20F162N100G4Z3H1	101.00	162	480	3	121	99.69	12.13	19.0000	1.69
20F126N120F4Z3H1	105.00	126	480	3	126	110.69	16.13	19.0000	1.69
20F120N140G4Z3H1	110.00	120	480	4	132	139.69	16.13	19.0000	1.69
20F162N93F4Z3H1	112.00	162	480	3	135	92.69	13.13	19.0000	1.69
20F180N100G4Z3H1	112.50	180	480	3	135	99.69	12.13	19.0000	1.69
20F144N120G4Z3H1	114.00	144	480	3	137	119.69	12.13	19.0000	1.69
20F126N140G4Z3H1	115.50	126	480	3	139	139.69	16.13	19.0000	1.69
20F144N120F4Z3H1	120.00	144	480	3	144	110.69	16.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F180N93F4Z3H1	124.50	180	480	5	150	92.69	13.13	19.0000	1.69
20F120N160G4Z3H1	130.00	120	480	4	156	159.69	16.13	19.0000	1.69
20F144N140G4Z3H1	132.00	144	480	4	159	139.69	16.13	19.0000	1.69
20F120N144F4Z3H1	133.00	120	480	4	160	143.69	16.13	19.0000	1.69
20F126N144F4Z3H1	140.00	126	480	7	168	143.69	16.13	19.0000	1.69
20F180N120G4Z3H1	142.50	180	480	5	171	119.69	12.13	19.0000	1.69
20F180N120F4Z3H1	150.00	180	480	5	180	110.69	16.13	19.0000	1.69
20F144N160G4Z3H1	156.00	144	480	4	188	159.69	16.13	19.0000	1.69
20F144N144F4Z3H1	160.00	144	480	4	192	143.69	16.13	19.0000	1.69
20F180N140G4Z3H1	165.00	180	480	5	198	139.69	16.13	19.0000	1.69
20F162N144F4Z3H1	180.00	162	480	9	217	143.69	16.13	19.0000	1.69
20F180N160G4Z3H1	195.00	180	480	5	235	159.69	16.13	19.0000	1.69
20F180N144F4Z3H1	199.50	180	480	5	240	143.69	16.13	19.0000	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N100G4Z3H1	120.00	192	480	4	144	99.50	11.94	23.0000	1.88
24F192N93F4Z3H1	133.00	192	480	4	160	92.50	12.94	23.0000	1.88
24F216N100G4Z3H1	135.00	216	480	4	162	99.50	11.94	23.0000	1.88
24F216N93F4Z3H1	149.50	216	480	4	180	92.50	12.94	23.0000	1.88
24F240N100G4Z3H1	150.00	240	480	4	180	99.50	11.94	23.0000	1.88
24F192N120G4Z3H1	152.00	192	480	4	183	119.50	11.94	23.0000	1.88
24F192N120F4Z3H1	160.00	192	480	4	192	110.50	15.94	23.0000	1.88
24F240N93F4Z3H1	166.50	240	480	8	200	92.50	12.94	23.0000	1.88
24F216N120G4Z3H1	171.00	216	480	6	206	119.50	11.94	23.0000	1.88
24F192N140G4Z3H1	176.00	192	480	8	212	139.50	15.94	23.0000	1.88
24F216N120F4Z3H1	180.00	216	480	6	217	110.50	15.94	23.0000	1.88
24F240N120G4Z3H1	190.00	240	480	8	229	119.50	11.94	23.0000	1.88
24F216N140G4Z3H1	198.00	216	480	6	238	139.50	15.94	23.0000	1.88
24F240N120F4Z3H1	200.00	240	480	8	241	110.50	15.94	23.0000	1.88
24F192N160G4Z3H1	208.00	192	480	8	250	159.50	15.94	23.0000	1.88
24F192N144F4Z3H1	213.00	192	480	8	256	143.50	15.94	23.0000	1.88
24F240N140G4Z3H1	220.00	240	480	8	265	139.50	15.94	23.0000	1.88
24F216N160G4Z3H1	234.00	216	480	6	281	159.50	15.94	23.0000	1.88
24F216N144F4Z3H1	239.50	216	480	6	288	143.50	15.94	23.0000	1.88
24F240N160G4Z3H1	260.00	240	480	8	313	159.50	15.94	23.0000	1.88
24F240N144F4Z3H1	266.50	240	480	8	321	143.50	15.94	23.0000	1.88

### 2 Watts/Sq. Inch

#### 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10M2Z3H1	0.25	6	240	1	1	10.44	3.88	3.8260	0.94
4F6N13M1Z3H1	0.38	6	120	1	2	13.44	3.88	3.8260	0.94
4F6N13M2Z3H1	0.38	6	120	1	2	13.44	3.88	3.8260	0.94
4F6N13M4Z3H1	0.38	6	480	1	0	13.44	3.88	3.8260	0.94
4F6N18M4Z3H1	0.50	6	480	1	1	17.94	3.88	3.8260	0.94
4F6N18M2Z3H1	0.50	6	240	1	1	17.94	3.88	3.8260	0.94
4F6N20M2Z3H1	0.63	6	240	1	2	19.94	3.88	3.8260	0.94
4F6N20M4Z3H1	0.63	6	480	1	1	20.44	3.88	3.8260	0.94
4F6N25M1Z3H1	0.75	6	120	1	4	25.44	3.88	3.8260	0.94
4F6N25M4Z3H1	0.75	6	480	1	1	25.44	3.88	3.8260	0.94
4F6N25M2Z3H1	0.75	6	240	1	2	25.44	3.88	3.8260	0.94
4F6N33M4Z3H1	1.00	6	480	1	1	32.94	3.88	3.8260	0.94
4F6N40M2Z3H1	1.25	6	240	1	3	40.44	3.88	3.8260	0.94



## 150# Flanged Immersion Heaters - Type IF

4F6N40M4Z3H1	1.25	6	480	1	2	40.44	3.88	3.8260	0.94
4F6N48M4Z3H1	1.50	6	480	1	2	47.94	3.88	3.8260	0.94
4F6N52M4Z3H1	1.63	6	480	1	2	51.94	5.88	3.8260	0.94
4F6N52M2Z3H1	1.63	6	240	1	4	51.94	5.88	3.8260	0.94
4F6N59M4Z3H1	1.63	6	480	1	2	57.94	12.88	3.8260	0.94
4F6N64M2Z3H1	2.13	6	240	1	5	64.44	5.88	3.8260	0.94
4F6N64M4Z3H1	2.13	6	480	1	3	64.44	5.88	3.8260	0.94
4F6N73M4Z3H1	2.13	6	480	1	3	71.94	16.88	3.8260	0.94
4F6N77M2Z3H1	2.50	6	240	1	6	76.94	5.88	3.8260	0.94
4F6N77M4Z3H1	2.50	6	480	1	3	76.94	5.88	3.8260	0.94
4F6N88M4Z3H1	2.75	6	480	1	3	88.94	5.88	3.8260	0.94
4F6N95M4Z3H1	2.75	6	480	1	3	93.94	12.88	3.8260	0.94
4F6N106M4Z3H1	3.13	6	480	1	4	106.44	12.88	3.8260	0.94
4F6N120M4Z3H1	3.88	6	480	1	5	120.44	12.88	3.8260	0.94
4F6N140M4Z3H1	4.38	6	480	1	5	140.44	16.88	3.8260	0.94
4F6N160M4Z3H1	5.00	6	480	1	6	160.44	16.88	3.8260	0.94

### 6 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
6F12N10M2Z3H1	0.50	12	240	1	1	10.38	3.81	5.7610	1.00
6F12N13M4Z3H1	0.75	12	480	1	1	13.38	3.81	5.7610	1.00
6F12N18M2Z3H1	1.00	12	240	1	2	17.88	3.81	5.7610	1.00
6F12N18M4Z3H1	1.00	12	480	1	1	17.88	3.81	5.7610	1.00
6F12N20M2Z3H1	1.25	12	240	1	3	19.88	3.81	5.7610	1.00
6F12N20M4Z3H1	1.25	12	480	1	2	20.38	3.81	5.7610	1.00
6F12N25M2Z3H1	1.50	12	240	1	4	25.38	3.81	5.7610	1.00
6F12N25M4Z3H1	1.50	12	480	1	2	25.38	3.81	5.7610	1.00
6F12N33M4Z3H1	2.00	12	480	1	2	32.88	3.81	5.7610	1.00
6F12N40M4Z3H1	2.50	12	480	1	3	40.38	3.81	5.7610	1.00
6F12N40M2Z3H1	2.50	12	240	1	6	40.38	3.81	5.7610	1.00
6F12N48M4Z3H1	3.00	12	480	1	4	47.88	3.81	5.7610	1.00
6F12N52M4Z3H1	3.25	12	480	1	4	51.88	5.81	5.7610	1.00
6F12N52M2Z3H1	3.25	12	240	1	8	51.88	5.81	5.7610	1.00
6F12N59M4Z3H1	3.25	12	480	1	4	57.88	12.81	5.7610	1.00
6F12N64M2Z3H1	4.25	12	240	1	10	64.38	5.81	5.7610	1.00
6F12N64M4Z3H1	4.25	12	480	1	5	64.38	5.81	5.7610	1.00
6F12N73M4Z3H1	4.25	12	480	1	5	71.88	16.81	5.7610	1.00
6F12N77M2Z3H1	5.00	12	240	1	12	76.88	5.81	5.7610	1.00
6F12N77M4Z3H1	5.00	12	480	1	6	76.88	5.81	5.7610	1.00
6F12N88M4Z3H1	5.50	12	480	1	7	88.88	5.81	5.7610	1.00
6F12N95M4Z3H1	5.50	12	480	1	7	93.88	12.81	5.7610	1.00
6F12N106M4Z3H1	6.25	12	480	1	8	106.38	12.81	5.7610	1.00
6F12N120M4Z3H1	7.75	12	480	1	9	120.38	12.81	5.7610	1.00
6F12N140M4Z3H1	8.75	12	480	1	11	140.38	16.81	5.7610	1.00
6F12N160M4Z3H1	10.00	12	480	1	12	160.38	16.81	5.7610	1.00

### 8 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
8F18N13M4Z3H1	1.13	18	480	1	1	13.25	3.69	7.6250	1.13
8F24N13M4Z3H1	1.50	24	480	1	2	13.25	3.69	7.6250	1.13
8F18N18M4Z3H1	1.50	18	480	1	2	17.75	3.69	7.6250	1.13
8F18N20M4Z3H1	1.88	18	480	1	2	20.25	3.69	7.6250	1.13
8F24N18M4Z3H1	2.00	24	480	1	2	17.75	3.69	7.6250	1.13
8F18N25M4Z3H1	2.25	18	480	1	3	25.25	3.69	7.6250	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N20M4Z3H1	2.50	24	480	1	3	20.25	3.69	7.6250	1.13
8F24N25M4Z3H1	3.00	24	480	1	4	25.25	3.69	7.6250	1.13
8F18N33M4Z3H1	3.00	18	480	1	4	32.75	3.69	7.6250	1.13
8F18N40M4Z3H1	3.75	18	480	1	5	40.25	3.69	7.6250	1.13
8F24N33M4Z3H1	4.00	24	480	1	5	32.75	3.69	7.6250	1.13
8F18N48M4Z3H1	4.50	18	480	1	5	47.75	3.69	7.6250	1.13
8F24N40M4Z3H1	5.00	24	480	1	6	40.25	3.69	7.6250	1.13
8F18N52M4Z3H1	5.00	18	480	1	6	51.75	5.69	7.6250	1.13
8F18N59M4Z3H1	5.00	18	480	1	6	57.75	12.69	7.6250	1.13
8F24N48M4Z3H1	6.00	24	480	1	7	47.75	3.69	7.6250	1.13
8F18N64M4Z3H1	6.38	18	480	1	8	64.25	5.69	7.6250	1.13
8F18N73M4Z3H1	6.38	18	480	1	8	71.75	16.69	7.6250	1.13
8F24N52M4Z3H1	6.63	24	480	1	8	51.75	5.69	7.6250	1.13
8F24N59M4Z3H1	6.63	24	480	1	8	57.75	12.69	7.6250	1.13
8F18N77M4Z3H1	7.50	18	480	1	9	76.75	5.69	7.6250	1.13
8F18N88M4Z3H1	8.38	18	480	1	10	88.75	5.69	7.6250	1.13
8F18N95M4Z3H1	8.38	18	480	1	10	93.75	12.69	7.6250	1.13
8F24N64M4Z3H1	8.50	24	480	1	10	64.25	5.69	7.6250	1.13
8F24N73M4Z3H1	8.50	24	480	1	10	71.75	16.69	7.6250	1.13
8F18N106M4Z3H1	9.38	18	480	1	11	106.25	12.69	7.6250	1.13
8F24N77M4Z3H1	10.00	24	480	1	12	76.75	5.69	7.6250	1.13
8F24N88M4Z3H1	11.00	24	480	1	13	88.75	5.69	7.6250	1.13
8F24N95M4Z3H1	11.00	24	480	1	13	93.75	12.69	7.6250	1.13
8F18N120M4Z3H1	11.50	18	480	1	14	120.25	12.69	7.6250	1.13
8F24N106M4Z3H1	12.50	24	480	1	15	106.25	12.69	7.6250	1.13
8F18N140M4Z3H1	13.00	18	480	1	16	140.25	16.69	7.6250	1.13
8F18N160M4Z3H1	15.00	18	480	1	18	160.25	16.69	7.6250	1.13
8F24N120M4Z3H1	15.50	24	480	1	19	120.25	12.69	7.6250	1.13
8F24N140M4Z3H1	17.50	24	480	1	21	140.25	16.69	7.6250	1.13
8F24N160M4Z3H1	20.00	24	480	1	24	160.25	16.69	7.6250	1.13

### 10 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
10F30N13M4Z3H1	1.88	30	480	1	2	13.19	3.63	9.7500	1.19
10F36N13M4Z3H1	2.25	36	480	1	3	13.19	3.63	9.7500	1.19
10F30N18M4Z3H1	2.50	30	480	1	3	17.69	3.63	9.7500	1.19
10F36N18M4Z3H1	3.00	36	480	1	4	17.69	3.63	9.7500	1.19
10F30N20M4Z3H1	3.13	30	480	1	4	20.19	3.63	9.7500	1.19
10F36N20M4Z3H1	3.75	36	480	1	5	20.19	3.63	9.7500	1.19
10F30N25M4Z3H1	3.75	30	480	1	5	25.19	3.63	9.7500	1.19
10F36N25M4Z3H1	4.50	36	480	1	5	25.19	3.63	9.7500	1.19
10F30N33M4Z3H1	5.00	30	480	1	6	32.69	3.63	9.7500	1.19
10F36N33M4Z3H1	6.00	36	480	1	7	32.69	3.63	9.7500	1.19
10F30N40M4Z3H1	6.25	30	480	1	8	40.19	3.63	9.7500	1.19
10F36N40M4Z3H1	7.50	36	480	1	9	40.19	3.63	9.7500	1.19
10F30N48M4Z3H1	7.50	30	480	1	9	47.69	3.63	9.7500	1.19
10F30N52M4Z3H1	8.25	30	480	1	10	51.69	5.63	9.7500	1.19
10F30N59M4Z3H1	8.25	30	480	1	10	57.69	12.63	9.7500	1.19
10F36N48M4Z3H1	9.00	36	480	1	11	47.69	3.63	9.7500	1.19
10F36N52M4Z3H1	10.00	36	480	1	12	51.69	5.63	9.7500	1.19
10F36N59M4Z3H1	10.00	36	480	1	12	57.69	12.63	9.7500	1.19
10F30N64M4Z3H1	10.50	30	480	1	13	64.19	5.63	9.7500	1.19
10F30N73M4Z3H1	10.50	30	480	1	13	71.69	16.63	9.7500	1.19
10F30N77M4Z3H1	12.50	30	480	1	15	76.69	5.63	9.7500	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N64M4Z3H1	12.75	36	480	1	15	64.19	5.63	9.7500	1.19
10F36N73M4Z3H1	12.75	36	480	1	15	71.69	16.63	9.7500	1.19
10F30N88M4Z3H1	14.00	30	480	1	17	88.69	5.63	9.7500	1.19
10F30N95M4Z3H1	14.00	30	480	1	17	93.69	12.63	9.7500	1.19
10F36N77M4Z3H1	15.00	36	480	1	18	76.69	5.63	9.7500	1.19
10F30N106M4Z3H1	15.75	30	480	1	19	106.19	12.63	9.7500	1.19
10F36N88M4Z3H1	16.75	36	480	1	20	88.69	5.63	9.7500	1.19
10F36N95M4Z3H1	16.75	36	480	1	20	93.69	12.63	9.7500	1.19
10F36N106M4Z3H1	18.75	36	480	1	23	106.19	12.63	9.7500	1.19
10F30N120M4Z3H1	19.50	30	480	1	23	120.19	12.63	9.7500	1.19
10F30N140M4Z3H1	21.75	30	480	1	26	140.19	16.63	9.7500	1.19
10F36N120M4Z3H1	23.25	36	480	1	28	120.19	12.63	9.7500	1.19
10F30N160M4Z3H1	25.00	30	480	1	30	160.19	16.63	9.7500	1.19
10F36N140M4Z3H1	26.25	36	480	1	32	140.19	16.63	9.7500	1.19
10F36N160M4Z3H1	30.00	36	480	1	36	160.19	16.63	9.7500	1.19

### 12 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
12F48N40M4Z3H1	10.00	48	480	1	12	40.13	3.56	11.7500	1.25
12F48N48M4Z3H1	12.00	48	480	1	14	47.63	3.56	11.7500	1.25
12F48N52M4Z3H1	13.25	48	480	1	16	51.63	5.56	11.7500	1.25
12F48N59M4Z3H1	13.25	48	480	1	16	57.63	12.56	11.7500	1.25
12F48N64M4Z3H1	17.00	48	480	1	20	64.13	5.56	11.7500	1.25
12F48N73M4Z3H1	17.00	48	480	1	20	71.63	16.56	11.7500	1.25
12F48N77M4Z3H1	20.00	48	480	1	24	76.63	5.56	11.7500	1.25
12F48N88M4Z3H1	22.25	48	480	1	27	88.63	5.56	11.7500	1.25
12F48N95M4Z3H1	22.25	48	480	1	27	93.63	12.56	11.7500	1.25
12F54N88M4Z3H1	25.00	54	480	1	30	88.63	5.56	11.7500	1.25
12F54N95M4Z3H1	25.00	54	480	1	30	93.63	12.56	11.7500	1.25
12F48N106M4Z3H1	25.00	48	480	1	30	106.13	12.56	11.7500	1.25
12F54N106M4Z3H1	28.25	54	480	1	34	106.13	12.56	11.7500	1.25
12F48N120M4Z3H1	31.00	48	480	1	37	120.13	12.56	11.7500	1.25
12F54N120M4Z3H1	35.00	54	480	1	42	120.13	12.56	11.7500	1.25
12F48N140M4Z3H1	35.00	48	480	1	42	140.13	16.56	11.7500	1.25
12F54N140M4Z3H1	39.25	54	480	1	47	140.13	16.56	11.7500	1.25
12F48N160M4Z3H1	40.00	48	480	1	48	160.13	16.56	11.7500	1.25

### 14 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
14F54N88M4Z3H1	25.00	54	480	1	30	88.50	5.44	13.0000	1.38
14F54N95M4Z3H1	25.00	54	480	1	30	93.50	12.44	13.0000	1.38
14F60N88M4Z3H1	28.00	60	480	1	34	88.50	5.44	13.0000	1.38
14F60N95M4Z3H1	28.00	60	480	1	34	93.50	12.44	13.0000	1.38
14F54N106M4Z3H1	28.25	54	480	1	34	106.00	12.44	13.0000	1.38
14F60N106M4Z3H1	31.50	60	480	1	38	106.00	12.44	13.0000	1.38
14F72N88M4Z3H1	33.50	72	480	1	40	88.50	5.44	13.0000	1.38
14F72N95M4Z3H1	33.50	72	480	1	40	93.50	12.44	13.0000	1.38
14F54N120M4Z3H1	35.00	54	480	1	42	120.00	12.44	13.0000	1.38
14F72N106M4Z3H1	37.75	72	480	1	45	106.00	12.44	13.0000	1.38
14F60N120M4Z3H1	39.00	60	480	1	47	120.00	12.44	13.0000	1.38
14F54N140M4Z3H1	39.25	54	480	1	47	140.00	16.44	13.0000	1.38
14F60N140M4Z3H1	43.75	60	480	2	53	140.00	16.44	13.0000	1.38
14F72N120M4Z3H1	46.75	72	480	2	56	120.00	12.44	13.0000	1.38
14F60N160M4Z3H1	50.00	60	480	2	60	160.00	16.44	13.0000	1.38

## 150# Flanged Immersion Heaters - Type IF

14F72N140M4Z3H1	52.50	72	480	2	63	140.00	16.44	13.0000	1.38
14F72N160M4Z3H1	60.00	72	480	2	72	160.00	16.44	13.0000	1.38

### 16 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
16F84N88M4Z3H1	39.00	84	480	1	47	88.44	5.38	15.0000	1.44
16F84N95M4Z3H1	39.00	84	480	1	47	93.44	12.38	15.0000	1.44
16F84N106M4Z3H1	44.00	84	480	2	53	105.94	12.38	15.0000	1.44
16F96N88M4Z3H1	44.75	96	480	2	54	88.44	5.38	15.0000	1.44
16F96N95M4Z3H1	44.75	96	480	2	54	93.44	12.38	15.0000	1.44
16F96N106M4Z3H1	50.25	96	480	2	60	105.94	12.38	15.0000	1.44
16F84N120M4Z3H1	54.50	84	480	2	66	119.94	12.38	15.0000	1.44
16F84N140M4Z3H1	61.25	84	480	2	74	139.94	16.38	15.0000	1.44
16F96N120M4Z3H1	62.25	96	480	2	75	119.94	12.38	15.0000	1.44
16F90N140M4Z3H1	65.50	90	480	3	79	139.94	16.38	15.0000	1.44
16F96N140M4Z3H1	70.00	96	480	2	84	139.94	16.38	15.0000	1.44
16F84N160M4Z3H1	70.00	84	480	2	84	159.94	16.38	15.0000	1.44
16F90N160M4Z3H1	75.00	90	480	3	90	159.94	16.38	15.0000	1.44
16F96N160M4Z3H1	80.00	96	480	2	96	159.94	16.38	15.0000	1.44

### 18 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
18F108N88M4Z3H1	50.25	108	480	2	60	88.31	5.25	17.0000	1.56
18F108N95M4Z3H1	50.25	108	480	2	60	93.31	12.25	17.0000	1.56
18F108N106M4Z3H1	56.50	108	480	2	68	105.81	12.25	17.0000	1.56
18F108N120M4Z3H1	70.00	108	480	2	84	119.81	12.25	17.0000	1.56
18F108N140M4Z3H1	78.75	108	480	2	95	139.81	16.25	17.0000	1.56
18F108N160M4Z3H1	90.00	108	480	3	108	159.81	16.25	17.0000	1.56

### 20 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
20F120N88M4Z3H1	56.00	120	480	2	67	88.19	5.13	19.0000	1.69
20F120N95M4Z3H1	56.00	120	480	2	67	93.19	12.13	19.0000	1.69
20F132N88M4Z3H1	61.50	132	480	2	74	88.19	5.13	19.0000	1.69
20F132N95M4Z3H1	61.50	132	480	2	74	93.19	12.13	19.0000	1.69
20F120N106M4Z3H1	63.00	120	480	2	76	105.69	12.13	19.0000	1.69
20F126N106M4Z3H1	66.00	126	480	3	79	105.69	12.13	19.0000	1.69
20F144N88M4Z3H1	67.00	144	480	2	81	88.19	5.13	19.0000	1.69
20F144N95M4Z3H1	67.00	144	480	2	81	93.19	12.13	19.0000	1.69
20F132N106M4Z3H1	69.25	132	480	2	83	105.69	12.13	19.0000	1.69
20F162N88M4Z3H1	75.50	162	480	3	91	88.19	5.13	19.0000	1.69
20F162N95M4Z3H1	75.50	162	480	3	91	93.19	12.13	19.0000	1.69
20F144N106M4Z3H1	75.50	144	480	2	91	105.69	12.13	19.0000	1.69
20F120N120M4Z3H1	78.00	120	480	2	94	119.69	12.13	19.0000	1.69
20F126N120M4Z3H1	81.75	126	480	3	98	119.69	12.13	19.0000	1.69
20F180N88M4Z3H1	84.00	180	480	3	101	88.19	5.13	19.0000	1.69
20F180N95M4Z3H1	84.00	180	480	3	101	93.19	12.13	19.0000	1.69
20F162N106M4Z3H1	85.00	162	480	3	102	105.69	12.13	19.0000	1.69
20F120N140M4Z3H1	87.50	120	480	4	105	139.69	16.13	19.0000	1.69
20F126N140M4Z3H1	91.75	126	480	3	110	139.69	16.13	19.0000	1.69
20F144N120M4Z3H1	93.50	144	480	3	112	119.69	12.13	19.0000	1.69
20F180N106M4Z3H1	94.50	180	480	3	114	105.69	12.13	19.0000	1.69
20F120N160M4Z3H1	100.00	120	480	4	120	159.69	16.13	19.0000	1.69

## 150# Flanged Immersion Heaters - Type IF

20F162N120M4Z3H1	105.00	162	480	3	126	119.69	12.13	19.0000	1.69
20F144N140M4Z3H1	105.00	144	480	3	126	139.69	16.13	19.0000	1.69
20F126N160M4Z3H1	105.00	126	480	3	126	159.69	16.13	19.0000	1.69
20F180N120M4Z3H1	117.00	180	480	3	141	119.69	12.13	19.0000	1.69
20F162N140M4Z3H1	118.00	162	480	3	142	139.69	16.13	19.0000	1.69
20F144N160M4Z3H1	120.00	144	480	3	144	159.69	16.13	19.0000	1.69
20F180N140M4Z3H1	131.00	180	480	5	158	139.69	16.13	19.0000	1.69
20F180N160M4Z3H1	150.00	180	480	5	180	159.69	16.13	19.0000	1.69

### 24 Inch Heaters

<u>Part Number</u>	<u>kW</u>	<u>No. Ele.</u>	<u>Volts</u>	<u>Circuits</u>	<u>Amps</u>	<u>OAL</u>	<u>CL</u>	<u>ID</u>	<u>FT</u>
24F192N88M4Z3H1	89.50	192	480	4	108	88.00	4.94	23.0000	1.88
24F192N95M4Z3H1	89.50	192	480	4	108	93.00	11.94	23.0000	1.88
24F216N88M4Z3H1	100.50	216	480	3	121	88.00	4.94	23.0000	1.88
24F216N95M4Z3H1	100.50	216	480	3	121	93.00	11.94	23.0000	1.88
24F192N106M4Z3H1	100.50	192	480	4	121	105.50	11.94	23.0000	1.88
24F234N88M4Z3H1	109.00	234	480	3	131	88.00	4.94	23.0000	1.88
24F234N95M4Z3H1	109.00	234	480	3	131	93.00	11.94	23.0000	1.88
24F240N88M4Z3H1	112.00	240	480	4	135	88.00	4.94	23.0000	1.88
24F240N95M4Z3H1	112.00	240	480	4	135	93.00	11.94	23.0000	1.88
24F216N106M4Z3H1	113.00	216	480	3	136	105.50	11.94	23.0000	1.88
24F192N120M4Z3H1	124.50	192	480	4	150	119.50	11.94	23.0000	1.88
24F240N106M4Z3H1	126.00	240	480	4	152	105.50	11.94	23.0000	1.88
24F216N120M4Z3H1	140.00	216	480	4	168	119.50	11.94	23.0000	1.88
24F192N140M4Z3H1	140.00	192	480	4	168	139.50	15.94	23.0000	1.88
24F240N120M4Z3H1	156.00	240	480	4	188	119.50	11.94	23.0000	1.88
24F216N140M4Z3H1	157.50	216	480	4	189	139.50	15.94	23.0000	1.88
24F192N160M4Z3H1	160.00	192	480	4	192	159.50	15.94	23.0000	1.88
24F240N140M4Z3H1	175.00	240	480	8	210	139.50	15.94	23.0000	1.88
24F216N160M4Z3H1	180.00	216	480	6	217	159.50	15.94	23.0000	1.88
24F240N160M4Z3H1	200.00	240	480	8	241	159.50	15.94	23.0000	1.88