



## 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

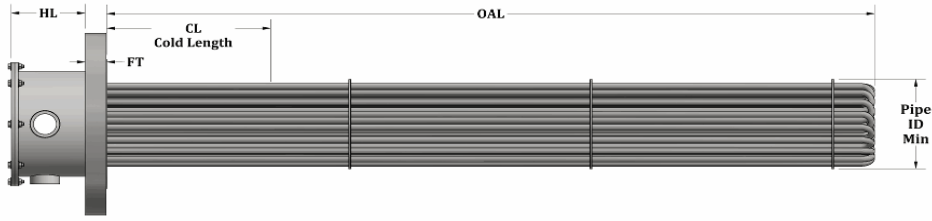
#### Sensors

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

#### Certifications

CSA	UL
ATEX	IEC eX
CRN	

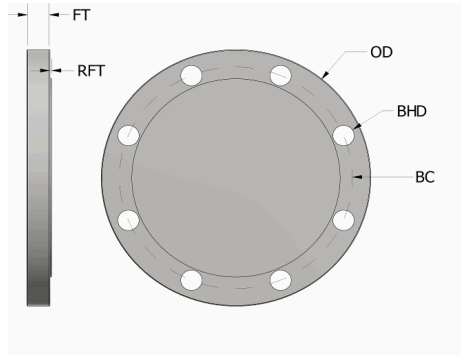
## Heater Dimensional Drawing Data



**Housing Dimensions (HL) (Inches)**

<u>Dia</u>	<u>GP</u>	<u>LT</u>	<u>ER</u>	<u>Ex d</u>
2.50	5.50	5.50	7.00	6.38
3.00	5.50	5.50	7.00	6.38
4.00	5.50	5.50	7.00	6.38
5.00	5.50	5.50	7.00	6.38
6.00	5.50	5.50	7.00	7.38
8.00	5.50	5.50	8.00	8.37
10.00	7.00	6.75	12.00	10.50
12.00	7.00	6.75	12.00	10.50
14.00	7.00	6.75	12.00	10.50
16.00	9.00	6.75	12.00	10.50
18.00	9.00	6.75	14.00	10.63
20.00	9.00	6.75	14.00	10.75
24.00	11.00	6.75	14.00	10.75

## 150# 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
30.00	38.75	2.88	0.06	36.00	1.38	28.00
36.00	46.00	3.50	0.06	42.75	1.63	32.00
42.00	53.00	3.75	0.06	49.50	1.63	36.00
48.00	59.50	4.19	0.06	56.00	1.63	44.00

# 150# Flanged Immersion Heaters - Type IF

60 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N18B4	7.50	3	480	1	9	17.94	3.88	2.90	0.94
3F3N20B4	8.63	3	480	1	10	19.94	3.88	2.90	0.94
3F3N25B2	11.50	3	240	1	28	25.44	3.88	2.90	0.94
3F3N25B4	11.50	3	480	1	14	25.44	3.88	2.90	0.94
3F3N33B2	15.00	3	240	1	36	32.94	3.88	2.90	0.94
3F3N33B4	15.00	3	480	1	18	32.94	3.88	2.90	0.94
3F3N38B4	18.00	3	480	1	22	38.44	5.88	2.90	0.94
3F3N36B4	19.25	3	480	1	23	35.94	3.88	2.90	0.94
3F3N43B4	20.00	3	480	1	24	42.94	5.88	2.90	0.94
3F3N52B4	25.00	3	480	1	30	51.94	5.88	2.90	0.94
3F3N57B4	25.00	3	480	1	30	56.94	10.88	2.90	0.94
3F3N61B4	30.00	3	480	1	36	61.44	5.88	2.90	0.94
3F3N68B4	30.00	3	480	1	36	68.44	12.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N18B4	15.00	6	480	1	18	17.94	3.88	3.83	0.94
4F6N20B4	17.25	6	480	1	21	19.94	3.88	3.83	0.94
4F6N25B2	23.00	6	240	2	55	25.44	3.88	3.83	0.94
4F6N25B4	23.00	6	480	1	28	25.44	3.88	3.83	0.94
4F6N33B2	30.00	6	240	2	72	32.94	3.88	3.83	0.94
4F6N33B4	30.00	6	480	1	36	32.94	3.88	3.83	0.94
4F6N38B4	36.00	6	480	1	43	38.44	5.88	3.83	0.94
4F6N36B4	38.50	6	480	1	46	35.94	3.88	3.83	0.94
4F6N43B4	40.00	6	480	1	48	42.94	5.88	3.83	0.94
4F6N52B4	50.00	6	480	2	60	51.94	5.88	3.83	0.94
4F6N57B4	50.00	6	480	2	60	56.94	10.88	3.83	0.94
4F6N61B4	60.00	6	480	2	72	61.44	5.88	3.83	0.94
4F6N68B4	60.00	6	480	2	72	68.44	12.88	3.83	0.94

## 5 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
5F9N18B4	22.50	9	480	1	27	17.94	3.88	4.81	0.94
5F9N20B4	26.00	9	480	1	31	19.94	3.88	4.81	0.94
5F9N25B4	34.50	9	480	1	41	25.44	3.88	4.81	0.94
5F9N43B4	60.00	9	480	3	72	42.94	5.88	4.81	0.94
5F9N52B4	75.00	9	480	3	90	51.94	5.88	4.81	0.94
5F9N57B4	75.00	9	480	3	90	56.94	10.88	4.81	0.94
5F9N61B4	90.00	9	480	3	108	61.44	5.88	4.81	0.94
5F9N68B4	90.00	9	480	3	108	68.44	12.88	4.81	0.94

## 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N18B4	30.00	12	480	1	36	17.88	3.81	5.76	1.00
6F12N20B4	34.75	12	480	1	42	19.88	3.81	5.76	1.00
6F15N18B4	37.50	15	480	1	45	17.88	3.81	5.76	1.00
6F12N25B4	46.00	12	480	2	55	25.38	3.81	5.76	1.00
6F12N33B4	60.00	12	480	2	72	32.88	3.81	5.76	1.00
6F12N38B4	72.00	12	480	2	87	38.38	5.81	5.76	1.00
6F12N36B4	77.25	12	480	2	93	35.88	3.81	5.76	1.00

## 150# Flanged Immersion Heaters - Type IF

6F12N43B4	80.00	12	480	2	96	42.88	5.81	5.76	1.00
6F15N43B4	100.00	15	480	5	120	42.88	5.81	5.76	1.00
6F12N52B4	100.00	12	480	4	120	51.88	5.81	5.76	1.00
6F12N57B4	100.00	12	480	4	120	56.88	10.81	5.76	1.00
6F12N61B4	120.00	12	480	4	144	61.38	5.81	5.76	1.00
6F12N68B4	120.00	12	480	4	144	68.38	12.81	5.76	1.00
6F15N52B4	125.00	15	480	5	150	51.88	5.81	5.76	1.00
6F15N57B4	125.00	15	480	5	150	56.88	10.81	5.76	1.00
6F15N61B4	150.00	15	480	5	180	61.38	5.81	5.76	1.00
6F15N68B4	150.00	15	480	5	180	68.38	12.81	5.76	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>
8F18N18B4	45.00	18	480	2	54	17.75	3.69	7.63	1.13
8F18N20B4	52.00	18	480	2	63	19.75	3.69	7.63	1.13
8F24N18B4	60.00	24	480	2	72	17.75	3.69	7.63	1.13
8F18N25B4	69.25	18	480	2	83	25.25	3.69	7.63	1.13
8F24N20B4	69.50	24	480	2	84	19.75	3.69	7.63	1.13
8F18N33B4	90.00	18	480	3	108	32.75	3.69	7.63	1.13
8F24N25B4	92.25	24	480	4	111	25.25	3.69	7.63	1.13
8F18N38B4	108.00	18	480	3	130	38.25	5.69	7.63	1.13
8F18N36B4	116.00	18	480	3	140	35.75	3.69	7.63	1.13
8F24N33B4	120.00	24	480	4	144	32.75	3.69	7.63	1.13
8F18N43B4	120.00	18	480	3	144	42.75	5.69	7.63	1.13
8F24N38B4	144.00	24	480	4	173	38.25	5.69	7.63	1.13
8F18N52B4	150.00	18	480	6	180	51.75	5.69	7.63	1.13
8F18N57B4	150.00	18	480	6	180	56.75	10.69	7.63	1.13
8F24N36B4	154.50	24	480	4	186	35.75	3.69	7.63	1.13
8F24N43B4	160.00	24	480	4	192	42.75	5.69	7.63	1.13
8F18N61B4	180.00	18	480	6	217	61.25	5.69	7.63	1.13
8F18N68B4	180.00	18	480	6	217	68.25	12.69	7.63	1.13
8F24N52B4	200.00	24	480	8	241	51.75	5.69	7.63	1.13
8F24N57B4	200.00	24	480	8	241	56.75	10.69	7.63	1.13
8F24N61B4	240.00	24	480	8	289	61.25	5.69	7.63	1.13
8F24N68B4	240.00	24	480	8	289	68.25	12.69	7.63	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>
10F30N18B4	75.00	30	480	2	90	17.69	3.63	9.75	1.19
10F36N18B4	90.00	36	480	3	108	17.69	3.63	9.75	1.19
10F36N20B4	104.00	36	480	3	125	19.69	3.63	9.75	1.19
10F30N25B4	115.50	30	480	5	139	25.19	3.63	9.75	1.19
10F36N25B4	138.50	36	480	4	167	25.19	3.63	9.75	1.19
10F30N33B4	150.00	30	480	5	180	32.69	3.63	9.75	1.19
10F36N33B4	180.00	36	480	6	217	32.69	3.63	9.75	1.19
10F30N38B4	180.00	30	480	5	217	38.19	5.63	9.75	1.19
10F30N36B4	193.50	30	480	5	233	35.69	3.63	9.75	1.19
10F30N43B4	200.00	30	480	5	241	42.69	5.63	9.75	1.19
10F36N38B4	216.00	36	480	6	260	38.19	5.63	9.75	1.19
10F36N36B4	232.00	36	480	6	279	35.69	3.63	9.75	1.19
10F36N43B4	240.00	36	480	6	289	42.69	5.63	9.75	1.19
10F30N52B4	250.00	30	480	10	301	51.69	5.63	9.75	1.19
10F30N57B4	250.00	30	480	10	301	56.69	10.63	9.75	1.19
10F36N52B4	300.00	36	480	12	361	51.69	5.63	9.75	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N57B4	300.00	36	480	12	361	56.69	10.63	9.75	1.19
10F30N61B4	300.00	30	480	10	361	61.19	5.63	9.75	1.19
10F30N68B4	300.00	30	480	10	361	68.19	12.63	9.75	1.19
10F36N61B4	360.00	36	480	12	433	61.19	5.63	9.75	1.19
10F36N68B4	360.00	36	480	12	433	68.19	12.63	9.75	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>
12F48N43B4	320.00	48	480	8	385	42.63	5.56	11.75	1.25
12F48N52B4	400.00	48	480	16	481	51.63	5.56	11.75	1.25
12F48N57B4	400.00	48	480	16	481	56.63	10.56	11.75	1.25
12F48N61B4	480.00	48	480	16	577	61.13	5.56	11.75	1.25
12F48N68B4	480.00	48	480	16	577	68.13	12.56	11.75	1.25

# 150# Flanged Immersion Heaters - Type IF

45 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N10H4	3.00	3	480	1	4	10.44	3.88	2.90	0.94
3F3N18H2	6.00	3	240	1	14	17.94	3.88	2.90	0.94
3F3N18H4	6.00	3	480	1	7	17.94	3.88	2.90	0.94
3F3N20H2	7.50	3	240	1	18	19.94	3.88	2.90	0.94
3F3N20H4	7.50	3	480	1	9	19.94	3.88	2.90	0.94
3F3N25H2	9.00	3	240	1	22	25.44	3.88	2.90	0.94
3F3N25H4	9.00	3	480	1	11	25.44	3.88	2.90	0.94
3F3N33H2	12.00	3	240	1	29	32.94	3.88	2.90	0.94
3F3N33H4	12.00	3	480	1	14	32.94	3.88	2.90	0.94
3F3N40H2	15.00	3	240	1	36	40.44	3.88	2.90	0.94
3F3N40H4	15.00	3	480	1	18	40.44	3.88	2.90	0.94
3F3N48H4	18.00	3	480	1	22	47.94	3.88	2.90	0.94
3F3N52H4	18.00	3	480	1	22	51.94	5.88	2.90	0.94
3F3N61H4	25.00	3	480	1	30	61.44	5.88	2.90	0.94
3F3N68H4	25.00	3	480	1	30	68.44	12.88	2.90	0.94
3F3N80H4	33.25	3	480	1	40	78.94	10.88	2.90	0.94
3F3N88H4	37.50	3	480	1	45	88.94	5.88	2.90	0.94
3F3N95H4	37.50	3	480	1	45	95.94	12.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10H4	6.00	6	480	1	7	10.44	3.88	3.83	0.94
4F6N18H2	12.00	6	240	1	29	17.94	3.88	3.83	0.94
4F6N18H4	12.00	6	480	1	14	17.94	3.88	3.83	0.94
4F6N20H4	15.00	6	480	1	18	19.94	3.88	3.83	0.94
4F6N20H2	15.00	6	240	1	36	19.94	3.88	3.83	0.94
4F6N25H2	18.00	6	240	1	43	25.44	3.88	3.83	0.94
4F6N25H4	18.00	6	480	1	22	25.44	3.88	3.83	0.94
4F6N33H2	24.00	6	240	2	58	32.94	3.88	3.83	0.94
4F6N33H4	24.00	6	480	1	29	32.94	3.88	3.83	0.94
4F6N40H2	30.00	6	240	2	72	40.44	3.88	3.83	0.94
4F6N40H4	30.00	6	480	1	36	40.44	3.88	3.83	0.94
4F6N48H4	36.00	6	480	1	43	47.94	3.88	3.83	0.94
4F6N52H4	36.00	6	480	1	43	51.94	5.88	3.83	0.94
4F6N61H4	50.00	6	480	2	60	61.44	5.88	3.83	0.94
4F6N68H4	50.00	6	480	2	60	68.44	12.88	3.83	0.94
4F6N80H4	66.50	6	480	2	80	78.94	10.88	3.83	0.94
4F6N88H4	75.00	6	480	2	90	88.94	5.88	3.83	0.94
4F6N95H4	75.00	6	480	2	90	95.94	12.88	3.83	0.94

## 5 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
5F9N10H4	9.00	9	480	1	11	10.44	3.88	4.81	0.94
5F9N18H2	18.00	9	240	1	43	17.94	3.88	4.81	0.94
5F9N18H4	18.00	9	480	1	22	17.94	3.88	4.81	0.94
5F9N20H4	22.50	9	480	1	27	19.94	3.88	4.81	0.94
5F9N25H4	27.00	9	480	1	32	25.44	3.88	4.81	0.94
5F9N33H4	36.00	9	480	1	43	32.94	3.88	4.81	0.94
5F9N61H4	75.00	9	480	3	90	61.44	5.88	4.81	0.94
5F9N68H4	75.00	9	480	3	90	68.44	12.88	4.81	0.94

## 150# Flanged Immersion Heaters - Type IF

5F9N80H4	99.75	9	480	3	120	78.94	10.88	4.81	0.94
5F9N88H4	112.50	9	480	3	135	88.94	5.88	4.81	0.94
5F9N95H4	112.50	9	480	3	135	95.94	12.88	4.81	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>
6F12N10H4	12.00	12	480	1	14	10.38	3.81	5.76	1.00
6F15N10H4	15.00	15	480	1	18	10.38	3.81	5.76	1.00
6F12N18H2	24.00	12	240	2	58	17.88	3.81	5.76	1.00
6F12N18H4	24.00	12	480	1	29	17.88	3.81	5.76	1.00
6F15N18H4	30.00	15	480	1	36	17.88	3.81	5.76	1.00
6F12N20H2	30.00	12	240	2	72	19.88	3.81	5.76	1.00
6F12N20H4	30.00	12	480	1	36	19.88	3.81	5.76	1.00
6F12N25H2	36.00	12	240	2	87	25.38	3.81	5.76	1.00
6F12N25H4	36.00	12	480	1	43	25.38	3.81	5.76	1.00
6F15N20H4	37.50	15	480	1	45	19.88	3.81	5.76	1.00
6F12N33H4	48.00	12	480	2	58	32.88	3.81	5.76	1.00
6F12N40H4	60.00	12	480	2	72	40.38	3.81	5.76	1.00
6F12N48H4	72.00	12	480	2	87	47.88	3.81	5.76	1.00
6F12N52H4	72.00	12	480	2	87	51.88	5.81	5.76	1.00
6F12N61H4	100.00	12	480	4	120	61.38	5.81	5.76	1.00
6F12N68H4	100.00	12	480	4	120	68.38	12.81	5.76	1.00
6F15N61H4	125.00	15	480	5	150	61.38	5.81	5.76	1.00
6F15N68H4	125.00	15	480	5	150	68.38	12.81	5.76	1.00
6F12N80H4	133.00	12	480	4	160	78.88	10.81	5.76	1.00
6F12N88H4	150.00	12	480	4	180	88.88	5.81	5.76	1.00
6F12N95H4	150.00	12	480	4	180	95.88	12.81	5.76	1.00
6F15N80H4	166.50	15	480	5	200	78.88	10.81	5.76	1.00
6F15N88H4	187.50	15	480	5	226	88.88	5.81	5.76	1.00
6F15N95H4	187.50	15	480	5	226	95.88	12.81	5.76	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>
8F18N10H4	18.00	18	480	1	22	10.25	3.69	7.63	1.13
8F24N10H4	24.00	24	480	1	29	10.25	3.69	7.63	1.13
8F18N18H4	36.00	18	480	1	43	17.75	3.69	7.63	1.13
8F18N20H4	45.00	18	480	2	54	19.75	3.69	7.63	1.13
8F24N18H4	48.00	24	480	2	58	17.75	3.69	7.63	1.13
8F18N25H4	54.00	18	480	2	65	25.25	3.69	7.63	1.13
8F24N20H4	60.00	24	480	2	72	19.75	3.69	7.63	1.13
8F24N25H4	72.00	24	480	2	87	25.25	3.69	7.63	1.13
8F18N33H4	72.00	18	480	2	87	32.75	3.69	7.63	1.13
8F18N40H4	90.00	18	480	3	108	40.25	3.69	7.63	1.13
8F24N33H4	96.00	24	480	4	115	32.75	3.69	7.63	1.13
8F18N48H4	108.00	18	480	3	130	47.75	3.69	7.63	1.13
8F18N52H4	108.00	18	480	3	130	51.75	5.69	7.63	1.13
8F24N40H4	120.00	24	480	4	144	40.25	3.69	7.63	1.13
8F24N48H4	144.00	24	480	4	173	47.75	3.69	7.63	1.13
8F24N52H4	144.00	24	480	4	173	51.75	5.69	7.63	1.13
8F18N61H4	150.00	18	480	6	180	61.25	5.69	7.63	1.13
8F18N68H4	150.00	18	480	6	180	68.25	12.69	7.63	1.13
8F18N80H4	199.50	18	480	6	240	78.75	10.69	7.63	1.13
8F24N61H4	200.00	24	480	8	241	61.25	5.69	7.63	1.13
8F24N68H4	200.00	24	480	8	241	68.25	12.69	7.63	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N88H4	225.00	18	480	6	271	88.75	5.69	7.63	1.13
8F18N95H4	225.00	18	480	6	271	95.75	12.69	7.63	1.13
8F24N80H4	266.00	24	480	8	320	78.75	10.69	7.63	1.13
8F24N88H4	300.00	24	480	8	361	88.75	5.69	7.63	1.13
8F24N95H4	300.00	24	480	8	361	95.75	12.69	7.63	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>
10F30N10H4	30.00	30	480	1	36	10.19	3.63	9.75	1.19
10F36N10H4	36.00	36	480	1	43	10.19	3.63	9.75	1.19
10F30N18H4	60.00	30	480	2	72	17.69	3.63	9.75	1.19
10F36N18H4	72.00	36	480	2	87	17.69	3.63	9.75	1.19
10F30N20H4	75.00	30	480	2	90	19.69	3.63	9.75	1.19
10F36N20H4	90.00	36	480	3	108	19.69	3.63	9.75	1.19
10F36N25H4	108.00	36	480	3	130	25.19	3.63	9.75	1.19
10F30N33H4	120.00	30	480	5	144	32.69	3.63	9.75	1.19
10F36N33H4	144.00	36	480	4	173	32.69	3.63	9.75	1.19
10F30N40H4	150.00	30	480	5	180	40.19	3.63	9.75	1.19
10F36N40H4	180.00	36	480	6	217	40.19	3.63	9.75	1.19
10F30N48H4	180.00	30	480	5	217	47.69	3.63	9.75	1.19
10F30N52H4	180.00	30	480	5	217	51.69	5.63	9.75	1.19
10F36N48H4	216.00	36	480	6	260	47.69	3.63	9.75	1.19
10F36N52H4	216.00	36	480	6	260	51.69	5.63	9.75	1.19
10F30N61H4	250.00	30	480	10	301	61.19	5.63	9.75	1.19
10F30N68H4	250.00	30	480	10	301	68.19	12.63	9.75	1.19
10F36N61H4	300.00	36	480	12	361	61.19	5.63	9.75	1.19
10F36N68H4	300.00	36	480	12	361	68.19	12.63	9.75	1.19
10F30N80H4	333.00	30	480	10	401	78.69	10.63	9.75	1.19
10F30N88H4	375.00	30	480	10	451	88.69	5.63	9.75	1.19
10F30N95H4	375.00	30	480	10	451	95.69	12.63	9.75	1.19
10F36N80H4	399.50	36	480	12	481	78.69	10.63	9.75	1.19
10F36N88H4	450.00	36	480	12	541	88.69	5.63	9.75	1.19
10F36N95H4	450.00	36	480	12	541	95.69	12.63	9.75	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>
12F48N40H4	240.00	48	480	8	289	40.13	3.56	11.75	1.25
12F48N48H4	288.00	48	480	8	346	47.63	3.56	11.75	1.25
12F48N52H4	288.00	48	480	8	346	51.63	5.56	11.75	1.25
12F48N61H4	400.00	48	480	16	481	61.13	5.56	11.75	1.25
12F48N68H4	400.00	48	480	16	481	68.13	12.56	11.75	1.25
12F48N80H4	533.00	48	480	16	641	78.63	10.56	11.75	1.25
12F54N80H4	599.00	54	480	18	721	78.63	10.56	11.75	1.25
12F48N88H4	600.00	48	480	16	722	88.63	5.56	11.75	1.25
12F48N95H4	600.00	48	480	16	722	95.63	12.56	11.75	1.25
12F54N88H4	675.00	54	480	18	812	88.63	5.56	11.75	1.25
12F54N95H4	675.00	54	480	18	812	95.63	12.56	11.75	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>
14F54N80H4	599.00	54	480	18	721	78.50	10.44	13.00	1.38
14F60N80H4	666.00	60	480	20	801	78.50	10.44	13.00	1.38
14F54N88H4	675.00	54	480	18	812	88.50	5.44	13.00	1.38
14F54N95H4	675.00	54	480	18	812	95.50	12.44	13.00	1.38



## 150# Flanged Immersion Heaters - Type IF

14F60N88H4	750.00	60	480	20	902	88.50	5.44	13.00	1.38
14F60N95H4	750.00	60	480	20	902	95.50	12.44	13.00	1.38
14F72N80H4	799.00	72	480	24	961	78.50	10.44	13.00	1.38
14F72N88H4	900.00	72	480	24	1,083	88.50	5.44	13.00	1.38
14F72N95H4	900.00	72	480	24	1,083	95.50	12.44	13.00	1.38

### 16 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
16F84N80H4	932.00	84	480	28	1,121	78.44	10.38	15.00	1.44
16F90N80H4	999.00	90	480	30	1,202	78.44	10.38	15.00	1.44
16F84N88H4	1,050.00	84	480	28	1,263	88.44	5.38	15.00	1.44
16F84N95H4	1,050.00	84	480	28	1,263	95.44	12.38	15.00	1.44
16F96N80H4	1,066.00	96	480	32	1,282	78.44	10.38	15.00	1.44
16F90N88H4	1,125.00	90	480	30	1,353	88.44	5.38	15.00	1.44
16F90N95H4	1,125.00	90	480	30	1,353	95.44	12.38	15.00	1.44
16F96N88H4	1,200.00	96	480	32	1,443	88.44	5.38	15.00	1.44
16F96N95H4	1,200.00	96	480	32	1,443	95.44	12.38	15.00	1.44

### 18 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
18F108N88H4	1,350.00	108	480	36	1,624	88.31	5.25	17.00	1.56
18F108N95H4	1,350.00	108	480	36	1,624	95.31	12.25	17.00	1.56

### 20 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
20F120N88H4	1,500.00	120	480	40	1,804	88.19	5.13	19.00	1.69
20F120N95H4	1,500.00	120	480	40	1,804	95.19	12.13	19.00	1.69
20F126N88H4	1,575.00	126	480	42	1,894	88.19	5.13	19.00	1.69
20F126N95H4	1,575.00	126	480	42	1,894	95.19	12.13	19.00	1.69
20F132N88H4	1,650.00	132	480	44	1,985	88.19	5.13	19.00	1.69
20F132N95H4	1,650.00	132	480	44	1,985	95.19	12.13	19.00	1.69
20F144N88H4	1,800.00	144	480	48	2,165	88.19	5.13	19.00	1.69
20F144N95H4	1,800.00	144	480	48	2,165	95.19	12.13	19.00	1.69
20F162N88H4	2,025.00	162	480	54	2,436	88.19	5.13	19.00	1.69
20F162N95H4	2,025.00	162	480	54	2,436	95.19	12.13	19.00	1.69
20F180N88H4	2,250.00	180	480	60	2,706	88.19	5.13	19.00	1.69
20F180N95H4	2,250.00	180	480	60	2,706	95.19	12.13	19.00	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N88H4	2,400.00	192	480	64	2,887	88.00	4.94	23.00	1.88
24F192N95H4	2,400.00	192	480	64	2,887	95.00	11.94	23.00	1.88
24F216N88H4	2,700.00	216	480	72	3,248	88.00	4.94	23.00	1.88
24F216N95H4	2,700.00	216	480	72	3,248	95.00	11.94	23.00	1.88
24F234N88H4	2,925.00	234	480	78	3,518	88.00	4.94	23.00	1.88
24F234N95H4	2,925.00	234	480	78	3,518	95.00	11.94	23.00	1.88
24F240N88H4	3,000.00	240	480	80	3,609	88.00	4.94	23.00	1.88
24F240N95H4	3,000.00	240	480	80	3,609	95.00	11.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

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>
3F3N44G4	9.00	3	480	1	11	44.44	10.88	2.90	0.94
3F3N56G4	12.00	3	480	1	14	56.44	10.88	2.90	0.94
3F3N67G4	15.00	3	480	1	18	67.44	10.88	2.90	0.94
3F3N80G4	18.00	3	480	1	22	80.44	12.88	2.90	0.94
3F3N100G4	22.50	3	480	1	27	100.44	12.88	2.90	0.94
3F3N120G4	28.50	3	480	1	34	120.44	12.88	2.90	0.94
3F3N140G4	33.00	3	480	1	40	140.44	16.88	2.90	0.94
3F3N160G4	39.00	3	480	1	47	160.44	16.88	2.90	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>
4F6N44G4	18.00	6	480	1	22	44.44	10.88	3.83	0.94
4F6N56G4	24.00	6	480	1	29	56.44	10.88	3.83	0.94
4F6N67G4	30.00	6	480	1	36	67.44	10.88	3.83	0.94
4F6N80G4	36.00	6	480	1	43	80.44	12.88	3.83	0.94
4F6N100G4	45.00	6	480	2	54	100.44	12.88	3.83	0.94
4F6N120G4	57.00	6	480	2	69	120.44	12.88	3.83	0.94
4F6N140G4	66.00	6	480	2	79	140.44	16.88	3.83	0.94
4F6N160G4	78.00	6	480	2	94	160.44	16.88	3.83	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>
5F9N44G4	27.00	9	480	1	32	44.44	10.88	4.81	0.94
5F9N56G4	36.00	9	480	1	43	56.44	10.88	4.81	0.94
5F9N100G4	67.50	9	480	3	81	100.44	12.88	4.81	0.94
5F9N120G4	85.50	9	480	3	103	120.44	12.88	4.81	0.94
5F9N140G4	99.00	9	480	3	119	140.44	16.88	4.81	0.94
5F9N160G4	117.00	9	480	3	141	160.44	16.88	4.81	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>
6F12N44G4	36.00	12	480	1	43	44.38	10.81	5.76	1.00
6F12N56G4	48.00	12	480	2	58	56.38	10.81	5.76	1.00
6F12N67G4	60.00	12	480	2	72	67.38	10.81	5.76	1.00
6F12N80G4	72.00	12	480	2	87	80.38	12.81	5.76	1.00
6F12N100G4	90.00	12	480	4	108	100.38	12.81	5.76	1.00
6F15N100G4	112.50	15	480	5	135	100.38	12.81	5.76	1.00
6F12N120G4	114.00	12	480	4	137	120.38	12.81	5.76	1.00
6F12N140G4	132.00	12	480	4	159	140.38	16.81	5.76	1.00
6F15N120G4	142.50	15	480	5	171	120.38	12.81	5.76	1.00
6F12N160G4	156.00	12	480	4	188	160.38	16.81	5.76	1.00
6F15N140G4	165.00	15	480	5	198	140.38	16.81	5.76	1.00
6F15N160G4	195.00	15	480	5	235	160.38	16.81	5.76	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>
8F18N44G4	54.00	18	480	2	65	44.25	10.69	7.63	1.13
8F24N44G4	72.00	24	480	2	87	44.25	10.69	7.63	1.13
8F18N56G4	72.00	18	480	2	87	56.25	10.69	7.63	1.13
8F18N67G4	90.00	18	480	3	108	67.25	10.69	7.63	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N56G4	96.00	24	480	4	115	56.25	10.69	7.63	1.13
8F18N80G4	108.00	18	480	3	130	80.25	12.69	7.63	1.13
8F24N67G4	120.00	24	480	4	144	67.25	10.69	7.63	1.13
8F18N100G4	135.00	18	480	6	162	100.25	12.69	7.63	1.13
8F24N80G4	144.00	24	480	4	173	80.25	12.69	7.63	1.13
8F18N120G4	171.00	18	480	6	206	120.25	12.69	7.63	1.13
8F24N100G4	180.00	24	480	8	217	100.25	12.69	7.63	1.13
8F18N140G4	198.00	18	480	6	238	140.25	16.69	7.63	1.13
8F24N120G4	228.00	24	480	8	274	120.25	12.69	7.63	1.13
8F18N160G4	234.00	18	480	6	281	160.25	16.69	7.63	1.13
8F24N140G4	264.00	24	480	8	318	140.25	16.69	7.63	1.13
8F24N160G4	312.00	24	480	8	375	160.25	16.69	7.63	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>
10F36N44G4	108.00	36	480	3	130	44.19	10.63	9.75	1.19
10F30N56G4	120.00	30	480	5	144	56.19	10.63	9.75	1.19
10F36N56G4	144.00	36	480	4	173	56.19	10.63	9.75	1.19
10F30N67G4	150.00	30	480	5	180	67.19	10.63	9.75	1.19
10F36N67G4	180.00	36	480	6	217	67.19	10.63	9.75	1.19
10F30N80G4	180.00	30	480	5	217	80.19	12.63	9.75	1.19
10F36N80G4	216.00	36	480	6	260	80.19	12.63	9.75	1.19
10F30N100G4	225.00	30	480	10	271	100.19	12.63	9.75	1.19
10F36N100G4	270.00	36	480	12	325	100.19	12.63	9.75	1.19
10F30N120G4	285.00	30	480	10	343	120.19	12.63	9.75	1.19
10F30N140G4	330.00	30	480	10	397	140.19	16.63	9.75	1.19
10F36N120G4	342.00	36	480	12	411	120.19	12.63	9.75	1.19
10F30N160G4	390.00	30	480	10	469	160.19	16.63	9.75	1.19
10F36N140G4	396.00	36	480	12	476	140.19	16.63	9.75	1.19
10F36N160G4	468.00	36	480	12	563	160.19	16.63	9.75	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>
12F48N44G4	144.00	48	480	4	173	44.13	10.56	11.75	1.25
12F48N56G4	192.00	48	480	8	231	56.13	10.56	11.75	1.25
12F48N67G4	240.00	48	480	8	289	67.13	10.56	11.75	1.25
12F48N80G4	288.00	48	480	8	346	80.13	12.56	11.75	1.25
12F54N80G4	324.00	54	480	9	390	80.13	12.56	11.75	1.25
12F48N100G4	360.00	48	480	16	433	100.13	12.56	11.75	1.25
12F54N100G4	405.00	54	480	18	487	100.13	12.56	11.75	1.25
12F48N120G4	456.00	48	480	16	548	120.13	12.56	11.75	1.25
12F54N120G4	513.00	54	480	18	617	120.13	12.56	11.75	1.25
12F48N140G4	528.00	48	480	16	635	140.13	16.56	11.75	1.25
12F54N140G4	594.00	54	480	18	714	140.13	16.56	11.75	1.25
12F48N160G4	624.00	48	480	16	751	160.13	16.56	11.75	1.25
12F54N160G4	702.00	54	480	18	844	160.13	16.56	11.75	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>
14F54N80G4	324.00	54	480	9	390	80.00	12.44	13.00	1.38
14F60N80G4	360.00	60	480	10	433	80.00	12.44	13.00	1.38
14F54N100G4	405.00	54	480	18	487	100.00	12.44	13.00	1.38
14F72N80G4	432.00	72	480	12	520	80.00	12.44	13.00	1.38
14F60N100G4	450.00	60	480	20	541	100.00	12.44	13.00	1.38

## 150# Flanged Immersion Heaters - Type IF

14F54N120G4	513.00	54	480	18	617	120.00	12.44	13.00	1.38
14F72N100G4	540.00	72	480	24	650	100.00	12.44	13.00	1.38
14F60N120G4	570.00	60	480	20	686	120.00	12.44	13.00	1.38
14F54N140G4	594.00	54	480	18	714	140.00	16.44	13.00	1.38
14F60N140G4	660.00	60	480	20	794	140.00	16.44	13.00	1.38
14F72N120G4	684.00	72	480	24	823	120.00	12.44	13.00	1.38
14F54N160G4	702.00	54	480	18	844	160.00	16.44	13.00	1.38
14F60N160G4	780.00	60	480	20	938	160.00	16.44	13.00	1.38
14F72N140G4	792.00	72	480	24	953	140.00	16.44	13.00	1.38
14F72N160G4	936.00	72	480	24	1,126	160.00	16.44	13.00	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>
16F84N80G4	504.00	84	480	14	606	79.94	12.38	15.00	1.44
16F90N80G4	540.00	90	480	15	650	79.94	12.38	15.00	1.44
16F96N80G4	576.00	96	480	16	693	79.94	12.38	15.00	1.44
16F84N100G4	630.00	84	480	28	758	99.94	12.38	15.00	1.44
16F90N100G4	675.00	90	480	30	812	99.94	12.38	15.00	1.44
16F96N100G4	720.00	96	480	32	866	99.94	12.38	15.00	1.44
16F84N120G4	798.00	84	480	28	960	119.94	12.38	15.00	1.44
16F90N120G4	855.00	90	480	30	1,028	119.94	12.38	15.00	1.44
16F96N120G4	912.00	96	480	32	1,097	119.94	12.38	15.00	1.44
16F84N140G4	924.00	84	480	28	1,111	139.94	16.38	15.00	1.44
16F90N140G4	990.00	90	480	30	1,191	139.94	16.38	15.00	1.44
16F96N140G4	1,056.00	96	480	32	1,270	139.94	16.38	15.00	1.44
16F84N160G4	1,092.00	84	480	28	1,314	159.94	16.38	15.00	1.44
16F90N160G4	1,170.00	90	480	30	1,407	159.94	16.38	15.00	1.44
16F96N160G4	1,248.00	96	480	32	1,501	159.94	16.38	15.00	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>
18F108N100G4	810.00	108	480	36	974	99.81	12.25	17.00	1.56
18F108N120G4	1,026.00	108	480	36	1,234	119.81	12.25	17.00	1.56
18F108N140G4	1,188.00	108	480	36	1,429	139.81	16.25	17.00	1.56
18F108N160G4	1,404.00	108	480	36	1,689	159.81	16.25	17.00	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>
20F120N100G4	900.00	120	480	40	1,083	99.69	12.13	19.00	1.69
20F126N100G4	945.00	126	480	42	1,137	99.69	12.13	19.00	1.69
20F132N100G4	990.00	132	480	44	1,191	99.69	12.13	19.00	1.69
20F144N100G4	1,080.00	144	480	48	1,299	99.69	12.13	19.00	1.69
20F120N120G4	1,140.00	120	480	40	1,371	119.69	12.13	19.00	1.69
20F126N120G4	1,197.00	126	480	42	1,440	119.69	12.13	19.00	1.69
20F162N100G4	1,215.00	162	480	54	1,461	99.69	12.13	19.00	1.69
20F132N120G4	1,254.00	132	480	44	1,508	119.69	12.13	19.00	1.69
20F120N140G4	1,320.00	120	480	40	1,588	139.69	16.13	19.00	1.69
20F180N100G4	1,350.00	180	480	60	1,624	99.69	12.13	19.00	1.69
20F144N120G4	1,368.00	144	480	48	1,645	119.69	12.13	19.00	1.69
20F126N140G4	1,386.00	126	480	42	1,667	139.69	16.13	19.00	1.69
20F132N140G4	1,452.00	132	480	44	1,747	139.69	16.13	19.00	1.69
20F162N120G4	1,539.00	162	480	54	1,851	119.69	12.13	19.00	1.69
20F120N160G4	1,560.00	120	480	40	1,876	159.69	16.13	19.00	1.69
20F144N140G4	1,584.00	144	480	48	1,905	139.69	16.13	19.00	1.69

## 150# Flanged Immersion Heaters - Type IF

20F126N160G4	1,638.00	126	480	42	1,970	159.69	16.13	19.00	1.69
20F180N120G4	1,710.00	180	480	60	2,057	119.69	12.13	19.00	1.69
20F132N160G4	1,716.00	132	480	44	2,064	159.69	16.13	19.00	1.69
20F162N140G4	1,782.00	162	480	54	2,143	139.69	16.13	19.00	1.69
20F144N160G4	1,872.00	144	480	48	2,252	159.69	16.13	19.00	1.69
20F180N140G4	1,980.00	180	480	60	2,382	139.69	16.13	19.00	1.69
20F162N160G4	2,106.00	162	480	54	2,533	159.69	16.13	19.00	1.69
20F180N160G4	2,340.00	180	480	60	2,815	159.69	16.13	19.00	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N100G4	1,440.00	192	480	64	1,732	99.50	11.94	23.00	1.88
24F216N100G4	1,620.00	216	480	72	1,949	99.50	11.94	23.00	1.88
24F234N100G4	1,755.00	234	480	78	2,111	99.50	11.94	23.00	1.88
24F240N100G4	1,800.00	240	480	80	2,165	99.50	11.94	23.00	1.88
24F192N120G4	1,824.00	192	480	64	2,194	119.50	11.94	23.00	1.88
24F216N120G4	2,052.00	216	480	72	2,468	119.50	11.94	23.00	1.88
24F192N140G4	2,112.00	192	480	64	2,540	139.50	15.94	23.00	1.88
24F234N120G4	2,223.00	234	480	78	2,674	119.50	11.94	23.00	1.88
24F240N120G4	2,280.00	240	480	80	2,742	119.50	11.94	23.00	1.88
24F216N140G4	2,376.00	216	480	72	2,858	139.50	15.94	23.00	1.88
24F192N160G4	2,496.00	192	480	64	3,002	159.50	15.94	23.00	1.88
24F234N140G4	2,574.00	234	480	78	3,096	139.50	15.94	23.00	1.88
24F240N140G4	2,640.00	240	480	80	3,176	139.50	15.94	23.00	1.88
24F216N160G4	2,808.00	216	480	72	3,378	159.50	15.94	23.00	1.88
24F234N160G4	3,042.00	234	480	78	3,659	159.50	15.94	23.00	1.88
24F240N160G4	3,120.00	240	480	80	3,753	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

23 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N10M2	1.50	3	240	1	4	10.44	3.88	2.90	0.94
3F3N13M1	2.25	3	120	1	11	13.44	3.88	2.90	0.94
3F3N13M2	2.25	3	120	1	11	13.44	3.88	2.90	0.94
3F3N13M4	2.25	3	480	1	3	13.44	3.88	2.90	0.94
3F3N18M2	3.00	3	240	1	7	17.94	3.88	2.90	0.94
3F3N18M4	3.00	3	480	1	4	17.94	3.88	2.90	0.94
3F3N20M2	3.75	3	240	1	9	19.94	3.88	2.90	0.94
3F3N20M4	3.75	3	480	1	5	20.44	3.88	2.90	0.94
3F3N25M1	4.50	3	120	1	22	25.44	3.88	2.90	0.94
3F3N25M2	4.50	3	240	1	11	25.44	3.88	2.90	0.94
3F3N25M4	4.50	3	480	1	5	25.44	3.88	2.90	0.94
3F3N33M4	6.00	3	480	1	7	32.94	3.88	2.90	0.94
3F3N40M2	7.50	3	240	1	18	40.44	3.88	2.90	0.94
3F3N40M4	7.50	3	480	1	9	40.44	3.88	2.90	0.94
3F3N48M4	9.00	3	480	1	11	47.94	3.88	2.90	0.94
3F3N52M2	10.00	3	240	1	24	51.94	5.88	2.90	0.94
3F3N52M4	10.00	3	480	1	12	51.94	5.88	2.90	0.94
3F3N59M4	10.00	3	480	1	12	57.94	12.88	2.90	0.94
3F3N64M2	12.75	3	240	1	31	64.44	5.88	2.90	0.94
3F3N64M4	12.75	3	480	1	15	64.44	5.88	2.90	0.94
3F3N73M4	12.75	3	480	1	15	71.94	16.88	2.90	0.94
3F3N77M2	15.00	3	240	1	36	76.94	5.88	2.90	0.94
3F3N77M4	15.00	3	480	1	18	76.94	5.88	2.90	0.94
3F3N88M4	16.75	3	480	1	20	88.94	5.88	2.90	0.94
3F3N95M4	16.75	3	480	1	20	93.94	12.88	2.90	0.94
3F3N106M4	18.75	3	480	1	23	106.44	12.88	2.90	0.94
3F3N120M4	23.25	3	480	1	28	120.44	12.88	2.90	0.94
3F3N140M4	26.25	3	480	1	32	140.44	16.88	2.90	0.94
3F3N160M4	30.00	3	480	1	36	160.44	16.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10M2	3.00	6	240	1	7	10.44	3.88	3.83	0.94
4F6N13M2	4.50	6	120	1	22	13.44	3.88	3.83	0.94
4F6N13M4	4.50	6	480	1	5	13.44	3.88	3.83	0.94
4F6N13M1	4.50	6	120	1	22	13.44	3.88	3.83	0.94
4F6N18M2	6.00	6	240	1	14	17.94	3.88	3.83	0.94
4F6N18M4	6.00	6	480	1	7	17.94	3.88	3.83	0.94
4F6N20M2	7.50	6	240	1	18	19.94	3.88	3.83	0.94
4F6N20M4	7.50	6	480	1	9	20.44	3.88	3.83	0.94
4F6N25M2	9.00	6	240	1	22	25.44	3.88	3.83	0.94
4F6N25M4	9.00	6	480	1	11	25.44	3.88	3.83	0.94
4F6N33M4	12.00	6	480	1	14	32.94	3.88	3.83	0.94
4F6N40M2	15.00	6	240	1	36	40.44	3.88	3.83	0.94
4F6N40M4	15.00	6	480	1	18	40.44	3.88	3.83	0.94
4F6N48M4	18.00	6	480	1	22	47.94	3.88	3.83	0.94
4F6N52M2	20.00	6	240	1	48	51.94	5.88	3.83	0.94
4F6N52M4	20.00	6	480	1	24	51.94	5.88	3.83	0.94
4F6N59M4	20.00	6	480	1	24	57.94	12.88	3.83	0.94
4F6N64M2	25.50	6	240	2	61	64.44	5.88	3.83	0.94

## 150# Flanged Immersion Heaters - Type IF

4F6N64M4	25.50	6	480	1	31	64.44	5.88	3.83	0.94
4F6N73M4	25.50	6	480	1	31	71.94	16.88	3.83	0.94
4F6N77M2	30.00	6	240	2	72	76.94	5.88	3.83	0.94
4F6N77M4	30.00	6	480	1	36	76.94	5.88	3.83	0.94
4F6N88M4	33.50	6	480	1	40	88.94	5.88	3.83	0.94
4F6N95M4	33.50	6	480	1	40	93.94	12.88	3.83	0.94
4F6N106M4	37.75	6	480	1	45	106.44	12.88	3.83	0.94
4F6N120M4	46.75	6	480	2	56	120.44	12.88	3.83	0.94
4F6N140M4	52.50	6	480	2	63	140.44	16.88	3.83	0.94
4F6N160M4	60.00	6	480	2	72	160.44	16.88	3.83	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>
5F9N10M2	4.50	9	240	1	11	10.44	3.88	4.81	0.94
5F9N13M4	6.75	9	480	1	8	13.44	3.88	4.81	0.94
5F9N18M2	9.00	9	240	1	22	17.94	3.88	4.81	0.94
5F9N18M4	9.00	9	480	1	11	17.94	3.88	4.81	0.94
5F9N20M2	11.25	9	240	1	27	19.94	3.88	4.81	0.94
5F9N20M4	11.25	9	480	1	14	20.44	3.88	4.81	0.94
5F9N25M2	13.50	9	240	1	32	25.44	3.88	4.81	0.94
5F9N25M4	13.50	9	480	1	16	25.44	3.88	4.81	0.94
5F9N33M4	18.00	9	480	1	22	32.94	3.88	4.81	0.94
5F9N40M4	22.50	9	480	1	27	40.44	3.88	4.81	0.94
5F9N48M4	27.00	9	480	1	32	47.94	3.88	4.81	0.94
5F9N52M4	30.00	9	480	1	36	51.94	5.88	4.81	0.94
5F9N59M4	30.00	9	480	1	36	57.94	12.88	4.81	0.94
5F9N64M4	38.25	9	480	1	46	64.44	5.88	4.81	0.94
5F9N73M4	38.25	9	480	1	46	71.94	16.88	4.81	0.94
5F9N120M4	70.00	9	480	3	84	120.44	12.88	4.81	0.94
5F9N140M4	78.75	9	480	3	95	140.44	16.88	4.81	0.94
5F9N160M4	90.00	9	480	3	108	160.44	16.88	4.81	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>
6F12N10M2	6.00	12	240	1	14	10.38	3.81	5.76	1.00
6F15N10M2	7.50	15	240	1	18	10.38	3.81	5.76	1.00
6F12N13M4	9.00	12	480	1	11	13.38	3.81	5.76	1.00
6F15N13M4	11.25	15	480	1	14	13.38	3.81	5.76	1.00
6F12N18M4	12.00	12	480	1	14	17.88	3.81	5.76	1.00
6F12N18M2	12.00	12	240	1	29	17.88	3.81	5.76	1.00
6F15N18M2	15.00	15	240	1	36	17.88	3.81	5.76	1.00
6F15N18M4	15.00	15	480	1	18	17.88	3.81	5.76	1.00
6F12N20M2	15.00	12	240	1	36	19.88	3.81	5.76	1.00
6F12N20M4	15.00	12	480	1	18	20.38	3.81	5.76	1.00
6F12N25M2	18.00	12	240	1	43	25.38	3.81	5.76	1.00
6F12N25M4	18.00	12	480	1	22	25.38	3.81	5.76	1.00
6F15N20M2	18.75	15	240	1	45	19.88	3.81	5.76	1.00
6F15N20M4	18.75	15	480	1	23	20.38	3.81	5.76	1.00
6F15N25M4	22.50	15	480	1	27	25.38	3.81	5.76	1.00
6F12N33M4	24.00	12	480	1	29	32.88	3.81	5.76	1.00
6F15N33M4	30.00	15	480	1	36	32.88	3.81	5.76	1.00
6F12N40M2	30.00	12	240	2	72	40.38	3.81	5.76	1.00
6F12N40M4	30.00	12	480	1	36	40.38	3.81	5.76	1.00
6F12N48M4	36.00	12	480	1	43	47.88	3.81	5.76	1.00

## 150# Flanged Immersion Heaters - Type IF

6F15N40M4	37.50	15	480	1	45	40.38	3.81	5.76	1.00
6F12N52M2	40.00	12	240	2	96	51.88	5.81	5.76	1.00
6F12N52M4	40.00	12	480	1	48	51.88	5.81	5.76	1.00
6F12N59M4	40.00	12	480	1	48	57.88	12.81	5.76	1.00
6F12N64M4	51.00	12	480	2	61	64.38	5.81	5.76	1.00
6F12N73M4	51.00	12	480	2	61	71.88	16.81	5.76	1.00
6F12N77M4	60.00	12	480	2	72	76.88	5.81	5.76	1.00
6F12N88M4	67.00	12	480	2	81	88.88	5.81	5.76	1.00
6F12N95M4	67.00	12	480	2	81	93.88	12.81	5.76	1.00
6F12N106M4	75.50	12	480	2	91	106.38	12.81	5.76	1.00
6F12N120M4	93.50	12	480	4	112	120.38	12.81	5.76	1.00
6F12N140M4	105.00	12	480	4	126	140.38	16.81	5.76	1.00
6F15N120M4	117.00	15	480	5	141	120.38	12.81	5.76	1.00
6F12N160M4	120.00	12	480	4	144	160.38	16.81	5.76	1.00
6F15N140M4	131.00	15	480	5	158	140.38	16.81	5.76	1.00
6F15N160M4	150.00	15	480	5	180	160.38	16.81	5.76	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>
8F18N13M4	13.50	18	480	1	16	13.25	3.69	7.63	1.13
8F24N13M4	18.00	24	480	1	22	13.25	3.69	7.63	1.13
8F18N18M4	18.00	18	480	1	22	17.75	3.69	7.63	1.13
8F18N20M4	22.50	18	480	1	27	20.25	3.69	7.63	1.13
8F24N18M4	24.00	24	480	1	29	17.75	3.69	7.63	1.13
8F18N25M4	27.00	18	480	1	32	25.25	3.69	7.63	1.13
8F24N20M4	30.00	24	480	1	36	20.25	3.69	7.63	1.13
8F24N25M4	36.00	24	480	1	43	25.25	3.69	7.63	1.13
8F18N33M4	36.00	18	480	1	43	32.75	3.69	7.63	1.13
8F18N40M4	45.00	18	480	2	54	40.25	3.69	7.63	1.13
8F24N33M4	48.00	24	480	2	58	32.75	3.69	7.63	1.13
8F18N48M4	54.00	18	480	2	65	47.75	3.69	7.63	1.13
8F24N40M4	60.00	24	480	2	72	40.25	3.69	7.63	1.13
8F18N52M4	60.00	18	480	2	72	51.75	5.69	7.63	1.13
8F18N59M4	60.00	18	480	2	72	57.75	12.69	7.63	1.13
8F18N59M2	60.00	18	240	2	144	59.25	12.69	7.63	1.13
8F24N48M4	72.00	24	480	2	87	47.75	3.69	7.63	1.13
8F18N64M4	76.50	18	480	2	92	64.25	5.69	7.63	1.13
8F18N73M4	76.50	18	480	2	92	71.75	16.69	7.63	1.13
8F24N52M4	80.00	24	480	2	96	51.75	5.69	7.63	1.13
8F24N59M4	80.00	24	480	2	96	57.75	12.69	7.63	1.13
8F18N77M4	90.00	18	480	3	108	76.75	5.69	7.63	1.13
8F18N88M4	100.50	18	480	3	121	88.75	5.69	7.63	1.13
8F18N95M4	100.50	18	480	3	121	93.75	12.69	7.63	1.13
8F24N64M4	102.00	24	480	4	123	64.25	5.69	7.63	1.13
8F24N73M4	102.00	24	480	4	123	71.75	16.69	7.63	1.13
8F18N106M4	113.00	18	480	3	136	106.25	12.69	7.63	1.13
8F24N77M4	120.00	24	480	4	144	76.75	5.69	7.63	1.13
8F24N88M4	134.00	24	480	4	161	88.75	5.69	7.63	1.13
8F24N95M4	134.00	24	480	4	161	93.75	12.69	7.63	1.13
8F18N120M4	140.00	18	480	6	168	120.25	12.69	7.63	1.13
8F24N106M4	151.00	24	480	4	182	106.25	12.69	7.63	1.13
8F18N140M4	157.50	18	480	6	189	140.25	16.69	7.63	1.13
8F18N160M4	180.00	18	480	6	217	160.25	16.69	7.63	1.13
8F24N120M4	187.00	24	480	8	225	120.25	12.69	7.63	1.13



## 150# Flanged Immersion Heaters - Type IF

8F24N140M4	210.00	24	480	8	253	140.25	16.69	7.63	1.13
8F24N160M4	240.00	24	480	8	289	160.25	16.69	7.63	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>
10F30N13M4	22.50	30	480	1	27	13.19	3.63	9.75	1.19
10F36N13M4	27.00	36	480	1	32	13.19	3.63	9.75	1.19
10F30N18M4	30.00	30	480	1	36	17.69	3.63	9.75	1.19
10F36N18M4	36.00	36	480	1	43	17.69	3.63	9.75	1.19
10F30N20M4	37.50	30	480	1	45	20.19	3.63	9.75	1.19
10F36N20M4	45.00	36	480	2	54	20.19	3.63	9.75	1.19
10F30N25M4	45.00	30	480	2	54	25.19	3.63	9.75	1.19
10F36N25M4	54.00	36	480	2	65	25.19	3.63	9.75	1.19
10F30N33M4	60.00	30	480	2	72	32.69	3.63	9.75	1.19
10F36N33M4	72.00	36	480	2	87	32.69	3.63	9.75	1.19
10F30N40M4	75.00	30	480	2	90	40.19	3.63	9.75	1.19
10F36N40M4	90.00	36	480	3	108	40.19	3.63	9.75	1.19
10F30N52M4	100.00	30	480	5	120	51.69	5.63	9.75	1.19
10F30N59M4	100.00	30	480	5	120	57.69	12.63	9.75	1.19
10F36N48M4	108.00	36	480	3	130	47.69	3.63	9.75	1.19
10F36N52M4	120.00	36	480	3	144	51.69	5.63	9.75	1.19
10F36N59M4	120.00	36	480	3	144	57.69	12.63	9.75	1.19
10F36N66MX4	120.00	36	480	0	144	64.69	19.63	9.75	1.19
10F30N64M4	127.50	30	480	5	153	64.19	5.63	9.75	1.19
10F30N73M4	127.50	30	480	5	153	71.69	16.63	9.75	1.19
10F30N77M4	150.00	30	480	5	180	76.69	5.63	9.75	1.19
10F36N64M4	153.00	36	480	4	184	64.19	5.63	9.75	1.19
10F36N73M4	153.00	36	480	4	184	71.69	16.63	9.75	1.19
10F30N88M4	168.00	30	480	5	202	88.69	5.63	9.75	1.19
10F30N95M4	168.00	30	480	5	202	93.69	12.63	9.75	1.19
10F36N77M4	180.00	36	480	6	217	76.69	5.63	9.75	1.19
10F30N106M4	189.00	30	480	5	227	106.19	12.63	9.75	1.19
10F36N88M4	201.50	36	480	6	242	88.69	5.63	9.75	1.19
10F36N95M4	201.50	36	480	6	242	93.69	12.63	9.75	1.19
10F36N106M4	226.50	36	480	6	272	106.19	12.63	9.75	1.19
10F30N120M4	234.00	30	480	10	281	120.19	12.63	9.75	1.19
10F30N140M4	262.50	30	480	10	316	140.19	16.63	9.75	1.19
10F36N120M4	280.50	36	480	12	337	120.19	12.63	9.75	1.19
10F30N160M4	300.00	30	480	10	361	160.19	16.63	9.75	1.19
10F36N140M4	315.00	36	480	12	379	140.19	16.63	9.75	1.19
10F36N160M4	360.00	36	480	12	433	160.19	16.63	9.75	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>
12F48N40M4	120.00	48	480	4	144	40.13	3.56	11.75	1.25
12F48N48M4	144.00	48	480	4	173	47.63	3.56	11.75	1.25
12F48N52M4	160.00	48	480	4	192	51.63	5.56	11.75	1.25
12F48N59M4	160.00	48	480	4	192	57.63	12.56	11.75	1.25
12F48N64M4	204.00	48	480	8	245	64.13	5.56	11.75	1.25
12F48N73M4	204.00	48	480	8	245	71.63	16.56	11.75	1.25
12F48N77M4	240.00	48	480	8	289	76.63	5.56	11.75	1.25
12F48N88M4	268.50	48	480	8	323	88.63	5.56	11.75	1.25
12F48N95M4	268.50	48	480	8	323	93.63	12.56	11.75	1.25
12F54N88M4	302.00	54	480	9	363	88.63	5.56	11.75	1.25

## 150# Flanged Immersion Heaters - Type IF

12F54N95M4	302.00	54	480	9	363	93.63	12.56	11.75	1.25
12F48N106M4	302.00	48	480	8	363	106.13	12.56	11.75	1.25
12F54N106M4	340.00	54	480	9	409	106.13	12.56	11.75	1.25
12F48N120M4	374.00	48	480	16	450	120.13	12.56	11.75	1.25
12F48N140M4	420.00	48	480	16	505	140.13	16.56	11.75	1.25
12F54N120M4	421.00	54	480	18	506	120.13	12.56	11.75	1.25
12F54N140M4	472.50	54	480	18	568	140.13	16.56	11.75	1.25
12F48N160M4	480.00	48	480	16	577	160.13	16.56	11.75	1.25
12F54N160M4	540.00	54	480	18	650	160.13	16.56	11.75	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>
14F54N88M4	302.00	54	480	9	363	88.50	5.44	13.00	1.38
14F54N95M4	302.00	54	480	9	363	93.50	12.44	13.00	1.38
14F60N88M4	336.00	60	480	10	404	88.50	5.44	13.00	1.38
14F60N95M4	336.00	60	480	10	404	93.50	12.44	13.00	1.38
14F54N106M4	340.00	54	480	9	409	106.00	12.44	13.00	1.38
14F60N106M4	378.00	60	480	10	455	106.00	12.44	13.00	1.38
14F72N88M4	403.00	72	480	12	485	88.50	5.44	13.00	1.38
14F72N95M4	403.00	72	480	12	485	93.50	12.44	13.00	1.38
14F54N120M4	421.00	54	480	18	506	120.00	12.44	13.00	1.38
14F72N106M4	453.50	72	480	12	545	106.00	12.44	13.00	1.38
14F60N120M4	468.00	60	480	20	563	120.00	12.44	13.00	1.38
14F54N140M4	472.50	54	480	18	568	140.00	16.44	13.00	1.38
14F60N140M4	525.00	60	480	20	631	140.00	16.44	13.00	1.38
14F54N160M4	540.00	54	480	18	650	160.00	16.44	13.00	1.38
14F72N120M4	562.00	72	480	24	676	120.00	12.44	13.00	1.38
14F60N160M4	600.00	60	480	20	722	160.00	16.44	13.00	1.38
14F72N140M4	630.00	72	480	24	758	140.00	16.44	13.00	1.38
14F72N160M4	720.00	72	480	24	866	160.00	16.44	13.00	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>
16F84N88M4	470.00	84	480	14	565	88.44	5.38	15.00	1.44
16F84N95M4	470.00	84	480	14	565	93.44	12.38	15.00	1.44
16F90N88M4	504.00	90	480	15	606	88.44	5.38	15.00	1.44
16F90N95M4	504.00	90	480	15	606	93.44	12.38	15.00	1.44
16F84N106M4	529.00	84	480	14	636	105.94	12.38	15.00	1.44
16F96N88M4	538.00	96	480	16	647	88.44	5.38	15.00	1.44
16F96N95M4	538.00	96	480	16	647	93.44	12.38	15.00	1.44
16F90N106M4	567.00	90	480	15	682	105.94	12.38	15.00	1.44
16F96N106M4	605.00	96	480	16	728	105.94	12.38	15.00	1.44
16F84N120M4	655.00	84	480	28	788	119.94	12.38	15.00	1.44
16F90N120M4	702.00	90	480	30	844	119.94	12.38	15.00	1.44
16F84N140M4	735.00	84	480	28	884	139.94	16.38	15.00	1.44
16F96N120M4	749.00	96	480	32	901	119.94	12.38	15.00	1.44
16F90N140M4	788.00	90	480	30	948	139.94	16.38	15.00	1.44
16F96N140M4	840.00	96	480	32	1,010	139.94	16.38	15.00	1.44
16F84N160M4	840.00	84	480	28	1,010	159.94	16.38	15.00	1.44
16F90N160M4	900.00	90	480	30	1,083	159.94	16.38	15.00	1.44
16F96N160M4	960.00	96	480	32	1,155	159.94	16.38	15.00	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>
--------------------	-----------	-----------------	--------------	-----------------	-------------	------------	-----------	-----------	-----------

## 150# Flanged Immersion Heaters - Type IF

18F108N88M4	605.00	108	480	18	728	88.31	5.25	17.00	1.56
18F108N95M4	605.00	108	480	18	728	93.31	12.25	17.00	1.56
18F108N106M4	680.00	108	480	18	818	105.81	12.25	17.00	1.56
18F108N120M4	842.00	108	480	36	1,013	119.81	12.25	17.00	1.56
18F108N140M4	945.00	108	480	36	1,137	139.81	16.25	17.00	1.56
18F108N160M4	1,080.00	108	480	36	1,299	159.81	16.25	17.00	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>
20F120N88M4	672.00	120	480	20	808	88.19	5.13	19.00	1.69
20F120N95M4	672.00	120	480	20	808	93.19	12.13	19.00	1.69
20F126N88M4	706.00	126	480	21	849	88.19	5.13	19.00	1.69
20F126N95M4	706.00	126	480	21	849	93.19	12.13	19.00	1.69
20F132N88M4	739.00	132	480	22	889	88.19	5.13	19.00	1.69
20F132N95M4	739.00	132	480	22	889	93.19	12.13	19.00	1.69
20F120N106M4	756.00	120	480	20	909	105.69	12.13	19.00	1.69
20F126N106M4	794.00	126	480	21	955	105.69	12.13	19.00	1.69
20F144N88M4	806.00	144	480	24	969	88.19	5.13	19.00	1.69
20F144N95M4	806.00	144	480	24	969	93.19	12.13	19.00	1.69
20F132N106M4	832.00	132	480	22	1,001	105.69	12.13	19.00	1.69
20F162N88M4	907.00	162	480	27	1,091	88.19	5.13	19.00	1.69
20F162N95M4	907.00	162	480	27	1,091	93.19	12.13	19.00	1.69
20F144N106M4	907.00	144	480	24	1,091	105.69	12.13	19.00	1.69
20F120N120M4	936.00	120	480	40	1,126	119.69	12.13	19.00	1.69
20F126N120M4	983.00	126	480	42	1,182	119.69	12.13	19.00	1.69
20F180N88M4	1,008.00	180	480	30	1,212	88.19	5.13	19.00	1.69
20F180N95M4	1,008.00	180	480	30	1,212	93.19	12.13	19.00	1.69
20F162N106M4	1,021.00	162	480	27	1,228	105.69	12.13	19.00	1.69
20F132N120M4	1,030.00	132	480	44	1,239	119.69	12.13	19.00	1.69
20F120N140M4	1,050.00	120	480	40	1,263	139.69	16.13	19.00	1.69
20F126N140M4	1,103.00	126	480	42	1,327	139.69	16.13	19.00	1.69
20F144N120M4	1,123.00	144	480	48	1,351	119.69	12.13	19.00	1.69
20F180N106M4	1,134.00	180	480	30	1,364	105.69	12.13	19.00	1.69
20F132N140M4	1,155.00	132	480	44	1,389	139.69	16.13	19.00	1.69
20F120N160M4	1,200.00	120	480	40	1,443	159.69	16.13	19.00	1.69
20F144N140M4	1,260.00	144	480	48	1,516	139.69	16.13	19.00	1.69
20F126N160M4	1,260.00	126	480	42	1,516	159.69	16.13	19.00	1.69
20F162N120M4	1,264.00	162	480	54	1,520	119.69	12.13	19.00	1.69
20F132N160M4	1,320.00	132	480	44	1,588	159.69	16.13	19.00	1.69
20F180N120M4	1,404.00	180	480	60	1,689	119.69	12.13	19.00	1.69
20F162N140M4	1,418.00	162	480	54	1,706	139.69	16.13	19.00	1.69
20F144N160M4	1,440.00	144	480	48	1,732	159.69	16.13	19.00	1.69
20F180N140M4	1,575.00	180	480	60	1,894	139.69	16.13	19.00	1.69
20F162N160M4	1,620.00	162	480	54	1,949	159.69	16.13	19.00	1.69
20F180N160M4	1,800.00	180	480	60	2,165	159.69	16.13	19.00	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>
24F192N88M4	1,075.00	192	480	32	1,293	88.00	4.94	23.00	1.88
24F192N95M4	1,075.00	192	480	32	1,293	93.00	11.94	23.00	1.88
24F216N88M4	1,210.00	216	480	36	1,455	88.00	4.94	23.00	1.88
24F216N95M4	1,210.00	216	480	36	1,455	93.00	11.94	23.00	1.88
24F192N106M4	1,210.00	192	480	32	1,455	105.50	11.94	23.00	1.88
24F234N88M4	1,310.00	234	480	39	1,576	88.00	4.94	23.00	1.88

## 150# Flanged Immersion Heaters - Type IF

24F234N95M4	1,310.00	234	480	39	1,576	93.00	11.94	23.00	1.88
24F240N88M4	1,344.00	240	480	40	1,617	88.00	4.94	23.00	1.88
24F240N95M4	1,344.00	240	480	40	1,617	93.00	11.94	23.00	1.88
24F216N106M4	1,361.00	216	480	36	1,637	105.50	11.94	23.00	1.88
24F234N106M4	1,474.00	234	480	39	1,773	105.50	11.94	23.00	1.88
24F192N120M4	1,498.00	192	480	64	1,802	119.50	11.94	23.00	1.88
24F240N106M4	1,512.00	240	480	40	1,819	105.50	11.94	23.00	1.88
24F192N140M4	1,680.00	192	480	64	2,021	139.50	15.94	23.00	1.88
24F216N120M4	1,685.00	216	480	72	2,027	119.50	11.94	23.00	1.88
24F234N120M4	1,825.00	234	480	78	2,195	119.50	11.94	23.00	1.88
24F240N120M4	1,872.00	240	480	80	2,252	119.50	11.94	23.00	1.88
24F216N140M4	1,890.00	216	480	72	2,273	139.50	15.94	23.00	1.88
24F192N160M4	1,920.00	192	480	64	2,309	159.50	15.94	23.00	1.88
24F234N140M4	2,048.00	234	480	78	2,463	139.50	15.94	23.00	1.88
24F240N140M4	2,100.00	240	480	80	2,526	139.50	15.94	23.00	1.88
24F216N160M4	2,160.00	216	480	72	2,598	159.50	15.94	23.00	1.88
24F234N160M4	2,340.00	234	480	78	2,815	159.50	15.94	23.00	1.88
24F240N160M4	2,400.00	240	480	80	2,887	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

20 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N18B4Y	2.50	3	480	1	3	17.94	3.88	2.90	0.94
3F3N20B4Y	2.88	3	480	1	3	19.94	3.88	2.90	0.94
3F3N25B4Y	3.75	3	480	1	5	25.44	3.88	2.90	0.94
3F3N25B2Y	3.75	3	240	1	9	25.44	3.88	2.90	0.94
3F3N33B4Y	5.00	3	480	1	6	32.94	3.88	2.90	0.94
3F3N33B2Y	5.00	3	240	1	12	32.94	3.88	2.90	0.94
3F3N38B4Y	6.00	3	480	1	7	38.44	5.88	2.90	0.94
3F3N36B4Y	6.38	3	480	1	8	35.94	3.88	2.90	0.94
3F3N43B4Y	6.63	3	480	1	8	42.94	5.88	2.90	0.94
3F3N52B4Y	8.25	3	480	1	10	51.94	5.88	2.90	0.94
3F3N52B2Y	8.25	3	240	1	20	51.94	5.88	2.90	0.94
3F3N57B4Y	8.25	3	480	1	10	56.94	10.88	2.90	0.94
3F3N61B4Y	10.00	3	480	1	12	61.44	5.88	2.90	0.94
3F3N68B4Y	10.00	3	480	1	12	68.44	12.88	2.90	0.94
3F3N88B4Y	14.75	3	480	1	18	88.94	5.88	2.90	0.94
3F3N106B4Y	16.50	3	480	1	20	106.44	12.88	2.90	0.94
3F3N120B4Y	19.00	3	480	1	23	120.44	12.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N18B4Y	5.00	6	480	1	6	17.94	3.88	3.83	0.94
4F6N20B4Y	5.75	6	480	1	7	19.94	3.88	3.83	0.94
4F6N25B4Y	7.63	6	480	1	9	25.44	3.88	3.83	0.94
4F6N25B2Y	7.63	6	240	1	18	25.44	3.88	3.83	0.94
4F6N33B2Y	10.00	6	240	1	24	32.94	3.88	3.83	0.94
4F6N33B4Y	10.00	6	480	1	12	32.94	3.88	3.83	0.94
4F6N38B4Y	12.00	6	480	1	14	38.44	5.88	3.83	0.94
4F6N36B4Y	12.75	6	480	1	15	35.94	3.88	3.83	0.94
4F6N43B4Y	13.25	6	480	1	16	42.94	5.88	3.83	0.94
4F6N52B2Y	16.50	6	240	1	40	51.94	5.88	3.83	0.94
4F6N52B4Y	16.50	6	480	1	20	51.94	5.88	3.83	0.94
4F6N57B4Y	16.50	6	480	1	20	56.94	10.88	3.83	0.94
4F6N61B4Y	20.00	6	480	1	24	61.44	5.88	3.83	0.94
4F6N68B4Y	20.00	6	480	1	24	68.44	12.88	3.83	0.94
4F6N88B4Y	29.50	6	480	1	35	88.94	5.88	3.83	0.94
4F6N106B4Y	33.25	6	480	1	40	106.44	12.88	3.83	0.94
4F6N120B4Y	38.00	6	480	1	46	120.44	12.88	3.83	0.94

## 5 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
5F9N18B4Y	7.50	9	480	1	9	17.94	3.88	4.81	0.94
5F9N20B4Y	8.63	9	480	1	10	19.94	3.88	4.81	0.94
5F9N25B2Y	11.50	9	240	1	28	25.44	3.88	4.81	0.94
5F9N25B4Y	11.50	9	480	1	14	25.44	3.88	4.81	0.94
5F9N33B2Y	15.00	9	240	1	36	32.94	3.88	4.81	0.94
5F9N33B4Y	15.00	9	480	1	18	32.94	3.88	4.81	0.94
5F9N38B4Y	18.00	9	480	1	22	38.44	5.88	4.81	0.94
5F9N36B4Y	19.25	9	480	1	23	35.94	3.88	4.81	0.94
5F9N43B4Y	20.00	9	480	1	24	42.94	5.88	4.81	0.94
5F9N52B4Y	25.00	9	480	1	30	51.94	5.88	4.81	0.94

## 150# Flanged Immersion Heaters - Type IF

5F9N57B4Y	25.00	9	480	1	30	56.94	10.88	4.81	0.94
5F9N61B4Y	30.00	9	480	1	36	61.44	5.88	4.81	0.94
5F9N68B4Y	30.00	9	480	1	36	68.44	12.88	4.81	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>
6F12N18B4Y	10.00	12	480	1	12	17.88	3.81	5.76	1.00
6F12N20B4Y	11.50	12	480	1	14	19.88	3.81	5.76	1.00
6F15N18B4Y	12.50	15	480	1	15	17.88	3.81	5.76	1.00
6F15N20B4Y	14.50	15	480	1	17	19.88	3.81	5.76	1.00
6F12N25B4Y	15.25	12	480	1	18	25.38	3.81	5.76	1.00
6F12N25B2Y	15.25	12	240	1	37	25.38	3.81	5.76	1.00
6F15N25B2Y	19.25	15	240	1	46	25.38	3.81	5.76	1.00
6F15N25B4Y	19.25	15	480	1	23	25.38	3.81	5.76	1.00
6F12N33B2Y	20.00	12	240	1	48	32.88	3.81	5.76	1.00
6F12N33B4Y	20.00	12	480	1	24	32.88	3.81	5.76	1.00
6F12N38B4Y	24.00	12	480	1	29	38.38	5.81	5.76	1.00
6F15N33B4Y	25.00	15	480	1	30	32.88	3.81	5.76	1.00
6F12N36B4Y	25.75	12	480	1	31	35.88	3.81	5.76	1.00
6F12N43B4Y	26.50	12	480	1	32	42.88	5.81	5.76	1.00
6F15N38B4Y	30.00	15	480	1	36	38.38	5.81	5.76	1.00
6F15N36B4Y	32.25	15	480	1	39	35.88	3.81	5.76	1.00
6F15N43B4Y	33.25	15	480	1	40	42.88	5.81	5.76	1.00
6F12N52B4Y	33.25	12	480	1	40	51.88	5.81	5.76	1.00
6F12N52B2Y	33.25	12	240	2	80	51.88	5.81	5.76	1.00
6F12N57B4Y	33.25	12	480	1	40	56.88	10.81	5.76	1.00
6F12N61B4Y	40.00	12	480	1	48	61.38	5.81	5.76	1.00
6F12N68B4Y	40.00	12	480	1	48	68.38	12.81	5.76	1.00
6F12N88B4Y	59.00	12	480	2	71	88.88	5.81	5.76	1.00
6F12N106B4Y	66.50	12	480	2	80	106.38	12.81	5.76	1.00
6F12N120B4Y	76.00	12	480	2	91	120.38	12.81	5.76	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>
8F18N18B4Y	15.00	18	480	1	18	17.75	3.69	7.63	1.13
8F18N20B4Y	17.25	18	480	1	21	19.75	3.69	7.63	1.13
8F24N18B4Y	20.00	24	480	1	24	17.75	3.69	7.63	1.13
8F24N20B4Y	23.00	24	480	1	28	19.75	3.69	7.63	1.13
8F18N25B4Y	23.00	18	480	1	28	25.25	3.69	7.63	1.13
8F18N33B4Y	30.00	18	480	1	36	32.75	3.69	7.63	1.13
8F24N25B4Y	30.75	24	480	1	37	25.25	3.69	7.63	1.13
8F18N38B4Y	36.00	18	480	1	43	38.25	5.69	7.63	1.13
8F18N36B4Y	38.50	18	480	1	46	35.75	3.69	7.63	1.13
8F24N33B4Y	40.00	24	480	1	48	32.75	3.69	7.63	1.13
8F18N43B4Y	40.00	18	480	1	48	42.75	5.69	7.63	1.13
8F24N38B4Y	48.00	24	480	2	58	38.25	5.69	7.63	1.13
8F18N52B4Y	50.00	18	480	2	60	51.75	5.69	7.63	1.13
8F18N57B4Y	50.00	18	480	2	60	56.75	10.69	7.63	1.13
8F24N36B4Y	51.50	24	480	2	62	35.75	3.69	7.63	1.13
8F24N43B4Y	53.25	24	480	2	64	42.75	5.69	7.63	1.13
8F18N61B4Y	60.00	18	480	2	72	61.25	5.69	7.63	1.13
8F18N68B4Y	60.00	18	480	2	72	68.25	12.69	7.63	1.13
8F24N52B4Y	66.50	24	480	2	80	51.75	5.69	7.63	1.13
8F24N57B4Y	66.50	24	480	2	80	56.75	10.69	7.63	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N61B4Y	80.00	24	480	2	96	61.25	5.69	7.63	1.13
8F24N68B4Y	80.00	24	480	2	96	68.25	12.69	7.63	1.13
8F18N88B4Y	88.75	18	480	3	107	88.75	5.69	7.63	1.13
8F18N106B4Y	100.00	18	480	3	120	106.25	12.69	7.63	1.13
8F18N120B4Y	114.00	18	480	3	137	120.25	12.69	7.63	1.13
8F24N88B4Y	118.00	24	480	4	142	88.75	5.69	7.63	1.13
8F24N106B4Y	133.00	24	480	4	160	106.25	12.69	7.63	1.13
8F24N120B4Y	152.00	24	480	4	183	120.25	12.69	7.63	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>
10F30N18B4Y	25.00	30	480	1	30	17.69	3.63	9.75	1.19
10F30N20B4Y	29.00	30	480	1	35	19.69	3.63	9.75	1.19
10F36N18B4Y	30.00	36	480	1	36	17.69	3.63	9.75	1.19
10F36N20B4Y	34.75	36	480	1	42	19.69	3.63	9.75	1.19
10F30N25B4Y	38.50	30	480	1	46	25.19	3.63	9.75	1.19
10F36N25B4Y	46.00	36	480	2	55	25.19	3.63	9.75	1.19
10F30N33B4Y	50.00	30	480	2	60	32.69	3.63	9.75	1.19
10F36N33B4Y	60.00	36	480	2	72	32.69	3.63	9.75	1.19
10F30N38B4Y	60.00	30	480	2	72	38.19	5.63	9.75	1.19
10F30N36B4Y	64.50	30	480	2	78	35.69	3.63	9.75	1.19
10F30N43B4Y	66.50	30	480	2	80	42.69	5.63	9.75	1.19
10F36N38B4Y	72.00	36	480	2	87	38.19	5.63	9.75	1.19
10F36N36B4Y	77.25	36	480	2	93	35.69	3.63	9.75	1.19
10F36N43B4Y	80.00	36	480	2	96	42.69	5.63	9.75	1.19
10F36N52B4Y	100.00	36	480	3	120	51.69	5.63	9.75	1.19
10F36N57B4Y	100.00	36	480	3	120	56.69	10.63	9.75	1.19
10F30N61B4Y	100.00	30	480	5	120	61.19	5.63	9.75	1.19
10F30N68B4Y	100.00	30	480	5	120	68.19	12.63	9.75	1.19
10F36N61B4Y	120.00	36	480	3	144	61.19	5.63	9.75	1.19
10F36N68B4Y	120.00	36	480	3	144	68.19	12.63	9.75	1.19
10F30N88B4Y	148.00	30	480	5	178	88.69	5.63	9.75	1.19
10F30N106B4Y	166.50	30	480	5	200	106.19	12.63	9.75	1.19
10F36N88B4Y	177.50	36	480	6	214	88.69	5.63	9.75	1.19
10F30N120B4Y	190.00	30	480	5	229	120.19	12.63	9.75	1.19
10F36N106B4Y	200.00	36	480	6	241	106.19	12.63	9.75	1.19
10F36N120B4Y	228.00	36	480	6	274	120.19	12.63	9.75	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>
12F48N43B4Y	106.50	48	480	4	128	42.63	5.56	11.75	1.25
12F48N52B4Y	133.00	48	480	4	160	51.63	5.56	11.75	1.25
12F48N57B4Y	133.00	48	480	4	160	56.63	10.56	11.75	1.25
12F48N61B4Y	160.00	48	480	4	192	61.13	5.56	11.75	1.25
12F48N68B4Y	160.00	48	480	4	192	68.13	12.56	11.75	1.25
12F48N88B4Y	236.50	48	480	8	284	88.63	5.56	11.75	1.25
12F54N88B4Y	266.00	54	480	9	320	88.63	5.56	11.75	1.25
12F48N106B4Y	266.50	48	480	8	321	106.13	12.56	11.75	1.25
12F54N106B4Y	300.00	54	480	9	361	106.13	12.56	11.75	1.25
12F48N120B4Y	304.00	48	480	8	366	120.13	12.56	11.75	1.25
12F54N120B4Y	342.00	54	480	9	411	120.13	12.56	11.75	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>
--------------------	-----------	-----------------	--------------	-----------------	-------------	------------	-----------	-----------	-----------

## 150# Flanged Immersion Heaters - Type IF

14F54N88B4Y	266.00	54	480	9	320	88.50	5.44	13.00	1.38
14F60N88B4Y	296.00	60	480	10	356	88.50	5.44	13.00	1.38
14F54N106B4Y	300.00	54	480	9	361	106.00	12.44	13.00	1.38
14F60N106B4Y	333.00	60	480	10	401	106.00	12.44	13.00	1.38
14F54N120B4Y	342.00	54	480	9	411	120.00	12.44	13.00	1.38
14F72N88B4Y	355.00	72	480	12	427	88.50	5.44	13.00	1.38
14F60N120B4Y	380.00	60	480	10	457	120.00	12.44	13.00	1.38
14F72N106B4Y	400.00	72	480	12	481	106.00	12.44	13.00	1.38
14F72N120B4Y	456.00	72	480	12	548	120.00	12.44	13.00	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>
16F84N88B4Y	414.00	84	480	14	498	88.44	5.38	15.00	1.44
16F90N88B4Y	444.00	90	480	15	534	88.44	5.38	15.00	1.44
16F84N106B4Y	466.50	84	480	14	561	105.94	12.38	15.00	1.44
16F96N88B4Y	473.50	96	480	16	570	88.44	5.38	15.00	1.44
16F90N106B4Y	500.00	90	480	15	601	105.94	12.38	15.00	1.44
16F84N120B4Y	532.00	84	480	14	640	119.94	12.38	15.00	1.44
16F96N106B4Y	533.00	96	480	16	641	105.94	12.38	15.00	1.44
16F90N120B4Y	570.00	90	480	15	686	119.94	12.38	15.00	1.44
16F96N120B4Y	608.00	96	480	16	731	119.94	12.38	15.00	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>
18F108N88B4Y	533.00	108	480	18	641	88.31	5.25	17.00	1.56
18F108N106B4Y	600.00	108	480	18	722	105.81	12.25	17.00	1.56
18F108N120B4Y	684.00	108	480	18	823	119.81	12.25	17.00	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>
20F120N88B4Y	592.00	120	480	20	712	88.19	5.13	19.00	1.69
20F126N88B4Y	622.00	126	480	21	748	88.19	5.13	19.00	1.69
20F132N88B4Y	651.00	132	480	22	783	88.19	5.13	19.00	1.69
20F120N106B4Y	667.00	120	480	20	802	105.69	12.13	19.00	1.69
20F126N106B4Y	700.00	126	480	21	842	105.69	12.13	19.00	1.69
20F144N88B4Y	710.00	144	480	24	854	88.19	5.13	19.00	1.69
20F132N106B4Y	733.00	132	480	22	882	105.69	12.13	19.00	1.69
20F120N120B4Y	760.00	120	480	20	914	119.69	12.13	19.00	1.69
20F126N120B4Y	798.00	126	480	21	960	119.69	12.13	19.00	1.69
20F162N88B4Y	799.00	162	480	27	961	88.19	5.13	19.00	1.69
20F144N106B4Y	800.00	144	480	24	962	105.69	12.13	19.00	1.69
20F132N120B4Y	836.00	132	480	22	1,006	119.69	12.13	19.00	1.69
20F180N88B4Y	888.00	180	480	30	1,068	88.19	5.13	19.00	1.69
20F162N106B4Y	900.00	162	480	27	1,083	105.69	12.13	19.00	1.69
20F144N120B4Y	912.00	144	480	24	1,097	119.69	12.13	19.00	1.69
20F180N106B4Y	1,000.00	180	480	30	1,203	105.69	12.13	19.00	1.69
20F162N120B4Y	1,026.00	162	480	27	1,234	119.69	12.13	19.00	1.69
20F180N120B4Y	1,140.00	180	480	30	1,371	119.69	12.13	19.00	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>
24F192N88B4Y	947.00	192	480	32	1,139	88.00	4.94	23.00	1.88
24F216N88B4Y	1,066.00	216	480	36	1,282	88.00	4.94	23.00	1.88
24F192N106B4Y	1,067.00	192	480	32	1,283	105.50	11.94	23.00	1.88



## 150# Flanged Immersion Heaters - Type IF

24F234N88B4Y	1,154.00	234	480	39	1,388	88.00	4.94	23.00	1.88
24F240N88B4Y	1,184.00	240	480	40	1,424	88.00	4.94	23.00	1.88
24F216N106B4Y	1,200.00	216	480	36	1,443	105.50	11.94	23.00	1.88
24F192N120B4Y	1,216.00	192	480	32	1,463	119.50	11.94	23.00	1.88
24F234N106B4Y	1,300.00	234	480	39	1,564	105.50	11.94	23.00	1.88
24F240N106B4Y	1,333.00	240	480	40	1,603	105.50	11.94	23.00	1.88
24F216N120B4Y	1,368.00	216	480	36	1,645	119.50	11.94	23.00	1.88
24F234N120B4Y	1,482.00	234	480	39	1,783	119.50	11.94	23.00	1.88
24F240N120B4Y	1,520.00	240	480	40	1,828	119.50	11.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

15 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N10H4Y	1.00	3	480	1	1	10.44	3.88	2.90	0.94
3F3N18H2Y	2.00	3	240	1	5	17.94	3.88	2.90	0.94
3F3N18H4Y	2.00	3	480	1	2	17.94	3.88	2.90	0.94
3F3N20H4Y	2.50	3	480	1	3	19.94	3.88	2.90	0.94
3F3N20H2Y	2.50	3	240	1	6	19.94	3.88	2.90	0.94
3F3N25H4Y	3.00	3	480	1	4	25.44	3.88	2.90	0.94
3F3N25H2Y	3.00	3	240	1	7	25.44	3.88	2.90	0.94
3F3N33H4Y	4.00	3	480	1	5	32.94	3.88	2.90	0.94
3F3N33H2Y	4.00	3	240	1	10	32.94	3.88	2.90	0.94
3F3N40H4Y	5.00	3	480	1	6	40.44	3.88	2.90	0.94
3F3N40H2Y	5.00	3	240	1	12	40.44	3.88	2.90	0.94
3F3N48H4Y	6.00	3	480	1	7	47.94	3.88	2.90	0.94
3F3N52H4Y	6.00	3	480	1	7	51.94	5.88	2.90	0.94
3F3N61H4Y	8.25	3	480	1	10	61.44	5.88	2.90	0.94
3F3N68H4Y	8.25	3	480	1	10	68.44	12.88	2.90	0.94
3F3N80H4Y	11.00	3	480	1	13	78.94	10.88	2.90	0.94
3F3N88H4Y	12.50	3	480	1	15	88.94	5.88	2.90	0.94
3F3N95H4Y	12.50	3	480	1	15	95.94	12.88	2.90	0.94
3F3N120H4Y	15.00	3	480	1	18	120.44	14.38	2.90	0.94
3F3N140H4Y	17.50	3	480	1	21	140.44	16.88	2.90	0.94
3F3N160H4Y	20.00	3	480	1	24	160.44	16.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10H4Y	2.00	6	480	1	2	10.44	3.88	3.83	0.94
4F6N18B4S	3.75	6	480	1	5	17.94	3.88	3.83	0.94
4F6N18H4Y	4.00	6	480	1	5	17.94	3.88	3.83	0.94
4F6N18H2Y	4.00	6	240	1	10	17.94	3.88	3.83	0.94
4F6N20B4S	4.25	6	480	1	5	19.94	3.88	3.83	0.94
4F6N20H4Y	5.00	6	480	1	6	19.94	3.88	3.83	0.94
4F6N20H2Y	5.00	6	240	1	12	19.94	3.88	3.83	0.94
4F6N25B2S	5.75	6	240	1	14	25.44	3.88	3.83	0.94
4F6N25B4S	5.75	6	480	1	7	25.44	3.88	3.83	0.94
4F6N25H2Y	6.00	6	240	1	14	25.44	3.88	3.83	0.94
4F6N25H4Y	6.00	6	480	1	7	25.44	3.88	3.83	0.94
4F6N33B4S	7.50	6	480	1	9	32.94	3.88	3.83	0.94
4F6N33B2S	7.50	6	240	1	18	32.94	3.88	3.83	0.94
4F6N33H2Y	8.00	6	240	1	19	32.94	3.88	3.83	0.94
4F6N33H4Y	8.00	6	480	1	10	32.94	3.88	3.83	0.94
4F6N38B4S	9.00	6	480	1	11	38.44	5.88	3.83	0.94
4F6N36B4S	9.63	6	480	1	12	35.94	3.88	3.83	0.94
4F6N40H4Y	10.00	6	480	1	12	40.44	3.88	3.83	0.94
4F6N40H2Y	10.00	6	240	1	24	40.44	3.88	3.83	0.94
4F6N43B4S	10.00	6	480	1	12	42.94	5.88	3.83	0.94
4F6N48H4Y	12.00	6	480	1	14	47.94	3.88	3.83	0.94
4F6N52H4Y	12.00	6	480	1	14	51.94	5.88	3.83	0.94
4F6N52B4S	12.50	6	480	1	15	51.94	5.88	3.83	0.94
4F6N52B2S	12.50	6	240	1	30	51.94	5.88	3.83	0.94
4F6N57B4S	12.50	6	480	1	15	56.94	10.88	3.83	0.94
4F6N61B4S	15.00	6	480	1	18	61.44	5.88	3.83	0.94

## 150# Flanged Immersion Heaters - Type IF

4F6N68B4S	15.00	6	480	1	18	68.44	12.88	3.83	0.94
4F6N61H4Y	16.50	6	480	1	20	61.44	5.88	3.83	0.94
4F6N68H4Y	16.50	6	480	1	20	68.44	12.88	3.83	0.94
4F6N80H4Y	22.00	6	480	1	26	78.94	10.88	3.83	0.94
4F6N88B4S	22.00	6	480	1	26	88.94	5.88	3.83	0.94
4F6N88H4Y	25.00	6	480	1	30	88.94	5.88	3.83	0.94
4F6N95H4Y	25.00	6	480	1	30	95.94	12.88	3.83	0.94
4F6N106B4S	25.00	6	480	1	30	106.44	12.88	3.83	0.94
4F6N120B4S	28.50	6	480	1	34	120.44	12.88	3.83	0.94
4F6N120H4Y	30.00	6	480	1	36	120.44	14.38	3.83	0.94
4F6N140H4Y	35.00	6	480	1	42	140.44	16.88	3.83	0.94
4F6N160H4Y	40.00	6	480	1	48	160.44	16.88	3.83	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>
5F9N10H4Y	3.00	9	480	1	4	10.44	3.88	4.81	0.94
5F9N18H4Y	6.00	9	480	1	7	17.94	3.88	4.81	0.94
5F9N18H2Y	6.00	9	240	1	14	17.94	3.88	4.81	0.94
5F9N20H2Y	7.50	9	240	1	18	19.94	3.88	4.81	0.94
5F9N20H4Y	7.50	9	480	1	9	19.94	3.88	4.81	0.94
5F9N25H2Y	9.00	9	240	1	22	25.44	3.88	4.81	0.94
5F9N25H4Y	9.00	9	480	1	11	25.44	3.88	4.81	0.94
5F9N33H2Y	12.00	9	240	1	29	32.94	3.88	4.81	0.94
5F9N33H4Y	12.00	9	480	1	14	32.94	3.88	4.81	0.94
5F9N40H2Y	15.00	9	240	1	36	40.44	3.88	4.81	0.94
5F9N40H4Y	15.00	9	480	1	18	40.44	3.88	4.81	0.94
5F9N48H4Y	18.00	9	480	1	22	47.94	3.88	4.81	0.94
5F9N52H4Y	18.00	9	480	1	22	51.94	5.88	4.81	0.94
5F9N61H4Y	25.00	9	480	1	30	61.44	5.88	4.81	0.94
5F9N61H2Y	25.00	9	240	1	60	61.44	5.88	4.81	0.94
5F9N68H4Y	25.00	9	480	1	30	68.44	12.88	4.81	0.94
5F9N80H4Y	33.25	9	480	1	40	78.94	10.88	4.81	0.94
5F9N88H4Y	37.50	9	480	1	45	88.94	5.88	4.81	0.94
5F9N95H4Y	37.50	9	480	1	45	95.94	12.88	4.81	0.94
5F9N160H4Y	60.00	9	480	3	72	160.44	16.88	4.81	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>
6F12N10H4Y	4.00	12	480	1	5	10.38	3.81	5.76	1.00
6F15N10H4Y	5.00	15	480	1	6	10.38	3.81	5.76	1.00
6F12N18B4S	7.50	12	480	1	9	17.88	3.81	5.76	1.00
6F12N18H4Y	8.00	12	480	1	10	17.88	3.81	5.76	1.00
6F12N18H2Y	8.00	12	240	1	19	17.88	3.81	5.76	1.00
6F12N20B4S	8.63	12	480	1	10	19.88	3.81	5.76	1.00
6F15N18H2Y	10.00	15	240	1	24	17.88	3.81	5.76	1.00
6F15N18H4Y	10.00	15	480	1	12	17.88	3.81	5.76	1.00
6F12N20H2Y	10.00	12	240	1	24	19.88	3.81	5.76	1.00
6F12N20H4Y	10.00	12	480	1	12	19.88	3.81	5.76	1.00
6F12N25B2S	11.50	12	240	1	28	25.38	3.81	5.76	1.00
6F12N25B4S	11.50	12	480	1	14	25.38	3.81	5.76	1.00
6F12N25H4Y	12.00	12	480	1	14	25.38	3.81	5.76	1.00
6F12N25H2Y	12.00	12	240	1	29	25.38	3.81	5.76	1.00
6F15N20H2Y	12.50	15	240	1	30	19.88	3.81	5.76	1.00
6F15N20H4Y	12.50	15	480	1	15	19.88	3.81	5.76	1.00

## 150# Flanged Immersion Heaters - Type IF

6F15N25H2Y	15.00	15	240	1	36	25.38	3.81	5.76	1.00
6F15N25H4Y	15.00	15	480	1	18	25.38	3.81	5.76	1.00
6F12N33B2S	15.00	12	240	1	36	32.88	3.81	5.76	1.00
6F12N33B4S	15.00	12	480	1	18	32.88	3.81	5.76	1.00
6F12N33H2Y	16.00	12	240	1	38	32.88	3.81	5.76	1.00
6F12N33H4Y	16.00	12	480	1	19	32.88	3.81	5.76	1.00
6F12N38B4S	18.00	12	480	1	22	38.38	5.81	5.76	1.00
6F12N36B4S	19.25	12	480	1	23	35.88	3.81	5.76	1.00
6F15N33H2Y	20.00	15	240	1	48	32.88	3.81	5.76	1.00
6F15N33H4Y	20.00	15	480	1	24	32.88	3.81	5.76	1.00
6F12N40H2Y	20.00	12	240	1	48	40.38	3.81	5.76	1.00
6F12N40H4Y	20.00	12	480	1	24	40.38	3.81	5.76	1.00
6F12N43B4S	20.00	12	480	1	24	42.88	5.81	5.76	1.00
6F12N48H4Y	24.00	12	480	1	29	47.88	3.81	5.76	1.00
6F12N52H4Y	24.00	12	480	1	29	51.88	5.81	5.76	1.00
6F15N40H4Y	25.00	15	480	1	30	40.38	3.81	5.76	1.00
6F12N52B4S	25.00	12	480	1	30	51.88	5.81	5.76	1.00
6F12N52B2S	25.00	12	240	2	60	51.88	5.81	5.76	1.00
6F12N57B4S	25.00	12	480	1	30	56.88	10.81	5.76	1.00
6F15N48H4Y	30.00	15	480	1	36	47.88	3.81	5.76	1.00
6F15N52H4Y	30.00	15	480	1	36	51.88	5.81	5.76	1.00
6F12N61B4S	30.00	12	480	1	36	61.38	5.81	5.76	1.00
6F12N68B4S	30.00	12	480	1	36	68.38	12.81	5.76	1.00
6F12N61H4Y	33.25	12	480	1	40	61.38	5.81	5.76	1.00
6F12N68H4Y	33.25	12	480	1	40	68.38	12.81	5.76	1.00
6F12N80H4Y	44.25	12	480	2	53	78.88	10.81	5.76	1.00
6F12N88B4S	44.25	12	480	2	53	88.88	5.81	5.76	1.00
6F12N88H4Y	50.00	12	480	2	60	88.88	5.81	5.76	1.00
6F12N95H4Y	50.00	12	480	2	60	95.88	12.81	5.76	1.00
6F12N106B4S	50.00	12	480	2	60	106.38	12.81	5.76	1.00
6F12N120B4S	57.00	12	480	2	69	120.38	12.81	5.76	1.00
6F12N120H4Y	60.00	12	480	2	72	120.38	14.31	5.76	1.00
6F12N140H4Y	70.00	12	480	2	84	140.38	16.81	5.76	1.00
6F12N160H4Y	80.00	12	480	2	96	160.38	16.81	5.76	1.00
6F15N160H4Y	100.00	15	480	5	120	160.38	16.81	5.76	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>
8F18N10H4Y	6.00	18	480	1	7	10.25	3.69	7.63	1.13
8F24N10H4Y	8.00	24	480	1	10	10.25	3.69	7.63	1.13
8F18N18B4S	11.25	18	480	1	14	17.75	3.69	7.63	1.13
8F18N18H4Y	12.00	18	480	1	14	17.75	3.69	7.63	1.13
8F18N20B4S	13.00	18	480	1	16	19.75	3.69	7.63	1.13
8F24N18B4S	15.00	24	480	1	18	17.75	3.69	7.63	1.13
8F18N20H4Y	15.00	18	480	1	18	19.75	3.69	7.63	1.13
8F24N18H4Y	16.00	24	480	1	19	17.75	3.69	7.63	1.13
8F24N20B4S	17.25	24	480	1	21	19.75	3.69	7.63	1.13
8F18N25B4S	17.25	18	480	1	21	25.25	3.69	7.63	1.13
8F18N25H4Y	18.00	18	480	1	22	25.25	3.69	7.63	1.13
8F24N20H4Y	20.00	24	480	1	24	19.75	3.69	7.63	1.13
8F18N33B4S	22.50	18	480	1	27	32.75	3.69	7.63	1.13
8F24N25B4S	23.00	24	480	1	28	25.25	3.69	7.63	1.13
8F24N25H4Y	24.00	24	480	1	29	25.25	3.69	7.63	1.13
8F18N33H4Y	24.00	18	480	1	29	32.75	3.69	7.63	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N38B4S	27.00	18	480	1	32	38.25	5.69	7.63	1.13
8F18N36B4S	29.00	18	480	1	35	35.75	3.69	7.63	1.13
8F24N33B4S	30.00	24	480	1	36	32.75	3.69	7.63	1.13
8F18N40H4Y	30.00	18	480	1	36	40.25	3.69	7.63	1.13
8F18N43B4S	30.00	18	480	1	36	42.75	5.69	7.63	1.13
8F24N33H4Y	32.00	24	480	1	38	32.75	3.69	7.63	1.13
8F24N38B4S	36.00	24	480	1	43	38.25	5.69	7.63	1.13
8F18N48H4Y	36.00	18	480	1	43	47.75	3.69	7.63	1.13
8F18N52H4Y	36.00	18	480	1	43	51.75	5.69	7.63	1.13
8F18N52B4S	37.50	18	480	1	45	51.75	5.69	7.63	1.13
8F18N57B4S	37.50	18	480	1	45	56.75	10.69	7.63	1.13
8F24N36B4S	38.50	24	480	1	46	35.75	3.69	7.63	1.13
8F24N40H4Y	40.00	24	480	1	48	40.25	3.69	7.63	1.13
8F24N43B4S	40.00	24	480	1	48	42.75	5.69	7.63	1.13
8F24N48H4Y	48.00	24	480	2	58	47.75	3.69	7.63	1.13
8F24N52H4Y	48.00	24	480	2	58	51.75	5.69	7.63	1.13
8F24N52B4S	50.00	24	480	2	60	51.75	5.69	7.63	1.13
8F24N57B4S	50.00	24	480	2	60	56.75	10.69	7.63	1.13
8F18N61H4Y	50.00	18	480	2	60	61.25	5.69	7.63	1.13
8F18N68H4Y	50.00	18	480	2	60	68.25	12.69	7.63	1.13
8F24N61B4S	60.00	24	480	2	72	61.25	5.69	7.63	1.13
8F24N68B4S	60.00	24	480	2	72	68.25	12.69	7.63	1.13
8F24N61H4Y	66.50	24	480	2	80	61.25	5.69	7.63	1.13
8F24N68H4Y	66.50	24	480	2	80	68.25	12.69	7.63	1.13
8F18N80H4Y	66.50	18	480	2	80	78.75	10.69	7.63	1.13
8F18N88B4S	66.50	18	480	3	80	88.75	5.69	7.63	1.13
8F18N88H4Y	75.00	18	480	2	90	88.75	5.69	7.63	1.13
8F18N95H4Y	75.00	18	480	2	90	95.75	12.69	7.63	1.13
8F18N106B4S	75.00	18	480	3	90	106.25	12.69	7.63	1.13
8F18N120B4S	85.50	18	480	3	103	120.25	12.69	7.63	1.13
8F24N80H4Y	88.75	24	480	4	107	78.75	10.69	7.63	1.13
8F24N88B4S	88.75	24	480	4	107	88.75	5.69	7.63	1.13
8F18N120H4Y	90.00	18	480	3	108	120.25	14.19	7.63	1.13
8F24N88H4Y	100.00	24	480	4	120	88.75	5.69	7.63	1.13
8F24N95H4Y	100.00	24	480	4	120	95.75	12.69	7.63	1.13
8F24N106B4S	100.00	24	480	4	120	106.25	12.69	7.63	1.13
8F18N140H4Y	105.00	18	480	3	126	140.25	16.69	7.63	1.13
8F24N120B4S	114.00	24	480	4	137	120.25	12.69	7.63	1.13
8F24N120H4Y	120.00	24	480	4	144	120.25	14.19	7.63	1.13
8F18N160H4Y	120.00	18	480	3	144	160.25	16.69	7.63	1.13
8F24N140H4Y	140.00	24	480	4	168	140.25	16.69	7.63	1.13
8F24N160H4Y	160.00	24	480	4	192	160.25	16.69	7.63	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>
10F30N10H4Y	10.00	30	480	1	12	10.19	3.63	9.75	1.19
10F36N10H4Y	12.00	36	480	1	14	10.19	3.63	9.75	1.19
10F30N18B4S	18.75	30	480	1	23	17.69	3.63	9.75	1.19
10F30N18H4Y	20.00	30	480	1	24	17.69	3.63	9.75	1.19
10F30N20B4S	21.75	30	480	1	26	19.69	3.63	9.75	1.19
10F36N18B4S	22.50	36	480	1	27	17.69	3.63	9.75	1.19
10F36N18H4Y	24.00	36	480	1	29	17.69	3.63	9.75	1.19
10F30N20H4Y	25.00	30	480	1	30	19.69	3.63	9.75	1.19
10F36N20B4S	26.00	36	480	1	31	19.69	3.63	9.75	1.19

## 150# Flanged Immersion Heaters - Type IF

10F30N25B4S	28.75	30	480	1	35	25.19	3.63	9.75	1.19
10F36N20H4Y	30.00	36	480	1	36	19.69	3.63	9.75	1.19
10F30N25H4Y	30.00	30	480	1	36	25.19	3.63	9.75	1.19
10F36N25B4S	34.50	36	480	1	41	25.19	3.63	9.75	1.19
10F36N25H4Y	36.00	36	480	1	43	25.19	3.63	9.75	1.19
10F30N33B4S	37.50	30	480	1	45	32.69	3.63	9.75	1.19
10F30N33H4Y	40.00	30	480	1	48	32.69	3.63	9.75	1.19
10F36N33B4S	45.00	36	480	2	54	32.69	3.63	9.75	1.19
10F36N33H4Y	48.00	36	480	2	58	32.69	3.63	9.75	1.19
10F30N40H4Y	50.00	30	480	2	60	40.19	3.63	9.75	1.19
10F36N38B4S	54.00	36	480	2	65	38.19	5.63	9.75	1.19
10F36N36B4S	58.00	36	480	2	70	35.69	3.63	9.75	1.19
10F36N40H4Y	60.00	36	480	2	72	40.19	3.63	9.75	1.19
10F36N43B4S	60.00	36	480	2	72	42.69	5.63	9.75	1.19
10F30N48H4Y	60.00	30	480	2	72	47.69	3.63	9.75	1.19
10F30N52H4Y	60.00	30	480	2	72	51.69	5.63	9.75	1.19
10F36N48H4Y	72.00	36	480	2	87	47.69	3.63	9.75	1.19
10F36N52H4Y	72.00	36	480	2	87	51.69	5.63	9.75	1.19
10F36N52B4S	75.00	36	480	2	90	51.69	5.63	9.75	1.19
10F36N57B4S	75.00	36	480	2	90	56.69	10.63	9.75	1.19
10F36N61B4S	90.00	36	480	3	108	61.19	5.63	9.75	1.19
10F36N68B4S	90.00	36	480	3	108	68.19	12.63	9.75	1.19
10F36N61H4Y	100.00	36	480	3	120	61.19	5.63	9.75	1.19
10F36N68H4Y	100.00	36	480	3	120	68.19	12.63	9.75	1.19
10F30N80H4Y	111.00	30	480	5	134	78.69	10.63	9.75	1.19
10F30N88B4S	111.00	30	480	5	134	88.69	5.63	9.75	1.19
10F30N88H4Y	125.00	30	480	5	150	88.69	5.63	9.75	1.19
10F30N95H4Y	125.00	30	480	5	150	95.69	12.63	9.75	1.19
10F30N106B4S	125.00	30	480	5	150	106.19	12.63	9.75	1.19
10F36N80H4Y	133.00	36	480	4	160	78.69	10.63	9.75	1.19
10F36N88B4S	133.00	36	480	6	160	88.69	5.63	9.75	1.19
10F30N120B4S	142.50	30	480	5	171	120.19	12.63	9.75	1.19
10F36N88H4Y	150.00	36	480	4	180	88.69	5.63	9.75	1.19
10F36N95H4Y	150.00	36	480	4	180	95.69	12.63	9.75	1.19
10F36N106B4S	150.00	36	480	6	180	106.19	12.63	9.75	1.19
10F30N120H4Y	150.00	30	480	5	180	120.19	14.13	9.75	1.19
10F36N120B4S	171.00	36	480	6	206	120.19	12.63	9.75	1.19
10F30N140H4Y	175.00	30	480	5	210	140.19	16.63	9.75	1.19
10F36N120H4Y	180.00	36	480	6	217	120.19	14.13	9.75	1.19
10F30N160H4Y	200.00	30	480	5	241	160.19	16.63	9.75	1.19
10F36N140H4Y	210.00	36	480	6	253	140.19	16.63	9.75	1.19
10F36N160H4Y	240.00	36	480	6	289	160.19	16.63	9.75	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>
12F48N40H4Y	80.00	48	480	2	96	40.13	3.56	11.75	1.25
12F48N43B4S	80.00	48	480	2	96	42.63	5.56	11.75	1.25
12F48N48H4Y	96.00	48	480	4	115	47.63	3.56	11.75	1.25
12F48N52H4Y	96.00	48	480	4	115	51.63	5.56	11.75	1.25
12F48N52B4S	100.00	48	480	4	120	51.63	5.56	11.75	1.25
12F48N57B4S	100.00	48	480	4	120	56.63	10.56	11.75	1.25
12F48N61B4S	120.00	48	480	4	144	61.13	5.56	11.75	1.25
12F48N68B4S	120.00	48	480	4	144	68.13	12.56	11.75	1.25
12F48N61H4Y	133.00	48	480	4	160	61.13	5.56	11.75	1.25

## 150# Flanged Immersion Heaters - Type IF

12F48N68H4Y	133.00	48	480	4	160	68.13	12.56	11.75	1.25
12F48N80H4Y	177.50	48	480	8	214	78.63	10.56	11.75	1.25
12F48N88B4S	177.50	48	480	8	214	88.63	5.56	11.75	1.25
12F54N80H4Y	199.50	54	480	6	240	78.63	10.56	11.75	1.25
12F54N88B4S	199.50	54	480	9	240	88.63	5.56	11.75	1.25
12F48N88H4Y	200.00	48	480	8	241	88.63	5.56	11.75	1.25
12F48N95H4Y	200.00	48	480	8	241	95.63	12.56	11.75	1.25
12F48N106B4S	200.00	48	480	8	241	106.13	12.56	11.75	1.25
12F54N88H4Y	225.00	54	480	6	271	88.63	5.56	11.75	1.25
12F54N95H4Y	225.00	54	480	6	271	95.63	12.56	11.75	1.25
12F54N106B4S	225.00	54	480	9	271	106.13	12.56	11.75	1.25
12F48N120B4S	228.00	48	480	8	274	120.13	12.56	11.75	1.25
12F48N120H4Y	240.00	48	480	8	289	120.13	14.06	11.75	1.25
12F54N120B4S	256.50	54	480	9	309	120.13	12.56	11.75	1.25
12F54N120H4Y	270.00	54	480	9	325	120.13	14.06	11.75	1.25
12F48N140H4Y	280.00	48	480	8	337	140.13	16.56	11.75	1.25
12F54N140H4Y	315.00	54	480	9	379	140.13	16.56	11.75	1.25
12F48N160H4Y	320.00	48	480	8	385	160.13	16.56	11.75	1.25
12F54N160H4Y	360.00	54	480	9	433	160.13	16.56	11.75	1.25

### 14 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
14F54N80H4Y	199.50	54	480	6	240	78.50	10.44	13.00	1.38
14F54N88B4S	199.50	54	480	9	240	88.50	5.44	13.00	1.38
14F60N80H4Y	222.00	60	480	10	267	78.50	10.44	13.00	1.38
14F60N88B4S	222.00	60	480	10	267	88.50	5.44	13.00	1.38
14F54N88H4Y	225.00	54	480	6	271	88.50	5.44	13.00	1.38
14F54N95H4Y	225.00	54	480	6	271	95.50	12.44	13.00	1.38
14F54N106B4S	225.00	54	480	9	271	106.00	12.44	13.00	1.38
14F60N88H4Y	250.00	60	480	10	301	88.50	5.44	13.00	1.38
14F60N95H4Y	250.00	60	480	10	301	95.50	12.44	13.00	1.38
14F60N106B4S	250.00	60	480	10	301	106.00	12.44	13.00	1.38
14F54N120B4S	256.50	54	480	9	309	120.00	12.44	13.00	1.38
14F72N80H4Y	266.00	72	480	8	320	78.50	10.44	13.00	1.38
14F72N88B4S	266.00	72	480	12	320	88.50	5.44	13.00	1.38
14F54N120H4Y	270.00	54	480	9	325	120.00	13.94	13.00	1.38
14F60N120B4S	285.00	60	480	10	343	120.00	12.44	13.00	1.38
14F72N88H4Y	300.00	72	480	8	361	88.50	5.44	13.00	1.38
14F72N95H4Y	300.00	72	480	8	361	95.50	12.44	13.00	1.38
14F72N106B4S	300.00	72	480	12	361	106.00	12.44	13.00	1.38
14F60N120H4Y	300.00	60	480	10	361	120.00	13.94	13.00	1.38
14F54N140H4Y	315.00	54	480	9	379	140.00	16.44	13.00	1.38
14F72N120B4S	342.00	72	480	12	411	120.00	12.44	13.00	1.38
14F60N140H4Y	350.00	60	480	10	421	140.00	16.44	13.00	1.38
14F72N120H4Y	360.00	72	480	12	433	120.00	13.94	13.00	1.38
14F54N160H4Y	360.00	54	480	9	433	160.00	16.44	13.00	1.38
14F60N160H4Y	400.00	60	480	10	481	160.00	16.44	13.00	1.38
14F72N140H4Y	420.00	72	480	12	505	140.00	16.44	13.00	1.38
14F72N160H4Y	480.00	72	480	12	577	160.00	16.44	13.00	1.38

### 16 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
16F84N80H4Y	310.50	84	480	14	373	78.44	10.38	15.00	1.44
16F84N88B4S	310.50	84	480	14	373	88.44	5.38	15.00	1.44

## 150# Flanged Immersion Heaters - Type IF

16F90N80H4Y	333.00	90	480	10	401	78.44	10.38	15.00	1.44
16F90N88B4S	333.00	90	480	15	401	88.44	5.38	15.00	1.44
16F84N88H4Y	350.00	84	480	14	421	88.44	5.38	15.00	1.44
16F84N95H4Y	350.00	84	480	14	421	95.44	12.38	15.00	1.44
16F84N106B4S	350.00	84	480	14	421	105.94	12.38	15.00	1.44
16F96N80H4Y	355.00	96	480	16	427	78.44	10.38	15.00	1.44
16F96N88B4S	355.00	96	480	16	427	88.44	5.38	15.00	1.44
16F90N88H4Y	375.00	90	480	10	451	88.44	5.38	15.00	1.44
16F90N95H4Y	375.00	90	480	10	451	95.44	12.38	15.00	1.44
16F90N106B4S	375.00	90	480	15	451	105.94	12.38	15.00	1.44
16F84N120B4S	399.00	84	480	14	480	119.94	12.38	15.00	1.44
16F96N88H4Y	400.00	96	480	16	481	88.44	5.38	15.00	1.44
16F96N95H4Y	400.00	96	480	16	481	95.44	12.38	15.00	1.44
16F96N106B4S	400.00	96	480	16	481	105.94	12.38	15.00	1.44
16F84N120H4Y	420.00	84	480	14	505	119.94	13.88	15.00	1.44
16F90N120B4S	427.50	90	480	15	514	119.94	12.38	15.00	1.44
16F90N120H4Y	450.00	90	480	15	541	119.94	13.88	15.00	1.44
16F96N120B4S	456.00	96	480	16	548	119.94	12.38	15.00	1.44
16F96N120H4Y	480.00	96	480	16	577	119.94	13.88	15.00	1.44
16F84N140H4Y	490.00	84	480	14	589	139.94	16.38	15.00	1.44
16F90N140H4Y	525.00	90	480	15	631	139.94	16.38	15.00	1.44
16F96N140H4Y	560.00	96	480	16	674	139.94	16.38	15.00	1.44
16F84N160H4Y	560.00	84	480	14	674	159.94	16.38	15.00	1.44
16F90N160H4Y	600.00	90	480	15	722	159.94	16.38	15.00	1.44
16F96N160H4Y	640.00	96	480	16	770	159.94	16.38	15.00	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>
18F108N88B4S	399.50	108	480	18	481	88.31	5.25	17.00	1.56
18F108N88H4Y	450.00	108	480	12	541	88.31	5.25	17.00	1.56
18F108N95H4Y	450.00	108	480	12	541	95.31	12.25	17.00	1.56
18F108N106B4S	450.00	108	480	18	541	105.81	12.25	17.00	1.56
18F108N120B4S	513.00	108	480	18	617	119.81	12.25	17.00	1.56
18F108N120H4Y	540.00	108	480	18	650	119.81	13.75	17.00	1.56
18F108N140H4Y	630.00	108	480	18	758	139.81	16.25	17.00	1.56
18F108N160H4Y	720.00	108	480	18	866	159.81	16.25	17.00	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>
20F120N88B4S	444.00	120	480	20	534	88.19	5.13	19.00	1.69
20F126N88B4S	466.00	126	480	21	561	88.19	5.13	19.00	1.69
20F132N88B4S	488.00	132	480	22	587	88.19	5.13	19.00	1.69
20F120N88H4Y	500.00	120	480	20	601	88.19	5.13	19.00	1.69
20F120N95H4Y	500.00	120	480	20	601	95.19	12.13	19.00	1.69
20F120N106B4S	500.00	120	480	20	601	105.69	12.13	19.00	1.69
20F126N88H4Y	525.00	126	480	14	631	88.19	5.13	19.00	1.69
20F126N95H4Y	525.00	126	480	14	631	95.19	12.13	19.00	1.69
20F126N106B4S	525.00	126	480	21	631	105.69	12.13	19.00	1.69
20F144N88B4S	533.00	144	480	24	641	88.19	5.13	19.00	1.69
20F132N88H4Y	550.00	132	480	22	662	88.19	5.13	19.00	1.69
20F132N95H4Y	550.00	132	480	22	662	95.19	12.13	19.00	1.69
20F132N106B4S	550.00	132	480	22	662	105.69	12.13	19.00	1.69
20F120N120B4S	570.00	120	480	20	686	119.69	12.13	19.00	1.69
20F162N88B4S	599.00	162	480	27	721	88.19	5.13	19.00	1.69



## 150# Flanged Immersion Heaters - Type IF

20F126N120B4S	599.00	126	480	21	721	119.69	12.13	19.00	1.69
20F144N88H4Y	600.00	144	480	24	722	88.19	5.13	19.00	1.69
20F144N95H4Y	600.00	144	480	24	722	95.19	12.13	19.00	1.69
20F144N106B4S	600.00	144	480	24	722	105.69	12.13	19.00	1.69
20F120N120H4Y	600.00	120	480	20	722	119.69	13.63	19.00	1.69
20F132N120B4S	627.00	132	480	22	754	119.69	12.13	19.00	1.69
20F126N120H4Y	630.00	126	480	21	758	119.69	13.63	19.00	1.69
20F132N120H4Y	660.00	132	480	22	794	119.69	13.63	19.00	1.69
20F180N88B4S	666.00	180	480	20	801	88.19	5.13	19.00	1.69
20F162N88H4Y	675.00	162	480	18	812	88.19	5.13	19.00	1.69
20F162N95H4Y	675.00	162	480	18	812	95.19	12.13	19.00	1.69
20F162N106B4S	675.00	162	480	27	812	105.69	12.13	19.00	1.69
20F144N120B4S	684.00	144	480	24	823	119.69	12.13	19.00	1.69
20F120N140H4Y	700.00	120	480	20	842	139.69	16.13	19.00	1.69
20F144N120H4Y	720.00	144	480	24	866	119.69	13.63	19.00	1.69
20F126N140H4Y	735.00	126	480	21	884	139.69	16.13	19.00	1.69
20F180N88H4Y	750.00	180	480	20	902	88.19	5.13	19.00	1.69
20F180N95H4Y	750.00	180	480	20	902	95.19	12.13	19.00	1.69
20F180N106B4S	750.00	180	480	20	902	105.69	12.13	19.00	1.69
20F162N120B4S	770.00	162	480	27	926	119.69	12.13	19.00	1.69
20F132N140H4Y	770.00	132	480	22	926	139.69	16.13	19.00	1.69
20F120N160H4Y	800.00	120	480	20	962	159.69	16.13	19.00	1.69
20F162N120H4Y	810.00	162	480	27	974	119.69	13.63	19.00	1.69
20F144N140H4Y	840.00	144	480	24	1,010	139.69	16.13	19.00	1.69
20F126N160H4Y	840.00	126	480	21	1,010	159.69	16.13	19.00	1.69
20F180N120B4S	855.00	180	480	30	1,028	119.69	12.13	19.00	1.69
20F132N160H4Y	880.00	132	480	22	1,059	159.69	16.13	19.00	1.69
20F180N120H4Y	900.00	180	480	30	1,083	119.69	13.63	19.00	1.69
20F162N140H4Y	945.00	162	480	27	1,137	139.69	16.13	19.00	1.69
20F144N160H4Y	960.00	144	480	24	1,155	159.69	16.13	19.00	1.69
20F180N140H4Y	1,050.00	180	480	30	1,263	139.69	16.13	19.00	1.69
20F162N160H4Y	1,080.00	162	480	27	1,299	159.69	16.13	19.00	1.69
20F180N160H4Y	1,200.00	180	480	30	1,443	159.69	16.13	19.00	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N88B4S	710.00	192	480	32	854	88.00	4.94	23.00	1.88
24F216N88B4S	799.00	216	480	36	961	88.00	4.94	23.00	1.88
24F192N88H4Y	800.00	192	480	32	962	88.00	4.94	23.00	1.88
24F192N95H4Y	800.00	192	480	32	962	95.00	11.94	23.00	1.88
24F192N106B4S	800.00	192	480	32	962	105.50	11.94	23.00	1.88
24F234N88B4S	866.00	234	480	39	1,042	88.00	4.94	23.00	1.88
24F240N88B4S	888.00	240	480	40	1,068	88.00	4.94	23.00	1.88
24F216N88H4Y	900.00	216	480	24	1,083	88.00	4.94	23.00	1.88
24F216N95H4Y	900.00	216	480	24	1,083	95.00	11.94	23.00	1.88
24F216N106B4S	900.00	216	480	36	1,083	105.50	11.94	23.00	1.88
24F192N120B4S	912.00	192	480	32	1,097	119.50	11.94	23.00	1.88
24F192N120H4Y	960.00	192	480	32	1,155	119.50	13.44	23.00	1.88
24F234N88H4Y	975.00	234	480	26	1,173	88.00	4.94	23.00	1.88
24F234N95H4Y	975.00	234	480	26	1,173	95.00	11.94	23.00	1.88
24F234N106B4S	975.00	234	480	39	1,173	105.50	11.94	23.00	1.88
24F240N88H4Y	1,000.00	240	480	40	1,203	88.00	4.94	23.00	1.88
24F240N95H4Y	1,000.00	240	480	40	1,203	95.00	11.94	23.00	1.88
24F240N106B4S	1,000.00	240	480	40	1,203	105.50	11.94	23.00	1.88

## 150# Flanged Immersion Heaters - Type IF

24F216N120B4S	1,026.00	216	480	36	1,234	119.50	11.94	23.00	1.88
24F216N120H4Y	1,080.00	216	480	36	1,299	119.50	13.44	23.00	1.88
24F234N120B4S	1,112.00	234	480	39	1,338	119.50	11.94	23.00	1.88
24F192N140H4Y	1,120.00	192	480	32	1,347	139.50	15.94	23.00	1.88
24F240N120B4S	1,140.00	240	480	40	1,371	119.50	11.94	23.00	1.88
24F234N120H4Y	1,170.00	234	480	39	1,407	119.50	13.44	23.00	1.88
24F240N120H4Y	1,200.00	240	480	40	1,443	119.50	13.44	23.00	1.88
24F216N140H4Y	1,260.00	216	480	36	1,516	139.50	15.94	23.00	1.88
24F192N160H4Y	1,280.00	192	480	32	1,540	159.50	15.94	23.00	1.88
24F234N140H4Y	1,365.00	234	480	39	1,642	139.50	15.94	23.00	1.88
24F240N140H4Y	1,400.00	240	480	40	1,684	139.50	15.94	23.00	1.88
24F216N160H4Y	1,440.00	216	480	36	1,732	159.50	15.94	23.00	1.88
24F234N160H4Y	1,560.00	234	480	39	1,876	159.50	15.94	23.00	1.88
24F240N160H4Y	1,600.00	240	480	40	1,925	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

12 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N111F4Y	10.00	3	480	1	12	111.44	16.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10H4S	1.50	6	480	1	2	10.44	3.88	3.83	0.94
4F6N18H4S	3.00	6	480	1	4	17.94	3.88	3.83	0.94
4F6N18H2S	3.00	6	240	1	7	17.94	3.88	3.83	0.94
4F6N20H4S	3.75	6	480	1	5	19.94	3.88	3.83	0.94
4F6N20H2S	3.75	6	240	1	9	19.94	3.88	3.83	0.94
4F6N25H2S	4.50	6	240	1	11	25.44	3.88	3.83	0.94
4F6N25H4S	4.50	6	480	1	5	25.44	3.88	3.83	0.94
4F6N33H4S	6.00	6	480	1	7	32.94	3.88	3.83	0.94
4F6N33H2S	6.00	6	240	1	14	32.94	3.88	3.83	0.94
4F6N40H4S	7.50	6	480	1	9	40.44	3.88	3.83	0.94
4F6N40H2S	7.50	6	240	1	18	40.44	3.88	3.83	0.94
4F6N48H4S	9.00	6	480	1	11	47.94	3.88	3.83	0.94
4F6N52H4S	9.00	6	480	1	11	51.94	5.88	3.83	0.94
4F6N61H4S	12.50	6	480	1	15	61.44	5.88	3.83	0.94
4F6N68H4S	12.50	6	480	1	15	68.44	12.88	3.83	0.94
4F6N80H4S	16.50	6	480	1	20	78.94	10.88	3.83	0.94
4F6N88H4S	18.75	6	480	1	23	88.94	5.88	3.83	0.94
4F6N95H4S	18.75	6	480	1	23	95.94	12.88	3.83	0.94
4F6N111F4Y	20.00	6	480	1	24	111.44	16.88	3.83	0.94
4F6N120H4S	22.50	6	480	1	27	120.44	14.38	3.83	0.94
4F6N140H4S	26.25	6	480	1	32	140.44	16.88	3.83	0.94
4F6N160H4S	30.00	6	480	1	36	160.44	16.88	3.83	0.94

## 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N10H4S	3.00	12	480	1	4	10.38	3.81	5.76	1.00
6F12N18H4S	6.00	12	480	1	7	17.88	3.81	5.76	1.00
6F12N18H2S	6.00	12	240	1	14	17.88	3.81	5.76	1.00
6F12N20H4S	7.50	12	480	1	9	19.88	3.81	5.76	1.00
6F12N20H2S	7.50	12	240	1	18	19.88	3.81	5.76	1.00
6F12N25H4S	9.00	12	480	1	11	25.38	3.81	5.76	1.00
6F12N25H2S	9.00	12	240	1	22	25.38	3.81	5.76	1.00
6F12N33H4S	12.00	12	480	1	14	32.88	3.81	5.76	1.00
6F12N33H2S	12.00	12	240	1	29	32.88	3.81	5.76	1.00
6F12N40H4S	15.00	12	480	1	18	40.38	3.81	5.76	1.00
6F12N40H2S	15.00	12	240	1	36	40.38	3.81	5.76	1.00
6F12N48H4S	18.00	12	480	1	22	47.88	3.81	5.76	1.00
6F12N52H4S	18.00	12	480	1	22	51.88	5.81	5.76	1.00
6F12N61H4S	25.00	12	480	1	30	61.38	5.81	5.76	1.00
6F12N68H4S	25.00	12	480	1	30	68.38	12.81	5.76	1.00
6F12N80H4S	33.25	12	480	1	40	78.88	10.81	5.76	1.00
6F12N88H4S	37.50	12	480	1	45	88.88	5.81	5.76	1.00
6F12N95H4S	37.50	12	480	1	45	95.88	12.81	5.76	1.00
6F12N111F4Y	40.00	12	480	2	48	111.38	16.81	5.76	1.00
6F12N120H4S	45.00	12	480	2	54	120.38	14.31	5.76	1.00
6F12N140H4S	52.50	12	480	2	63	140.38	16.81	5.76	1.00

## 150# Flanged Immersion Heaters - Type IF

6F12N160H4S	60.00	12	480	2	72	160.38	16.81	5.76	1.00
-------------	-------	----	-----	---	----	--------	-------	------	------

### 8 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
8F18N10H4S	4.50	18	480	1	5	10.25	3.69	7.63	1.13
8F24N10H4S	6.00	24	480	1	7	10.25	3.69	7.63	1.13
8F18N18H4S	9.00	18	480	1	11	17.75	3.69	7.63	1.13
8F18N20H4S	11.25	18	480	1	14	19.75	3.69	7.63	1.13
8F24N18H4S	12.00	24	480	1	14	17.75	3.69	7.63	1.13
8F18N25H4S	13.50	18	480	1	16	25.25	3.69	7.63	1.13
8F24N20H4S	15.00	24	480	1	18	19.75	3.69	7.63	1.13
8F24N25H4S	18.00	24	480	1	22	25.25	3.69	7.63	1.13
8F18N33H4S	18.00	18	480	1	22	32.75	3.69	7.63	1.13
8F18N40H4S	22.50	18	480	1	27	40.25	3.69	7.63	1.13
8F24N33H4S	24.00	24	480	1	29	32.75	3.69	7.63	1.13
8F18N48H4S	27.00	18	480	1	32	47.75	3.69	7.63	1.13
8F18N52H4S	27.00	18	480	1	32	51.75	5.69	7.63	1.13
8F24N40H4S	30.00	24	480	1	36	40.25	3.69	7.63	1.13
8F24N48H4S	36.00	24	480	1	43	47.75	3.69	7.63	1.13
8F24N52H4S	36.00	24	480	1	43	51.75	5.69	7.63	1.13
8F18N61H4S	37.50	18	480	1	45	61.25	5.69	7.63	1.13
8F18N68H4S	37.50	18	480	1	45	68.25	12.69	7.63	1.13
8F24N61H4S	50.00	24	480	2	60	61.25	5.69	7.63	1.13
8F24N68H4S	50.00	24	480	2	60	68.25	12.69	7.63	1.13
8F24N80H4S	66.50	24	480	2	80	78.75	10.69	7.63	1.13
8F18N120H4S	67.50	18	480	3	81	120.25	14.19	7.63	1.13
8F24N88H4S	75.00	24	480	2	90	88.75	5.69	7.63	1.13
8F24N95H4S	75.00	24	480	2	90	95.75	12.69	7.63	1.13
8F18N140H4S	78.75	18	480	3	95	140.25	16.69	7.63	1.13
8F24N120H4S	90.00	24	480	4	108	120.25	14.19	7.63	1.13
8F18N160H4S	90.00	18	480	3	108	160.25	16.69	7.63	1.13
8F24N140H4S	105.00	24	480	4	126	140.25	16.69	7.63	1.13
8F24N160H4S	120.00	24	480	4	144	160.25	16.69	7.63	1.13

### 10 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
10F30N10H4S	7.50	30	480	1	9	10.19	3.63	9.75	1.19
10F36N10H4S	9.00	36	480	1	11	10.19	3.63	9.75	1.19
10F30N18H4S	15.00	30	480	1	18	17.69	3.63	9.75	1.19
10F36N18H4S	18.00	36	480	1	22	17.69	3.63	9.75	1.19
10F30N20H4S	18.75	30	480	1	23	19.69	3.63	9.75	1.19
10F36N20H4S	22.50	36	480	1	27	19.69	3.63	9.75	1.19
10F30N25H4S	22.50	30	480	1	27	25.19	3.63	9.75	1.19
10F36N25H4S	27.00	36	480	1	32	25.19	3.63	9.75	1.19
10F30N33H4S	30.00	30	480	1	36	32.69	3.63	9.75	1.19
10F36N33H4S	36.00	36	480	1	43	32.69	3.63	9.75	1.19
10F30N40H4S	37.50	30	480	1	45	40.19	3.63	9.75	1.19
10F36N40H4S	45.00	36	480	2	54	40.19	3.63	9.75	1.19
10F36N48H4S	54.00	36	480	2	65	47.69	3.63	9.75	1.19
10F36N52H4S	54.00	36	480	2	65	51.69	5.63	9.75	1.19
10F36N61H4S	75.00	36	480	2	90	61.19	5.63	9.75	1.19
10F36N68H4S	75.00	36	480	2	90	68.19	12.63	9.75	1.19
10F36N80H4S	99.75	36	480	3	120	78.69	10.63	9.75	1.19
10F36N88H4S	112.50	36	480	3	135	88.69	5.63	9.75	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N95H4S	112.50	36	480	3	135	95.69	12.63	9.75	1.19
10F30N120H4S	112.50	30	480	5	135	120.19	14.13	9.75	1.19
10F30N140H4S	131.00	30	480	5	158	140.19	16.63	9.75	1.19
10F36N120H4S	135.00	36	480	6	162	120.19	14.13	9.75	1.19
10F30N160H4S	150.00	30	480	5	180	160.19	16.63	9.75	1.19
10F36N140H4S	157.50	36	480	6	189	140.19	16.63	9.75	1.19
10F36N160H4S	180.00	36	480	6	217	160.19	16.63	9.75	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>
12F48N40H4S	60.00	48	480	2	72	40.13	3.56	11.75	1.25
12F48N48H4S	72.00	48	480	2	87	47.63	3.56	11.75	1.25
12F48N52H4S	72.00	48	480	2	87	51.63	5.56	11.75	1.25
12F48N61H4S	100.00	48	480	4	120	61.13	5.56	11.75	1.25
12F48N68H4S	100.00	48	480	4	120	68.13	12.56	11.75	1.25
12F48N80H4S	133.00	48	480	4	160	78.63	10.56	11.75	1.25
12F48N88H4S	150.00	48	480	4	180	88.63	5.56	11.75	1.25
12F48N95H4S	150.00	48	480	4	180	95.63	12.56	11.75	1.25
12F48N120H4S	180.00	48	480	8	217	120.13	14.06	11.75	1.25
12F54N120H4S	202.50	54	480	9	244	120.13	14.06	11.75	1.25
12F48N140H4S	210.00	48	480	8	253	140.13	16.56	11.75	1.25
12F54N140H4S	236.00	54	480	9	284	140.13	16.56	11.75	1.25
12F48N160H4S	240.00	48	480	8	289	160.13	16.56	11.75	1.25
12F54N160H4S	270.00	54	480	9	325	160.13	16.56	11.75	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>
14F60N80H4S	166.50	60	480	5	200	78.50	10.44	13.00	1.38
14F60N88H4S	187.50	60	480	5	226	88.50	5.44	13.00	1.38
14F60N95H4S	187.50	60	480	5	226	95.50	12.44	13.00	1.38
14F72N80H4S	199.50	72	480	6	240	78.50	10.44	13.00	1.38
14F54N120H4S	202.50	54	480	9	244	120.00	13.94	13.00	1.38
14F72N88H4S	225.00	72	480	6	271	88.50	5.44	13.00	1.38
14F72N95H4S	225.00	72	480	6	271	95.50	12.44	13.00	1.38
14F60N120H4S	225.00	60	480	10	271	120.00	13.94	13.00	1.38
14F54N140H4S	236.00	54	480	9	284	140.00	16.44	13.00	1.38
14F60N140H4S	262.50	60	480	10	316	140.00	16.44	13.00	1.38
14F72N120H4S	270.00	72	480	12	325	120.00	13.94	13.00	1.38
14F54N160H4S	270.00	54	480	9	325	160.00	16.44	13.00	1.38
14F60N160H4S	300.00	60	480	10	361	160.00	16.44	13.00	1.38
14F72N140H4S	315.00	72	480	12	379	140.00	16.44	13.00	1.38
14F72N160H4S	360.00	72	480	12	433	160.00	16.44	13.00	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>
16F84N80H4S	233.00	84	480	7	280	78.44	10.38	15.00	1.44
16F90N80H4S	249.50	90	480	15	300	78.44	10.38	15.00	1.44
16F84N88H4S	262.50	84	480	7	316	88.44	5.38	15.00	1.44
16F84N95H4S	262.50	84	480	7	316	95.44	12.38	15.00	1.44
16F96N80H4S	266.00	96	480	8	320	78.44	10.38	15.00	1.44
16F90N88H4S	281.00	90	480	15	338	88.44	5.38	15.00	1.44
16F90N95H4S	281.00	90	480	15	338	95.44	12.38	15.00	1.44
16F96N88H4S	300.00	96	480	8	361	88.44	5.38	15.00	1.44
16F96N95H4S	300.00	96	480	8	361	95.44	12.38	15.00	1.44

## 150# Flanged Immersion Heaters - Type IF

16F84N120H4S	315.00	84	480	14	379	119.94	13.88	15.00	1.44
16F90N120H4S	337.50	90	480	15	406	119.94	13.88	15.00	1.44
16F96N120H4S	360.00	96	480	16	433	119.94	13.88	15.00	1.44
16F84N140H4S	367.50	84	480	14	442	139.94	16.38	15.00	1.44
16F90N140H4S	393.50	90	480	15	473	139.94	16.38	15.00	1.44
16F96N140H4S	420.00	96	480	16	505	139.94	16.38	15.00	1.44
16F84N160H4S	420.00	84	480	14	505	159.94	16.38	15.00	1.44
16F90N160H4S	450.00	90	480	15	541	159.94	16.38	15.00	1.44
16F96N160H4S	480.00	96	480	16	577	159.94	16.38	15.00	1.44

### 18 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
18F108N88H4S	337.50	108	480	9	406	88.31	5.25	17.00	1.56
18F108N95H4S	337.50	108	480	9	406	95.31	12.25	17.00	1.56
18F108N120H4S	405.00	108	480	18	487	119.81	13.75	17.00	1.56
18F108N140H4S	472.50	108	480	18	568	139.81	16.25	17.00	1.56
18F108N160H4S	540.00	108	480	18	650	159.81	16.25	17.00	1.56

### 20 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
20F120N88H4S	375.00	120	480	10	451	88.19	5.13	19.00	1.69
20F120N95H4S	375.00	120	480	10	451	95.19	12.13	19.00	1.69
20F132N88H4S	412.50	132	480	11	496	88.19	5.13	19.00	1.69
20F132N95H4S	412.50	132	480	11	496	95.19	12.13	19.00	1.69
20F144N88H4S	450.00	144	480	12	541	88.19	5.13	19.00	1.69
20F144N95H4S	450.00	144	480	12	541	95.19	12.13	19.00	1.69
20F120N120H4S	450.00	120	480	20	541	119.69	13.63	19.00	1.69
20F126N120H4S	472.50	126	480	21	568	119.69	13.63	19.00	1.69
20F132N120H4S	495.00	132	480	22	595	119.69	13.63	19.00	1.69
20F120N140H4S	525.00	120	480	20	631	139.69	16.13	19.00	1.69
20F144N120H4S	540.00	144	480	24	650	119.69	13.63	19.00	1.69
20F126N140H4S	551.00	126	480	21	663	139.69	16.13	19.00	1.69
20F180N88H4S	563.00	180	480	15	677	88.19	5.13	19.00	1.69
20F180N95H4S	563.00	180	480	15	677	95.19	12.13	19.00	1.69
20F132N140H4S	578.00	132	480	22	695	139.69	16.13	19.00	1.69
20F120N160H4S	600.00	120	480	20	722	159.69	16.13	19.00	1.69
20F162N120H4S	608.00	162	480	27	731	119.69	13.63	19.00	1.69
20F144N140H4S	630.00	144	480	24	758	139.69	16.13	19.00	1.69
20F126N160H4S	630.00	126	480	21	758	159.69	16.13	19.00	1.69
20F132N160H4S	660.00	132	480	22	794	159.69	16.13	19.00	1.69
20F180N120H4S	675.00	180	480	20	812	119.69	13.63	19.00	1.69
20F162N140H4S	709.00	162	480	27	853	139.69	16.13	19.00	1.69
20F144N160H4S	720.00	144	480	24	866	159.69	16.13	19.00	1.69
20F180N140H4S	788.00	180	480	20	948	139.69	16.13	19.00	1.69
20F162N160H4S	810.00	162	480	27	974	159.69	16.13	19.00	1.69
20F180N160H4S	900.00	180	480	30	1,083	159.69	16.13	19.00	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N88H4S	600.00	192	480	16	722	88.00	4.94	23.00	1.88
24F192N95H4S	600.00	192	480	16	722	95.00	11.94	23.00	1.88
24F216N88H4S	675.00	216	480	18	812	88.00	4.94	23.00	1.88
24F216N95H4S	675.00	216	480	18	812	95.00	11.94	23.00	1.88
24F192N120H4S	720.00	192	480	32	866	119.50	13.44	23.00	1.88

## 150# Flanged Immersion Heaters - Type IF

24F240N88H4S	750.00	240	480	20	902	88.00	4.94	23.00	1.88
24F240N95H4S	750.00	240	480	20	902	95.00	11.94	23.00	1.88
24F216N120H4S	810.00	216	480	36	974	119.50	13.44	23.00	1.88
24F192N140H4S	840.00	192	480	32	1,010	139.50	15.94	23.00	1.88
24F234N120H4S	878.00	234	480	39	1,056	119.50	13.44	23.00	1.88
24F240N120H4S	900.00	240	480	40	1,083	119.50	13.44	23.00	1.88
24F216N140H4S	945.00	216	480	36	1,137	139.50	15.94	23.00	1.88
24F192N160H4S	960.00	192	480	32	1,155	159.50	15.94	23.00	1.88
24F234N140H4S	1,024.00	234	480	39	1,232	139.50	15.94	23.00	1.88
24F240N140H4S	1,050.00	240	480	40	1,263	139.50	15.94	23.00	1.88
24F216N160H4S	1,080.00	216	480	36	1,299	159.50	15.94	23.00	1.88
24F234N160H4S	1,170.00	234	480	39	1,407	159.50	15.94	23.00	1.88
24F240N160H4S	1,200.00	240	480	40	1,443	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

10 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N44G4Y	3.00	3	480	1	4	44.44	10.88	2.90	0.94
3F3N56G4Y	4.00	3	480	1	5	56.44	10.88	2.90	0.94
3F3N67G4Y	5.00	3	480	1	6	67.44	10.88	2.90	0.94
3F3N80G4Y	6.00	3	480	1	7	80.44	12.88	2.90	0.94
3F3N100G4Y	7.50	3	480	1	9	100.44	12.88	2.90	0.94
3F3N120G4Y	9.50	3	480	1	11	120.44	12.88	2.90	0.94
3F3N140G4Y	11.00	3	480	1	13	140.44	16.88	2.90	0.94
3F3N160G4Y	13.00	3	480	1	16	160.44	16.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N44G4Y	6.00	6	480	1	7	44.44	10.88	3.83	0.94
4F6N56G4Y	8.00	6	480	1	10	56.44	10.88	3.83	0.94
4F6N67G4Y	10.00	6	480	1	12	67.44	10.88	3.83	0.94
4F6N80G4Y	12.00	6	480	1	14	80.44	12.88	3.83	0.94
4F6N100G4Y	15.00	6	480	1	18	100.44	12.88	3.83	0.94
4F6N120G4Y	19.00	6	480	1	23	120.44	12.88	3.83	0.94
4F6N140G4Y	22.00	6	480	1	26	140.44	16.88	3.83	0.94
4F6N160G4Y	26.00	6	480	1	31	160.44	16.88	3.83	0.94

## 5 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
5F9N44G4Y	9.00	9	480	1	11	44.44	10.88	4.81	0.94
5F9N56G4Y	12.00	9	480	1	14	56.44	10.88	4.81	0.94
5F9N67G4Y	15.00	9	480	1	18	67.44	10.88	4.81	0.94
5F9N80G4Y	18.00	9	480	1	22	80.44	12.88	4.81	0.94
5F9N100G4Y	22.50	9	480	1	27	100.44	12.88	4.81	0.94
5F9N120G4Y	28.50	9	480	1	34	120.44	12.88	4.81	0.94
5F9N140G4Y	33.00	9	480	1	40	140.44	16.88	4.81	0.94
5F9N160G4Y	39.00	9	480	1	47	160.44	16.88	4.81	0.94

## 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N44G4Y	12.00	12	480	1	14	44.38	10.81	5.76	1.00
6F15N44G4Y	15.00	15	480	1	18	44.38	10.81	5.76	1.00
6F12N56G4Y	16.00	12	480	1	19	56.38	10.81	5.76	1.00
6F15N56G4Y	20.00	15	480	1	24	56.38	10.81	5.76	1.00
6F12N67G4Y	20.00	12	480	1	24	67.38	10.81	5.76	1.00
6F12N80G4Y	24.00	12	480	1	29	80.38	12.81	5.76	1.00
6F15N67G4Y	25.00	15	480	1	30	67.38	10.81	5.76	1.00
6F15N80G4Y	30.00	15	480	1	36	80.38	12.81	5.76	1.00
6F12N100G4Y	30.00	12	480	1	36	100.38	12.81	5.76	1.00
6F15N100G4Y	37.50	15	480	1	45	100.38	12.81	5.76	1.00
6F12N120G4Y	38.00	12	480	1	46	120.38	12.81	5.76	1.00
6F12N140G4Y	44.00	12	480	2	53	140.38	16.81	5.76	1.00
6F12N160G4Y	52.00	12	480	2	63	160.38	16.81	5.76	1.00

## 8 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
8F18N44G4Y	18.00	18	480	1	22	44.25	10.69	7.63	1.13



## 150# Flanged Immersion Heaters - Type IF

8F24N44G4Y	24.00	24	480	1	29	44.25	10.69	7.63	1.13
8F18N56G4Y	24.00	18	480	1	29	56.25	10.69	7.63	1.13
8F18N67G4Y	30.00	18	480	1	36	67.25	10.69	7.63	1.13
8F24N56G4Y	32.00	24	480	1	38	56.25	10.69	7.63	1.13
8F18N80G4Y	36.00	18	480	1	43	80.25	12.69	7.63	1.13
8F24N67G4Y	40.00	24	480	1	48	67.25	10.69	7.63	1.13
8F18N100G4Y	45.00	18	480	2	54	100.25	12.69	7.63	1.13
8F24N80G4Y	48.00	24	480	2	58	80.25	12.69	7.63	1.13
8F18N120G4Y	57.00	18	480	2	69	120.25	12.69	7.63	1.13
8F24N100G4Y	60.00	24	480	2	72	100.25	12.69	7.63	1.13
8F18N140G4Y	66.00	18	480	2	79	140.25	16.69	7.63	1.13
8F24N120G4Y	76.00	24	480	2	91	120.25	12.69	7.63	1.13
8F18N160G4Y	78.00	18	480	2	94	160.25	16.69	7.63	1.13
8F24N140G4Y	88.00	24	480	4	106	140.25	16.69	7.63	1.13
8F24N160G4Y	104.00	24	480	4	125	160.25	16.69	7.63	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>
10F30N44G4Y	30.00	30	480	1	36	44.19	10.63	9.75	1.19
10F36N44G4Y	36.00	36	480	1	43	44.19	10.63	9.75	1.19
10F30N56G4Y	40.00	30	480	1	48	56.19	10.63	9.75	1.19
10F36N56G4Y	48.00	36	480	2	58	56.19	10.63	9.75	1.19
10F30N67G4Y	50.00	30	480	2	60	67.19	10.63	9.75	1.19
10F36N67G4Y	60.00	36	480	2	72	67.19	10.63	9.75	1.19
10F30N80G4Y	60.00	30	480	2	72	80.19	12.63	9.75	1.19
10F36N80G4Y	72.00	36	480	2	87	80.19	12.63	9.75	1.19
10F30N100G4Y	75.00	30	480	2	90	100.19	12.63	9.75	1.19
10F36N100G4Y	90.00	36	480	3	108	100.19	12.63	9.75	1.19
10F30N140G4Y	110.00	30	480	5	132	140.19	16.63	9.75	1.19
10F36N120G4Y	114.00	36	480	3	137	120.19	12.63	9.75	1.19
10F30N160G4Y	130.00	30	480	5	156	160.19	16.63	9.75	1.19
10F36N140G4Y	132.00	36	480	4	159	140.19	16.63	9.75	1.19
10F36N160G4Y	156.00	36	480	4	188	160.19	16.63	9.75	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>
12F48N44G4Y	48.00	48	480	2	58	44.13	10.56	11.75	1.25
12F48N56G4Y	64.00	48	480	2	77	56.13	10.56	11.75	1.25
12F48N67G4Y	80.00	48	480	2	96	67.13	10.56	11.75	1.25
12F48N80G4Y	96.00	48	480	4	115	80.13	12.56	11.75	1.25
12F54N80G4Y	108.00	54	480	3	130	80.13	12.56	11.75	1.25
12F48N100G4Y	120.00	48	480	4	144	100.13	12.56	11.75	1.25
12F54N100G4Y	135.00	54	480	6	162	100.13	12.56	11.75	1.25
12F48N120G4Y	152.00	48	480	4	183	120.13	12.56	11.75	1.25
12F54N120G4Y	171.00	54	480	6	206	120.13	12.56	11.75	1.25
12F48N140G4Y	176.00	48	480	8	212	140.13	16.56	11.75	1.25
12F54N140G4Y	198.00	54	480	6	238	140.13	16.56	11.75	1.25
12F48N160G4Y	208.00	48	480	8	250	160.13	16.56	11.75	1.25
12F54N160G4Y	234.00	54	480	6	281	160.13	16.56	11.75	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>
14F54N80G4Y	108.00	54	480	3	130	80.00	12.44	13.00	1.38
14F60N80G4Y	120.00	60	480	4	144	80.00	12.44	13.00	1.38

## 150# Flanged Immersion Heaters - Type IF

14F54N100G4Y	135.00	54	480	6	162	100.00	12.44	13.00	1.38
14F72N80G4Y	144.00	72	480	4	173	80.00	12.44	13.00	1.38
14F60N100G4Y	150.00	60	480	4	180	100.00	12.44	13.00	1.38
14F54N120G4Y	171.00	54	480	6	206	120.00	12.44	13.00	1.38
14F72N100G4Y	180.00	72	480	6	217	100.00	12.44	13.00	1.38
14F60N120G4Y	190.00	60	480	5	229	120.00	12.44	13.00	1.38
14F54N140G4Y	198.00	54	480	6	238	140.00	16.44	13.00	1.38
14F60N140G4Y	220.00	60	480	10	265	140.00	16.44	13.00	1.38
14F72N120G4Y	228.00	72	480	6	274	120.00	12.44	13.00	1.38
14F54N160G4Y	234.00	54	480	6	281	160.00	16.44	13.00	1.38
14F60N160G4Y	260.00	60	480	10	313	160.00	16.44	13.00	1.38
14F72N140G4Y	264.00	72	480	8	318	140.00	16.44	13.00	1.38
14F72N160G4Y	312.00	72	480	8	375	160.00	16.44	13.00	1.38

### 16 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
16F84N80G4Y	168.00	84	480	7	202	79.94	12.38	15.00	1.44
16F90N80G4Y	180.00	90	480	5	217	79.94	12.38	15.00	1.44
16F96N80G4Y	192.00	96	480	8	231	79.94	12.38	15.00	1.44
16F84N100G4Y	210.00	84	480	7	253	99.94	12.38	15.00	1.44
16F90N100G4Y	225.00	90	480	10	271	99.94	12.38	15.00	1.44
16F96N100G4Y	240.00	96	480	8	289	99.94	12.38	15.00	1.44
16F84N120G4Y	266.00	84	480	7	320	119.94	12.38	15.00	1.44
16F90N120G4Y	285.00	90	480	10	343	119.94	12.38	15.00	1.44
16F96N120G4Y	304.00	96	480	8	366	119.94	12.38	15.00	1.44
16F84N140G4Y	308.00	84	480	14	370	139.94	16.38	15.00	1.44
16F90N140G4Y	330.00	90	480	10	397	139.94	16.38	15.00	1.44
16F96N140G4Y	352.00	96	480	16	423	139.94	16.38	15.00	1.44
16F84N160G4Y	364.00	84	480	14	438	159.94	16.38	15.00	1.44
16F90N160G4Y	390.00	90	480	10	469	159.94	16.38	15.00	1.44
16F96N160G4Y	416.00	96	480	16	500	159.94	16.38	15.00	1.44

### 18 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
18F108N100G4Y	270.00	108	480	9	325	99.81	12.25	17.00	1.56
18F108N120G4Y	342.00	108	480	9	411	119.81	12.25	17.00	1.56
18F108N140G4Y	396.00	108	480	12	476	139.81	16.25	17.00	1.56
18F108N160G4Y	468.00	108	480	12	563	159.81	16.25	17.00	1.56

### 20 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
20F120N100G4Y	300.00	120	480	8	361	99.69	12.13	19.00	1.69
20F126N100G4Y	315.00	126	480	14	379	99.69	12.13	19.00	1.69
20F132N100G4Y	330.00	132	480	11	397	99.69	12.13	19.00	1.69
20F144N100G4Y	360.00	144	480	12	433	99.69	12.13	19.00	1.69
20F120N120G4Y	380.00	120	480	10	457	119.69	12.13	19.00	1.69
20F126N120G4Y	399.00	126	480	14	480	119.69	12.13	19.00	1.69
20F162N100G4Y	405.00	162	480	18	487	99.69	12.13	19.00	1.69
20F132N120G4Y	418.00	132	480	11	503	119.69	12.13	19.00	1.69
20F120N140G4Y	440.00	120	480	20	529	139.69	16.13	19.00	1.69
20F180N100G4Y	450.00	180	480	12	541	99.69	12.13	19.00	1.69
20F144N120G4Y	456.00	144	480	12	548	119.69	12.13	19.00	1.69
20F126N140G4Y	462.00	126	480	14	556	139.69	16.13	19.00	1.69
20F132N140G4Y	484.00	132	480	22	582	139.69	16.13	19.00	1.69

## 150# Flanged Immersion Heaters - Type IF

20F162N120G4Y	513.00	162	480	18	617	119.69	12.13	19.00	1.69
20F120N160G4Y	520.00	120	480	20	625	159.69	16.13	19.00	1.69
20F144N140G4Y	528.00	144	480	24	635	139.69	16.13	19.00	1.69
20F126N160G4Y	546.00	126	480	14	657	159.69	16.13	19.00	1.69
20F180N120G4Y	570.00	180	480	15	686	119.69	12.13	19.00	1.69
20F132N160G4Y	572.00	132	480	22	688	159.69	16.13	19.00	1.69
20F162N140G4Y	594.00	162	480	18	714	139.69	16.13	19.00	1.69
20F144N160G4Y	624.00	144	480	24	751	159.69	16.13	19.00	1.69
20F180N140G4Y	660.00	180	480	20	794	139.69	16.13	19.00	1.69
20F162N160G4Y	702.00	162	480	18	844	159.69	16.13	19.00	1.69
20F180N160G4Y	780.00	180	480	20	938	159.69	16.13	19.00	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>
24F192N100G4Y	480.00	192	480	16	577	99.50	11.94	23.00	1.88
24F216N100G4Y	540.00	216	480	18	650	99.50	11.94	23.00	1.88
24F234N100G4Y	585.00	234	480	26	704	99.50	11.94	23.00	1.88
24F240N100G4Y	600.00	240	480	16	722	99.50	11.94	23.00	1.88
24F192N120G4Y	608.00	192	480	16	731	119.50	11.94	23.00	1.88
24F216N120G4Y	684.00	216	480	18	823	119.50	11.94	23.00	1.88
24F192N140G4Y	704.00	192	480	32	847	139.50	15.94	23.00	1.88
24F234N120G4Y	741.00	234	480	26	891	119.50	11.94	23.00	1.88
24F240N120G4Y	760.00	240	480	20	914	119.50	11.94	23.00	1.88
24F216N140G4Y	792.00	216	480	24	953	139.50	15.94	23.00	1.88
24F192N160G4Y	832.00	192	480	32	1,001	159.50	15.94	23.00	1.88
24F234N140G4Y	858.00	234	480	26	1,032	139.50	15.94	23.00	1.88
24F240N140G4Y	880.00	240	480	40	1,059	139.50	15.94	23.00	1.88
24F216N160G4Y	936.00	216	480	24	1,126	159.50	15.94	23.00	1.88
24F234N160G4Y	1,014.00	234	480	26	1,220	159.50	15.94	23.00	1.88
24F240N160G4Y	1,040.00	240	480	40	1,251	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

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>
4F6N111F4S	15.00	6	480	1	18	111.44	16.88	3.83	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>
6F12N111F4S	30.00	12	480	2	36	111.38	16.81	5.76	1.00

# 150# Flanged Immersion Heaters - Type IF

8 Watts/Sq. Inch

## 3 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
3F3N10M2Y	0.50	3	240	1	1	10.44	3.88	2.90	0.94
3F3N13M4Y	0.75	3	480	1	1	13.44	3.88	2.90	0.94
3F3N18M2Y	1.00	3	240	1	2	17.94	3.88	2.90	0.94
3F3N18M4Y	1.00	3	480	1	1	17.94	3.88	2.90	0.94
3F3N20M2Y	1.25	3	240	1	3	19.94	3.88	2.90	0.94
3F3N20M4Y	1.25	3	480	1	2	20.44	3.88	2.90	0.94
3F3N25M4Y	1.50	3	480	1	2	25.44	3.88	2.90	0.94
3F3N25M2Y	1.50	3	240	1	4	25.44	3.88	2.90	0.94
3F3N33M4Y	2.00	3	480	1	2	32.94	3.88	2.90	0.94
3F3N40M4Y	2.50	3	480	1	3	40.44	3.88	2.90	0.94
3F3N40M2Y	2.50	3	240	1	6	40.44	3.88	2.90	0.94
3F3N48M4Y	3.00	3	480	1	4	47.94	3.88	2.90	0.94
3F3N52M4Y	3.25	3	480	1	4	51.94	5.88	2.90	0.94
3F3N52M2Y	3.25	3	240	1	8	51.94	5.88	2.90	0.94
3F3N59M4Y	3.25	3	480	1	4	57.94	12.88	2.90	0.94
3F3N64M2Y	4.25	3	240	1	10	64.44	5.88	2.90	0.94
3F3N64M4Y	4.25	3	480	1	5	64.44	5.88	2.90	0.94
3F3N73M4Y	4.25	3	480	1	5	71.94	16.88	2.90	0.94
3F3N77M2Y	5.00	3	240	1	12	76.94	5.88	2.90	0.94
3F3N77M4Y	5.00	3	480	1	6	76.94	5.88	2.90	0.94
3F3N88M4Y	5.50	3	480	1	7	88.94	5.88	2.90	0.94
3F3N95M4Y	5.50	3	480	1	7	93.94	12.88	2.90	0.94
3F3N106M4Y	6.25	3	480	1	8	106.44	12.88	2.90	0.94
3F3N120M4Y	7.75	3	480	1	9	120.44	12.88	2.90	0.94
3F3N140M4Y	8.75	3	480	1	11	140.44	16.88	2.90	0.94
3F3N160M4Y	10.00	3	480	1	12	160.44	16.88	2.90	0.94

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10M2Y	1.00	6	240	1	2	10.44	3.88	3.83	0.94
4F6N13M4Y	1.50	6	480	1	2	13.44	3.88	3.83	0.94
4F6N18M4Y	2.00	6	480	1	2	17.94	3.88	3.83	0.94
4F6N18M2Y	2.00	6	240	1	5	17.94	3.88	3.83	0.94
4F6N20M2Y	2.50	6	240	1	6	19.94	3.88	3.83	0.94
4F6N20M4Y	2.50	6	480	1	3	20.44	3.88	3.83	0.94
4F6N25M2Y	3.00	6	240	1	7	25.44	3.88	3.83	0.94
4F6N25M4Y	3.00	6	480	1	4	25.44	3.88	3.83	0.94
4F6N33M4Y	4.00	6	480	1	5	32.94	3.88	3.83	0.94
4F6N44G4S	4.50	6	480	1	5	44.44	10.88	3.83	0.94
4F6N40M4Y	5.00	6	480	1	6	40.44	3.88	3.83	0.94
4F6N40M2Y	5.00	6	240	1	12	40.44	3.88	3.83	0.94
4F6N48M4Y	6.00	6	480	1	7	47.94	3.88	3.83	0.94
4F6N56G4S	6.00	6	480	1	7	56.44	10.88	3.83	0.94
4F6N52M4Y	6.63	6	480	1	8	51.94	5.88	3.83	0.94
4F6N52M2Y	6.63	6	240	1	16	51.94	5.88	3.83	0.94
4F6N59M4Y	6.63	6	480	1	8	57.94	12.88	3.83	0.94
4F6N67G4S	7.50	6	480	1	9	67.44	10.88	3.83	0.94
4F6N64M4Y	8.50	6	480	1	10	64.44	5.88	3.83	0.94
4F6N64M2Y	8.50	6	240	1	20	64.44	5.88	3.83	0.94
4F6N73M4Y	8.50	6	480	1	10	71.94	16.88	3.83	0.94

## 150# Flanged Immersion Heaters - Type IF

4F6N80G4S	9.00	6	480	1	11	80.44	12.88	3.83	0.94
4F6N77M4Y	10.00	6	480	1	12	76.94	5.88	3.83	0.94
4F6N77M2Y	10.00	6	240	1	24	76.94	5.88	3.83	0.94
4F6N88M4Y	11.00	6	480	1	13	88.94	5.88	3.83	0.94
4F6N95M4Y	11.00	6	480	1	13	93.94	12.88	3.83	0.94
4F6N100G4S	11.25	6	480	1	14	100.44	12.88	3.83	0.94
4F6N106M4Y	12.50	6	480	1	15	106.44	12.88	3.83	0.94
4F6N120G4S	14.25	6	480	1	17	120.44	12.88	3.83	0.94
4F6N120M4Y	15.50	6	480	1	19	120.44	12.88	3.83	0.94
4F6N140G4S	16.50	6	480	1	20	140.44	16.88	3.83	0.94
4F6N140M4Y	17.50	6	480	1	21	140.44	16.88	3.83	0.94
4F6N160G4S	19.50	6	480	1	23	160.44	16.88	3.83	0.94
4F6N160M4Y	20.00	6	480	1	24	160.44	16.88	3.83	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>
5F9N10M2Y	1.50	9	240	1	4	10.44	3.88	4.81	0.94
5F9N13M4Y	2.25	9	480	1	3	13.44	3.88	4.81	0.94
5F9N18M4Y	3.00	9	480	1	4	17.94	3.88	4.81	0.94
5F9N18M2Y	3.00	9	240	1	7	17.94	3.88	4.81	0.94
5F9N20M2Y	3.75	9	240	1	9	19.94	3.88	4.81	0.94
5F9N20M4Y	3.75	9	480	1	5	20.44	3.88	4.81	0.94
5F9N25M4Y	4.50	9	480	1	5	25.44	3.88	4.81	0.94
5F9N25M2Y	4.50	9	240	1	11	25.44	3.88	4.81	0.94
5F9N33M4Y	6.00	9	480	1	7	32.94	3.88	4.81	0.94
5F9N40M2Y	7.50	9	240	1	18	40.44	3.88	4.81	0.94
5F9N40M4Y	7.50	9	480	1	9	40.44	3.88	4.81	0.94
5F9N48M4Y	9.00	9	480	1	11	47.94	3.88	4.81	0.94
5F9N52M4Y	10.00	9	480	1	12	51.94	5.88	4.81	0.94
5F9N52M2Y	10.00	9	240	1	24	51.94	5.88	4.81	0.94
5F9N59M4Y	10.00	9	480	1	12	57.94	12.88	4.81	0.94
5F9N64M4Y	12.75	9	480	1	15	64.44	5.88	4.81	0.94
5F9N64M2Y	12.75	9	240	1	31	64.44	5.88	4.81	0.94
5F9N73M4Y	12.75	9	480	1	15	71.94	16.88	4.81	0.94
5F9N77M2Y	15.00	9	240	1	36	76.94	5.88	4.81	0.94
5F9N77M4Y	15.00	9	480	1	18	76.94	5.88	4.81	0.94
5F9N88M4Y	16.75	9	480	1	20	88.94	5.88	4.81	0.94
5F9N95M4Y	16.75	9	480	1	20	93.94	12.88	4.81	0.94
5F9N106M4Y	18.75	9	480	1	23	106.44	12.88	4.81	0.94
5F9N120M4Y	23.25	9	480	1	28	120.44	12.88	4.81	0.94
5F9N140M4Y	26.25	9	480	1	32	140.44	16.88	4.81	0.94
5F9N160M4Y	30.00	9	480	1	36	160.44	16.88	4.81	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>
6F12N10M2Y	2.00	12	240	1	5	10.38	3.81	5.76	1.00
6F15N10M2Y	2.50	15	240	1	6	10.38	3.81	5.76	1.00
6F12N13M4Y	3.00	12	480	1	4	13.38	3.81	5.76	1.00
6F15N13M4Y	3.75	15	480	1	5	13.38	3.81	5.76	1.00
6F12N18M4Y	4.00	12	480	1	5	17.88	3.81	5.76	1.00
6F12N18M2Y	4.00	12	240	1	10	17.88	3.81	5.76	1.00
6F15N18M4Y	5.00	15	480	1	6	17.88	3.81	5.76	1.00
6F15N18M2Y	5.00	15	240	1	12	17.88	3.81	5.76	1.00
6F12N20M2Y	5.00	12	240	1	12	19.88	3.81	5.76	1.00

## 150# Flanged Immersion Heaters - Type IF

6F12N20M4Y	5.00	12	480	1	6	20.38	3.81	5.76	1.00
6F12N25M4Y	6.00	12	480	1	7	25.38	3.81	5.76	1.00
6F12N25M2Y	6.00	12	240	1	14	25.38	3.81	5.76	1.00
6F15N20M2Y	6.25	15	240	1	15	19.88	3.81	5.76	1.00
6F15N20M4Y	6.25	15	480	1	8	20.38	3.81	5.76	1.00
6F15N25M2Y	7.50	15	240	1	18	25.38	3.81	5.76	1.00
6F15N25M4Y	7.50	15	480	1	9	25.38	3.81	5.76	1.00
6F12N33M4Y	8.00	12	480	1	10	32.88	3.81	5.76	1.00
6F12N44G4S	9.00	12	480	1	11	44.38	10.81	5.76	1.00
6F15N33M4Y	10.00	15	480	1	12	32.88	3.81	5.76	1.00
6F12N40M4Y	10.00	12	480	1	12	40.38	3.81	5.76	1.00
6F12N40M2Y	10.00	12	240	1	24	40.38	3.81	5.76	1.00
6F12N48M4Y	12.00	12	480	1	14	47.88	3.81	5.76	1.00
6F12N56G4S	12.00	12	480	1	14	56.38	10.81	5.76	1.00
6F15N40M4Y	12.50	15	480	1	15	40.38	3.81	5.76	1.00
6F15N40M2Y	12.50	15	240	1	30	40.38	3.81	5.76	1.00
6F12N52M4Y	13.25	12	480	1	16	51.88	5.81	5.76	1.00
6F12N52M2Y	13.25	12	240	1	32	51.88	5.81	5.76	1.00
6F12N59M4Y	13.25	12	480	1	16	57.88	12.81	5.76	1.00
6F15N48M4Y	15.00	15	480	1	18	47.88	3.81	5.76	1.00
6F12N67G4S	15.00	12	480	1	18	67.38	10.81	5.76	1.00
6F15N52M2Y	16.50	15	240	1	40	51.88	5.81	5.76	1.00
6F15N52M4Y	16.50	15	480	1	20	51.88	5.81	5.76	1.00
6F15N59M4Y	16.50	15	480	1	20	57.88	12.81	5.76	1.00
6F12N64M4Y	17.00	12	480	1	20	64.38	5.81	5.76	1.00
6F12N64M2Y	17.00	12	240	1	41	64.38	5.81	5.76	1.00
6F12N73M4Y	17.00	12	480	1	20	71.88	16.81	5.76	1.00
6F12N80G4S	18.00	12	480	1	22	80.38	12.81	5.76	1.00
6F12N77M4Y	20.00	12	480	1	24	76.88	5.81	5.76	1.00
6F12N77M2Y	20.00	12	240	1	48	76.88	5.81	5.76	1.00
6F15N64M4Y	21.25	15	480	1	26	64.38	5.81	5.76	1.00
6F15N73M4Y	21.25	15	480	1	26	71.88	16.81	5.76	1.00
6F12N88M4Y	22.25	12	480	1	27	88.88	5.81	5.76	1.00
6F12N95M4Y	22.25	12	480	1	27	93.88	12.81	5.76	1.00
6F12N100G4S	22.50	12	480	1	27	100.38	12.81	5.76	1.00
6F15N77M4Y	25.00	15	480	1	30	76.88	5.81	5.76	1.00
6F12N106M4Y	25.00	12	480	1	30	106.38	12.81	5.76	1.00
6F15N88M4Y	28.00	15	480	1	34	88.88	5.81	5.76	1.00
6F15N95M4Y	28.00	15	480	1	34	93.88	12.81	5.76	1.00
6F12N120G4S	28.50	12	480	1	34	120.38	12.81	5.76	1.00
6F12N120M4Y	31.00	12	480	1	37	120.38	12.81	5.76	1.00
6F15N106M4Y	31.50	15	480	1	38	106.38	12.81	5.76	1.00
6F12N140G4S	33.00	12	480	1	40	140.38	16.81	5.76	1.00
6F12N140M4Y	35.00	12	480	1	42	140.38	16.81	5.76	1.00
6F15N120M4Y	39.00	15	480	1	47	120.38	12.81	5.76	1.00
6F12N160G4S	39.00	12	480	1	47	160.38	16.81	5.76	1.00
6F12N160M4Y	40.00	12	480	1	48	160.38	16.81	5.76	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>
8F18N13M4Y	4.50	18	480	1	5	13.25	3.69	7.63	1.13
8F24N13M4Y	6.00	24	480	1	7	13.25	3.69	7.63	1.13
8F18N18M4Y	6.00	18	480	1	7	17.75	3.69	7.63	1.13
8F18N20M4Y	7.50	18	480	1	9	20.25	3.69	7.63	1.13

## 150# Flanged Immersion Heaters - Type IF

8F24N18M4Y	8.00	24	480	1	10	17.75	3.69	7.63	1.13
8F18N25M4Y	9.00	18	480	1	11	25.25	3.69	7.63	1.13
8F24N20M4Y	10.00	24	480	1	12	20.25	3.69	7.63	1.13
8F24N25M4Y	12.00	24	480	1	14	25.25	3.69	7.63	1.13
8F18N33M4Y	12.00	18	480	1	14	32.75	3.69	7.63	1.13
8F18N44G4S	13.50	18	480	1	16	44.25	10.69	7.63	1.13
8F18N40M4Y	15.00	18	480	1	18	40.25	3.69	7.63	1.13
8F24N33M4Y	16.00	24	480	1	19	32.75	3.69	7.63	1.13
8F24N44G4S	18.00	24	480	1	22	44.25	10.69	7.63	1.13
8F18N48M4Y	18.00	18	480	1	22	47.75	3.69	7.63	1.13
8F18N56G4S	18.00	18	480	1	22	56.25	10.69	7.63	1.13
8F24N40M4Y	20.00	24	480	1	24	40.25	3.69	7.63	1.13
8F18N52M4Y	20.00	18	480	1	24	51.75	5.69	7.63	1.13
8F18N59M4Y	20.00	18	480	1	24	57.75	12.69	7.63	1.13
8F18N67G4S	22.50	18	480	1	27	67.25	10.69	7.63	1.13
8F24N48M4Y	24.00	24	480	1	29	47.75	3.69	7.63	1.13
8F24N56G4S	24.00	24	480	1	29	56.25	10.69	7.63	1.13
8F18N64M4Y	25.50	18	480	1	31	64.25	5.69	7.63	1.13
8F18N73M4Y	25.50	18	480	1	31	71.75	16.69	7.63	1.13
8F24N52M4Y	26.50	24	480	1	32	51.75	5.69	7.63	1.13
8F24N59M4Y	26.50	24	480	1	32	57.75	12.69	7.63	1.13
8F18N80G4S	27.00	18	480	1	32	80.25	12.69	7.63	1.13
8F24N67G4S	30.00	24	480	1	36	67.25	10.69	7.63	1.13
8F18N77M4Y	30.00	18	480	1	36	76.75	5.69	7.63	1.13
8F18N88M4Y	33.50	18	480	1	40	88.75	5.69	7.63	1.13
8F18N95M4Y	33.50	18	480	1	40	93.75	12.69	7.63	1.13
8F18N100G4S	33.75	18	480	1	41	100.25	12.69	7.63	1.13
8F24N64M4Y	34.00	24	480	1	41	64.25	5.69	7.63	1.13
8F24N73M4Y	34.00	24	480	1	41	71.75	16.69	7.63	1.13
8F24N80G4S	36.00	24	480	1	43	80.25	12.69	7.63	1.13
8F18N106M4Y	37.75	18	480	1	45	106.25	12.69	7.63	1.13
8F24N77M4Y	40.00	24	480	1	48	76.75	5.69	7.63	1.13
8F24N88M4Y	44.75	24	480	2	54	88.75	5.69	7.63	1.13
8F24N95M4Y	44.75	24	480	2	54	93.75	12.69	7.63	1.13
8F24N100G4S	45.00	24	480	2	54	100.25	12.69	7.63	1.13
8F18N120M4Y	46.75	18	480	2	56	120.25	12.69	7.63	1.13
8F24N106M4Y	50.25	24	480	2	60	106.25	12.69	7.63	1.13
8F18N140M4Y	52.50	18	480	2	63	140.25	16.69	7.63	1.13
8F24N120G4S	57.00	24	480	2	69	120.25	12.69	7.63	1.13
8F18N160M4Y	60.00	18	480	2	72	160.25	16.69	7.63	1.13
8F24N120M4Y	62.25	24	480	2	75	120.25	12.69	7.63	1.13
8F24N140G4S	66.00	24	480	2	79	140.25	16.69	7.63	1.13
8F24N140M4Y	70.00	24	480	2	84	140.25	16.69	7.63	1.13
8F24N160G4S	78.00	24	480	2	94	160.25	16.69	7.63	1.13
8F24N160M4Y	80.00	24	480	2	96	160.25	16.69	7.63	1.13

### 10 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
10F30N13M4Y	7.50	30	480	1	9	13.19	3.63	9.75	1.19
10F36N13M4Y	9.00	36	480	1	11	13.19	3.63	9.75	1.19
10F30N18M4Y	10.00	30	480	1	12	17.69	3.63	9.75	1.19
10F36N18M4Y	12.00	36	480	1	14	17.69	3.63	9.75	1.19
10F30N20M4Y	12.50	30	480	1	15	20.19	3.63	9.75	1.19
10F36N20M4Y	15.00	36	480	1	18	20.19	3.63	9.75	1.19



## 150# Flanged Immersion Heaters - Type IF

10F30N25M4Y	15.00	30	480	1	18	25.19	3.63	9.75	1.19
10F36N25M4Y	18.00	36	480	1	22	25.19	3.63	9.75	1.19
10F30N33M4Y	20.00	30	480	1	24	32.69	3.63	9.75	1.19
10F30N44G4S	22.50	30	480	1	27	44.19	10.63	9.75	1.19
10F36N33M4Y	24.00	36	480	1	29	32.69	3.63	9.75	1.19
10F30N40M4Y	25.00	30	480	1	30	40.19	3.63	9.75	1.19
10F36N44G4S	27.00	36	480	1	32	44.19	10.63	9.75	1.19
10F36N40M4Y	30.00	36	480	1	36	40.19	3.63	9.75	1.19
10F30N48M4Y	30.00	30	480	1	36	47.69	3.63	9.75	1.19
10F30N56G4S	30.00	30	480	1	36	56.19	10.63	9.75	1.19
10F30N52M4Y	33.25	30	480	1	40	51.69	5.63	9.75	1.19
10F30N59M4Y	33.25	30	480	1	40	57.69	12.63	9.75	1.19
10F36N48M4Y	36.00	36	480	1	43	47.69	3.63	9.75	1.19
10F36N56G4S	36.00	36	480	1	43	56.19	10.63	9.75	1.19
10F30N67G4S	37.50	30	480	1	45	67.19	10.63	9.75	1.19
10F36N52M4Y	40.00	36	480	1	48	51.69	5.63	9.75	1.19
10F36N59M4Y	40.00	36	480	1	48	57.69	12.63	9.75	1.19
10F30N64M4Y	42.50	30	480	2	51	64.19	5.63	9.75	1.19
10F30N73M4Y	42.50	30	480	2	51	71.69	16.63	9.75	1.19
10F36N67G4S	45.00	36	480	2	54	67.19	10.63	9.75	1.19
10F30N77M4Y	50.00	30	480	2	60	76.69	5.63	9.75	1.19
10F36N64M4Y	51.00	36	480	2	61	64.19	5.63	9.75	1.19
10F36N73M4Y	51.00	36	480	2	61	71.69	16.63	9.75	1.19
10F36N80G4S	54.00	36	480	2	65	80.19	12.63	9.75	1.19
10F30N88M4Y	56.00	30	480	2	67	88.69	5.63	9.75	1.19
10F30N95M4Y	56.00	30	480	2	67	93.69	12.63	9.75	1.19
10F36N77M4Y	60.00	36	480	2	72	76.69	5.63	9.75	1.19
10F30N106M4Y	63.00	30	480	2	76	106.19	12.63	9.75	1.19
10F36N88M4Y	67.00	36	480	2	81	88.69	5.63	9.75	1.19
10F36N95M4Y	67.00	36	480	2	81	93.69	12.63	9.75	1.19
10F36N100G4S	67.50	36	480	2	81	100.19	12.63	9.75	1.19
10F36N106M4Y	75.50	36	480	2	91	106.19	12.63	9.75	1.19
10F30N120M4Y	78.00	30	480	2	94	120.19	12.63	9.75	1.19
10F36N120G4S	85.50	36	480	3	103	120.19	12.63	9.75	1.19
10F36N120M4Y	93.50	36	480	3	112	120.19	12.63	9.75	1.19
10F36N140G4S	99.00	36	480	3	119	140.19	16.63	9.75	1.19
10F30N160M4Y	100.00	30	480	5	120	160.19	16.63	9.75	1.19
10F36N140M4Y	105.00	36	480	3	126	140.19	16.63	9.75	1.19
10F36N160G4S	117.00	36	480	3	141	160.19	16.63	9.75	1.19
10F36N160M4Y	120.00	36	480	3	144	160.19	16.63	9.75	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>
12F48N44G4S	36.00	48	480	1	43	44.13	10.56	11.75	1.25
12F48N40M4Y	40.00	48	480	1	48	40.13	3.56	11.75	1.25
12F48N48M4Y	48.00	48	480	2	58	47.63	3.56	11.75	1.25
12F48N56G4S	48.00	48	480	2	58	56.13	10.56	11.75	1.25
12F48N52M4Y	53.25	48	480	2	64	51.63	5.56	11.75	1.25
12F48N59M4Y	53.25	48	480	2	64	57.63	12.56	11.75	1.25
12F48N67G4S	60.00	48	480	2	72	67.13	10.56	11.75	1.25
12F48N64M4Y	68.00	48	480	2	82	64.13	5.56	11.75	1.25
12F48N73M4Y	68.00	48	480	2	82	71.63	16.56	11.75	1.25
12F48N80G4S	72.00	48	480	2	87	80.13	12.56	11.75	1.25
12F48N77M4Y	80.00	48	480	2	96	76.63	5.56	11.75	1.25

## 150# Flanged Immersion Heaters - Type IF

12F54N80G4S	81.00	54	480	3	97	80.13	12.56	11.75	1.25
12F48N88M4Y	89.50	48	480	4	108	88.63	5.56	11.75	1.25
12F48N95M4Y	89.50	48	480	4	108	93.63	12.56	11.75	1.25
12F48N100G4S	90.00	48	480	4	108	100.13	12.56	11.75	1.25
12F54N88M4Y	100.50	54	480	3	121	88.63	5.56	11.75	1.25
12F54N95M4Y	100.50	54	480	3	121	93.63	12.56	11.75	1.25
12F48N106M4Y	100.50	48	480	4	121	106.13	12.56	11.75	1.25
12F54N100G4S	101.00	54	480	3	121	100.13	12.56	11.75	1.25
12F54N106M4Y	113.00	54	480	3	136	106.13	12.56	11.75	1.25
12F48N120G4S	114.00	48	480	4	137	120.13	12.56	11.75	1.25
12F48N120M4Y	124.50	48	480	4	150	120.13	12.56	11.75	1.25
12F48N140G4S	132.00	48	480	4	159	140.13	16.56	11.75	1.25
12F54N120M4Y	140.00	54	480	6	168	120.13	12.56	11.75	1.25
12F48N140M4Y	140.00	48	480	4	168	140.13	16.56	11.75	1.25
12F48N160G4S	156.00	48	480	4	188	160.13	16.56	11.75	1.25
12F54N140M4Y	157.50	54	480	6	189	140.13	16.56	11.75	1.25
12F48N160M4Y	160.00	48	480	4	192	160.13	16.56	11.75	1.25
12F54N160M4Y	180.00	54	480	6	217	160.13	16.56	11.75	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>
14F54N80G4S	81.00	54	480	3	97	80.00	12.44	13.00	1.38
14F54N88M4Y	100.50	54	480	3	121	88.50	5.44	13.00	1.38
14F54N95M4Y	100.50	54	480	3	121	93.50	12.44	13.00	1.38
14F54N100G4S	101.00	54	480	3	121	100.00	12.44	13.00	1.38
14F72N80G4S	108.00	72	480	3	130	80.00	12.44	13.00	1.38
14F60N88M4Y	112.00	60	480	4	135	88.50	5.44	13.00	1.38
14F60N95M4Y	112.00	60	480	4	135	93.50	12.44	13.00	1.38
14F60N100G4S	112.50	60	480	5	135	100.00	12.44	13.00	1.38
14F54N106M4Y	113.00	54	480	3	136	106.00	12.44	13.00	1.38
14F60N106M4Y	126.00	60	480	4	152	106.00	12.44	13.00	1.38
14F72N88M4Y	134.00	72	480	4	161	88.50	5.44	13.00	1.38
14F72N95M4Y	134.00	72	480	4	161	93.50	12.44	13.00	1.38
14F72N100G4S	135.00	72	480	4	162	100.00	12.44	13.00	1.38
14F54N120M4Y	140.00	54	480	6	168	120.00	12.44	13.00	1.38
14F60N120G4S	142.50	60	480	5	171	120.00	12.44	13.00	1.38
14F72N106M4Y	151.00	72	480	4	182	106.00	12.44	13.00	1.38
14F60N120M4Y	156.00	60	480	4	188	120.00	12.44	13.00	1.38
14F54N140M4Y	157.50	54	480	6	189	140.00	16.44	13.00	1.38
14F60N140G4S	165.00	60	480	5	198	140.00	16.44	13.00	1.38
14F72N120G4S	171.00	72	480	6	206	120.00	12.44	13.00	1.38
14F60N140M4Y	175.00	60	480	5	210	140.00	16.44	13.00	1.38
14F54N160M4Y	180.00	54	480	6	217	160.00	16.44	13.00	1.38
14F72N120M4Y	187.00	72	480	6	225	120.00	12.44	13.00	1.38
14F60N160G4S	195.00	60	480	5	235	160.00	16.44	13.00	1.38
14F72N140G4S	198.00	72	480	6	238	140.00	16.44	13.00	1.38
14F60N160M4Y	200.00	60	480	5	241	160.00	16.44	13.00	1.38
14F72N140M4Y	210.00	72	480	6	253	140.00	16.44	13.00	1.38
14F72N160G4S	234.00	72	480	6	281	160.00	16.44	13.00	1.38
14F72N160M4Y	240.00	72	480	6	289	160.00	16.44	13.00	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>
16F90N80G4S	135.00	90	480	5	162	79.94	12.38	15.00	1.44

## 150# Flanged Immersion Heaters - Type IF

16F96N80G4S	144.00	96	480	4	173	79.94	12.38	15.00	1.44
16F84N88M4Y	156.50	84	480	4	188	88.44	5.38	15.00	1.44
16F84N95M4Y	156.50	84	480	4	188	93.44	12.38	15.00	1.44
16F84N100G4S	157.50	84	480	7	189	99.94	12.38	15.00	1.44
16F90N88M4Y	168.00	90	480	5	202	88.44	5.38	15.00	1.44
16F90N95M4Y	168.00	90	480	5	202	93.44	12.38	15.00	1.44
16F90N100G4S	168.50	90	480	5	203	99.94	12.38	15.00	1.44
16F84N106M4Y	176.00	84	480	7	212	105.94	12.38	15.00	1.44
16F96N88M4Y	179.00	96	480	8	215	88.44	5.38	15.00	1.44
16F96N95M4Y	179.00	96	480	8	215	93.44	12.38	15.00	1.44
16F96N100G4S	180.00	96	480	8	217	99.94	12.38	15.00	1.44
16F90N106M4Y	189.00	90	480	5	227	105.94	12.38	15.00	1.44
16F84N120G4S	199.50	84	480	7	240	119.94	12.38	15.00	1.44
16F96N106M4Y	201.50	96	480	8	242	105.94	12.38	15.00	1.44
16F84N120M4Y	218.00	84	480	7	262	119.94	12.38	15.00	1.44
16F96N120G4S	228.00	96	480	8	274	119.94	12.38	15.00	1.44
16F84N140G4S	231.00	84	480	7	278	139.94	16.38	15.00	1.44
16F90N120M4Y	234.00	90	480	10	281	119.94	12.38	15.00	1.44
16F84N140M4Y	245.00	84	480	7	295	139.94	16.38	15.00	1.44
16F96N120M4Y	249.50	96	480	8	300	119.94	12.38	15.00	1.44
16F90N140M4Y	262.50	90	480	10	316	139.94	16.38	15.00	1.44
16F96N140G4S	264.00	96	480	8	318	139.94	16.38	15.00	1.44
16F84N160G4S	273.00	84	480	7	328	159.94	16.38	15.00	1.44
16F96N140M4Y	280.00	96	480	8	337	139.94	16.38	15.00	1.44
16F84N160M4Y	280.00	84	480	7	337	159.94	16.38	15.00	1.44
16F90N160G4S	292.50	90	480	15	352	159.94	16.38	15.00	1.44
16F90N160M4Y	300.00	90	480	10	361	159.94	16.38	15.00	1.44
16F96N160G4S	312.00	96	480	8	375	159.94	16.38	15.00	1.44
16F96N160M4Y	320.00	96	480	8	385	159.94	16.38	15.00	1.44

### 18 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
18F108N88M4Y	201.50	108	480	6	242	88.31	5.25	17.00	1.56
18F108N95M4Y	201.50	108	480	6	242	93.31	12.25	17.00	1.56
18F108N100G4S	202.50	108	480	6	244	99.81	12.25	17.00	1.56
18F108N106M4Y	226.50	108	480	6	272	105.81	12.25	17.00	1.56
18F108N120G4S	256.50	108	480	9	309	119.81	12.25	17.00	1.56
18F108N120M4Y	280.50	108	480	9	337	119.81	12.25	17.00	1.56
18F108N140G4S	297.00	108	480	9	357	139.81	16.25	17.00	1.56
18F108N140M4Y	315.00	108	480	9	379	139.81	16.25	17.00	1.56
18F108N160G4S	351.00	108	480	9	422	159.81	16.25	17.00	1.56
18F108N160M4Y	360.00	108	480	9	433	159.81	16.25	17.00	1.56

### 20 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
20F120N88M4Y	224.00	120	480	8	269	88.19	5.13	19.00	1.69
20F120N95M4Y	224.00	120	480	8	269	93.19	12.13	19.00	1.69
20F120N100G4S	225.00	120	480	10	271	99.69	12.13	19.00	1.69
20F126N88M4Y	235.00	126	480	6	283	88.19	5.13	19.00	1.69
20F126N95M4Y	235.00	126	480	6	283	93.19	12.13	19.00	1.69
20F126N100G4S	236.00	126	480	7	284	99.69	12.13	19.00	1.69
20F132N88M4Y	246.00	132	480	11	296	88.19	5.13	19.00	1.69
20F132N95M4Y	246.00	132	480	11	296	93.19	12.13	19.00	1.69
20F132N100G4S	247.50	132	480	11	298	99.69	12.13	19.00	1.69

## 150# Flanged Immersion Heaters - Type IF

20F120N106M4Y	252.00	120	480	8	303	105.69	12.13	19.00	1.69
20F126N106M4Y	264.50	126	480	7	318	105.69	12.13	19.00	1.69
20F144N88M4Y	268.50	144	480	8	323	88.19	5.13	19.00	1.69
20F144N95M4Y	268.50	144	480	8	323	93.19	12.13	19.00	1.69
20F144N100G4S	270.00	144	480	8	325	99.69	12.13	19.00	1.69
20F132N106M4Y	277.00	132	480	11	333	105.69	12.13	19.00	1.69
20F120N120G4S	285.00	120	480	10	343	119.69	12.13	19.00	1.69
20F162N88M4Y	302.00	162	480	9	363	88.19	5.13	19.00	1.69
20F162N95M4Y	302.00	162	480	9	363	93.19	12.13	19.00	1.69
20F144N106M4Y	302.00	144	480	8	363	105.69	12.13	19.00	1.69
20F162N100G4S	303.50	162	480	9	365	99.69	12.13	19.00	1.69
20F120N120M4Y	312.00	120	480	8	375	119.69	12.13	19.00	1.69
20F132N120G4S	313.50	132	480	11	377	119.69	12.13	19.00	1.69
20F126N120M4Y	327.50	126	480	14	394	119.69	12.13	19.00	1.69
20F120N140G4S	330.00	120	480	10	397	139.69	16.13	19.00	1.69
20F180N88M4Y	336.00	180	480	10	404	88.19	5.13	19.00	1.69
20F180N95M4Y	336.00	180	480	10	404	93.19	12.13	19.00	1.69
20F180N100G4S	337.50	180	480	10	406	99.69	12.13	19.00	1.69
20F162N106M4Y	340.00	162	480	9	409	105.69	12.13	19.00	1.69
20F144N120G4S	342.00	144	480	12	411	119.69	12.13	19.00	1.69
20F132N120M4Y	343.00	132	480	11	413	119.69	12.13	19.00	1.69
20F120N140M4Y	350.00	120	480	10	421	139.69	16.13	19.00	1.69
20F132N140G4S	363.00	132	480	11	437	139.69	16.13	19.00	1.69
20F126N140M4Y	367.50	126	480	14	442	139.69	16.13	19.00	1.69
20F144N120M4Y	374.00	144	480	12	450	119.69	12.13	19.00	1.69
20F180N106M4Y	378.00	180	480	10	455	105.69	12.13	19.00	1.69
20F132N140M4Y	385.00	132	480	11	463	139.69	16.13	19.00	1.69
20F120N160G4S	390.00	120	480	10	469	159.69	16.13	19.00	1.69
20F144N140G4S	396.00	144	480	12	476	139.69	16.13	19.00	1.69
20F120N160M4Y	400.00	120	480	10	481	159.69	16.13	19.00	1.69
20F144N140M4Y	420.00	144	480	12	505	139.69	16.13	19.00	1.69
20F126N160M4Y	420.00	126	480	14	505	159.69	16.13	19.00	1.69
20F162N120M4Y	421.00	162	480	18	506	119.69	12.13	19.00	1.69
20F180N120G4S	427.50	180	480	12	514	119.69	12.13	19.00	1.69
20F132N160G4S	429.00	132	480	11	516	159.69	16.13	19.00	1.69
20F132N160M4Y	440.00	132	480	11	529	159.69	16.13	19.00	1.69
20F180N120M4Y	468.00	180	480	12	563	119.69	12.13	19.00	1.69
20F144N160G4S	468.00	144	480	12	563	159.69	16.13	19.00	1.69
20F162N140M4Y	472.50	162	480	18	568	139.69	16.13	19.00	1.69
20F144N160M4Y	480.00	144	480	12	577	159.69	16.13	19.00	1.69
20F180N140G4S	495.00	180	480	15	595	139.69	16.13	19.00	1.69
20F180N140M4Y	525.00	180	480	15	631	139.69	16.13	19.00	1.69
20F162N160M4Y	540.00	162	480	18	650	159.69	16.13	19.00	1.69
20F180N160G4S	585.00	180	480	15	704	159.69	16.13	19.00	1.69
20F180N160M4Y	600.00	180	480	15	722	159.69	16.13	19.00	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N88M4Y	358.00	192	480	16	431	88.00	4.94	23.00	1.88
24F192N95M4Y	358.00	192	480	16	431	93.00	11.94	23.00	1.88
24F192N100G4S	360.00	192	480	16	433	99.50	11.94	23.00	1.88
24F216N88M4Y	403.00	216	480	12	485	88.00	4.94	23.00	1.88
24F216N95M4Y	403.00	216	480	12	485	93.00	11.94	23.00	1.88
24F192N106M4Y	403.00	192	480	16	485	105.50	11.94	23.00	1.88

## 150# Flanged Immersion Heaters - Type IF

24F216N100G4S	405.00	216	480	12	487	99.50	11.94	23.00	1.88
24F234N88M4Y	436.50	234	480	13	525	88.00	4.94	23.00	1.88
24F234N95M4Y	436.50	234	480	13	525	93.00	11.94	23.00	1.88
24F234N100G4S	438.50	234	480	13	527	99.50	11.94	23.00	1.88
24F240N88M4Y	448.00	240	480	16	539	88.00	4.94	23.00	1.88
24F240N95M4Y	448.00	240	480	16	539	93.00	11.94	23.00	1.88
24F240N100G4S	450.00	240	480	20	541	99.50	11.94	23.00	1.88
24F216N106M4Y	453.50	216	480	12	545	105.50	11.94	23.00	1.88
24F192N120G4S	456.00	192	480	16	548	119.50	11.94	23.00	1.88
24F234N106M4Y	491.00	234	480	13	591	105.50	11.94	23.00	1.88
24F192N120M4Y	499.00	192	480	16	600	119.50	11.94	23.00	1.88
24F240N106M4Y	504.00	240	480	16	606	105.50	11.94	23.00	1.88
24F216N120G4S	513.00	216	480	18	617	119.50	11.94	23.00	1.88
24F192N140G4S	528.00	192	480	16	635	139.50	15.94	23.00	1.88
24F192N140M4Y	560.00	192	480	16	674	139.50	15.94	23.00	1.88
24F216N120M4Y	562.00	216	480	18	676	119.50	11.94	23.00	1.88
24F240N120G4S	570.00	240	480	20	686	119.50	11.94	23.00	1.88
24F216N140G4S	594.00	216	480	18	714	139.50	15.94	23.00	1.88
24F234N120M4Y	608.00	234	480	26	731	119.50	11.94	23.00	1.88
24F240N120M4Y	624.00	240	480	16	751	119.50	11.94	23.00	1.88
24F192N160G4S	624.00	192	480	16	751	159.50	15.94	23.00	1.88
24F216N140M4Y	630.00	216	480	18	758	139.50	15.94	23.00	1.88
24F192N160M4Y	640.00	192	480	16	770	159.50	15.94	23.00	1.88
24F240N140G4S	660.00	240	480	20	794	139.50	15.94	23.00	1.88
24F234N140M4Y	683.00	234	480	26	822	139.50	15.94	23.00	1.88
24F240N140M4Y	700.00	240	480	20	842	139.50	15.94	23.00	1.88
24F216N160G4S	702.00	216	480	18	844	159.50	15.94	23.00	1.88
24F216N160M4Y	720.00	216	480	18	866	159.50	15.94	23.00	1.88
24F234N160M4Y	780.00	234	480	26	938	159.50	15.94	23.00	1.88
24F240N160G4S	780.00	240	480	20	938	159.50	15.94	23.00	1.88
24F240N160M4Y	800.00	240	480	20	962	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

6 Watts/Sq. Inch

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10M2S	0.75	6	240	1	2	10.44	3.88	3.83	0.94
4F6N13M4S	1.13	6	480	1	1	13.44	3.88	3.83	0.94
4F6N13M2S	1.13	6	120	1	5	13.44	3.88	3.83	0.94
4F6N13M1S	1.13	6	120	1	5	13.44	3.88	3.83	0.94
4F6N18M4S	1.50	6	480	1	2	17.94	3.88	3.83	0.94
4F6N18M2S	1.50	6	240	1	4	17.94	3.88	3.83	0.94
4F6N20M2S	1.88	6	240	1	5	19.94	3.88	3.83	0.94
4F6N20M4S	1.88	6	480	1	2	20.44	3.88	3.83	0.94
4F6N25M4S	2.25	6	480	1	3	25.44	3.88	3.83	0.94
4F6N25M1S	2.25	6	120	1	11	25.44	3.88	3.83	0.94
4F6N25M2S	2.25	6	240	1	5	25.44	3.88	3.83	0.94
4F6N33M4S	3.00	6	480	1	4	32.94	3.88	3.83	0.94
4F6N40M2S	3.75	6	240	1	9	40.44	3.88	3.83	0.94
4F6N40M4S	3.75	6	480	1	5	40.44	3.88	3.83	0.94
4F6N48M4S	4.50	6	480	1	5	47.94	3.88	3.83	0.94
4F6N52M2S	5.00	6	240	1	12	51.94	5.88	3.83	0.94
4F6N52M4S	5.00	6	480	1	6	51.94	5.88	3.83	0.94
4F6N59M4S	5.00	6	480	1	6	57.94	12.88	3.83	0.94
4F6N64M4S	6.38	6	480	1	8	64.44	5.88	3.83	0.94
4F6N64M2S	6.38	6	240	1	15	64.44	5.88	3.83	0.94
4F6N73M4S	6.38	6	480	1	8	71.94	16.88	3.83	0.94
4F6N77M2S	7.50	6	240	1	18	76.94	5.88	3.83	0.94
4F6N77M4S	7.50	6	480	1	9	76.94	5.88	3.83	0.94
4F6N88M4S	8.38	6	480	1	10	88.94	5.88	3.83	0.94
4F6N95M4S	8.38	6	480	1	10	93.94	12.88	3.83	0.94
4F6N106M4S	9.38	6	480	1	11	106.44	12.88	3.83	0.94
4F6N120M4S	11.50	6	480	1	14	120.44	12.88	3.83	0.94
4F6N140M4S	13.00	6	480	1	16	140.44	16.88	3.83	0.94
4F6N160M4S	15.00	6	480	1	18	160.44	16.88	3.83	0.94

## 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N10M2S	1.50	12	240	1	4	10.38	3.81	5.76	1.00
6F12N13M4S	2.25	12	480	1	3	13.38	3.81	5.76	1.00
6F12N18M2S	3.00	12	240	1	7	17.88	3.81	5.76	1.00
6F12N18M4S	3.00	12	480	1	4	17.88	3.81	5.76	1.00
6F12N20M2S	3.75	12	240	1	9	19.88	3.81	5.76	1.00
6F12N20M4S	3.75	12	480	1	5	20.38	3.81	5.76	1.00
6F12N25M4S	4.50	12	480	1	5	25.38	3.81	5.76	1.00
6F12N25M2S	4.50	12	240	1	11	25.38	3.81	5.76	1.00
6F12N33M4S	6.00	12	480	1	7	32.88	3.81	5.76	1.00
6F12N40M4S	7.50	12	480	1	9	40.38	3.81	5.76	1.00
6F12N40M2S	7.50	12	240	1	18	40.38	3.81	5.76	1.00
6F12N48M4S	9.00	12	480	1	11	47.88	3.81	5.76	1.00
6F12N52M2S	10.00	12	240	1	24	51.88	5.81	5.76	1.00
6F12N52M4S	10.00	12	480	1	12	51.88	5.81	5.76	1.00
6F12N59M4S	10.00	12	480	1	12	57.88	12.81	5.76	1.00
6F12N64M2S	12.75	12	240	1	31	64.38	5.81	5.76	1.00
6F12N64M4S	12.75	12	480	1	15	64.38	5.81	5.76	1.00
6F12N73M4S	12.75	12	480	1	15	71.88	16.81	5.76	1.00

## 150# Flanged Immersion Heaters - Type IF

6F12N77M4S	15.00	12	480	1	18	76.88	5.81	5.76	1.00
6F12N77M2S	15.00	12	240	1	36	76.88	5.81	5.76	1.00
6F12N88M4S	16.75	12	480	1	20	88.88	5.81	5.76	1.00
6F12N95M4S	16.75	12	480	1	20	93.88	12.81	5.76	1.00
6F12N106M4S	18.75	12	480	1	23	106.38	12.81	5.76	1.00
6F12N120M4S	23.25	12	480	1	28	120.38	12.81	5.76	1.00
6F12N140M4S	26.25	12	480	1	32	140.38	16.81	5.76	1.00
6F12N160M4S	30.00	12	480	1	36	160.38	16.81	5.76	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>
8F18N13M4S	3.38	18	480	1	4	13.25	3.69	7.63	1.13
8F24N13M4S	4.50	24	480	1	5	13.25	3.69	7.63	1.13
8F18N18M4S	4.50	18	480	1	5	17.75	3.69	7.63	1.13
8F18N20M4S	5.63	18	480	1	7	20.25	3.69	7.63	1.13
8F24N18M4S	6.00	24	480	1	7	17.75	3.69	7.63	1.13
8F18N25M4S	6.75	18	480	1	8	25.25	3.69	7.63	1.13
8F24N20M4S	7.50	24	480	1	9	20.25	3.69	7.63	1.13
8F24N25M4S	9.00	24	480	1	11	25.25	3.69	7.63	1.13
8F18N33M4S	9.00	18	480	1	11	32.75	3.69	7.63	1.13
8F18N40M4S	11.25	18	480	1	14	40.25	3.69	7.63	1.13
8F24N33M4S	12.00	24	480	1	14	32.75	3.69	7.63	1.13
8F18N48M4S	13.50	18	480	1	16	47.75	3.69	7.63	1.13
8F24N40M4S	15.00	24	480	1	18	40.25	3.69	7.63	1.13
8F18N52M4S	15.00	18	480	1	18	51.75	5.69	7.63	1.13
8F18N59M4S	15.00	18	480	1	18	57.75	12.69	7.63	1.13
8F24N48M4S	18.00	24	480	1	22	47.75	3.69	7.63	1.13
8F18N64M4S	19.00	18	480	1	23	64.25	5.69	7.63	1.13
8F18N73M4S	19.00	18	480	1	23	71.75	16.69	7.63	1.13
8F24N52M4S	20.00	24	480	1	24	51.75	5.69	7.63	1.13
8F24N59M4S	20.00	24	480	1	24	57.75	12.69	7.63	1.13
8F18N77M4S	22.50	18	480	1	27	76.75	5.69	7.63	1.13
8F18N88M4S	25.00	18	480	1	30	88.75	5.69	7.63	1.13
8F18N95M4S	25.00	18	480	1	30	93.75	12.69	7.63	1.13
8F24N64M4S	25.50	24	480	1	31	64.25	5.69	7.63	1.13
8F24N73M4S	25.50	24	480	1	31	71.75	16.69	7.63	1.13
8F18N106M4S	28.25	18	480	1	34	106.25	12.69	7.63	1.13
8F24N77M4S	30.00	24	480	1	36	76.75	5.69	7.63	1.13
8F24N88M4S	33.50	24	480	1	40	88.75	5.69	7.63	1.13
8F24N95M4S	33.50	24	480	1	40	93.75	12.69	7.63	1.13
8F18N120M4S	35.00	18	480	1	42	120.25	12.69	7.63	1.13
8F24N106M4S	37.75	24	480	1	45	106.25	12.69	7.63	1.13
8F18N140M4S	39.25	18	480	1	47	140.25	16.69	7.63	1.13
8F24N120M4S	46.75	24	480	2	56	120.25	12.69	7.63	1.13
8F24N140M4S	52.50	24	480	2	63	140.25	16.69	7.63	1.13
8F24N160M4S	60.00	24	480	2	72	160.25	16.69	7.63	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>
10F30N13M4S	5.63	30	480	1	7	13.19	3.63	9.75	1.19
10F36N13M4S	6.75	36	480	1	8	13.19	3.63	9.75	1.19
10F30N18M4S	7.50	30	480	1	9	17.69	3.63	9.75	1.19
10F36N18M4S	9.00	36	480	1	11	17.69	3.63	9.75	1.19
10F30N20M4S	9.38	30	480	1	11	20.19	3.63	9.75	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N20M4S	11.25	36	480	1	14	20.19	3.63	9.75	1.19
10F30N25M4S	11.25	30	480	1	14	25.19	3.63	9.75	1.19
10F36N25M4S	13.50	36	480	1	16	25.19	3.63	9.75	1.19
10F30N33M4S	15.00	30	480	1	18	32.69	3.63	9.75	1.19
10F36N33M4S	18.00	36	480	1	22	32.69	3.63	9.75	1.19
10F30N40M4S	18.75	30	480	1	23	40.19	3.63	9.75	1.19
10F36N40M4S	22.50	36	480	1	27	40.19	3.63	9.75	1.19
10F30N48M4S	22.50	30	480	1	27	47.69	3.63	9.75	1.19
10F30N52M4S	25.00	30	480	1	30	51.69	5.63	9.75	1.19
10F30N59M4S	25.00	30	480	1	30	57.69	12.63	9.75	1.19
10F36N48M4S	27.00	36	480	1	32	47.69	3.63	9.75	1.19
10F36N52M4S	30.00	36	480	1	36	51.69	5.63	9.75	1.19
10F36N59M4S	30.00	36	480	1	36	57.69	12.63	9.75	1.19
10F30N64M4S	31.75	30	480	1	38	64.19	5.63	9.75	1.19
10F30N73M4S	31.75	30	480	1	38	71.69	16.63	9.75	1.19
10F30N77M4S	37.50	30	480	1	45	76.69	5.63	9.75	1.19
10F36N64M4S	38.25	36	480	1	46	64.19	5.63	9.75	1.19
10F36N73M4S	38.25	36	480	1	46	71.69	16.63	9.75	1.19
10F36N77M4S	45.00	36	480	2	54	76.69	5.63	9.75	1.19
10F36N88M4S	50.25	36	480	2	60	88.69	5.63	9.75	1.19
10F36N95M4S	50.25	36	480	2	60	93.69	12.63	9.75	1.19
10F36N106M4S	56.50	36	480	2	68	106.19	12.63	9.75	1.19
10F36N120M4S	70.00	36	480	2	84	120.19	12.63	9.75	1.19
10F36N140M4S	78.75	36	480	2	95	140.19	16.63	9.75	1.19
10F36N160M4S	90.00	36	480	3	108	160.19	16.63	9.75	1.19

### 12 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
12F48N40M4S	30.00	48	480	1	36	40.13	3.56	11.75	1.25
12F48N48M4S	36.00	48	480	1	43	47.63	3.56	11.75	1.25
12F48N52M4S	40.00	48	480	1	48	51.63	5.56	11.75	1.25
12F48N59M4S	40.00	48	480	1	48	57.63	12.56	11.75	1.25
12F48N64M4S	51.00	48	480	2	61	64.13	5.56	11.75	1.25
12F48N73M4S	51.00	48	480	2	61	71.63	16.56	11.75	1.25
12F48N77M4S	60.00	48	480	2	72	76.63	5.56	11.75	1.25
12F48N88M4S	67.00	48	480	2	81	88.63	5.56	11.75	1.25
12F48N95M4S	67.00	48	480	2	81	93.63	12.56	11.75	1.25
12F54N88M4S	75.50	54	480	3	91	88.63	5.56	11.75	1.25
12F54N95M4S	75.50	54	480	3	91	93.63	12.56	11.75	1.25
12F48N106M4S	75.50	48	480	2	91	106.13	12.56	11.75	1.25
12F54N106M4S	85.00	54	480	3	102	106.13	12.56	11.75	1.25
12F48N120M4S	93.50	48	480	4	112	120.13	12.56	11.75	1.25
12F54N120M4S	105.00	54	480	3	126	120.13	12.56	11.75	1.25
12F48N140M4S	105.00	48	480	4	126	140.13	16.56	11.75	1.25
12F54N140M4S	118.00	54	480	3	142	140.13	16.56	11.75	1.25
12F48N160M4S	120.00	48	480	4	144	160.13	16.56	11.75	1.25

### 14 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
14F54N88M4S	75.50	54	480	3	91	88.50	5.44	13.00	1.38
14F54N95M4S	75.50	54	480	3	91	93.50	12.44	13.00	1.38
14F54N106M4S	85.00	54	480	3	102	106.00	12.44	13.00	1.38
14F72N88M4S	100.50	72	480	3	121	88.50	5.44	13.00	1.38
14F72N95M4S	100.50	72	480	3	121	93.50	12.44	13.00	1.38



## 150# Flanged Immersion Heaters - Type IF

14F54N120M4S	105.00	54	480	3	126	120.00	12.44	13.00	1.38
14F72N106M4S	113.00	72	480	3	136	106.00	12.44	13.00	1.38
14F60N120M4S	117.00	60	480	5	141	120.00	12.44	13.00	1.38
14F54N140M4S	118.00	54	480	3	142	140.00	16.44	13.00	1.38
14F60N140M4S	131.00	60	480	5	158	140.00	16.44	13.00	1.38
14F72N120M4S	140.00	72	480	4	168	120.00	12.44	13.00	1.38
14F60N160M4S	150.00	60	480	5	180	160.00	16.44	13.00	1.38
14F72N140M4S	157.50	72	480	4	189	140.00	16.44	13.00	1.38
14F72N160M4S	180.00	72	480	6	217	160.00	16.44	13.00	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>
16F90N88M4S	126.00	90	480	5	152	88.44	5.38	15.00	1.44
16F90N95M4S	126.00	90	480	5	152	93.44	12.38	15.00	1.44
16F96N88M4S	134.00	96	480	4	161	88.44	5.38	15.00	1.44
16F96N95M4S	134.00	96	480	4	161	93.44	12.38	15.00	1.44
16F90N106M4S	141.50	90	480	5	170	105.94	12.38	15.00	1.44
16F96N106M4S	151.00	96	480	4	182	105.94	12.38	15.00	1.44
16F84N120M4S	163.50	84	480	7	197	119.94	12.38	15.00	1.44
16F90N120M4S	175.50	90	480	5	211	119.94	12.38	15.00	1.44
16F84N140M4S	183.50	84	480	7	221	139.94	16.38	15.00	1.44
16F96N120M4S	187.00	96	480	8	225	119.94	12.38	15.00	1.44
16F90N140M4S	196.50	90	480	5	236	139.94	16.38	15.00	1.44
16F96N140M4S	210.00	96	480	8	253	139.94	16.38	15.00	1.44
16F84N160M4S	210.00	84	480	7	253	159.94	16.38	15.00	1.44
16F96N160M4S	240.00	96	480	8	289	159.94	16.38	15.00	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>
18F108N88M4S	151.00	108	480	6	182	88.31	5.25	17.00	1.56
18F108N95M4S	151.00	108	480	6	182	93.31	12.25	17.00	1.56
18F108N106M4S	170.00	108	480	6	204	105.81	12.25	17.00	1.56
18F108N120M4S	210.50	108	480	6	253	119.81	12.25	17.00	1.56
18F108N140M4S	236.00	108	480	6	284	139.81	16.25	17.00	1.56
18F108N160M4S	270.00	108	480	9	325	159.81	16.25	17.00	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>
20F120N88M4S	168.00	120	480	5	202	88.19	5.13	19.00	1.69
20F120N95M4S	168.00	120	480	5	202	93.19	12.13	19.00	1.69
20F126N88M4S	176.00	126	480	7	212	88.19	5.13	19.00	1.69
20F126N95M4S	176.00	126	480	7	212	93.19	12.13	19.00	1.69
20F120N106M4S	189.00	120	480	5	227	105.69	12.13	19.00	1.69
20F126N106M4S	198.00	126	480	7	238	105.69	12.13	19.00	1.69
20F144N88M4S	201.50	144	480	6	242	88.19	5.13	19.00	1.69
20F144N95M4S	201.50	144	480	6	242	93.19	12.13	19.00	1.69
20F162N88M4S	226.50	162	480	9	272	88.19	5.13	19.00	1.69
20F162N95M4S	226.50	162	480	9	272	93.19	12.13	19.00	1.69
20F144N106M4S	226.50	144	480	6	272	105.69	12.13	19.00	1.69
20F120N120M4S	234.00	120	480	10	281	119.69	12.13	19.00	1.69
20F126N120M4S	245.50	126	480	7	295	119.69	12.13	19.00	1.69
20F180N88M4S	252.00	180	480	10	303	88.19	5.13	19.00	1.69
20F180N95M4S	252.00	180	480	10	303	93.19	12.13	19.00	1.69
20F162N106M4S	255.00	162	480	9	307	105.69	12.13	19.00	1.69

## 150# Flanged Immersion Heaters - Type IF

20F132N120M4S	257.00	132	480	11	309	119.69	12.13	19.00	1.69
20F120N140M4S	262.50	120	480	10	316	139.69	16.13	19.00	1.69
20F126N140M4S	275.50	126	480	7	331	139.69	16.13	19.00	1.69
20F144N120M4S	280.50	144	480	8	337	119.69	12.13	19.00	1.69
20F180N106M4S	283.50	180	480	10	341	105.69	12.13	19.00	1.69
20F132N140M4S	288.50	132	480	11	347	139.69	16.13	19.00	1.69
20F120N160M4S	300.00	120	480	10	361	159.69	16.13	19.00	1.69
20F144N140M4S	315.00	144	480	8	379	139.69	16.13	19.00	1.69
20F162N120M4S	315.50	162	480	9	379	119.69	12.13	19.00	1.69
20F132N160M4S	330.00	132	480	11	397	159.69	16.13	19.00	1.69
20F180N120M4S	351.00	180	480	10	422	119.69	12.13	19.00	1.69
20F162N140M4S	354.00	162	480	9	426	139.69	16.13	19.00	1.69
20F144N160M4S	360.00	144	480	12	433	159.69	16.13	19.00	1.69
20F180N140M4S	393.50	180	480	10	473	139.69	16.13	19.00	1.69
20F180N160M4S	450.00	180	480	12	541	159.69	16.13	19.00	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>
24F192N88M4S	268.50	192	480	8	323	88.00	4.94	23.00	1.88
24F192N95M4S	268.50	192	480	8	323	93.00	11.94	23.00	1.88
24F216N88M4S	302.00	216	480	9	363	88.00	4.94	23.00	1.88
24F216N95M4S	302.00	216	480	9	363	93.00	11.94	23.00	1.88
24F192N106M4S	302.00	192	480	8	363	105.50	11.94	23.00	1.88
24F234N88M4S	327.50	234	480	13	394	88.00	4.94	23.00	1.88
24F234N95M4S	327.50	234	480	13	394	93.00	11.94	23.00	1.88
24F240N88M4S	336.00	240	480	10	404	88.00	4.94	23.00	1.88
24F240N95M4S	336.00	240	480	10	404	93.00	11.94	23.00	1.88
24F216N106M4S	340.00	216	480	12	409	105.50	11.94	23.00	1.88
24F234N106M4S	368.50	234	480	13	443	105.50	11.94	23.00	1.88
24F192N120M4S	374.00	192	480	16	450	119.50	11.94	23.00	1.88
24F240N106M4S	378.00	240	480	10	455	105.50	11.94	23.00	1.88
24F192N140M4S	420.00	192	480	16	505	139.50	15.94	23.00	1.88
24F216N120M4S	421.00	216	480	12	506	119.50	11.94	23.00	1.88
24F234N120M4S	456.00	234	480	13	548	119.50	11.94	23.00	1.88
24F240N120M4S	468.00	240	480	20	563	119.50	11.94	23.00	1.88
24F216N140M4S	472.50	216	480	12	568	139.50	15.94	23.00	1.88
24F192N160M4S	480.00	192	480	16	577	159.50	15.94	23.00	1.88
24F234N140M4S	512.00	234	480	13	616	139.50	15.94	23.00	1.88
24F240N140M4S	525.00	240	480	20	631	139.50	15.94	23.00	1.88
24F216N160M4S	540.00	216	480	18	650	159.50	15.94	23.00	1.88
24F240N160M4S	600.00	240	480	20	722	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

5 Watts/Sq. Inch

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N18B4Z	1.25	6	480	1	2	17.94	3.88	3.83	0.94
4F6N20B4Z	1.38	6	480	1	2	19.94	3.88	3.83	0.94
4F6N25B4Z	1.88	6	480	1	2	25.44	3.88	3.83	0.94
4F6N25B2Z	1.88	6	240	1	5	25.44	3.88	3.83	0.94
4F6N33B2Z	2.50	6	240	1	6	32.94	3.88	3.83	0.94
4F6N33B4Z	2.50	6	480	1	3	32.94	3.88	3.83	0.94
4F6N38B4Z	3.00	6	480	1	4	38.44	5.88	3.83	0.94
4F6N36B4Z	3.13	6	480	1	4	35.94	3.88	3.83	0.94
4F6N43B4Z	3.25	6	480	1	4	42.94	5.88	3.83	0.94
4F6N52B2Z	4.13	6	240	1	10	51.94	5.88	3.83	0.94
4F6N52B4Z	4.13	6	480	1	5	51.94	5.88	3.83	0.94
4F6N57B4Z	4.13	6	480	1	5	56.94	10.88	3.83	0.94
4F6N61B4Z	5.00	6	480	1	6	61.44	5.88	3.83	0.94
4F6N68B4Z	5.00	6	480	1	6	68.44	12.88	3.83	0.94
4F6N88B4Z	7.38	6	480	1	9	88.94	5.88	3.83	0.94
4F6N106B4Z	8.25	6	480	1	10	106.44	12.88	3.83	0.94
4F6N120B4Z	9.50	6	480	1	11	120.44	12.88	3.83	0.94

## 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N18B4Z	2.50	12	480	1	3	17.88	3.81	5.76	1.00
6F12N20B4Z	2.88	12	480	1	3	19.88	3.81	5.76	1.00
6F12N25B4Z	3.75	12	480	1	5	25.38	3.81	5.76	1.00
6F12N25B2Z	3.75	12	240	1	9	25.38	3.81	5.76	1.00
6F12N33B4Z	5.00	12	480	1	6	32.88	3.81	5.76	1.00
6F12N33B2Z	5.00	12	240	1	12	32.88	3.81	5.76	1.00
6F12N38B4Z	6.00	12	480	1	7	38.38	5.81	5.76	1.00
6F12N36B4Z	6.38	12	480	1	8	35.88	3.81	5.76	1.00
6F12N43B4Z	6.63	12	480	1	8	42.88	5.81	5.76	1.00
6F12N52B2Z	8.25	12	240	1	20	51.88	5.81	5.76	1.00
6F12N52B4Z	8.25	12	480	1	10	51.88	5.81	5.76	1.00
6F12N57B4Z	8.25	12	480	1	10	56.88	10.81	5.76	1.00
6F12N61B4Z	10.00	12	480	1	12	61.38	5.81	5.76	1.00
6F12N68B4Z	10.00	12	480	1	12	68.38	12.81	5.76	1.00
6F12N88B4Z	14.75	12	480	1	18	88.88	5.81	5.76	1.00
6F12N106B4Z	16.50	12	480	1	20	106.38	12.81	5.76	1.00
6F12N120B4Z	19.00	12	480	1	23	120.38	12.81	5.76	1.00

## 8 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
8F18N18B4Z	3.75	18	480	1	5	17.75	3.69	7.63	1.13
8F18N20B4Z	4.25	18	480	1	5	19.75	3.69	7.63	1.13
8F24N18B4Z	5.00	24	480	1	6	17.75	3.69	7.63	1.13
8F24N20B4Z	5.75	24	480	1	7	19.75	3.69	7.63	1.13
8F18N25B4Z	5.75	18	480	1	7	25.25	3.69	7.63	1.13
8F18N33B4Z	7.50	18	480	1	9	32.75	3.69	7.63	1.13
8F24N25B4Z	7.63	24	480	1	9	25.25	3.69	7.63	1.13
8F18N38B4Z	9.00	18	480	1	11	38.25	5.69	7.63	1.13
8F18N36B4Z	9.63	18	480	1	12	35.75	3.69	7.63	1.13
8F24N33B4Z	10.00	24	480	1	12	32.75	3.69	7.63	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N43B4Z	10.00	18	480	1	12	42.75	5.69	7.63	1.13
8F24N38B4Z	12.00	24	480	1	14	38.25	5.69	7.63	1.13
8F18N52B4Z	12.50	18	480	1	15	51.75	5.69	7.63	1.13
8F18N57B4Z	12.50	18	480	1	15	56.75	10.69	7.63	1.13
8F24N36B4Z	12.75	24	480	1	15	35.75	3.69	7.63	1.13
8F24N43B4Z	13.25	24	480	1	16	42.75	5.69	7.63	1.13
8F18N61B4Z	15.00	18	480	1	18	61.25	5.69	7.63	1.13
8F18N68B4Z	15.00	18	480	1	18	68.25	12.69	7.63	1.13
8F24N52B4Z	16.50	24	480	1	20	51.75	5.69	7.63	1.13
8F24N57B4Z	16.50	24	480	1	20	56.75	10.69	7.63	1.13
8F24N61B4Z	20.00	24	480	1	24	61.25	5.69	7.63	1.13
8F24N68B4Z	20.00	24	480	1	24	68.25	12.69	7.63	1.13
8F18N88B4Z	22.00	18	480	1	26	88.75	5.69	7.63	1.13
8F18N106B4Z	25.00	18	480	1	30	106.25	12.69	7.63	1.13
8F18N120B4Z	28.50	18	480	1	34	120.25	12.69	7.63	1.13
8F24N88B4Z	29.50	24	480	1	35	88.75	5.69	7.63	1.13
8F24N106B4Z	33.25	24	480	1	40	106.25	12.69	7.63	1.13
8F24N120B4Z	38.00	24	480	1	46	120.25	12.69	7.63	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>
10F30N18B4Z	6.25	30	480	1	8	17.69	3.63	9.75	1.19
10F30N20B4Z	7.25	30	480	1	9	19.69	3.63	9.75	1.19
10F36N18B4Z	7.50	36	480	1	9	17.69	3.63	9.75	1.19
10F36N20B4Z	8.63	36	480	1	10	19.69	3.63	9.75	1.19
10F30N25B4Z	9.63	30	480	1	12	25.19	3.63	9.75	1.19
10F36N25B4Z	11.50	36	480	1	14	25.19	3.63	9.75	1.19
10F30N33B4Z	12.50	30	480	1	15	32.69	3.63	9.75	1.19
10F36N33B4Z	15.00	36	480	1	18	32.69	3.63	9.75	1.19
10F30N38B4Z	15.00	30	480	1	18	38.19	5.63	9.75	1.19
10F30N36B4Z	16.00	30	480	1	19	35.69	3.63	9.75	1.19
10F30N43B4Z	16.50	30	480	1	20	42.69	5.63	9.75	1.19
10F36N38B4Z	18.00	36	480	1	22	38.19	5.63	9.75	1.19
10F36N36B4Z	19.25	36	480	1	23	35.69	3.63	9.75	1.19
10F36N43B4Z	20.00	36	480	1	24	42.69	5.63	9.75	1.19
10F30N52B4Z	20.75	30	480	1	25	51.69	5.63	9.75	1.19
10F30N57B4Z	20.75	30	480	1	25	56.69	10.63	9.75	1.19
10F36N52B4Z	25.00	36	480	1	30	51.69	5.63	9.75	1.19
10F36N57B4Z	25.00	36	480	1	30	56.69	10.63	9.75	1.19
10F30N61B4Z	25.00	30	480	1	30	61.19	5.63	9.75	1.19
10F30N68B4Z	25.00	30	480	1	30	68.19	12.63	9.75	1.19
10F36N61B4Z	30.00	36	480	1	36	61.19	5.63	9.75	1.19
10F36N68B4Z	30.00	36	480	1	36	68.19	12.63	9.75	1.19
10F30N88B4Z	37.00	30	480	1	45	88.69	5.63	9.75	1.19
10F36N88B4Z	44.25	36	480	2	53	88.69	5.63	9.75	1.19
10F36N106B4Z	50.00	36	480	2	60	106.19	12.63	9.75	1.19
10F36N120B4Z	57.00	36	480	2	69	120.19	12.63	9.75	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>
12F48N43B4Z	26.50	48	480	1	32	42.63	5.56	11.75	1.25
12F48N52B4Z	33.25	48	480	1	40	51.63	5.56	11.75	1.25
12F48N57B4Z	33.25	48	480	1	40	56.63	10.56	11.75	1.25
12F48N61B4Z	40.00	48	480	1	48	61.13	5.56	11.75	1.25

## 150# Flanged Immersion Heaters - Type IF

12F48N68B4Z	40.00	48	480	1	48	68.13	12.56	11.75	1.25
12F48N88B4Z	59.00	48	480	2	71	88.63	5.56	11.75	1.25
12F54N88B4Z	66.50	54	480	3	80	88.63	5.56	11.75	1.25
12F48N106B4Z	66.50	48	480	2	80	106.13	12.56	11.75	1.25
12F54N106B4Z	75.00	54	480	3	90	106.13	12.56	11.75	1.25
12F48N120B4Z	76.00	48	480	2	91	120.13	12.56	11.75	1.25
12F54N120B4Z	85.50	54	480	3	103	120.13	12.56	11.75	1.25

### 14 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
14F54N88B4Z	66.50	54	480	3	80	88.50	5.44	13.00	1.38
14F60N88B4Z	74.00	60	480	2	89	88.50	5.44	13.00	1.38
14F54N106B4Z	75.00	54	480	3	90	106.00	12.44	13.00	1.38
14F54N120B4Z	85.50	54	480	3	103	120.00	12.44	13.00	1.38
14F72N88B4Z	88.75	72	480	3	107	88.50	5.44	13.00	1.38
14F72N106B4Z	100.00	72	480	3	120	106.00	12.44	13.00	1.38
14F72N120B4Z	114.00	72	480	3	137	120.00	12.44	13.00	1.38

### 16 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
16F90N88B4Z	111.00	90	480	3	134	88.44	5.38	15.00	1.44
16F96N88B4Z	118.00	96	480	4	142	88.44	5.38	15.00	1.44
16F90N106B4Z	125.00	90	480	5	150	105.94	12.38	15.00	1.44
16F96N106B4Z	133.00	96	480	4	160	105.94	12.38	15.00	1.44
16F90N120B4Z	142.50	90	480	5	171	119.94	12.38	15.00	1.44
16F96N120B4Z	152.00	96	480	4	183	119.94	12.38	15.00	1.44

### 18 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
18F108N88B4Z	133.00	108	480	6	160	88.31	5.25	17.00	1.56
18F108N106B4Z	150.00	108	480	6	180	105.81	12.25	17.00	1.56
18F108N120B4Z	171.00	108	480	6	206	119.81	12.25	17.00	1.56

### 20 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
20F120N88B4Z	148.00	120	480	4	178	88.19	5.13	19.00	1.69
20F126N88B4Z	155.00	126	480	7	186	88.19	5.13	19.00	1.69
20F120N106B4Z	166.50	120	480	5	200	105.69	12.13	19.00	1.69
20F126N106B4Z	175.00	126	480	7	210	105.69	12.13	19.00	1.69
20F144N88B4Z	177.50	144	480	6	214	88.19	5.13	19.00	1.69
20F120N120B4Z	190.00	120	480	5	229	119.69	12.13	19.00	1.69
20F162N88B4Z	199.50	162	480	9	240	88.19	5.13	19.00	1.69
20F126N120B4Z	199.50	126	480	7	240	119.69	12.13	19.00	1.69
20F144N106B4Z	200.00	144	480	6	241	105.69	12.13	19.00	1.69
20F180N88B4Z	222.00	180	480	6	267	88.19	5.13	19.00	1.69
20F162N106B4Z	225.00	162	480	9	271	105.69	12.13	19.00	1.69
20F144N120B4Z	228.00	144	480	6	274	119.69	12.13	19.00	1.69
20F180N106B4Z	250.00	180	480	10	301	105.69	12.13	19.00	1.69
20F162N120B4Z	256.50	162	480	9	309	119.69	12.13	19.00	1.69
20F180N120B4Z	285.00	180	480	10	343	119.69	12.13	19.00	1.69

### 24 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
24F192N88B4Z	236.50	192	480	8	284	88.00	4.94	23.00	1.88

## 150# Flanged Immersion Heaters - Type IF

24F216N88B4Z	266.00	216	480	9	320	88.00	4.94	23.00	1.88
24F192N106B4Z	266.50	192	480	8	321	105.50	11.94	23.00	1.88
24F234N88B4Z	288.50	234	480	13	347	88.00	4.94	23.00	1.88
24F240N88B4Z	296.00	240	480	8	356	88.00	4.94	23.00	1.88
24F216N106B4Z	300.00	216	480	9	361	105.50	11.94	23.00	1.88
24F192N120B4Z	304.00	192	480	8	366	119.50	11.94	23.00	1.88
24F234N106B4Z	325.00	234	480	13	391	105.50	11.94	23.00	1.88
24F240N106B4Z	333.00	240	480	10	401	105.50	11.94	23.00	1.88
24F216N120B4Z	342.00	216	480	12	411	119.50	11.94	23.00	1.88
24F234N120B4Z	370.50	234	480	13	446	119.50	11.94	23.00	1.88
24F240N120B4Z	380.00	240	480	10	457	119.50	11.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

## 4 Watts/Sq. Inch

### 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10H4Z	0.50	6	480	1	1	10.44	3.88	3.83	0.94
4F6N18H4Z	1.00	6	480	1	1	17.94	3.88	3.83	0.94
4F6N18H2Z	1.00	6	240	1	2	17.94	3.88	3.83	0.94
4F6N20H4Z	1.25	6	480	1	2	19.94	3.88	3.83	0.94
4F6N20H2Z	1.25	6	240	1	3	19.94	3.88	3.83	0.94
4F6N25H2Z	1.50	6	240	1	4	25.44	3.88	3.83	0.94
4F6N25H4Z	1.50	6	480	1	2	25.44	3.88	3.83	0.94
4F6N33H2Z	2.00	6	240	1	5	32.94	3.88	3.83	0.94
4F6N33H4Z	2.00	6	480	1	2	32.94	3.88	3.83	0.94
4F6N40H4Z	2.50	6	480	1	3	40.44	3.88	3.83	0.94
4F6N40H2Z	2.50	6	240	1	6	40.44	3.88	3.83	0.94
4F6N48H4Z	3.00	6	480	1	4	47.94	3.88	3.83	0.94
4F6N52H4Z	3.00	6	480	1	4	51.94	5.88	3.83	0.94
4F6N61H4Z	4.13	6	480	1	5	61.44	5.88	3.83	0.94
4F6N68H4Z	4.13	6	480	1	5	68.44	12.88	3.83	0.94
4F6N80H4Z	5.50	6	480	1	7	78.94	10.88	3.83	0.94
4F6N88H4Z	6.25	6	480	1	8	88.94	5.88	3.83	0.94
4F6N95H4Z	6.25	6	480	1	8	95.94	12.88	3.83	0.94
4F6N120H4Z	7.50	6	480	1	9	120.44	14.38	3.83	0.94
4F6N140H4Z	8.75	6	480	1	11	140.44	16.88	3.83	0.94
4F6N160H4Z	10.00	6	480	1	12	160.44	16.88	3.83	0.94

### 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N10H4Z	1.00	12	480	1	1	10.38	3.81	5.76	1.00
6F12N18H4Z	2.00	12	480	1	2	17.88	3.81	5.76	1.00
6F12N18H2Z	2.00	12	240	1	5	17.88	3.81	5.76	1.00
6F12N20H2Z	2.50	12	240	1	6	19.88	3.81	5.76	1.00
6F12N20H4Z	2.50	12	480	1	3	19.88	3.81	5.76	1.00
6F12N25H4Z	3.00	12	480	1	4	25.38	3.81	5.76	1.00
6F12N25H2Z	3.00	12	240	1	7	25.38	3.81	5.76	1.00
6F12N33H2Z	4.00	12	240	1	10	32.88	3.81	5.76	1.00
6F12N33H4Z	4.00	12	480	1	5	32.88	3.81	5.76	1.00
6F12N40H4Z	5.00	12	480	1	6	40.38	3.81	5.76	1.00
6F12N40H2Z	5.00	12	240	1	12	40.38	3.81	5.76	1.00
6F12N48H4Z	6.00	12	480	1	7	47.88	3.81	5.76	1.00
6F12N52H4Z	6.00	12	480	1	7	51.88	5.81	5.76	1.00
6F12N61H4Z	8.25	12	480	1	10	61.38	5.81	5.76	1.00
6F12N68H4Z	8.25	12	480	1	10	68.38	12.81	5.76	1.00
6F12N80H4Z	11.00	12	480	1	13	78.88	10.81	5.76	1.00
6F12N88H4Z	12.50	12	480	1	15	88.88	5.81	5.76	1.00
6F12N95H4Z	12.50	12	480	1	15	95.88	12.81	5.76	1.00
6F12N120H4Z	15.00	12	480	1	18	120.38	14.31	5.76	1.00
6F12N140H4Z	17.50	12	480	1	21	140.38	16.81	5.76	1.00
6F12N160H4Z	20.00	12	480	1	24	160.38	16.81	5.76	1.00

### 8 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
8F18N10H4Z	1.50	18	480	1	2	10.25	3.69	7.63	1.13
8F24N10H4Z	2.00	24	480	1	2	10.25	3.69	7.63	1.13

## 150# Flanged Immersion Heaters - Type IF

8F18N18H4Z	3.00	18	480	1	4	17.75	3.69	7.63	1.13
8F18N20H4Z	3.75	18	480	1	5	19.75	3.69	7.63	1.13
8F24N18H4Z	4.00	24	480	1	5	17.75	3.69	7.63	1.13
8F18N25H4Z	4.50	18	480	1	5	25.25	3.69	7.63	1.13
8F24N20H4Z	5.00	24	480	1	6	19.75	3.69	7.63	1.13
8F24N25H4Z	6.00	24	480	1	7	25.25	3.69	7.63	1.13
8F18N33H4Z	6.00	18	480	1	7	32.75	3.69	7.63	1.13
8F18N40H4Z	7.50	18	480	1	9	40.25	3.69	7.63	1.13
8F24N33H4Z	8.00	24	480	1	10	32.75	3.69	7.63	1.13
8F18N48H4Z	9.00	18	480	1	11	47.75	3.69	7.63	1.13
8F18N52H4Z	9.00	18	480	1	11	51.75	5.69	7.63	1.13
8F24N40H4Z	10.00	24	480	1	12	40.25	3.69	7.63	1.13
8F24N48H4Z	12.00	24	480	1	14	47.75	3.69	7.63	1.13
8F24N52H4Z	12.00	24	480	1	14	51.75	5.69	7.63	1.13
8F18N61H4Z	12.50	18	480	1	15	61.25	5.69	7.63	1.13
8F18N68H4Z	12.50	18	480	1	15	68.25	12.69	7.63	1.13
8F24N61H4Z	16.50	24	480	1	20	61.25	5.69	7.63	1.13
8F24N68H4Z	16.50	24	480	1	20	68.25	12.69	7.63	1.13
8F18N80H4Z	16.50	18	480	1	20	78.75	10.69	7.63	1.13
8F18N88H4Z	18.75	18	480	1	23	88.75	5.69	7.63	1.13
8F18N95H4Z	18.75	18	480	1	23	95.75	12.69	7.63	1.13
8F24N80H4Z	22.00	24	480	1	26	78.75	10.69	7.63	1.13
8F18N120H4Z	22.50	18	480	1	27	120.25	14.19	7.63	1.13
8F24N88H4Z	25.00	24	480	1	30	88.75	5.69	7.63	1.13
8F24N95H4Z	25.00	24	480	1	30	95.75	12.69	7.63	1.13
8F18N140H4Z	26.25	18	480	1	32	140.25	16.69	7.63	1.13
8F24N120H4Z	30.00	24	480	1	36	120.25	14.19	7.63	1.13
8F18N160H4Z	30.00	18	480	1	36	160.25	16.69	7.63	1.13
8F24N140H4Z	35.00	24	480	1	42	140.25	16.69	7.63	1.13
8F24N160H4Z	40.00	24	480	1	48	160.25	16.69	7.63	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>
10F30N10H4Z	2.50	30	480	1	3	10.19	3.63	9.75	1.19
10F36N10H4Z	3.00	36	480	1	4	10.19	3.63	9.75	1.19
10F30N18H4Z	5.00	30	480	1	6	17.69	3.63	9.75	1.19
10F36N18H4Z	6.00	36	480	1	7	17.69	3.63	9.75	1.19
10F30N20H4Z	6.25	30	480	1	8	19.69	3.63	9.75	1.19
10F36N20H4Z	7.50	36	480	1	9	19.69	3.63	9.75	1.19
10F30N25H4Z	7.50	30	480	1	9	25.19	3.63	9.75	1.19
10F36N25H4Z	9.00	36	480	1	11	25.19	3.63	9.75	1.19
10F30N33H4Z	10.00	30	480	1	12	32.69	3.63	9.75	1.19
10F36N33H4Z	12.00	36	480	1	14	32.69	3.63	9.75	1.19
10F30N40H4Z	12.50	30	480	1	15	40.19	3.63	9.75	1.19
10F36N40H4Z	15.00	36	480	1	18	40.19	3.63	9.75	1.19
10F30N48H4Z	15.00	30	480	1	18	47.69	3.63	9.75	1.19
10F30N52H4Z	15.00	30	480	1	18	51.69	5.63	9.75	1.19
10F36N48H4Z	18.00	36	480	1	22	47.69	3.63	9.75	1.19
10F36N52H4Z	18.00	36	480	1	22	51.69	5.63	9.75	1.19
10F30N61H4Z	20.75	30	480	1	25	61.19	5.63	9.75	1.19
10F30N68H4Z	20.75	30	480	1	25	68.19	12.63	9.75	1.19
10F36N61H4Z	25.00	36	480	1	30	61.19	5.63	9.75	1.19
10F36N68H4Z	25.00	36	480	1	30	68.19	12.63	9.75	1.19
10F30N80H4Z	27.75	30	480	1	33	78.69	10.63	9.75	1.19



## 150# Flanged Immersion Heaters - Type IF

10F30N88H4Z	31.25	30	480	1	38	88.69	5.63	9.75	1.19
10F30N95H4Z	31.25	30	480	1	38	95.69	12.63	9.75	1.19
10F36N80H4Z	33.25	36	480	1	40	78.69	10.63	9.75	1.19
10F36N88H4Z	37.50	36	480	1	45	88.69	5.63	9.75	1.19
10F36N95H4Z	37.50	36	480	1	45	95.69	12.63	9.75	1.19
10F30N120H4Z	37.50	30	480	1	45	120.19	14.13	9.75	1.19
10F36N120H4Z	45.00	36	480	2	54	120.19	14.13	9.75	1.19
10F36N140H4Z	52.50	36	480	2	63	140.19	16.63	9.75	1.19
10F36N160H4Z	60.00	36	480	2	72	160.19	16.63	9.75	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>
12F48N40H4Z	20.00	48	480	1	24	40.13	3.56	11.75	1.25
12F48N48H4Z	24.00	48	480	1	29	47.63	3.56	11.75	1.25
12F48N52H4Z	24.00	48	480	1	29	51.63	5.56	11.75	1.25
12F48N61H4Z	33.25	48	480	1	40	61.13	5.56	11.75	1.25
12F48N68H4Z	33.25	48	480	1	40	68.13	12.56	11.75	1.25
12F48N80H4Z	44.25	48	480	2	53	78.63	10.56	11.75	1.25
12F48N88H4Z	50.00	48	480	2	60	88.63	5.56	11.75	1.25
12F48N95H4Z	50.00	48	480	2	60	95.63	12.56	11.75	1.25
12F48N120H4Z	60.00	48	480	2	72	120.13	14.06	11.75	1.25
12F54N120H4Z	67.50	54	480	3	81	120.13	14.06	11.75	1.25
12F48N140H4Z	70.00	48	480	2	84	140.13	16.56	11.75	1.25
12F54N140H4Z	78.75	54	480	3	95	140.13	16.56	11.75	1.25
12F48N160H4Z	80.00	48	480	2	96	160.13	16.56	11.75	1.25
12F54N160H4Z	90.00	54	480	3	108	160.13	16.56	11.75	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>
14F60N80H4Z	55.50	60	480	2	67	78.50	10.44	13.00	1.38
14F60N88H4Z	62.50	60	480	2	75	88.50	5.44	13.00	1.38
14F60N95H4Z	62.50	60	480	2	75	95.50	12.44	13.00	1.38
14F72N80H4Z	66.50	72	480	2	80	78.50	10.44	13.00	1.38
14F54N120H4Z	67.50	54	480	3	81	120.00	13.94	13.00	1.38
14F72N88H4Z	75.00	72	480	2	90	88.50	5.44	13.00	1.38
14F72N95H4Z	75.00	72	480	2	90	95.50	12.44	13.00	1.38
14F60N120H4Z	75.00	60	480	2	90	120.00	13.94	13.00	1.38
14F54N140H4Z	78.75	54	480	3	95	140.00	16.44	13.00	1.38
14F72N120H4Z	90.00	72	480	3	108	120.00	13.94	13.00	1.38
14F54N160H4Z	90.00	54	480	3	108	160.00	16.44	13.00	1.38
14F60N160H4Z	100.00	60	480	5	120	160.00	16.44	13.00	1.38
14F72N140H4Z	105.00	72	480	3	126	140.00	16.44	13.00	1.38
14F72N160H4Z	120.00	72	480	3	144	160.00	16.44	13.00	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>
16F84N80H4Z	77.50	84	480	2	93	78.44	10.38	15.00	1.44
16F90N80H4Z	83.25	90	480	3	100	78.44	10.38	15.00	1.44
16F96N80H4Z	88.75	96	480	4	107	78.44	10.38	15.00	1.44
16F90N88H4Z	93.75	90	480	3	113	88.44	5.38	15.00	1.44
16F90N95H4Z	93.75	90	480	3	113	95.44	12.38	15.00	1.44
16F96N88H4Z	100.00	96	480	4	120	88.44	5.38	15.00	1.44
16F96N95H4Z	100.00	96	480	4	120	95.44	12.38	15.00	1.44
16F90N120H4Z	112.50	90	480	3	135	119.94	13.88	15.00	1.44

## 150# Flanged Immersion Heaters - Type IF

16F96N120H4Z	120.00	96	480	4	144	119.94	13.88	15.00	1.44
16F90N140H4Z	131.00	90	480	5	158	139.94	16.38	15.00	1.44
16F96N140H4Z	140.00	96	480	4	168	139.94	16.38	15.00	1.44
16F84N160H4Z	140.00	84	480	7	168	159.94	16.38	15.00	1.44
16F90N160H4Z	150.00	90	480	5	180	159.94	16.38	15.00	1.44
16F96N160H4Z	160.00	96	480	4	192	159.94	16.38	15.00	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>
18F108N88H4Z	112.50	108	480	3	135	88.31	5.25	17.00	1.56
18F108N95H4Z	112.50	108	480	3	135	95.31	12.25	17.00	1.56
18F108N120H4Z	135.00	108	480	6	162	119.81	13.75	17.00	1.56
18F108N140H4Z	157.50	108	480	6	189	139.81	16.25	17.00	1.56
18F108N160H4Z	180.00	108	480	6	217	159.81	16.25	17.00	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>
20F120N88H4Z	125.00	120	480	4	150	88.19	5.13	19.00	1.69
20F120N95H4Z	125.00	120	480	4	150	95.19	12.13	19.00	1.69
20F144N88H4Z	150.00	144	480	4	180	88.19	5.13	19.00	1.69
20F144N95H4Z	150.00	144	480	4	180	95.19	12.13	19.00	1.69
20F120N120H4Z	150.00	120	480	4	180	119.69	13.63	19.00	1.69
20F126N120H4Z	157.50	126	480	7	189	119.69	13.63	19.00	1.69
20F120N140H4Z	175.00	120	480	5	210	139.69	16.13	19.00	1.69
20F144N120H4Z	180.00	144	480	6	217	119.69	13.63	19.00	1.69
20F126N140H4Z	183.50	126	480	7	221	139.69	16.13	19.00	1.69
20F180N88H4Z	187.50	180	480	5	226	88.19	5.13	19.00	1.69
20F180N95H4Z	187.50	180	480	5	226	95.19	12.13	19.00	1.69
20F120N160H4Z	200.00	120	480	5	241	159.69	16.13	19.00	1.69
20F162N120H4Z	202.50	162	480	9	244	119.69	13.63	19.00	1.69
20F144N140H4Z	210.00	144	480	6	253	139.69	16.13	19.00	1.69
20F126N160H4Z	210.00	126	480	7	253	159.69	16.13	19.00	1.69
20F132N160H4Z	220.00	132	480	11	265	159.69	16.13	19.00	1.69
20F180N120H4Z	225.00	180	480	6	271	119.69	13.63	19.00	1.69
20F162N140H4Z	236.00	162	480	9	284	139.69	16.13	19.00	1.69
20F144N160H4Z	240.00	144	480	6	289	159.69	16.13	19.00	1.69
20F180N140H4Z	262.50	180	480	10	316	139.69	16.13	19.00	1.69
20F162N160H4Z	270.00	162	480	9	325	159.69	16.13	19.00	1.69
20F180N160H4Z	300.00	180	480	10	361	159.69	16.13	19.00	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>
24F192N88H4Z	200.00	192	480	8	241	88.00	4.94	23.00	1.88
24F192N95H4Z	200.00	192	480	8	241	95.00	11.94	23.00	1.88
24F216N88H4Z	225.00	216	480	6	271	88.00	4.94	23.00	1.88
24F216N95H4Z	225.00	216	480	6	271	95.00	11.94	23.00	1.88
24F192N120H4Z	240.00	192	480	8	289	119.50	13.44	23.00	1.88
24F240N88H4Z	250.00	240	480	8	301	88.00	4.94	23.00	1.88
24F240N95H4Z	250.00	240	480	8	301	95.00	11.94	23.00	1.88
24F216N120H4Z	270.00	216	480	9	325	119.50	13.44	23.00	1.88
24F192N140H4Z	280.00	192	480	8	337	139.50	15.94	23.00	1.88
24F234N120H4Z	292.50	234	480	13	352	119.50	13.44	23.00	1.88
24F240N120H4Z	300.00	240	480	8	361	119.50	13.44	23.00	1.88
24F216N140H4Z	315.00	216	480	9	379	139.50	15.94	23.00	1.88

## 150# Flanged Immersion Heaters - Type IF

24F192N160H4Z	320.00	192	480	8	385	159.50	15.94	23.00	1.88
24F234N140H4Z	341.00	234	480	13	410	139.50	15.94	23.00	1.88
24F240N140H4Z	350.00	240	480	10	421	139.50	15.94	23.00	1.88
24F216N160H4Z	360.00	216	480	12	433	159.50	15.94	23.00	1.88
24F234N160H4Z	390.00	234	480	13	469	159.50	15.94	23.00	1.88
24F240N160H4Z	400.00	240	480	10	481	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

3 Watts/Sq. Inch

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N44G4Z	1.50	6	480	1	2	44.44	10.88	3.83	0.94
4F6N56G4Z	2.00	6	480	1	2	56.44	10.88	3.83	0.94
4F6N67G4Z	2.50	6	480	1	3	67.44	10.88	3.83	0.94
4F6N80G4Z	3.00	6	480	1	4	80.44	12.88	3.83	0.94
4F6N100G4Z	3.75	6	480	1	5	100.44	12.88	3.83	0.94
4F6N120G4Z	4.75	6	480	1	6	120.44	12.88	3.83	0.94
4F6N111F4Z	5.00	6	480	1	6	111.44	16.88	3.83	0.94
4F6N140G4Z	5.50	6	480	1	7	140.44	16.88	3.83	0.94
4F6N160G4Z	6.50	6	480	1	8	160.44	16.88	3.83	0.94

## 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N44G4Z	3.00	12	480	1	4	44.38	10.81	5.76	1.00
6F12N56G4Z	4.00	12	480	1	5	56.38	10.81	5.76	1.00
6F12N67G4Z	5.00	12	480	1	6	67.38	10.81	5.76	1.00
6F12N80G4Z	6.00	12	480	1	7	80.38	12.81	5.76	1.00
6F12N100G4Z	7.50	12	480	1	9	100.38	12.81	5.76	1.00
6F12N120G4Z	9.50	12	480	1	11	120.38	12.81	5.76	1.00
6F12N111F4Z	10.00	12	480	1	12	111.38	16.81	5.76	1.00
6F12N140G4Z	11.00	12	480	1	13	140.38	16.81	5.76	1.00
6F12N160G4Z	13.00	12	480	1	16	160.38	16.81	5.76	1.00

## 8 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
8F18N44G4Z	4.50	18	480	1	5	44.25	10.69	7.63	1.13
8F24N44G4Z	6.00	24	480	1	7	44.25	10.69	7.63	1.13
8F18N56G4Z	6.00	18	480	1	7	56.25	10.69	7.63	1.13
8F18N67G4Z	7.50	18	480	1	9	67.25	10.69	7.63	1.13
8F24N56G4Z	8.00	24	480	1	10	56.25	10.69	7.63	1.13
8F18N80G4Z	9.00	18	480	1	11	80.25	12.69	7.63	1.13
8F24N67G4Z	10.00	24	480	1	12	67.25	10.69	7.63	1.13
8F18N100G4Z	11.25	18	480	1	14	100.25	12.69	7.63	1.13
8F24N80G4Z	12.00	24	480	1	14	80.25	12.69	7.63	1.13
8F18N120G4Z	14.25	18	480	1	17	120.25	12.69	7.63	1.13
8F24N100G4Z	15.00	24	480	1	18	100.25	12.69	7.63	1.13
8F18N140G4Z	16.50	18	480	1	20	140.25	16.69	7.63	1.13
8F24N120G4Z	19.00	24	480	1	23	120.25	12.69	7.63	1.13
8F18N160G4Z	19.50	18	480	1	23	160.25	16.69	7.63	1.13
8F24N140G4Z	22.00	24	480	1	26	140.25	16.69	7.63	1.13
8F24N160G4Z	26.00	24	480	1	31	160.25	16.69	7.63	1.13

## 10 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
10F30N44G4Z	7.50	30	480	1	9	44.19	10.63	9.75	1.19
10F36N44G4Z	9.00	36	480	1	11	44.19	10.63	9.75	1.19
10F30N56G4Z	10.00	30	480	1	12	56.19	10.63	9.75	1.19
10F36N56G4Z	12.00	36	480	1	14	56.19	10.63	9.75	1.19
10F30N67G4Z	12.50	30	480	1	15	67.19	10.63	9.75	1.19
10F36N67G4Z	15.00	36	480	1	18	67.19	10.63	9.75	1.19
10F30N80G4Z	15.00	30	480	1	18	80.19	12.63	9.75	1.19

## 150# Flanged Immersion Heaters - Type IF

10F36N80G4Z	18.00	36	480	1	22	80.19	12.63	9.75	1.19
10F30N100G4Z	18.75	30	480	1	23	100.19	12.63	9.75	1.19
10F36N100G4Z	22.50	36	480	1	27	100.19	12.63	9.75	1.19
10F30N120G4Z	23.75	30	480	1	29	120.19	12.63	9.75	1.19
10F30N140G4Z	27.50	30	480	1	33	140.19	16.63	9.75	1.19
10F36N120G4Z	28.50	36	480	1	34	120.19	12.63	9.75	1.19
10F30N160G4Z	32.50	30	480	1	39	160.19	16.63	9.75	1.19
10F36N140G4Z	33.00	36	480	1	40	140.19	16.63	9.75	1.19
10F36N160G4Z	39.00	36	480	1	47	160.19	16.63	9.75	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>
12F48N44G4Z	12.00	48	480	1	14	44.13	10.56	11.75	1.25
12F48N56G4Z	16.00	48	480	1	19	56.13	10.56	11.75	1.25
12F48N67G4Z	20.00	48	480	1	24	67.13	10.56	11.75	1.25
12F48N80G4Z	24.00	48	480	1	29	80.13	12.56	11.75	1.25
12F54N80G4Z	27.00	54	480	1	32	80.13	12.56	11.75	1.25
12F48N100G4Z	30.00	48	480	1	36	100.13	12.56	11.75	1.25
12F54N100G4Z	33.75	54	480	1	41	100.13	12.56	11.75	1.25
12F48N120G4Z	38.00	48	480	1	46	120.13	12.56	11.75	1.25
12F48N140G4Z	44.00	48	480	2	53	140.13	16.56	11.75	1.25
12F48N160G4Z	52.00	48	480	2	63	160.13	16.56	11.75	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>
14F54N80G4Z	27.00	54	480	1	32	80.00	12.44	13.00	1.38
14F60N80G4Z	30.00	60	480	1	36	80.00	12.44	13.00	1.38
14F54N100G4Z	33.75	54	480	1	41	100.00	12.44	13.00	1.38
14F72N80G4Z	36.00	72	480	1	43	80.00	12.44	13.00	1.38
14F60N100G4Z	37.50	60	480	1	45	100.00	12.44	13.00	1.38
14F72N100G4Z	45.00	72	480	2	54	100.00	12.44	13.00	1.38
14F60N120G4Z	47.50	60	480	2	57	120.00	12.44	13.00	1.38
14F60N140G4Z	55.00	60	480	2	66	140.00	16.44	13.00	1.38
14F72N120G4Z	57.00	72	480	2	69	120.00	12.44	13.00	1.38
14F60N160G4Z	65.00	60	480	2	78	160.00	16.44	13.00	1.38
14F72N140G4Z	66.00	72	480	2	79	140.00	16.44	13.00	1.38
14F72N160G4Z	78.00	72	480	2	94	160.00	16.44	13.00	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>
16F84N80G4Z	42.00	84	480	2	51	79.94	12.38	15.00	1.44
16F96N80G4Z	48.00	96	480	2	58	79.94	12.38	15.00	1.44
16F84N100G4Z	52.50	84	480	2	63	99.94	12.38	15.00	1.44
16F96N100G4Z	60.00	96	480	2	72	99.94	12.38	15.00	1.44
16F84N120G4Z	66.50	84	480	2	80	119.94	12.38	15.00	1.44
16F90N120G4Z	71.25	90	480	3	86	119.94	12.38	15.00	1.44
16F96N120G4Z	76.00	96	480	2	91	119.94	12.38	15.00	1.44
16F84N140G4Z	77.00	84	480	2	93	139.94	16.38	15.00	1.44
16F90N140G4Z	82.50	90	480	3	99	139.94	16.38	15.00	1.44
16F96N140G4Z	88.00	96	480	4	106	139.94	16.38	15.00	1.44
16F90N160G4Z	97.50	90	480	3	117	159.94	16.38	15.00	1.44
16F96N160G4Z	104.00	96	480	4	125	159.94	16.38	15.00	1.44

### 18 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>
18F108N100G4Z	67.50	108	480	2	81	99.81	12.25	17.00	1.56
18F108N120G4Z	85.50	108	480	3	103	119.81	12.25	17.00	1.56
18F108N140G4Z	99.00	108	480	3	119	139.81	16.25	17.00	1.56
18F108N160G4Z	117.00	108	480	3	141	159.81	16.25	17.00	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>
20F120N100G4Z	75.00	120	480	2	90	99.69	12.13	19.00	1.69
20F126N100G4Z	78.75	126	480	3	95	99.69	12.13	19.00	1.69
20F144N100G4Z	90.00	144	480	3	108	99.69	12.13	19.00	1.69
20F120N120G4Z	95.00	120	480	4	114	119.69	12.13	19.00	1.69
20F126N120G4Z	99.75	126	480	3	120	119.69	12.13	19.00	1.69
20F162N100G4Z	101.00	162	480	3	121	99.69	12.13	19.00	1.69
20F120N140G4Z	110.00	120	480	4	132	139.69	16.13	19.00	1.69
20F180N100G4Z	112.50	180	480	3	135	99.69	12.13	19.00	1.69
20F144N120G4Z	114.00	144	480	3	137	119.69	12.13	19.00	1.69
20F126N140G4Z	115.50	126	480	3	139	139.69	16.13	19.00	1.69
20F120N160G4Z	130.00	120	480	4	156	159.69	16.13	19.00	1.69
20F144N140G4Z	132.00	144	480	4	159	139.69	16.13	19.00	1.69
20F180N120G4Z	142.50	180	480	5	171	119.69	12.13	19.00	1.69
20F144N160G4Z	156.00	144	480	4	188	159.69	16.13	19.00	1.69
20F180N140G4Z	165.00	180	480	5	198	139.69	16.13	19.00	1.69
20F180N160G4Z	195.00	180	480	5	235	159.69	16.13	19.00	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>
24F192N100G4Z	120.00	192	480	4	144	99.50	11.94	23.00	1.88
24F216N100G4Z	135.00	216	480	4	162	99.50	11.94	23.00	1.88
24F240N100G4Z	150.00	240	480	4	180	99.50	11.94	23.00	1.88
24F192N120G4Z	152.00	192	480	4	183	119.50	11.94	23.00	1.88
24F216N120G4Z	171.00	216	480	6	206	119.50	11.94	23.00	1.88
24F192N140G4Z	176.00	192	480	8	212	139.50	15.94	23.00	1.88
24F240N120G4Z	190.00	240	480	8	229	119.50	11.94	23.00	1.88
24F216N140G4Z	198.00	216	480	6	238	139.50	15.94	23.00	1.88
24F192N160G4Z	208.00	192	480	8	250	159.50	15.94	23.00	1.88
24F240N140G4Z	220.00	240	480	8	265	139.50	15.94	23.00	1.88
24F216N160G4Z	234.00	216	480	6	281	159.50	15.94	23.00	1.88
24F240N160G4Z	260.00	240	480	8	313	159.50	15.94	23.00	1.88

# 150# Flanged Immersion Heaters - Type IF

2 Watts/Sq. Inch

## 4 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
4F6N10M2Z	0.25	6	240	1	1	10.44	3.88	3.83	0.94
4F6N13M4Z	0.38	6	480	1	0	13.44	3.88	3.83	0.94
4F6N18M2Z	0.50	6	240	1	1	17.94	3.88	3.83	0.94
4F6N18M4Z	0.50	6	480	1	1	17.94	3.88	3.83	0.94
4F6N20M2Z	0.63	6	240	1	2	19.94	3.88	3.83	0.94
4F6N20M4Z	0.63	6	480	1	1	20.44	3.88	3.83	0.94
4F6N25M4Z	0.75	6	480	1	1	25.44	3.88	3.83	0.94
4F6N25M2Z	0.75	6	240	1	2	25.44	3.88	3.83	0.94
4F6N33M4Z	1.00	6	480	1	1	32.94	3.88	3.83	0.94
4F6N40M2Z	1.25	6	240	1	3	40.44	3.88	3.83	0.94
4F6N40M4Z	1.25	6	480	1	2	40.44	3.88	3.83	0.94
4F6N48M4Z	1.50	6	480	1	2	47.94	3.88	3.83	0.94
4F6N52M4Z	1.63	6	480	1	2	51.94	5.88	3.83	0.94
4F6N52M2Z	1.63	6	240	1	4	51.94	5.88	3.83	0.94
4F6N59M4Z	1.63	6	480	1	2	57.94	12.88	3.83	0.94
4F6N64M2Z	2.13	6	240	1	5	64.44	5.88	3.83	0.94
4F6N64M4Z	2.13	6	480	1	3	64.44	5.88	3.83	0.94
4F6N73M4Z	2.13	6	480	1	3	71.94	16.88	3.83	0.94
4F6N77M2Z	2.50	6	240	1	6	76.94	5.88	3.83	0.94
4F6N77M4Z	2.50	6	480	1	3	76.94	5.88	3.83	0.94
4F6N88M4Z	2.75	6	480	1	3	88.94	5.88	3.83	0.94
4F6N95M4Z	2.75	6	480	1	3	93.94	12.88	3.83	0.94
4F6N106M4Z	3.13	6	480	1	4	106.44	12.88	3.83	0.94
4F6N120M4Z	3.88	6	480	1	5	120.44	12.88	3.83	0.94
4F6N140M4Z	4.38	6	480	1	5	140.44	16.88	3.83	0.94
4F6N160M4Z	5.00	6	480	1	6	160.44	16.88	3.83	0.94

## 6 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
6F12N10M2Z	0.50	12	240	1	1	10.38	3.81	5.76	1.00
6F12N13M4Z	0.75	12	480	1	1	13.38	3.81	5.76	1.00
6F12N18M2Z	1.00	12	240	1	2	17.88	3.81	5.76	1.00
6F12N18M4Z	1.00	12	480	1	1	17.88	3.81	5.76	1.00
6F12N20M2Z	1.25	12	240	1	3	19.88	3.81	5.76	1.00
6F12N20M4Z	1.25	12	480	1	2	20.38	3.81	5.76	1.00
6F12N25M2Z	1.50	12	240	1	4	25.38	3.81	5.76	1.00
6F12N25M4Z	1.50	12	480	1	2	25.38	3.81	5.76	1.00
6F12N33M4Z	2.00	12	480	1	2	32.88	3.81	5.76	1.00
6F12N40M2Z	2.50	12	240	1	6	40.38	3.81	5.76	1.00
6F12N40M4Z	2.50	12	480	1	3	40.38	3.81	5.76	1.00
6F12N48M4Z	3.00	12	480	1	4	47.88	3.81	5.76	1.00
6F12N52M4Z	3.25	12	480	1	4	51.88	5.81	5.76	1.00
6F12N52M2Z	3.25	12	240	1	8	51.88	5.81	5.76	1.00
6F12N59M4Z	3.25	12	480	1	4	57.88	12.81	5.76	1.00
6F12N64M4Z	4.25	12	480	1	5	64.38	5.81	5.76	1.00
6F12N64M2Z	4.25	12	240	1	10	64.38	5.81	5.76	1.00
6F12N73M4Z	4.25	12	480	1	5	71.88	16.81	5.76	1.00
6F12N77M2Z	5.00	12	240	1	12	76.88	5.81	5.76	1.00
6F12N77M4Z	5.00	12	480	1	6	76.88	5.81	5.76	1.00
6F12N88M4Z	5.50	12	480	1	7	88.88	5.81	5.76	1.00

## 150# Flanged Immersion Heaters - Type IF

6F12N95M4Z	5.50	12	480	1	7	93.88	12.81	5.76	1.00
6F12N106M4Z	6.25	12	480	1	8	106.38	12.81	5.76	1.00
6F12N120M4Z	7.75	12	480	1	9	120.38	12.81	5.76	1.00
6F12N140M4Z	8.75	12	480	1	11	140.38	16.81	5.76	1.00
6F12N160M4Z	10.00	12	480	1	12	160.38	16.81	5.76	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>
8F18N13M4Z	1.13	18	480	1	1	13.25	3.69	7.63	1.13
8F24N13M4Z	1.50	24	480	1	2	13.25	3.69	7.63	1.13
8F18N18M4Z	1.50	18	480	1	2	17.75	3.69	7.63	1.13
8F18N20M4Z	1.88	18	480	1	2	20.25	3.69	7.63	1.13
8F24N18M4Z	2.00	24	480	1	2	17.75	3.69	7.63	1.13
8F18N25M4Z	2.25	18	480	1	3	25.25	3.69	7.63	1.13
8F24N20M4Z	2.50	24	480	1	3	20.25	3.69	7.63	1.13
8F24N25M4Z	3.00	24	480	1	4	25.25	3.69	7.63	1.13
8F18N33M4Z	3.00	18	480	1	4	32.75	3.69	7.63	1.13
8F18N40M4Z	3.75	18	480	1	5	40.25	3.69	7.63	1.13
8F24N33M4Z	4.00	24	480	1	5	32.75	3.69	7.63	1.13
8F18N48M4Z	4.50	18	480	1	5	47.75	3.69	7.63	1.13
8F24N40M4Z	5.00	24	480	1	6	40.25	3.69	7.63	1.13
8F18N52M4Z	5.00	18	480	1	6	51.75	5.69	7.63	1.13
8F18N59M4Z	5.00	18	480	1	6	57.75	12.69	7.63	1.13
8F24N48M4Z	6.00	24	480	1	7	47.75	3.69	7.63	1.13
8F18N64M4Z	6.38	18	480	1	8	64.25	5.69	7.63	1.13
8F18N73M4Z	6.38	18	480	1	8	71.75	16.69	7.63	1.13
8F24N52M4Z	6.63	24	480	1	8	51.75	5.69	7.63	1.13
8F24N59M4Z	6.63	24	480	1	8	57.75	12.69	7.63	1.13
8F18N77M4Z	7.50	18	480	1	9	76.75	5.69	7.63	1.13
8F18N88M4Z	8.38	18	480	1	10	88.75	5.69	7.63	1.13
8F18N95M4Z	8.38	18	480	1	10	93.75	12.69	7.63	1.13
8F24N64M4Z	8.50	24	480	1	10	64.25	5.69	7.63	1.13
8F24N73M4Z	8.50	24	480	1	10	71.75	16.69	7.63	1.13
8F18N106M4Z	9.38	18	480	1	11	106.25	12.69	7.63	1.13
8F24N77M4Z	10.00	24	480	1	12	76.75	5.69	7.63	1.13
8F24N88M4Z	11.00	24	480	1	13	88.75	5.69	7.63	1.13
8F24N95M4Z	11.00	24	480	1	13	93.75	12.69	7.63	1.13
8F18N120M4Z	11.50	18	480	1	14	120.25	12.69	7.63	1.13
8F24N106M4Z	12.50	24	480	1	15	106.25	12.69	7.63	1.13
8F18N140M4Z	13.00	18	480	1	16	140.25	16.69	7.63	1.13
8F18N160M4Z	15.00	18	480	1	18	160.25	16.69	7.63	1.13
8F24N120M4Z	15.50	24	480	1	19	120.25	12.69	7.63	1.13
8F24N140M4Z	17.50	24	480	1	21	140.25	16.69	7.63	1.13
8F24N160M4Z	20.00	24	480	1	24	160.25	16.69	7.63	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>
10F30N13M4Z	1.88	30	480	1	2	13.19	3.63	9.75	1.19
10F36N13M4Z	2.25	36	480	1	3	13.19	3.63	9.75	1.19
10F30N18M4Z	2.50	30	480	1	3	17.69	3.63	9.75	1.19
10F36N18M4Z	3.00	36	480	1	4	17.69	3.63	9.75	1.19
10F30N20M4Z	3.13	30	480	1	4	20.19	3.63	9.75	1.19
10F36N20M4Z	3.75	36	480	1	5	20.19	3.63	9.75	1.19
10F30N25M4Z	3.75	30	480	1	5	25.19	3.63	9.75	1.19



## 150# Flanged Immersion Heaters - Type IF

10F36N25M4Z	4.50	36	480	1	5	25.19	3.63	9.75	1.19
10F30N33M4Z	5.00	30	480	1	6	32.69	3.63	9.75	1.19
10F36N33M4Z	6.00	36	480	1	7	32.69	3.63	9.75	1.19
10F30N40M4Z	6.25	30	480	1	8	40.19	3.63	9.75	1.19
10F36N40M4Z	7.50	36	480	1	9	40.19	3.63	9.75	1.19
10F30N48M4Z	7.50	30	480	1	9	47.69	3.63	9.75	1.19
10F30N52M4Z	8.25	30	480	1	10	51.69	5.63	9.75	1.19
10F30N59M4Z	8.25	30	480	1	10	57.69	12.63	9.75	1.19
10F36N48M4Z	9.00	36	480	1	11	47.69	3.63	9.75	1.19
10F36N52M4Z	10.00	36	480	1	12	51.69	5.63	9.75	1.19
10F36N59M4Z	10.00	36	480	1	12	57.69	12.63	9.75	1.19
10F30N64M4Z	10.50	30	480	1	13	64.19	5.63	9.75	1.19
10F30N73M4Z	10.50	30	480	1	13	71.69	16.63	9.75	1.19
10F30N77M4Z	12.50	30	480	1	15	76.69	5.63	9.75	1.19
10F36N64M4Z	12.75	36	480	1	15	64.19	5.63	9.75	1.19
10F36N73M4Z	12.75	36	480	1	15	71.69	16.63	9.75	1.19
10F30N88M4Z	14.00	30	480	1	17	88.69	5.63	9.75	1.19
10F30N95M4Z	14.00	30	480	1	17	93.69	12.63	9.75	1.19
10F36N77M4Z	15.00	36	480	1	18	76.69	5.63	9.75	1.19
10F30N106M4Z	15.75	30	480	1	19	106.19	12.63	9.75	1.19
10F36N88M4Z	16.75	36	480	1	20	88.69	5.63	9.75	1.19
10F36N95M4Z	16.75	36	480	1	20	93.69	12.63	9.75	1.19
10F36N106M4Z	18.75	36	480	1	23	106.19	12.63	9.75	1.19
10F30N120M4Z	19.50	30	480	1	23	120.19	12.63	9.75	1.19
10F30N140M4Z	21.75	30	480	1	26	140.19	16.63	9.75	1.19
10F36N120M4Z	23.25	36	480	1	28	120.19	12.63	9.75	1.19
10F30N160M4Z	25.00	30	480	1	30	160.19	16.63	9.75	1.19
10F36N140M4Z	26.25	36	480	1	32	140.19	16.63	9.75	1.19
10F36N160M4Z	30.00	36	480	1	36	160.19	16.63	9.75	1.19

### 12 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
12F48N40M4Z	10.00	48	480	1	12	40.13	3.56	11.75	1.25
12F48N48M4Z	12.00	48	480	1	14	47.63	3.56	11.75	1.25
12F48N52M4Z	13.25	48	480	1	16	51.63	5.56	11.75	1.25
12F48N59M4Z	13.25	48	480	1	16	57.63	12.56	11.75	1.25
12F48N64M4Z	17.00	48	480	1	20	64.13	5.56	11.75	1.25
12F48N73M4Z	17.00	48	480	1	20	71.63	16.56	11.75	1.25
12F48N77M4Z	20.00	48	480	1	24	76.63	5.56	11.75	1.25
12F48N88M4Z	22.25	48	480	1	27	88.63	5.56	11.75	1.25
12F48N95M4Z	22.25	48	480	1	27	93.63	12.56	11.75	1.25
12F54N88M4Z	25.00	54	480	1	30	88.63	5.56	11.75	1.25
12F54N95M4Z	25.00	54	480	1	30	93.63	12.56	11.75	1.25
12F48N106M4Z	25.00	48	480	1	30	106.13	12.56	11.75	1.25
12F54N106M4Z	28.25	54	480	1	34	106.13	12.56	11.75	1.25
12F48N120M4Z	31.00	48	480	1	37	120.13	12.56	11.75	1.25
12F54N120M4Z	35.00	54	480	1	42	120.13	12.56	11.75	1.25
12F48N140M4Z	35.00	48	480	1	42	140.13	16.56	11.75	1.25
12F54N140M4Z	39.25	54	480	1	47	140.13	16.56	11.75	1.25
12F48N160M4Z	40.00	48	480	1	48	160.13	16.56	11.75	1.25

### 14 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
14F54N88M4Z	25.00	54	480	1	30	88.50	5.44	13.00	1.38

## 150# Flanged Immersion Heaters - Type IF

14F54N95M4Z	25.00	54	480	1	30	93.50	12.44	13.00	1.38
14F60N88M4Z	28.00	60	480	1	34	88.50	5.44	13.00	1.38
14F60N95M4Z	28.00	60	480	1	34	93.50	12.44	13.00	1.38
14F54N106M4Z	28.25	54	480	1	34	106.00	12.44	13.00	1.38
14F60N106M4Z	31.50	60	480	1	38	106.00	12.44	13.00	1.38
14F72N88M4Z	33.50	72	480	1	40	88.50	5.44	13.00	1.38
14F72N95M4Z	33.50	72	480	1	40	93.50	12.44	13.00	1.38
14F54N120M4Z	35.00	54	480	1	42	120.00	12.44	13.00	1.38
14F72N106M4Z	37.75	72	480	1	45	106.00	12.44	13.00	1.38
14F60N120M4Z	39.00	60	480	1	47	120.00	12.44	13.00	1.38
14F54N140M4Z	39.25	54	480	1	47	140.00	16.44	13.00	1.38
14F60N140M4Z	43.75	60	480	2	53	140.00	16.44	13.00	1.38
14F72N120M4Z	46.75	72	480	2	56	120.00	12.44	13.00	1.38
14F60N160M4Z	50.00	60	480	2	60	160.00	16.44	13.00	1.38
14F72N140M4Z	52.50	72	480	2	63	140.00	16.44	13.00	1.38
14F72N160M4Z	60.00	72	480	2	72	160.00	16.44	13.00	1.38

### 16 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
16F84N88M4Z	39.00	84	480	1	47	88.44	5.38	15.00	1.44
16F84N95M4Z	39.00	84	480	1	47	93.44	12.38	15.00	1.44
16F84N106M4Z	44.00	84	480	2	53	105.94	12.38	15.00	1.44
16F96N88M4Z	44.75	96	480	2	54	88.44	5.38	15.00	1.44
16F96N95M4Z	44.75	96	480	2	54	93.44	12.38	15.00	1.44
16F96N106M4Z	50.25	96	480	2	60	105.94	12.38	15.00	1.44
16F84N120M4Z	54.50	84	480	2	66	119.94	12.38	15.00	1.44
16F84N140M4Z	61.25	84	480	2	74	139.94	16.38	15.00	1.44
16F96N120M4Z	62.25	96	480	2	75	119.94	12.38	15.00	1.44
16F90N140M4Z	65.50	90	480	3	79	139.94	16.38	15.00	1.44
16F96N140M4Z	70.00	96	480	2	84	139.94	16.38	15.00	1.44
16F84N160M4Z	70.00	84	480	2	84	159.94	16.38	15.00	1.44
16F90N160M4Z	75.00	90	480	3	90	159.94	16.38	15.00	1.44
16F96N160M4Z	80.00	96	480	2	96	159.94	16.38	15.00	1.44

### 18 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
18F108N88M4Z	50.25	108	480	2	60	88.31	5.25	17.00	1.56
18F108N95M4Z	50.25	108	480	2	60	93.31	12.25	17.00	1.56
18F108N106M4Z	56.50	108	480	2	68	105.81	12.25	17.00	1.56
18F108N120M4Z	70.00	108	480	2	84	119.81	12.25	17.00	1.56
18F108N140M4Z	78.75	108	480	2	95	139.81	16.25	17.00	1.56
18F108N160M4Z	90.00	108	480	3	108	159.81	16.25	17.00	1.56

### 20 Inch Heaters

Part Number	kW	No. Ele.	Volts	Circuits	Amps	OAL	CL	ID	FT
20F120N88M4Z	56.00	120	480	2	67	88.19	5.13	19.00	1.69
20F120N95M4Z	56.00	120	480	2	67	93.19	12.13	19.00	1.69
20F132N88M4Z	61.50	132	480	2	74	88.19	5.13	19.00	1.69
20F132N95M4Z	61.50	132	480	2	74	93.19	12.13	19.00	1.69
20F120N106M4Z	63.00	120	480	2	76	105.69	12.13	19.00	1.69
20F126N106M4Z	66.00	126	480	3	79	105.69	12.13	19.00	1.69
20F144N88M4Z	67.00	144	480	2	81	88.19	5.13	19.00	1.69
20F144N95M4Z	67.00	144	480	2	81	93.19	12.13	19.00	1.69
20F132N106M4Z	69.25	132	480	2	83	105.69	12.13	19.00	1.69

## 150# Flanged Immersion Heaters - Type IF

20F162N88M4Z	75.50	162	480	3	91	88.19	5.13	19.00	1.69
20F162N95M4Z	75.50	162	480	3	91	93.19	12.13	19.00	1.69
20F144N106M4Z	75.50	144	480	2	91	105.69	12.13	19.00	1.69
20F120N120M4Z	78.00	120	480	2	94	119.69	12.13	19.00	1.69
20F126N120M4Z	81.75	126	480	3	98	119.69	12.13	19.00	1.69
20F180N88M4Z	84.00	180	480	3	101	88.19	5.13	19.00	1.69
20F180N95M4Z	84.00	180	480	3	101	93.19	12.13	19.00	1.69
20F162N106M4Z	85.00	162	480	3	102	105.69	12.13	19.00	1.69
20F120N140M4Z	87.50	120	480	4	105	139.69	16.13	19.00	1.69
20F126N140M4Z	91.75	126	480	3	110	139.69	16.13	19.00	1.69
20F144N120M4Z	93.50	144	480	3	112	119.69	12.13	19.00	1.69
20F180N106M4Z	94.50	180	480	3	114	105.69	12.13	19.00	1.69
20F120N160M4Z	100.00	120	480	4	120	159.69	16.13	19.00	1.69
20F162N120M4Z	105.00	162	480	3	126	119.69	12.13	19.00	1.69
20F144N140M4Z	105.00	144	480	3	126	139.69	16.13	19.00	1.69
20F126N160M4Z	105.00	126	480	3	126	159.69	16.13	19.00	1.69
20F180N120M4Z	117.00	180	480	3	141	119.69	12.13	19.00	1.69
20F162N140M4Z	118.00	162	480	3	142	139.69	16.13	19.00	1.69
20F144N160M4Z	120.00	144	480	3	144	159.69	16.13	19.00	1.69
20F180N140M4Z	131.00	180	480	5	158	139.69	16.13	19.00	1.69
20F180N160M4Z	150.00	180	480	5	180	159.69	16.13	19.00	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>
24F192N88M4Z	89.50	192	480	4	108	88.00	4.94	23.00	1.88
24F192N95M4Z	89.50	192	480	4	108	93.00	11.94	23.00	1.88
24F216N88M4Z	100.50	216	480	3	121	88.00	4.94	23.00	1.88
24F216N95M4Z	100.50	216	480	3	121	93.00	11.94	23.00	1.88
24F192N106M4Z	100.50	192	480	4	121	105.50	11.94	23.00	1.88
24F234N88M4Z	109.00	234	480	3	131	88.00	4.94	23.00	1.88
24F234N95M4Z	109.00	234	480	3	131	93.00	11.94	23.00	1.88
24F240N88M4Z	112.00	240	480	4	135	88.00	4.94	23.00	1.88
24F240N95M4Z	112.00	240	480	4	135	93.00	11.94	23.00	1.88
24F216N106M4Z	113.00	216	480	3	136	105.50	11.94	23.00	1.88
24F192N120M4Z	124.50	192	480	4	150	119.50	11.94	23.00	1.88
24F240N106M4Z	126.00	240	480	4	152	105.50	11.94	23.00	1.88
24F216N120M4Z	140.00	216	480	4	168	119.50	11.94	23.00	1.88
24F192N140M4Z	140.00	192	480	4	168	139.50	15.94	23.00	1.88
24F240N120M4Z	156.00	240	480	4	188	119.50	11.94	23.00	1.88
24F216N140M4Z	157.50	216	480	4	189	139.50	15.94	23.00	1.88
24F192N160M4Z	160.00	192	480	4	192	159.50	15.94	23.00	1.88
24F240N140M4Z	175.00	240	480	8	210	139.50	15.94	23.00	1.88
24F216N160M4Z	180.00	216	480	6	217	159.50	15.94	23.00	1.88
24F240N160M4Z	200.00	240	480	8	241	159.50	15.94	23.00	1.88