



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Clean Water

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
60W/IN <sup>2</sup> BRASS SCREW PLUG 3-COPPER ELEMENT NEMA 1 ENCLOSURE	3000	8 1/4"	CS2HBC-A08DL-3000ZN	CS2HBC-A08DP-3000ZN
	4500	11"	CS2HBC-A110L-4500ZN	CS2HBC-A110P-4500ZN
	6000	13 3/4"	CS2HBC-A13ML-6000ZN	CS2HBC-A13MP-6000ZN
	7500	16 1/2"	CS2HBC-A16HL-7500ZN	CS2HBC-A16HP-7500ZN
	9000	19 1/4"	CS2HBC-A19DL-9000ZN	CS2HBC-A19DP-9000ZN
	12000	24 3/4"	CS2HBC-A24ML-120CZN	CS2HBC-A24MP-120CZN
	15000	30 1/4"	CS2HBC-A30DL-150CZN	CS2HBC-A30DP-150CZN
	18000	35 3/4"	CS2HBC-A35ML-180CZN	CS2HBC-A35MP-180CZN

Application: Deionized Water, Demineralized Water

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
60W/IN <sup>2</sup> 316 SS SCREW PLUG & VESSEL 3-316 SS ELEMENT (PASSIVATED) NEMA 1 ENCLOSURE	3000	8 1/4"	CS2H6S-A08DL-3000ZN	CS2H6S-A08DP-3000ZN
	4500	11"	CS2H6S-A110L-4500ZN	CS2H6S-A110P-4500ZN
	6000	13 3/4"	CS2H6S-A13ML-6000ZN	CS2H6S-A13MP-6000ZN
	7500	16 1/2"	CS2H6S-A16HL-7500ZN	CS2H6S-A16HP-7500ZN
	9000	19 1/4"	CS2H6S-A19DL-9000ZN	CS2H6S-A19DP-9000ZN
	12000	24 3/4"	CS2H6S-A24ML-120CZN	CS2H6S-A24MP-120CZN
	15000	30 1/4"	CS2H6S-A30DL-150CZN	CS2H6S-A30DP-150CZN
	18000	35 3/4"	CS2H6S-A35ML-180CZN	CS2H6S-A35MP-180CZN

Application: Process Water

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
48W/IN <sup>2</sup> 304 SS SCREW PLUG 3-INCOLOY <sup>®</sup> 840 ELEMENT NEMA 1 ENCLOSURE	3000	10 1/8"	CS2H44-A10BL-3000ZN	CS2H44-A10BP-3000ZN
	4500	13 7/8"	CS2H44-A13PL-4500ZN	CS2H44-A13PP-4500ZN
	6000	17 1/2"	CS2H44-A17HL-6000ZN	CS2H44-A17HP-6000ZN
	7500	21 1/8"	CS2H44-A21BL-7500ZN	CS2H44-A21BP-7500ZN
	9000	24 7/8"	CS2H44-A24PL-9000ZN	CS2H44-A24PP-9000ZN
	12000	32 1/4"	CS2H44-A32DL-120CZN	CS2H44-A32DP-120CZN
	15000	39 1/2"	CS2H44-A39HL-150CZN	CS2H44-A39HP-150CZN
	18000	46 7/8"	CS2H44-A46PL-180CZN	CS2H44-A46PP-180CZN

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
23W/IN <sup>2</sup> 304 SS SCREW PLUG 3-INCOLOY <sup>®</sup> 840 ELEMENT NEMA 1 ENCLOSURE	3000	17 1/2"	CS2H44-A17HL-3000ZN	CS2H44-A17HP-3000ZN
	4500	24 7/8"	CS2H44-A24PL-4500ZN	CS2H44-A24PP-4500ZN
	6000	32 1/4"	CS2H44-A32DL-6000ZN	CS2H44-A32DP-6000ZN
	7500	39 1/2"	CS2H44-A39HL-7500ZN	CS2H44-A39HP-7500ZN
	9000	46 7/8"	CS2H44-A46PL-9000ZN	CS2H44-A46PP-9000ZN
	12000	61 5/8"	CS2H44-A61KL-120CZN	CS2H44-A61KP-120CZN
	15000	76 1/4"	CS2H44-A76DL-150CZN	CS2H44-A76DP-150CZN

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
23W/IN <sup>2</sup> STEEL SCREW PLUG 3-STEEL ELEMENT NEMA 1 ENCLOSURE	3000	17 1/2"	CS2HSB-A17HL-3000ZN	CS2HSB-A17HP-3000ZN
	4500	24 7/8"	CS2HSB-A24PL-4500ZN	CS2HSB-A24PP-4500ZN
	6000	32 1/4"	CS2HSB-A32DL-6000ZN	CS2HSB-A32DP-6000ZN
	7500	39 1/2"	CS2HSB-A39HL-7500ZN	CS2HSB-A39HP-7500ZN
	9000	46 7/8"	CS2HSB-A46PL-9000ZN	CS2HSB-A46PP-9000ZN
	12000	61 5/8"	CS2HSB-A61KL-120CZN	CS2HSB-A61KP-120CZN
	15000	76 1/4"	CS2HSB-A76DL-150CZN	CS2HSB-A76DP-150CZN



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# Circulation Heaters

Process Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Mildly Corrosive Solutions, Medium Weight Oils, Heat Transfer Oils

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
16W/IN <sup>2</sup> 304 SS SCREW PLUG  3-INCOLOY <sup>®</sup> 840 ELEMENT  NEMA 1 ENCLOSURE	1000	10 1/8"	CS2H44-A10BL-1000ZN	CS2H44-A10BP-1000ZN
	1500	13 7/8"	CS2H44-A13PL-1500ZN	CS2H44-A13PP-1500ZN
	2000	17 1/2"	CS2H44-A17HL-2000ZN	CS2H44-A17HP-2000ZN
	2500	21 1/8"	CS2H44-A21BL-2500ZN	CS2H44-A21BP-2500ZN
	3000	24 7/8"	CS2H44-A24PL-3000ZN	CS2H44-A24PP-3000ZN
	4000	32 1/4"	CS2H44-A32DL-4000ZN	CS2H44-A32DP-4000ZN
	5000	39 1/2"	CS2H44-A39HL-5000ZN	CS2H44-A39HP-5000ZN
	6000	46 7/8"	CS2H44-A46PL-6000ZN	CS2H44-A46PP-6000ZN

Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
16W/IN <sup>2</sup> STEEL SCREW PLUG  3-STEEL ELEMENT  NEMA 1 ENCLOSURE	1000	10 1/8"	CS2HSB-A10BL-1000ZN	CS2HSB-A10BP-1000ZN
	1500	13 7/8"	CS2HSB-A13PL-1500ZN	CS2HSB-A13PP-1500ZN
	2000	17 1/2"	CS2HSB-A17HL-2000ZN	CS2HSB-A17HP-2000ZN
	2500	21 1/8"	CS2HSB-A21BL-2500ZN	CS2HSB-A21BP-2500ZN
	3000	24 7/8"	CS2HSB-A24PL-3000ZN	CS2HSB-A24PP-3000ZN
	4000	32 1/4"	CS2HSB-A32DL-4000ZN	CS2HSB-A32DP-4000ZN
	5000	39 1/2"	CS2HSB-A39HL-5000ZN	CS2HSB-A39HP-5000ZN
	6000	46 7/8"	CS2HSB-A46PL-6000ZN	CS2HSB-A46PP-6000ZN

Application: Bunker C and #6 Fuel Oils

2 1/2" NPT	WATTS	IMMERSION LENGTH	PART NO.	
			240V 3 PH	480V 3PH
8W/IN <sup>2</sup> STEEL SCREW PLUG  3-STEEL ELEMENT  NEMA 1 ENCLOSURE	1000	17 1/2"	CS2HSB-A17HL-1000ZN	CS2HSB-A17HP-1000ZN
	1500	24 7/8"	CS2HSB-A24PL-1500ZN	CS2HSB-A24PP-1500ZN
	2000	32 1/4"	CS2HSB-A32DL-2000ZN	CS2HSB-A32DP-2000ZN
	2500	39 1/2"	CS2HSB-A39HL-2500ZN	CS2HSB-A39HP-2500ZN
	3000	47"	CS2HSB-A470L-3000ZN	CS2HSB-A470P-3000ZN
	4000	61 5/8"	CS2HSB-A61KL-4000ZN	CS2HSB-A61KP-4000ZN
	5000	76 1/4"	CS2HSB-A76DL-5000ZN	CS2HSB-A76DP-5000ZN

Application: Clean Water

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
60W/IN <sup>2</sup>  3-COPPER ELEMENT  NEMA 1 ENCLOSURE	6	14 3/4"	CF03SC-A14M5-6000ZN	CF03SC-A14ML-6000ZN	CF03SC-A14M8-6000ZN	CF03SC-A14MP-6000ZN
	9	20 1/4"	CF03SC-A20D5-9000ZN	CF03SC-A20DL-9000ZN	CF03SC-A20D8-9000ZN	CF03SC-A20DP-9000ZN
	12	25 3/4"	CF03SC-A25M5-120CZN	CF03SC-A25ML-120CZN	CF03SC-A25M8-120CZN	CF03SC-A25MP-120CZN
	15	31 1/4"	CF03SC-A31D5-150CZN	CF03SC-A31DL-150CZN	CF03SC-A31D8-150CZN	CF03SC-A31DP-150CZN
	18	36 3/4"	CF03SC-A36M5-180CZN	CF03SC-A36ML-180CZN	CF03SC-A36M8-180CZN	CF03SC-A36MP-180CZN
	25	49 1/2"			CF03SC-A49H8-250CZN	CF03SC-A49HP-250CZN
	30	58 3/4"			CF03SC-A58M8-300CZN	CF03SC-A58MP-300CZN

Application: Deionized Water, Demineralized Water

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
60W/IN <sup>2</sup> 316 SS FLANGE  3-316 SS ELEMENTS (PASSIVATED)  NEMA 1 ENCLOSURE	6	14 3/4"	CF036S-A14M5-6000ZN	CF036S-A14ML-6000ZN	CF036S-A14M8-6000ZN	CF036S-A14MP-6000ZN
	9	20 1/4"	CF036S-A20D5-9000ZN	CF036S-A20DL-9000ZN	CF036S-A20D8-9000ZN	CF036S-A20DP-9000ZN
	12	25 3/4"	CF036S-A25M5-120CZN	CF036S-A25ML-120CZN	CF036S-A25M8-120CZN	CF036S-A25MP-120CZN
	15	31 1/4"	CF036S-A31D5-150CZN	CF036S-A31DL-150CZN	CF036S-A31D8-150CZN	CF036S-A31DP-150CZN
	18	36 3/4"	CF036S-A36M5-180CZN	CF036S-A36ML-180CZN	CF036S-A36M8-180CZN	CF036S-A36MP-180CZN
	25	49 1/2"			CF036S-A49H8-250CZN	CF036S-A49HP-250CZN
	40	77 1/4"			CF036S-A77D8-400CZN	CF036S-A77DP-400CZN



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# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Process Water

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
48W/IN <sup>2</sup>	4.5	14 7/8"	CF03S4-A14P5-4500ZN	CF03S4-A14PL-4500ZN	CF03S4-A14P8-4500ZN	CF03S4-A14PP-4500ZN
	6	18 1/2"	CF03S4-A18H5-6000ZN	CF03S4-A18HL-6000ZN	CF03S4-A18H8-6000ZN	CF03S4-A18HP-6000ZN
	7.5	22 1/8"	CF03S4-A22B5-7500ZN	CF03S4-A22BL-7500ZN	CF03S4-A22B8-7500ZN	CF03S4-A22BP-7500ZN
3-INCOLOY <sup>®</sup> 840 ELEMENT	9	25 7/8"	CF03S4-A25P5-9000ZN	CF03S4-A25PL-9000ZN	CF03S4-A25P8-9000ZN	CF03S4-A25PP-9000ZN
	12	33 1/4"	CF03S4-A33D5-120CZN	CF03S4-A33DL-120CZN	CF03S4-A33D8-120CZN	CF03S4-A33DP-120CZN
	15	40 1/2"	CF03S4-A40H5-150CZN	CF03S4-A40HL-150CZN	CF03S4-A40H8-150CZN	CF03S4-A40HP-150CZN
NEMA 1 ENCLOSURE	18	47 7/8"	CF03S4-A47P5-180CZN	CF03S4-A47PL-180CZN	CF03S4-A47P8-180CZN	CF03S4-A47PP-180CZN
	24	62 5/8"			CF03S4-A62K8-240CZN	CF03S4-A62KP-240CZN
	30	77 1/4"			CF03S4-A77D8-300CZN	CF03S4-A77DP-300CZN

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
23W/IN <sup>2</sup>	3	18 1/2"	CF03S4-A18H5-3000ZN	CF03S4-A18HL-3000ZN	CF03S4-A18H8-3000ZN	CF03S4-A18HP-3000ZN
	4.5	25 7/8"	CF03S4-A25P5-4500ZN	CF03S4-A25PL-4500ZN	CF03S4-A25P8-4500ZN	CF03S4-A25PP-4500ZN
3-INCOLOY <sup>®</sup> 840 ELEMENT	6	33 1/4"	CF03S4-A33D5-6000ZN	CF03S4-A33DL-6000ZN	CF03S4-A33D8-6000ZN	CF03S4-A33DP-6000ZN
	7.5	40 1/2"	CF03S4-A40H5-7500ZN	CF03S4-A40HL-7500ZN	CF03S4-A40H8-7500ZN	CF03S4-A40HP-7500ZN
	9	47 7/8"	CF03S4-A47P5-9000ZN	CF03S4-A47PL-9000ZN	CF03S4-A47P8-9000ZN	CF03S4-A47PP-9000ZN
NEMA 1 ENCLOSURE	12	62 5/8"	CF03S4-A62K5-120CZN	CF03S4-A62KL-120CZN	CF03S4-A62K8-120CZN	CF03S4-A62KP-120CZN
	15	77 1/4"	CF03S4-A77D5-150CZN	CF03S4-A77DL-150CZN	CF03S4-A77D8-150CZN	CF03S4-A77DP-150CZN

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
23W/IN <sup>2</sup>	3	18 1/2"	CF03SB-A18H5-3000ZN	CF03SB-A18HL-3000ZN	CF03SB-A18H8-3000ZN	CF03SB-A18HP-3000ZN
	4.5	25 7/8"	CF03SB-A25P5-4500ZN	CF03SB-A25PL-4500ZN	CF03SB-A25P8-4500ZN	CF03SB-A25PP-4500ZN
3-STEEL ELEMENT	6	33 1/4"	CF03SB-A33D5-6000ZN	CF03SB-A33DL-6000ZN	CF03SB-A33D8-6000ZN	CF03SB-A33DP-6000ZN
	7.5	40 1/2"	CF03SB-A40H5-7500ZN	CF03SB-A40HL-7500ZN	CF03SB-A40H8-7500ZN	CF03SB-A40HP-7500ZN
	9	47 7/8"	CF03SB-A47P5-9000ZN	CF03SB-A47PL-9000ZN	CF03SB-A47P8-9000ZN	CF03SB-A47PP-9000ZN
NEMA 1 ENCLOSURE	12	62 5/8"	CF03SB-A62K5-120CZN	CF03SB-A62KL-120CZN	CF03SB-A62K8-120CZN	CF03SB-A62KP-120CZN
	15	77 1/4"	CF03SB-A77D5-150CZN	CF03SB-A77DL-150CZN	CF03SB-A77D8-150CZN	CF03SB-A77DP-150CZN

Application: Mildly Corrosive Solutions

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
16W/IN <sup>2</sup>	1.5	14 7/8"	CF03S4-A14P5-1500ZN	CF03S4-A14PL-1500ZN	CF03S4-A14P8-1500ZN	CF03S4-A14PP-1500ZN
	2	18 1/2"	CF03S4-A18H5-2000ZN	CF03S4-A18HL-2000ZN	CF03S4-A18H8-2000ZN	CF03S4-A18HP-2000ZN
	2.5	22 1/8"	CF03S4-A22B5-2500ZN	CF03S4-A22BL-2500ZN	CF03S4-A22B8-2500ZN	CF03S4-A22BP-2500ZN
3-INCOLOY <sup>®</sup> 840 ELEMENT	3	25 7/8"	CF03S4-A25P5-3000ZN	CF03S4-A25PL-3000ZN	CF03S4-A25P8-3000ZN	CF03S4-A25PP-3000ZN
	4	33 1/4"	CF03S4-A33D5-4000ZN	CF03S4-A33DL-4000ZN	CF03S4-A33D8-4000ZN	CF03S4-A33DP-4000ZN
	5	40 1/2"	CF03S4-A40H5-5000ZN	CF03S4-A40HL-5000ZN	CF03S4-A40H8-5000ZN	CF03S4-A40HP-5000ZN
NEMA 1 ENCLOSURE	6	47 7/8"	CF03S4-A47P5-6000ZN	CF03S4-A47PL-6000ZN	CF03S4-A47P8-6000ZN	CF03S4-A47PP-6000ZN
	8	62 5/8"	CF03S4-A62K5-8000ZN	CF03S4-A62KL-8000ZN	CF03S4-A62K8-8000ZN	CF03S4-A62KP-8000ZN
	10	77 1/4"	CF03S4-A77D5-100CZN	CF03S4-A77DL-100CZN	CF03S4-A77D8-100CZN	CF03S4-A77DP-100CZN

Process Heaters



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# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Medium Weight Oils, Heat Transfer Oils

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
16W/IN <sup>2</sup> 3-STEEL ELEMENT NEMA 1 ENCLOSURE	1.5	14 7/8"	CF03SB-A14P5-1500ZN	CF03SB-A14PL-1500ZN	CF03SB-A14P8-1500ZN	CF03SB-A14PP-1500ZN
	2	18 1/2"	CF03SB-A18H5-2000ZN	CF03SB-A18HL-2000ZN	CF03SB-A18H8-2000ZN	CF03SB-A18HP-2000ZN
	2.5	22 1/8"	CF03SB-A22B5-2500ZN	CF03SB-A22BL-2500ZN	CF03SB-A22B8-2500ZN	CF03SB-A22BP-2500ZN
	3	25 7/8"	CF03SB-A25P5-3000ZN	CF03SB-A25PL-3000ZN	CF03SB-A25P8-3000ZN	CF03SB-A25PP-3000ZN
	4	33 1/4"	CF03SB-A33D5-4000ZN	CF03SB-A33DL-4000ZN	CF03SB-A33D8-4000ZN	CF03SB-A33DP-4000ZN
	5	40 1/2"	CF03SB-A40H5-5000ZN	CF03SB-A40HL-5000ZN	CF03SB-A40H8-5000ZN	CF03SB-A40HP-5000ZN
	6	47 7/8"	CF03SB-A47P5-6000ZN	CF03SB-A47PL-6000ZN	CF03SB-A47P8-6000ZN	CF03SB-A47PP-6000ZN
	8	62 5/8"	CF03SB-A62K5-8000ZN	CF03SB-A62KL-8000ZN	CF03SB-A62K8-8000ZN	CF03SB-A62KP-8000ZN
	10	77 1/4"	CF03SB-A77D5-100CZN	CF03SB-A77DL-100CZN	CF03SB-A77D8-100CZN	CF03SB-A77DP-100CZN

Application: Bunker C and #6 Fuel Oils

3" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
8W/IN <sup>2</sup> 3-STEEL ELEMENT NEMA 1 ENCLOSURE	2	33 1/4"		CF03SB-A33DL-2000ZN		CF03SB-A33DP-2000ZN
	3	47 7/8"		CF03SB-A47PL-3000ZN		CF03SB-A47PP-3000ZN
	4	62 5/8"		CF03SB-A62KL-4000ZN		CF03SB-A62KP-4000ZN
	5	77 1/4"		CF03SB-A77DL-5000ZN		CF03SB-A77DP-5000ZN

Application: Clean Water

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
60W/IN <sup>2</sup> 6-COPPER ELEMENT NEMA 1 ENCLOSURE	12	14 3/4"	CF04SC-B14M5-120CZN	CF04SC-B14ML-120CZN	CF04SC-B14M8-120CZN	CF04SC-B14MP-120CZN
	18	20 1/4"	CF04SC-B20D5-180CZN	CF04SC-B20DL-180CZN	CF04SC-B20D8-180CZN	CF04SC-B20DP-180CZN
	24	25 3/4"	CF04SC-B25M5-240CZN	CF04SC-B25ML-240CZN	CF04SC-B25M8-240CZN	CF04SC-B25MP-240CZN
	30	31 1/4"	CF04SC-B31D5-300CZN	CF04SC-B31DL-300CZN	CF04SC-B31D8-300CZN	CF04SC-B31DP-300CZN
	36	36 3/4"	CF04SC-B36M5-360CZN	CF04SC-B36ML-360CZN	CF04SC-B36M8-360CZN	CF04SC-B36MP-360CZN
	50	49 1/2"			CF04SC-B49H8-500CZN	CF04SC-B49HP-500CZN
	60	58 3/4"			CF04SC-B58M8-600CZN	CF04SC-B58MP-600CZN

Application: Deionized Water, Demineralized Water

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
60W/IN <sup>2</sup> 316 SS FLANGE 6-316 SS ELEMENTS (PASSIVATED) NEMA 1 ENCLOSURE	12	14 3/4"	CF046S-B14M5-120CZN	CF046S-B14ML-120CZN	CF046S-B14M8-120CZN	CF046S-B14MP-120CZN
	18	20 1/4"	CF046S-B20D5-180CZN	CF046S-B20DL-180CZN	CF046S-B20D8-180CZN	CF046S-B20DP-180CZN
	24	25 3/4"	CF046S-B25M5-240CZN	CF046S-B25ML-240CZN	CF046S-B25M8-240CZN	CF046S-B25MP-240CZN
	30	31 1/4"	CF046S-B31D5-300CZN	CF046S-B31DL-300CZN	CF046S-B31D8-300CZN	CF046S-B31DP-300CZN
	36	36 3/4"	CF046S-B36M5-360CZN	CF046S-B36ML-360CZN	CF046S-B36M8-360CZN	CF046S-B36MP-360CZN
	50	49 1/2"			CF046S-B49H8-500CZN	CF046S-B49HP-500CZN
	60	58 3/4"			CF046S-B58M8-600CZN	CF046S-B58MP-600CZN
	80	77 1/4"			CF046S-B77D8-800CZN	CF046S-B77DP-800CZN

Application: Process Water

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
48W/IN <sup>2</sup> 6-INCOLOY <sup>®</sup> 840 ELEMENT NEMA 1 ENCLOSURE	9	14 7/8"	CF04S4-B14P5-9000ZN	CF04S4-B14PL-9000ZN	CF04S4-B14P8-9000ZN	CF04S4-B14PP-9000ZN
	12	18 1/2"	CF04S4-B18H5-120CZN	CF04S4-B18HL-120CZN	CF04S4-B18H8-120CZN	CF04S4-B18HP-120CZN
	15	22 1/8"	CF04S4-B22B5-150CZN	CF04S4-B22BL-150CZN	CF04S4-B22B8-150CZN	CF04S4-B22BP-150CZN
	18	25 7/8"	CF04S4-B25P5-180CZN	CF04S4-B25PL-180CZN	CF04S4-B25P8-180CZN	CF04S4-B25PP-180CZN
	24	33 1/4"	CF04S4-B33D5-240CZN	CF04S4-B33DL-240CZN	CF04S4-B33D8-240CZN	CF04S4-B33DP-240CZN
	30	40 1/2"			CF04S4-B40H8-300CZN	CF04S4-B40HP-300CZN
	36	47 7/8"			CF04S4-B47P8-360CZN	CF04S4-B47PP-360CZN
	48	62 5/8"			CF04S4-B62K8-480CZN	CF04S4-B62KP-480CZN
	60	77 1/4"			CF04S4-B77D8-600CZN	CF04S4-B77DP-600CZN



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
23W/IN <sup>2</sup>	6	18 1/2"	CF04S4-B18H5-6000ZN	CF04S4-B18HL-6000ZN	CF04S4-B18H8-6000ZN	CF04S4-B18HP-6000ZN
	9	25 7/8"	CF04S4-B25P5-9000ZN	CF04S4-B25PL-9000ZN	CF04S4-B25P8-9000ZN	CF04S4-B25PP-9000ZN
6-INCOLOY® 840 ELEMENT	12	33 1/4"	CF04S4-B33D5-120CZN	CF04S4-B33DL-120CZN	CF04S4-B33D8-120CZN	CF04S4-B33DP-120CZN
	15	40 1/2"	CF04S4-B40H5-150CZN	CF04S4-B40HL-150CZN	CF04S4-B40H8-150CZN	CF04S4-B40HP-150CZN
	18	47 7/8"	CF04S4-B47P5-180CZN	CF04S4-B47PL-180CZN	CF04S4-B47P8-180CZN	CF04S4-B47PP-180CZN
NEMA 1 ENCLOSURE	24	62 5/8"	CF04S4-B62K5-240CZN	CF04S4-B62KL-240CZN	CF04S4-B62K8-240CZN	CF04S4-B62KP-240CZN
	30	77 1/4"			CF04S4-B77D8-300CZN	CF04S4-B77DP-300CZN

Process Heaters

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
23W/IN <sup>2</sup>	6	18 1/2"	CF04SB-B18H5-6000ZN	CF04SB-B18HL-6000ZN	CF04SB-B18H8-6000ZN	CF04SB-B18HP-6000ZN
	9	25 7/8"	CF04SB-B25P5-9000ZN	CF04SB-B25PL-9000ZN	CF04SB-B25P8-9000ZN	CF04SB-B25PP-9000ZN
6-STEEL ELEMENT	12	33 1/4"	CF04SB-B33D5-120CZN	CF04SB-B33DL-120CZN	CF04SB-B33D8-120CZN	CF04SB-B33DP-120CZN
	15	40 1/2"	CF04SB-B40H5-150CZN	CF04SB-B40HL-150CZN	CF04SB-B40H8-150CZN	CF04SB-B40HP-150CZN
	18	47 7/8"	CF04SB-B47P5-180CZN	CF04SB-B47PL-180CZN	CF04SB-B47P8-180CZN	CF04SB-B47PP-180CZN
NEMA 1 ENCLOSURE	24	62 5/8"	CF04SB-B62K5-240CZN	CF04SB-B62KL-240CZN	CF04SB-B62K8-240CZN	CF04SB-B62KP-240CZN
	30	77 1/4"	CF04SB-B77D5-300CZN	CF04SB-B77DL-300CZN	CF04SB-B77D8-300CZN	CF04SB-B77DP-300CZN

Application: Mildly Corrosive Solutions

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
16W/IN <sup>2</sup>	3	14 7/8"	CF04S4-B14P5-3000ZN	CF04S4-B14PL-3000ZN	CF04S4-B14P8-3000ZN	CF04S4-B14PP-3000ZN
	4	18 1/2"	CF04S4-B18H5-4000ZN	CF04S4-B18HL-4000ZN	CF04S4-B18H8-4000ZN	CF04S4-B18HP-4000ZN
	5	22 1/8"	CF04S4-B22B5-5000ZN	CF04S4-B22BL-5000ZN	CF04S4-B22B8-5000ZN	CF04S4-B22BP-5000ZN
6-INCOLOY® 840 ELEMENT	6	25 7/8"	CF04S4-B25P5-6000ZN	CF04S4-B25PL-6000ZN	CF04S4-B25P8-6000ZN	CF04S4-B25PP-6000ZN
	8	33 1/4"	CF04S4-B33D5-8000ZN	CF04S4-B33DL-8000ZN	CF04S4-B33D8-8000ZN	CF04S4-B33DP-8000ZN
	10	40 1/2"	CF04S4-B40H5-100CZN	CF04S4-B40HL-100CZN	CF04S4-B40H8-100CZN	CF04S4-B40HP-100CZN
NEMA 1 ENCLOSURE	12	47 7/8"	CF04S4-B47P5-120CZN	CF04S4-B47PL-120CZN	CF04S4-B47P8-120CZN	CF04S4-B47PP-120CZN
	16	62 5/8"	CF04S4-B62K5-160CZN	CF04S4-B62KL-160CZN	CF04S4-B62K8-160CZN	CF04S4-B62KP-160CZN
	20	77 1/4"	CF04S4-B77D5-200CZN	CF04S4-B77DL-200CZN	CF04S4-B77D8-200CZN	CF04S4-B77DP-200CZN

Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
16W/IN <sup>2</sup>	3	14 7/8"	CF04SB-B14P5-3000ZN	CF04SB-B14PL-3000ZN	CF04SB-B14P8-3000ZN	CF04SB-B14PP-3000ZN
	4	18 1/2"	CF04SB-B18H5-4000ZN	CF04SB-B18HL-4000ZN	CF04SB-B18H8-4000ZN	CF04SB-B18HP-4000ZN
	5	22 1/8"	CF04SB-B22B5-5000ZN	CF04SB-B22BL-5000ZN	CF04SB-B22B8-5000ZN	CF04SB-B22BP-5000ZN
6-STEEL ELEMENT	6	25 7/8"	CF04SB-B25P5-6000ZN	CF04SB-B25PL-6000ZN	CF04SB-B25P8-6000ZN	CF04SB-B25PP-6000ZN
	8	33 1/4"	CF04SB-B33D5-8000ZN	CF04SB-B33DL-8000ZN	CF04SB-B33D8-8000ZN	CF04SB-B33DP-8000ZN
	10	40 1/2"	CF04SB-B40H5-100CZN	CF04SB-B40HL-100CZN	CF04SB-B40H8-100CZN	CF04SB-B40HP-100CZN
NEMA 1 ENCLOSURE	12	47 7/8"	CF04SB-B47P5-120CZN	CF04SB-B47PL-120CZN	CF04SB-B47P8-120CZN	CF04SB-B47PP-120CZN
	16	62 5/8"	CF04SB-B62K5-160CZN	CF04SB-B62KL-160CZN	CF04SB-B62K8-160CZN	CF04SB-B62KP-160CZN
	20	77 1/4"	CF04SB-B77D5-200CZN	CF04SB-B77DL-200CZN	CF04SB-B77D8-200CZN	CF04SB-B77DP-200CZN



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Bunker C and #6 Fuel Oils

4" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
8W/IN <sup>2</sup> 6-STEEL ELEMENT	3	25 7/8"	CF04SB-B25P5-3000ZCN	CF04SB-B25PL-3000ZCN	CF04SB-B25P8-3000ZCN	CF04SB-B25PP-3000ZCN
	4	33 1/4"	CF04SB-B33D5-4000ZCN	CF04SB-B33DL-4000ZCN	CF04SB-B33D8-4000ZCN	CF04SB-B33DP-4000ZCN
	5	40 1/2"	CF04SB-B40H5-5000ZCN	CF04SB-B40HL-5000ZCN	CF04SB-B40H8-5000ZCN	CF04SB-B40HP-5000ZCN
	6	47 7/8"	CF04SB-B47P5-6000ZCN	CF04SB-B47PL-6000ZCN	CF04SB-B47P8-6000ZCN	CF04SB-B47PP-6000ZCN
NEMA 1 ENCLOSURE	8	62 5/8"	CF04SB-B62K5-8000ZCN	CF04SB-B62KL-8000ZCN	CF04SB-B62K8-8000ZCN	CF04SB-B62KP-8000ZCN
	10	77 1/4"	CF04SB-B77D5-100CZN	CF04SB-B77DL-100CZN	CF04SB-B77D8-100CZN	CF04SB-B77DP-100CZN

Application: Clean Water

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
60W/IN <sup>2</sup> 6-COPPER ELEMENT	12	14 3/4"	CF05SC-B14M5-120CZN	CF05SC-B14ML-120CZN	CF05SC-B14M8-120CZN	CF05SC-B14MP-120CZN
	18	20 1/4"	CF05SC-B20D5-180CZN	CF05SC-B20DL-180CZN	CF05SC-B20D8-180CZN	CF05SC-B20DP-180CZN
	24	25 3/4"	CF05SC-B25M5-240CZN	CF05SC-B25ML-240CZN	CF05SC-B25M8-240CZN	CF05SC-B25MP-240CZN
	30	31 1/4"	CF05SC-B31D5-300CZN	CF05SC-B31DL-300CZN	CF05SC-B31D8-300CZN	CF05SC-B31DP-300CZN
NEMA 1 ENCLOSURE	36	36 3/4"	CF05SC-B36M5-360CZN	CF05SC-B36ML-360CZN	CF05SC-B36M8-360CZN	CF05SC-B36MP-360CZN
	50	49 1/2"				CF05SC-B49HP-500CZN
	60	58 3/4"				CF05SC-B58MP-600CZN
	60W/IN <sup>2</sup> 9-COPPER ELEMENT	18	14 3/4"	CF05SC-K14M5-180CZN	CF05SC-K14ML-180CZN	CF05SC-K14M8-180CZN
27		20 1/4"	CF05SC-K20D5-270CZN	CF05SC-K20DL-270CZN	CF05SC-K20D8-270CZN	CF05SC-K20DP-270CZN
36		25 3/4"	CF05SC-K25M5-360CZN	CF05SC-K25ML-360CZN	CF05SC-K25M8-360CZN	CF05SC-K25MP-360CZN
45		31 1/4"				CF05SC-K31DP-450CZN
NEMA 1 ENCLOSURE	54	36 3/4"				CF05SC-K36MP-540CZN
	75	49 1/2"				CF05SC-K49HP-750CZN
	90	58 3/4"				CF05SC-K58MP-900CZN

Application: Process Water

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
48W/IN <sup>2</sup> 6-INCOLOY <sup>®</sup> 840 ELEMENT	9	14 7/8"	CF05S4-B14P5-9000ZCN	CF05S4-B14PL-9000ZCN	CF05S4-B14P8-9000ZCN	CF05S4-B14PP-9000ZCN
	12	18 1/2"	CF05S4-B18H5-120CZN	CF05S4-B18HL-120CZN	CF05S4-B18H8-120CZN	CF05S4-B18HP-120CZN
	15	22 1/8"	CF05S4-B22B5-150CZN	CF05S4-B22BL-150CZN	CF05S4-B22B8-150CZN	CF05S4-B22BP-150CZN
	18	25 7/8"	CF05S4-B25P5-180CZN	CF05S4-B25PL-180CZN	CF05S4-B25P8-180CZN	CF05S4-B25PP-180CZN
NEMA 1 ENCLOSURE	24	33 1/4"	CF05S4-B33D5-240CZN	CF05S4-B33DL-240CZN	CF05S4-B33D8-240CZN	CF05S4-B33DP-240CZN
	30	40 1/2"		CF05S4-B40HL-300CZN	CF05S4-B40H8-300CZN	CF05S4-B40HP-300CZN
	36	47 7/8"		CF05S4-B47PL-360CZN	CF05S4-B47P8-360CZN	CF05S4-B47PP-360CZN
	48	62 5/8"		CF05S4-B62KL-480CZN	CF05S4-B62K8-480CZN	CF05S4-B62KP-480CZN
48W/IN <sup>2</sup> 9-INCOLOY <sup>®</sup> 840 ELEMENT	60	77 1/4"		CF05S4-B77DL-600CZN	CF05S4-B77D8-600CZN	CF05S4-B77DP-600CZN
	13.5	14 7/8"	CF05S4-K14P5-135CZN	CF05S4-K14PL-135CZN	CF05S4-K14P8-135CZN	CF05S4-K14PP-135CZN
	18	18 1/2"	CF05S4-K18H5-180CZN	CF05S4-K18HL-180CZN	CF05S4-K18H8-180CZN	CF05S4-K18HP-180CZN
	22.5	22 1/8"	CF05S4-K22B5-225CZN	CF05S4-K22BL-225CZN	CF05S4-K22B8-225CZN	CF05S4-K22BP-225CZN
	27	25 7/8"	CF05S4-K25P5-270CZN	CF05S4-K25PL-270CZN	CF05S4-K25P8-270CZN	CF05S4-K25PP-270CZN
	36	33 1/4"		CF05S4-K33DL-360CZN	CF05S4-K33D8-360CZN	CF05S4-K33DP-360CZN
	45	40 1/2"		CF05S4-K40HL-450CZN	CF05S4-K40H8-450CZN	CF05S4-K40HP-450CZN
	54	47 7/8"		CF05S4-K47PL-540CZN	CF05S4-K47P8-540CZN	CF05S4-K47PP-540CZN
NEMA 1 ENCLOSURE	72	62 5/8"		CF05S4-K62KL-720CZN	CF05S4-K62K8-720CZN	CF05S4-K62KP-720CZN
	90	77 1/4"		CF05S4-K77DL-900CZN	CF05S4-K77D8-900CZN	CF05S4-K77DP-900CZN

Process Heaters



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
23W/IN <sup>2</sup>	6	18 1/2"	CF05S4-B18H5-6000ZN	CF05S4-B18HL-6000ZN	CF05S4-B18H8-6000ZN	CF05S4-B18HP-6000ZN
	9	25 7/8"	CF05S4-B25P5-9000ZN	CF05S4-B25PL-9000ZN	CF05S4-B25P8-9000ZN	CF05S4-B25PP-9000ZN
6-INCOLOY <sup>®</sup> 840 ELEMENT	12	33 1/4"	CF05S4-B33D5-120CZN	CF05S4-B33DL-120CZN	CF05S4-B33D8-120CZN	CF05S4-B33DP-120CZN
	15	40 1/2"	CF05S4-B40H5-150CZN	CF05S4-B40HL-150CZN	CF05S4-B40H8-150CZN	CF05S4-B40HP-150CZN
NEMA 1 ENCLOSURE	18	47 7/8"	CF05S4-B47P5-180CZN	CF05S4-B47PL-180CZN	CF05S4-B47P8-180CZN	CF05S4-B47PP-180CZN
	24	62 5/8"		CF05S4-B62KL-240CZN	CF05S4-B62K8-240CZN	CF05S4-B62KP-240CZN
	30	77 1/4"		CF05S4-B77DL-300CZN	CF05S4-B77D8-300CZN	CF05S4-B77DP-300CZN
23W/IN <sup>2</sup>	9	18 1/2"	CF05S4-K18H5-9000ZN	CF05S4-K18HL-9000ZN	CF05S4-K18H8-9000ZN	CF05S4-K18HP-9000ZN
	13.5	25 7/8"	CF05S4-K25P5-135CZN	CF05S4-K25PL-135CZN	CF05S4-K25P8-135CZN	CF05S4-K25PP-135CZN
9-INCOLOY <sup>®</sup> 840 ELEMENT	18	33 1/4"	CF05S4-K33D5-180CZN	CF05S4-K33DL-180CZN	CF05S4-K33D8-180CZN	CF05S4-K33DP-180CZN
	22.5	40 1/2"	CF05S4-K40H5-225CZN	CF05S4-K40HL-225CZN	CF05S4-K40H8-225CZN	CF05S4-K40HP-225CZN
NEMA 1 ENCLOSURE	27	47 7/8"	CF05S4-K47P5-270CZN	CF05S4-K47PL-270CZN	CF05S4-K47P8-270CZN	CF05S4-K47PP-270CZN
	36	62 5/8"		CF05S4-K62KL-360CZN	CF05S4-K62K8-360CZN	CF05S4-K62KP-360CZN
	45	77 1/4"		CF05S4-K77DL-450CZN	CF05S4-K77D8-450CZN	CF05S4-K77DP-450CZN

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
23W/IN <sup>2</sup>	6	18 1/2"	CF05SB-B18H5-6000ZN	CF05SB-B18HL-6000ZN	CF05SB-B18H8-6000ZN	CF05SB-B18HP-6000ZN
	9	25 7/8"	CF05SB-B25P5-9000ZN	CF05SB-B25PL-9000ZN	CF05SB-B25P8-9000ZN	CF05SB-B25PP-9000ZN
6-STEEL ELEMENT	12	33 1/4"	CF05SB-B33D5-120CZN	CF05SB-B33DL-120CZN	CF05SB-B33D8-120CZN	CF05SB-B33DP-120CZN
	15	40 1/2"	CF05SB-B40H5-150CZN	CF05SB-B40HL-150CZN	CF05SB-B40H8-150CZN	CF05SB-B40HP-150CZN
NEMA 1 ENCLOSURE	18	47 7/8"	CF05SB-B47P5-180CZN	CF05SB-B47PL-180CZN	CF05SB-B47P8-180CZN	CF05SB-B47PP-180CZN
	24	62 5/8"		CF05SB-B62KL-240CZN	CF05SB-B62K8-240CZN	CF05SB-B62KP-240CZN
	30	77 1/4"		CF05SB-B77DL-300CZN	CF05SB-B77D8-300CZN	CF05SB-B77DP-300CZN
23W/IN <sup>2</sup>	9	18 1/2"	CF05SB-K18H5-9000ZN	CF05SB-K18HL-9000ZN	CF05SB-K18H8-9000ZN	CF05SB-K18HP-9000ZN
	13.5	25 7/8"	CF05SB-K25P5-135CZN	CF05SB-K25PL-135CZN	CF05SB-K25P8-135CZN	CF05SB-K25PP-135CZN
9-STEEL ELEMENT	18	33 1/4"	CF05SB-K33D5-180CZN	CF05SB-K33DL-180CZN	CF05SB-K33D8-180CZN	CF05SB-K33DP-180CZN
	22.5	40 1/2"	CF05SB-K40H5-225CZN	CF05SB-K40HL-225CZN	CF05SB-K40H8-225CZN	CF05SB-K40HP-225CZN
NEMA 1 ENCLOSURE	27	47 7/8"	CF05SB-K47P5-270CZN	CF05SB-K47PL-270CZN	CF05SB-K47P8-270CZN	CF05SB-K47PP-270CZN
	36	62 5/8"		CF05SB-K62KL-360CZN	CF05SB-K62K8-360CZN	CF05SB-K62KP-360CZN
	45	77 1/4"		CF05SB-K77DL-450CZN	CF05SB-K77D8-450CZN	CF05SB-K77DP-450CZN

Application: Mildly Corrosive Solutions

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
16W/IN <sup>2</sup>	3	14 7/8"	CF05S4-B14P5-3000ZN	CF05S4-B14PL-3000ZN	CF05S4-B14P8-3000ZN	CF05S4-B14PP-3000ZN
	4	18 1/2"	CF05S4-B18H5-4000ZN	CF05S4-B18HL-4000ZN	CF05S4-B18H8-4000ZN	CF05S4-B18HP-4000ZN
	5	22 1/8"	CF05S4-B22B5-5000ZN	CF05S4-B22BL-5000ZN	CF05S4-B22B8-5000ZN	CF05S4-B22BP-5000ZN
6-INCOLOY <sup>®</sup> 840 ELEMENT	6	25 7/8"	CF05S4-B25P5-6000ZN	CF05S4-B25PL-6000ZN	CF05S4-B25P8-6000ZN	CF05S4-B25PP-6000ZN
	8	33 1/4"	CF05S4-B33D5-8000ZN	CF05S4-B33DL-8000ZN	CF05S4-B33D8-8000ZN	CF05S4-B33DP-8000ZN
NEMA 1 ENCLOSURE	10	40 1/2"		CF05S4-B40HL-100CZN	CF05S4-B40H8-100CZN	CF05S4-B40HP-100CZN
	12	47 7/8"		CF05S4-B47PL-120CZN	CF05S4-B47P8-120CZN	CF05S4-B47PP-120CZN
	16	62 5/8"		CF05S4-B62KL-160CZN	CF05S4-B62K8-160CZN	CF05S4-B62KP-160CZN
	20	77 1/4"		CF05S4-B77DL-200CZN	CF05S4-B77D8-200CZN	CF05S4-B77DP-200CZN

Process Heaters



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

### Application: Mildly Corrosive Solutions

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
16W/IN <sup>2</sup>	4.5	14 7/8"	CF05S4-K14P5-4500ZN	CF05S4-K14PL-4500ZN	CF05S4-K14P8-4500ZN	CF05S4-K14PP-4500ZN
	6	18 1/2"	CF05S4-K18H5-6000ZN	CF05S4-K18HL-6000ZN	CF05S4-K18H8-6000ZN	CF05S4-K18HP-6000ZN
	7.5	22 1/8"	CF05S4-K22B5-7500ZN	CF05S4-K22BL-7500ZN	CF05S4-K22B8-7500ZN	CF05S4-K22BP-7500ZN
9-INCOLOY <sup>®</sup> 840 ELEMENT	9	25 7/8"	CF05S4-K25P5-9000ZN	CF05S4-K25PL-9000ZN	CF05S4-K25P8-9000ZN	CF05S4-K25PP-9000ZN
	12	33 1/4"		CF05S4-K33DL-120CZN	CF05S4-K33D8-120CZN	CF05S4-K33DP-120CZN
	15	40 1/2"		CF05S4-K40HL-150CZN	CF05S4-K40H8-150CZN	CF05S4-K40HP-150CZN
NEMA 1 ENCLOSURE	18	47 7/8"		CF05S4-K47PL-180CZN	CF05S4-K47P8-180CZN	CF05S4-K47PP-180CZN
	24	62 5/8"		CF05S4-K62KL-240CZN	CF05S4-K62K8-240CZN	CF05S4-K62KP-240CZN
	30	77 1/4"		CF05S4-K77DL-300CZN	CF05S4-K77D8-300CZN	CF05S4-K77DP-300CZN

### Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
16W/IN <sup>2</sup>	3	14 7/8"	CF05SB-B14P5-3000ZN	CF05SB-B14PL-3000ZN	CF05SB-B14P8-3000ZN	CF05SB-B14PP-3000ZN
	4	18 1/2"	CF05SB-B18H5-4000ZN	CF05SB-B18HL-4000ZN	CF05SB-B18H8-4000ZN	CF05SB-B18HP-4000ZN
	5	22 1/8"	CF05SB-B22B5-5000ZN	CF05SB-B22BL-5000ZN	CF05SB-B22B8-5000ZN	CF05SB-B22BP-5000ZN
	6	25 7/8"	CF05SB-B25P5-6000ZN	CF05SB-B25PL-6000ZN	CF05SB-B25P8-6000ZN	CF05SB-B25PP-6000ZN
	8	33 1/4"	CF05SB-B33D5-8000ZN	CF05SB-B33DL-8000ZN	CF05SB-B33D8-8000ZN	CF05SB-B33DP-8000ZN
	10	40 1/2"		CF05SB-B40HL-100CZN	CF05SB-B40H8-100CZN	CF05SB-B40HP-100CZN
6-STEEL ELEMENT	12	47 7/8"		CF05SB-B47PL-120CZN	CF05SB-B47P8-120CZN	CF05SB-B47PP-120CZN
	16	62 5/8"		CF05SB-B62KL-160CZN	CF05SB-B62K8-160CZN	CF05SB-B62KP-160CZN
	20	77 1/4"		CF05SB-B77DL-200CZN	CF05SB-B77D8-200CZN	CF05SB-B77DP-200CZN
16W/IN <sup>2</sup>	4.5	14 7/8"	CF05SB-K14P5-4500ZN	CF05SB-K14PL-4500ZN	CF05SB-K14P8-4500ZN	CF05SB-K14PP-4500ZN
	6	18 1/2"	CF05SB-K18H5-6000ZN	CF05SB-K18HL-6000ZN	CF05SB-K18H8-6000ZN	CF05SB-K18HP-6000ZN
	7.5	22 1/8"	CF05SB-K22B5-7500ZN	CF05SB-K22BL-7500ZN	CF05SB-K22B8-7500ZN	CF05SB-K22BP-7500ZN
	9	25 7/8"	CF05SB-K25P5-9000ZN	CF05SB-K25PL-9000ZN	CF05SB-K25P8-9000ZN	CF05SB-K25PP-9000ZN
	12	33 1/4"		CF05SB-K33DL-120CZN	CF05SB-K33D8-120CZN	CF05SB-K33DP-120CZN
	15	40 1/2"		CF05SB-K40HL-150CZN	CF05SB-K40H8-150CZN	CF05SB-K40HP-150CZN
	18	47 7/8"		CF05SB-K47PL-180CZN	CF05SB-K47P8-180CZN	CF05SB-K47PP-180CZN
	24	62 5/8"		CF05SB-K62KL-240CZN	CF05SB-K62K8-240CZN	CF05SB-K62KP-240CZN
9-STEEL ELEMENT	30	77 1/4"		CF05SB-K77DL-300CZN	CF05SB-K77D8-300CZN	CF05SB-K77DP-300CZN

### Application: Bunker C and #6 Fuel Oils

5" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
8W/IN <sup>2</sup>	3	25 7/8"	CF05SB-B25P5-3000ZN	CF05SB-B25PL-3000ZN	CF05SB-B25P8-3000ZN	CF05SB-B25PP-3000ZN
	4	33 1/4"	CF05SB-B33D5-4000ZN	CF05SB-B33DL-4000ZN	CF05SB-B33D8-4000ZN	CF05SB-B33DP-4000ZN
	5	40 1/2"	CF05SB-B40H5-5000ZN	CF05SB-B40HL-5000ZN	CF05SB-B40H8-5000ZN	CF05SB-B40HP-5000ZN
	6	47 7/8"	CF05SB-B47P5-6000ZN	CF05SB-B47PL-6000ZN	CF05SB-B47P8-6000ZN	CF05SB-B47PP-6000ZN
6-STEEL ELEMENT	8	62 5/8"	CF05SB-B62K5-8000ZN	CF05SB-B62KL-8000ZN	CF05SB-B62K8-8000ZN	CF05SB-B62KP-8000ZN
	10	77 1/4"	CF05SB-B77D5-100CZN	CF05SB-B77DL-100CZN	CF05SB-B77D8-100CZN	CF05SB-B77DP-100CZN
NEMA 1 ENCLOSURE	4.5	25 7/8"	CF05SB-K25P5-4500ZN	CF05SB-K25PL-4500ZN	CF05SB-K25P8-4500ZN	CF05SB-K25PP-4500ZN
	6	33 1/4"	CF05SB-K33D5-6000ZN	CF05SB-K33DL-6000ZN	CF05SB-K33D8-6000ZN	CF05SB-K33DP-6000ZN
	7.5	40 1/2"	CF05SB-K40H5-7500ZN	CF05SB-K40HL-7500ZN	CF05SB-K40H8-7500ZN	CF05SB-K40HP-7500ZN
	9	47 7/8"	CF05SB-K47P5-9000ZN	CF05SB-K47PL-9000ZN	CF05SB-K47P8-9000ZN	CF05SB-K47PP-9000ZN
	12	62 5/8"	CF05SB-K62K5-120CZN	CF05SB-K62KL-120CZN	CF05SB-K62K8-120CZN	CF05SB-K62KP-120CZN
9-STEEL ELEMENT	15	77 1/4"		CF05SB-K77DL-150CZN	CF05SB-K77D8-150CZN	CF05SB-K77DP-150CZN

Process Heaters





closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

### Application: Clean Water

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
60W/IN <sup>2</sup>	24	14 3/4"	CF06SC-C14M5-240CZN	CF06SC-C14ML-240CZN	CF06SC-C14M8-240CZN	CF06SC-C14MP-240CZN
	36	20 1/4"	CF06SC-C20D5-360CZN	CF06SC-C20DL-360CZN	CF06SC-C20D8-360CZN	CF06SC-C20DP-360CZN
12-COPPER ELEMENT	48	25 3/4"		CF06SC-C25ML-480CZN	CF06SC-C25M8-480CZN	CF06SC-C25MP-480CZN
	60	31 1/4"		CF06SC-C31DL-600CZN	CF06SC-C31D8-600CZN	CF06SC-C31DP-600CZN
NEMA 1 ENCLOSURE	72	36 3/4"				CF06SC-C36MP-720CZN
	100	49 1/2"				CF06SC-C49HP-100KZN
	120	58 3/4"				CF06SC-C58MP-120KZN
60W/IN <sup>2</sup>	30	14 3/4"	CF06SC-L14M5-300CZN	CF06SC-L14ML-300CZN	CF06SC-L14M8-300CZN	CF06SC-L14MP-300CZN
	45	20 1/4"	CF06SC-L20D5-450CZN	CF06SC-L20DL-450CZN	CF06SC-L20D8-450CZN	CF06SC-L20DP-450CZN
15-COPPER ELEMENT	60	25 3/4"		CF06SC-L25ML-600CZN	CF06SC-L25M8-600CZN	CF06SC-L25MP-600CZN
	75	31 1/4"		CF06SC-L31DL-750CZN	CF06SC-L31D8-750CZN	CF06SC-L31DP-750CZN
NEMA 1 ENCLOSURE	90	36 3/4"				CF06SC-L36MP-900CZN
	125	49 1/2"				CF06SC-L49HP-125KZN
	150	58 3/4"				CF06SC-L58MP-150KZN

### Application: Deionized Water, Demineralized Water

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1 PH	480V 3 PH
60W/IN <sup>2</sup> 316 SS FLANGE	24	14 3/4"	CF066S-C14M5-240CZN	CF066S-C14ML-240CZN	CF066S-C14M8-240CZN	CF066S-C14MP-240CZN
	36	20 1/4"	CF066S-C20D5-360CZN	CF066S-C20DL-360CZN	CF066S-C20D8-360CZN	CF066S-C20DP-360CZN
12-316 SS ELEMENTS (PASSIVATED)	48	25 3/4"		CF066S-C25ML-480CZN	CF066S-C25M8-480CZN	CF066S-C25MP-480CZN
	60	31 1/4"		CF066S-C31DL-600CZN	CF066S-C31D8-600CZN	CF066S-C31DP-600CZN
NEMA 1 ENCLOSURE	72	36 3/4"				CF066S-C36MP-720CZN
	100	49 1/2"				CF066S-C49HP-100KZN
	120	58 3/4"				CF066S-C58MP-120KZN
60W/IN <sup>2</sup> 316 SS FLANGE	160	77 1/4"				CF066S-C77DP-160KZN
	30	14 3/4"	CF066S-L14M5-300CZN	CF066S-L14ML-300CZN	CF066S-L14M8-300CZN	CF066S-L14MP-300CZN
15-316 SS ELEMENTS (PASSIVATED)	45	20 1/4"	CF066S-L20D5-450CZN	CF066S-L20DL-450CZN	CF066S-L20D8-450CZN	CF066S-L20DP-450CZN
	60	25 3/4"		CF066S-L25ML-600CZN	CF066S-L25M8-600CZN	CF066S-L25MP-600CZN
NEMA 1 ENCLOSURE	75	31 1/4"		CF066S-L31DL-750CZN	CF066S-L31D8-750CZN	CF066S-L31DP-750CZN
	90	36 3/4"				CF066S-L36MP-900CZN
	125	49 1/2"				CF066S-L49H8-125KZN
	150	58 3/4"				CF066S-L58MP-150KZN
	200	77 1/4"				CF066S-L77DP-200KZN

### Application: Process Water

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
48W/IN <sup>2</sup>	18	14 7/8"	CF06S4-C14P5-180CZN	CF06S4-C14PL-180CZN	CF06S4-C14P8-180CZN	CF06S4-C14PP-180CZN
	24	18 1/2"	CF06S4-C18H5-240CZN	CF06S4-C18HL-240CZN	CF06S4-C18H8-240CZN	CF06S4-C18HP-240CZN
12-INCOLOY <sup>®</sup> 840 ELEMENT	30	22 1/8"	CF06S4-C22B5-300CZN	CF06S4-C22BL-300CZN	CF06S4-C22B8-300CZN	CF06S4-C22BP-300CZN
	36	25 7/8"	CF06S4-C25P5-360CZN	CF06S4-C25PL-360CZN	CF06S4-C25P8-360CZN	CF06S4-C25PP-360CZN
NEMA 1 ENCLOSURE	48	33 1/4"		CF06S4-C33DL-480CZN	CF06S4-C33D8-480CZN	CF06S4-C33DP-480CZN
	60	40 1/2"		CF06S4-C40HL-600CZN	CF06S4-C40H8-600CZN	CF06S4-C40HP-600CZN
	72	47 7/8"		CF06S4-C47PL-720CZN	CF06S4-C47P8-720CZN	CF06S4-C47PP-720CZN
	96	62 5/8"		CF06S4-C62KL-960CZN	CF06S4-C62K8-960CZN	CF06S4-C62KP-960CZN
	120	77 1/4"		CF06S4-C77DL-120KZN	CF06S4-C77D8-120KZN	CF06S4-C77DP-120KZN



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

### Application: Process Water

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
48W/IN <sup>2</sup>	22.5	14 7/8"	CF06S4-L14P5-225CZN	CF06S4-L14PL-225CZN	CF06S4-L14P8-225CZN	CF06S4-L14PP-225CZN
	30	18 1/2"	CF06S4-L18H5-300CZN	CF06S4-L18HL-300CZN	CF06S4-L18H8-300CZN	CF06S4-L18HP-300CZN
	37.5	22 1/8"	CF06S4-L22B5-375CZN	CF06S4-L22BL-375CZN	CF06S4-L22B8-375CZN	CF06S4-L22BP-375CZN
15-INCOLOY <sup>®</sup> 840 ELEMENT	45	25 7/8"	CF06S4-L25P5-450CZN	CF06S4-L25PL-450CZN	CF06S4-L25P8-450CZN	CF06S4-L25PP-450CZN
	60	33 1/4"		CF06S4-L33DL-600CZN	CF06S4-L33D8-600CZN	CF06S4-L33DP-600CZN
	75	40 1/2"		CF06S4-L40HL-750CZN	CF06S4-L40H8-750CZN	CF06S4-L40HP-750CZN
NEMA 1 ENCLOSURE	90	47 7/8"		CF06S4-L47PL-900CZN	CF06S4-L47P8-900CZN	CF06S4-L47PP-900CZN
	120	62 5/8"		CF06S4-L62KL-120KZN	CF06S4-L62K8-120KZN	CF06S4-L62KP-120KZN
	150	77 1/4"		CF06S4-L77DL-150KZN	CF06S4-L77D8-150KZN	CF06S4-L77DP-150KZN

### Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
23W/IN <sup>2</sup>	12	18 1/2"	CF06S4-C18H5-120CZN	CF06S4-C18HL-120CZN	CF06S4-C18H8-120CZN	CF06S4-C18HP-120CZN
	18	25 7/8"	CF06S4-C25P5-180CZN	CF06S4-C25PL-180CZN	CF06S4-C25P8-180CZN	CF06S4-C25PP-180CZN
12-INCOLOY <sup>®</sup> 840 ELEMENT	24	33 1/4"	CF06S4-C33D5-240CZN	CF06S4-C33DL-240CZN	CF06S4-C33D8-240CZN	CF06S4-C33DP-240CZN
	30	40 1/2"	CF06S4-C40H5-300CZN	CF06S4-C40HL-300CZN	CF06S4-C40H8-300CZN	CF06S4-C40HP-300CZN
	36	47 7/8"	CF06S4-C47P5-360CZN	CF06S4-C47PL-360CZN	CF06S4-C47P8-360CZN	CF06S4-C47PP-360CZN
NEMA 1 ENCLOSURE	48	62 5/8"		CF06S4-C62KL-480CZN	CF06S4-C62K8-480CZN	CF06S4-C62KP-480CZN
	60	77 1/4"		CF06S4-C77DL-600CZN	CF06S4-C77D8-600CZN	CF06S4-C77DP-600CZN
23W/IN <sup>2</sup>	15	18 1/2"	CF06S4-L18H5-150CZN	CF06S4-L18HL-150CZN	CF06S4-L18H8-150CZN	CF06S4-L18HP-150CZN
	22.5	25 7/8"	CF06S4-L25P5-225CZN	CF06S4-L25PL-225CZN	CF06S4-L25P8-225CZN	CF06S4-L25PP-225CZN
	30	33 1/4"	CF06S4-L33D5-300CZN	CF06S4-L33DL-300CZN	CF06S4-L33D8-300CZN	CF06S4-L33DP-300CZN
15-INCOLOY <sup>®</sup> 840 ELEMENT	37.5	40 1/2"	CF06S4-L40H5-375CZN	CF06S4-L40HL-375CZN	CF06S4-L40H8-375CZN	CF06S4-L40HP-375CZN
	45	47 7/8"	CF06S4-L47P5-450CZN	CF06S4-L47PL-450CZN	CF06S4-L47P8-450CZN	CF06S4-L47PP-450CZN
NEMA 1 ENCLOSURE	60	62 5/8"		CF06S4-L62KL-600CZN	CF06S4-L62K8-600CZN	CF06S4-L62KP-600CZN
	75	77 1/4"		CF06S4-L77DL-750CZN	CF06S4-L77D8-750CZN	CF06S4-L77DP-750CZN

### Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
23W/IN <sup>2</sup>	12	18 1/2"	CF06SB-C18H5-120CZN	CF06SB-C18HL-120CZN	CF06SB-C18H8-120CZN	CF06SB-C18HP-120CZN
	18	25 7/8"	CF06SB-C25P5-180CZN	CF06SB-C25PL-180CZN	CF06SB-C25P8-180CZN	CF06SB-C25PP-180CZN
12-STEEL ELEMENT	24	33 1/4"	CF06SB-C33D5-240CZN	CF06SB-C33DL-240CZN	CF06SB-C33D8-240CZN	CF06SB-C33DP-240CZN
	30	40 1/2"	CF06SB-C40H5-300CZN	CF06SB-C40HL-300CZN	CF06SB-C40H8-300CZN	CF06SB-C40HP-300CZN
	36	47 7/8"	CF06SB-C47P5-360CZN	CF06SB-C47PL-360CZN	CF06SB-C47P8-360CZN	CF06SB-C47PP-360CZN
NEMA 1 ENCLOSURE	48	62 5/8"		CF06SB-C62KL-480CZN	CF06SB-C62K8-480CZN	CF06SB-C62KP-480CZN
	60	77 1/4"		CF06SB-C77DL-600CZN	CF06SB-C77D8-600CZN	CF06SB-C77DP-600CZN
23W/IN <sup>2</sup>	15	18 1/2"	CF06SB-L18H5-150CZN	CF06SB-L18HL-150CZN	CF06SB-L18H8-150CZN	CF06SB-L18HP-150CZN
	22.5	25 7/8"	CF06SB-L25P5-225CZN	CF06SB-L25PL-225CZN	CF06SB-L25P8-225CZN	CF06SB-L25PP-225CZN
15-STEEL ELEMENT	30	33 1/4"	CF06SB-L33D5-300CZN	CF06SB-L33DL-300CZN	CF06SB-L33D8-300CZN	CF06SB-L33DP-300CZN
	37.5	40 1/2"	CF06SB-L40H5-375CZN	CF06SB-L40HL-375CZN	CF06SB-L40H8-375CZN	CF06SB-L40HP-375CZN
NEMA 1 ENCLOSURE	45	47 7/8"	CF06SB-L47P5-450CZN	CF06SB-L47PL-450CZN	CF06SB-L47P8-450CZN	CF06SB-L47PP-450CZN
	60	62 5/8"		CF06SB-L62KL-600CZN	CF06SB-L62K8-600CZN	CF06SB-L62KP-600CZN
	75	77 1/4"		CF06SB-L77DL-750CZN	CF06SB-L77D8-750CZN	CF06SB-L77DP-750CZN



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

### Application: Mildly Corrosive Solutions

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
16W/IN <sup>2</sup>	6	14 7/8"	CF06S4-C14P5-6000ZN	CF06S4-C14PL-6000ZN	CF06S4-C14P8-6000ZN	CF06S4-C14PP-6000ZN
	8	18 1/2"	CF06S4-C18H5-8000ZN	CF06S4-C18HL-8000ZN	CF06S4-C18H8-8000ZN	CF06S4-C18HP-8000ZN
	10	22 1/8"	CF06S4-C22B5-100CZN	CF06S4-C22BL-100CZN	CF06S4-C22B8-100CZN	CF06S4-C22BP-100CZN
12-INCOLOY® 840 ELEMENT	12	25 7/8"	CF06S4-C25P5-120CZN	CF06S4-C25PL-120CZN	CF06S4-C25P8-120CZN	CF06S4-C25PP-120CZN
	16	33 1/4"	CF06S4-C33D5-160CZN	CF06S4-C33DL-160CZN	CF06S4-C33D8-160CZN	CF06S4-C33DP-160CZN
	20	40 1/2"	CF06S4-C40H5-200CZN	CF06S4-C40HL-200CZN	CF06S4-C40H8-200CZN	CF06S4-C40HP-200CZN
NEMA 1 ENCLOSURE	24	47 7/8"	CF06S4-C47P5-240CZN	CF06S4-C47PL-240CZN	CF06S4-C47P8-240CZN	CF06S4-C47PP-240CZN
	32	62 5/8"		CF06S4-C62KL-320CZN	CF06S4-C62K8-320CZN	CF06S4-C62KP-320CZN
	40	77 1/4"		CF06S4-C77DL-400CZN	CF06S4-C77D8-400CZN	CF06S4-C77DP-400CZN
16W/IN <sup>2</sup>	7.5	14 7/8"	CF06S4-L14P5-7500ZN	CF06S4-L14PL-7500ZN	CF06S4-L14P8-7500ZN	CF06S4-L14PP-7500ZN
	10	18 1/2"	CF06S4-L18H5-100CZN	CF06S4-L18HL-100CZN	CF06S4-L18H8-100CZN	CF06S4-L18HP-100CZN
	12.5	22 1/8"	CF06S4-L22B5-125CZN	CF06S4-L22BL-125CZN	CF06S4-L22B8-125CZN	CF06S4-L22BP-125CZN
15-INCOLOY® 840 ELEMENT	15	25 7/8"	CF06S4-L25P5-150CZN	CF06S4-L25PL-150CZN	CF06S4-L25P8-150CZN	CF06S4-L25PP-150CZN
	20	33 1/4"	CF06S4-L33D5-200CZN	CF06S4-L33DL-200CZN	CF06S4-L33D8-200CZN	CF06S4-L33DP-200CZN
	25	40 1/2"		CF06S4-L40HL-250CZN	CF06S4-L40H8-250CZN	CF06S4-L40HP-250CZN
NEMA 1 ENCLOSURE	30	47 7/8"		CF06S4-L47PL-300CZN	CF06S4-L47P8-300CZN	CF06S4-L47PP-300CZN
	40	62 5/8"		CF06S4-L62KL-400CZN	CF06S4-L62K8-400CZN	CF06S4-L62KP-400CZN
	50	77 1/4"		CF06S4-L77DL-500CZN	CF06S4-L77D8-500CZN	CF06S4-L77DP-500CZN

### Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
16W/IN <sup>2</sup>	6	14 7/8"	CF06SB-C14P5-6000ZN	CF06SB-C14PL-6000ZN	CF06SB-C14P8-6000ZN	CF06SB-C14PP-6000ZN
	8	18 1/2"	CF06SB-C18H5-8000ZN	CF06SB-C18HL-8000ZN	CF06SB-C18H8-8000ZN	CF06SB-C18HP-8000ZN
	10	22 1/8"	CF06SB-C22B5-100CZN	CF06SB-C22BL-100CZN	CF06SB-C22B8-100CZN	CF06SB-C22BP-100CZN
12-STEEL ELEMENT	12	25 7/8"	CF06SB-C25P5-120CZN	CF06SB-C25PL-120CZN	CF06SB-C25P8-120CZN	CF06SB-C25PP-120CZN
	16	33 1/4"	CF06SB-C33D5-160CZN	CF06SB-C33DL-160CZN	CF06SB-C33D8-160CZN	CF06SB-C33DP-160CZN
	20	40 1/2"	CF06SB-C40H5-200CZN	CF06SB-C40HL-200CZN	CF06SB-C40H8-200CZN	CF06SB-C40HP-200CZN
NEMA 1 ENCLOSURE	24	47 7/8"	CF06SB-C47P5-240CZN	CF06SB-C47PL-240CZN	CF06SB-C47P8-240CZN	CF06SB-C47PP-240CZN
	32	62 5/8"		CF06SB-C62KL-320CZN	CF06SB-C62K8-320CZN	CF06SB-C62KP-320CZN
	40	77 1/4"		CF06SB-C77DL-400CZN	CF06SB-C77D8-400CZN	CF06SB-C77DP-400CZN
16W/IN <sup>2</sup>	7.5	14 7/8"	CF06SB-L14P5-7500ZN	CF06SB-L14PL-7500ZN	CF06SB-L14P8-7500ZN	CF06SB-L14PP-7500ZN
	10	18 1/2"	CF06SB-L18H5-100CZN	CF06SB-L18HL-100CZN	CF06SB-L18H8-100CZN	CF06SB-L18HP-100CZN
	12.5	22 1/8"	CF06SB-L22B5-125CZN	CF06SB-L22BL-125CZN	CF06SB-L22B8-125CZN	CF06SB-L22BP-125CZN
15-STEEL ELEMENT	15	25 7/8"	CF06SB-L25P5-150CZN	CF06SB-L25PL-150CZN	CF06SB-L25P8-150CZN	CF06SB-L25PP-150CZN
	20	33 1/4"	CF06SB-L33D5-200CZN	CF06SB-L33DL-200CZN	CF06SB-L33D8-200CZN	CF06SB-L33DP-200CZN
	25	40 1/2"		CF06SB-L40HL-250CZN	CF06SB-L40H8-250CZN	CF06SB-L40HP-250CZN
NEMA 1 ENCLOSURE	30	47 7/8"		CF06SB-L47PL-300CZN	CF06SB-L47P8-300CZN	CF06SB-L47PP-300CZN
	40	62 5/8"		CF06SB-L62KL-400CZN	CF06SB-L62K8-400CZN	CF06SB-L62KP-400CZN
	50	77 1/4"		CF06SB-L77DL-500CZN	CF06SB-L77D8-500CZN	CF06SB-L77DP-500CZN

### Application: Bunker C and #6 Fuel Oils

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
8W/IN <sup>2</sup>	6	25 7/8"	CF06SB-C25P5-6000ZN	CF06SB-C25PL-6000ZN	CF06SB-C25P8-6000ZN	CF06SB-C25PP-6000ZN
	8	33 1/4"	CF06SB-C33D5-8000ZN	CF06SB-C33DL-8000ZN	CF06SB-C33D8-8000ZN	CF06SB-C33DP-8000ZN
12-STEEL ELEMENT	10	40 1/2"	CF06SB-C40H5-100CZN	CF06SB-C40HL-100CZN	CF06SB-C40H8-100CZN	CF06SB-C40HP-100CZN
	12	47 7/8"	CF06SB-C47P5-120CZN	CF06SB-C47PL-120CZN	CF06SB-C47P8-120CZN	CF06SB-C47PP-120CZN
NEMA 1 ENCLOSURE	16	62 5/8"		CF06SB-C62KL-160CZN	CF06SB-C62K8-160CZN	CF06SB-C62KP-160CZN
	20	77 1/4"		CF06SB-C77DL-200CZN	CF06SB-C77D8-200CZN	CF06SB-C77DP-200CZN



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Bunker C and #6 Fuel Oils

6" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.			
			240V 1 PH	240V 3 PH	480V 1PH	480V 3PH
8W/IN <sup>2</sup>	7.5	25 7/8"	CF06SB-L25P5-7500ZCN	CF06SB-L25PL-7500ZCN	CF06SB-L25P8-7500ZCN	CF06SB-L25PP-7500ZCN
	10	33 1/4"	CF06SB-L33D5-100CZCN	CF06SB-L33DL-100CZCN	CF06SB-L33D8-100CZCN	CF06SB-L33DP-100CZCN
15-STEEL ELEMENT	12.5	40 1/2"	CF06SB-L40H5-125CZCN	CF06SB-L40HL-125CZCN	CF06SB-L40H8-125CZCN	CF06SB-L40HP-125CZCN
	15	47 7/8"		CF06SB-L47PL-150CZCN	CF06SB-L47P8-150CZCN	CF06SB-L47PP-150CZCN
NEMA 1 ENCLOSURE	20	62 5/8"		CF06SB-L62KL-200CZCN	CF06SB-L62K8-200CZCN	CF06SB-L62KP-200CZCN
	25	77 1/4"		CF06SB-L77DL-250CZCN	CF06SB-L77D8-250CZCN	CF06SB-L77DP-250CZCN

Application: Clean Water

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.		
			240V 3 PH	480V 1 PH	480V 3 PH
60W/IN <sup>2</sup>	50	21 1/8"	CF08SC-D21BL-500CZCN	CF08SC-D21B8-500CZCN	CF08SC-D21BP-500CZCN
	75	28 3/4"	CF08SC-D28ML-750CZCN	CF08SC-D28M8-750CZCN	CF08SC-D28MP-750CZCN
18-COPPER ELEMENT	100	36 3/8"	CF08SC-D36FL-100KZCN	CF08SC-D36F8-100KZCN	CF08SC-D36FP-100KZCN
	125	44 1/8"			CF08SC-D44BP-125KZCN
NEMA 1 ENCLOSURE	150	51 3/4"			CF08SC-D51MP-150KZCN
	175	59 1/2"			CF08SC-D59HP-175KZCN
	200	67"			CF08SC-D670P-200KZCN

Application: Process Water

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.		
			240V 3 PH	480V 1 PH	480V 3 PH
48W/IN <sup>2</sup>	50	25 3/8"	CF08S4-D25FL-500CZCN	CF08S4-D25F8-500CZCN	CF08S4-D25FP-500CZCN
	75	35"	CF08S4-D350L-750CZCN	CF08S4-D3508-750CZCN	CF08S4-D350P-750CZCN
18-INCOLOY <sup>®</sup> 840 ELEMENT	100	44 3/4"	CF08S4-D44ML-100KZCN	CF08S4-D44M8-100KZCN	CF08S4-D44MP-100KZCN
	125	54 3/8"			CF08S4-D54FP-125KZCN
NEMA 1 ENCLOSURE	150	64 1/8"			CF08S4-D64BP-150KZCN
	175	73 7/8"			CF08S4-D73PP-175KZCN
	200	83 1/2"			CF08S4-D83HP-200KZCN
48W/IN <sup>2</sup>	67	25 3/8"	CF08S4-M25FL-670CZCN	CF08S4-M25F8-670CZCN	CF08S4-M25FP-670CZCN
	100	35"	CF08S4-M350L-100KZCN	CF08S4-M3508-100KZCN	CF08S4-M350P-100KZCN
24-INCOLOY <sup>®</sup> 840 ELEMENT	133	44 3/4"			CF08S4-M44MP-133KZCN
	167	54 3/8"			CF08S4-M54FP-167KZCN
NEMA 1 ENCLOSURE	200	64 1/8"			CF08S4-M64BP-200KZCN
	233	73 7/8"			CF08S4-M73PP-233KZCN
	267	83 1/2"			CF08S4-M83HP-267KZCN

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.		
			240V 3 PH	480V 1 PH	480V 3 PH
23W/IN <sup>2</sup>	30	33 1/2"	CF08S4-D33HL-300CZCN	CF08S4-D33H8-300CZCN	CF08S4-D33HP-300CZCN
	40	42 3/4"	CF08S4-D42ML-400CZCN	CF08S4-D42M8-400CZCN	CF08S4-D42MP-400CZCN
18-INCOLOY <sup>®</sup> 840 ELEMENT	50	52"	CF08S4-D520L-500CZCN	CF08S4-D5208-500CZCN	CF08S4-D520P-500CZCN
	60	61 1/4"	CF08S4-D61DL-600CZCN	CF08S4-D61D8-600CZCN	CF08S4-D61DP-600CZCN
NEMA 1 ENCLOSURE	70	70 1/2"	CF08S4-D70HL-700CZCN	CF08S4-D70H8-700CZCN	CF08S4-D70HP-700CZCN
	80	79 5/8"	CF08S4-D79KL-800CZCN	CF08S4-D79K8-800CZCN	CF08S4-D79KP-800CZCN
	90	88 7/8"	CF08S4-D88PL-900CZCN	CF08S4-D88P8-900CZCN	CF08S4-D88PP-900CZCN

Process Heaters



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.		
			240V 3 PH	480V 1 PH	480V 3 PH
23W/IN <sup>2</sup>	40	33 1/2"	CF08S4-M33HL-400CZN	CF08S4-M33H8-400CZN	CF08S4-M33HP-400CZN
	53	42 3/4"	CF08S4-M42ML-530CZN	CF08S4-M42M8-530CZN	CF08S4-M42MP-530CZN
24-INCOLOY <sup>®</sup> 840 ELEMENT	67	52"	CF08S4-M520L-670CZN	CF08S4-M5208-670CZN	CF08S4-M520P-670CZN
	80	61 1/4"	CF08S4-M61DL-800CZN	CF08S4-M61D8-800CZN	CF08S4-M61DP-800CZN
NEMA 1 ENCLOSURE	93	70 1/2"	CF08S4-M70HL-930CZN	CF08S4-M70H8-930CZN	CF08S4-M70HP-930CZN
	107	79 5/8"			CF08S4-M79KP-107KZN
	120	88 7/8"			CF08S4-M88PP-120KZN

Process Heaters

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	PART NO.		
			240V 3 PH	480V 1 PH	480V 3 PH
23W/IN <sup>2</sup>	30	33 1/2"	CF08SB-D33HL-300CZN	CF08SB-D33H8-300CZN	CF08SB-D33HP-300CZN
	40	42 3/4"	CF08SB-D42ML-400CZN	CF08SB-D42M8-400CZN	CF08SB-D42MP-400CZN
18-STEEL ELEMENT	50	52"	CF08SB-D520L-500CZN	CF08SB-D5208-500CZN	CF08SB-D520P-500CZN
	60	61 1/4"	CF08SB-D61DL-600CZN	CF08SB-D61D8-600CZN	CF08SB-D61DP-600CZN
NEMA 1 ENCLOSURE	70	70 1/2"	CF08SB-D70HL-700CZN	CF08SB-D70H8-700CZN	CF08SB-D70HP-700CZN
	80	79 5/8"	CF08SB-D79KL-800CZN	CF08SB-D79K8-800CZN	CF08SB-D79KP-800CZN
	90	88 7/8"	CF08SB-D88PL-900CZN	CF08SB-D88P8-900CZN	CF08SB-D88PP-900CZN
23W/IN <sup>2</sup>	40	33 1/2"	CF08SB-M33HL-400CZN	CF08SB-M33H8-400CZN	CF08SB-M33HP-400CZN
	53	42 3/4"	CF08SB-M42ML-530CZN	CF08SB-M42M8-530CZN	CF08SB-M42MP-530CZN
24-STEEL ELEMENT	67	52"	CF08SB-M520L-670CZN	CF08SB-M5208-670CZN	CF08SB-M520P-670CZN
	80	61 1/4"	CF08SB-M61DL-800CZN	CF08SB-M61D8-800CZN	CF08SB-M61DP-800CZN
NEMA 1 ENCLOSURE	93	70 1/2"	CF08SB-M70HL-930CZN	CF08SB-M70H8-930CZN	CF08SB-M70HP-930CZN
	107	79 5/8"			CF08SB-M79KP-107KZN
	120	88 7/8"			CF08SB-M88PP-120KZN

Application: Mildly Corrosive Solutions

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
16W/IN <sup>2</sup>	17	25 3/8"	CF08S4-D25FL-170CZN	CF08S4-D25FP-170CZN
	25	35"	CF08S4-D350L-250CZN	CF08S4-D350P-250CZN
18-INCOLOY <sup>®</sup> 840 ELEMENT	33	44 3/4"	CF08S4-D44ML-330CZN	CF08S4-D44MP-330CZN
	42	54 3/8"	CF08S4-D54FL-420CZN	CF08S4-D54FP-420CZN
NEMA 1 ENCLOSURE	50	64 1/8"		CF08S4-D64BP-500CZN
	58	73 7/8"		CF08S4-D73PP-580CZN
	67	83 1/2"		CF08S4-D83HP-670CZN
16W/IN <sup>2</sup>	22	25 3/8"	CF08S4-M25FL-220CZN	CF08S4-M25FP-220CZN
	33	35"	CF08S4-M350L-330CZN	CF08S4-M350P-330CZN
24-INCOLOY <sup>®</sup> 840 ELEMENT	44	44 3/4"	CF08S4-M44ML-440CZN	CF08S4-M44MP-440CZN
	56	54 3/8"	CF08S4-M54FL-560CZN	CF08S4-M54FP-560CZN
NEMA 1 ENCLOSURE	67	64 1/8"		CF08S4-M64BP-670CZN
	78	73 7/8"		CF08S4-M73PP-780CZN
	89	83 1/2"		CF08S4-M83HP-890CZN



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
16W/IN <sup>2</sup> 18-STEEL ELEMENT NEMA 1 ENCLOSURE	17	25 3/8"	CF08SB-D25FL-170CZN	CF08SB-D25FP-170CZN
	25	35"	CF08SB-D350L-250CZN	CF08SB-D350P-250CZN
	33	44 3/4"	CF08SB-D44ML-330CZN	CF08SB-D44MP-330CZN
	42	54 3/8"	CF08SB-D54FL-420CZN	CF08SB-D54FP-420CZN
	50	64 1/8"		CF08SB-D64BP-500CZN
	58	73 7/8"		CF08SB-D73PP-580CZN
	67	83 1/2"		CF08SB-D83HP-670CZN
16W/IN <sup>2</sup> 24-STEEL ELEMENT NEMA 1 ENCLOSURE	22	25 3/8"	CF08SB-M25FL-220CZN	CF08SB-M25FP-220CZN
	33	35"	CF08SB-M350L-330CZN	CF08SB-M350P-330CZN
	44	44 3/4"	CF08SB-M44ML-440CZN	CF08SB-M44MP-440CZN
	56	54 3/8"	CF08SB-M54FL-560CZN	CF08SB-M54FP-560CZN
	67	64 1/8"		CF08SB-M64BP-670CZN
	78	73 7/8"		CF08SB-M73PP-780CZN
	89	83 1/2"		CF08SB-M83HP-890CZN

Application: Bunker C and #6 Fuel Oils

8" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
8W/IN <sup>2</sup> 18-STEEL ELEMENT NEMA 1 ENCLOSURE	10	33 1/2"	CF08SB-D33HL-100CZN	CF08SB-D33HP-100CZN
	13.5	42 3/4"	CF08SB-D42ML-135CZN	CF08SB-D42MP-135CZN
	17	52"	CF08SB-D520L-170CZN	CF08SB-D520P-170CZN
	20	61 1/4"	CF08SB-D61DL-200CZN	CF08SB-D61DP-200CZN
	23.5	70 1/2"	CF08SB-D70HL-235CZN	CF08SB-D70HP-235CZN
	27	79 5/8"	CF08SB-D79KL-270CZN	CF08SB-D79KP-270CZN
	30	88 7/8"	CF08SB-D88PL-300CZN	CF08SB-D88PP-300CZN
8W/IN <sup>2</sup> 24-STEEL ELEMENT NEMA 1 ENCLOSURE	13.5	33 1/2"	CF08SB-M33HL-135CZN	CF08SB-M33HP-135CZN
	18	42 3/4"	CF08SB-M42ML-180CZN	CF08SB-M42MP-180CZN
	22.5	52"	CF08SB-M520L-225CZN	CF08SB-M520P-225CZN
	27	61 1/4"	CF08SB-M61DL-270CZN	CF08SB-M61DP-270CZN
	31	70 1/2"	CF08SB-M70HL-310CZN	CF08SB-M70HP-310CZN
	35.5	79 5/8"	CF08SB-M79KL-355CZN	CF08SB-M79KP-355CZN
	40	88 7/8"	CF08SB-M88PL-400CZN	CF08SB-M88PP-400CZN

Application: Process Water

10" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE
			480V 3 PH
48W/IN <sup>2</sup> 27-INCOLOY® 840 ELEMENT NEMA 1 ENCLOSURE	150	44 3/4"	CF10S4-E44MP-150KZN
	188	54 3/8"	CF10S4-E54FP-188KZN
	225	64 1/8"	CF10S4-E64BP-225KZN
	263	73 7/8"	CF10S4-E73PP-263KZN
	300	83 1/2"	CF10S4-E83HP-300KZN
48W/IN <sup>2</sup> 36-INCOLOY® 840 ELEMENT NEMA 1 ENCLOSURE	200	44 3/4"	CF10S4-F44MP-200KZN
	250	54 3/8"	CF10S4-F54FP-250KZN
	300	64 1/8"	CF10S4-F64BP-300KZN
	350	73 7/8"	CF10S4-F73PP-350KZN
	400	83 1/2"	CF10S4-F83HP-400KZN

Process Heaters



closing the loop on thermal solutions

# Circulation Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

10" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
23W/IN <sup>2</sup>	45	33 1/2'	CF10S4-E33HL-450CZN	CF10S4-E33HP-450CZN
	60	42 3/4"	CF10S4-E42ML-600CZN	CF10S4-E42MP-600CZN
	75	52"	CF10S4-E520L-750CZN	CF10S4-E520P-750CZN
27-INCOLOY <sup>®</sup> 840 ELEMENT	90	61 1/4"		CF10S4-E61DP-900CZN
	105	70 1/2"		CF10S4-E70HP-105KZLN
NEMA 1 ENCLOSURE	120	79 5/8"		CF10S4-E79KP-120KZLN
	135	88 7/8"		CF10S4-E88PP-135KZLN
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23W/IN <sup>2</sup>	60	33 1/2'	CF10S4-F33HL-600CZN	CF10S4-F33HP-600CZN
	80	42 3/4"		CF10S4-F42MP-800CZN
	100	52"		CF10S4-F520P-100KZLN
36-INCOLOY <sup>®</sup> 840 ELEMENT	120	61 1/4"		CF10S4-F61DP-120KZLN
	140	70 1/2"		CF10S4-F70HP-140KZLN
NEMA 1 ENCLOSURE	160	79 5/8"		CF10S4-F79KP-160KZLN
	180	88 7/8"		CF10S4-F88PP-180KZLN

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

10" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
23W/IN <sup>2</sup>	45	33 1/2'	CF10SB-E33HL-450CZN	CF10SB-E33HP-450CZN
	60	42 3/4"	CF10SB-E42ML-600CZN	CF10SB-E42MP-600CZN
	75	52"	CF10SB-E520L-750CZN	CF10SB-E520P-750CZN
27-STEEL ELEMENT	90	61 1/4"		CF10SB-E61DP-900CZN
	105	70 1/2"		CF10SB-E70HP-105KZLN
NEMA 1 ENCLOSURE	120	79 5/8"		CF10SB-E79KP-120KZLN
	135	88 7/8"		CF10SB-E88PP-135KZLN
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23W/IN <sup>2</sup>	60	33 1/2'	CF10SB-F33HL-600CZN	CF10SB-F33HP-600CZN
	80	42 3/4"		CF10SB-F42MP-800CZN
	100	52"		CF10SB-F520P-100KZLN
36-STEEL ELEMENT	120	61 1/4"		CF10SB-F61DP-120KZLN
	140	70 1/2"		CF10SB-F70HP-140KZLN
NEMA 1 ENCLOSURE	160	79 5/8"		CF10SB-F79KP-160KZLN
	180	88 7/8"		CF10SB-F88PP-180KZLN

Application: Mildly Corrosive Solutions

10" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
16W/IN <sup>2</sup>	50	44 3/4"	CF10S4-E44ML-500CZN	CF10S4-E44MP-500CZN
	63	54 3/8"		CF10S4-E54FP-630CZN
27-INCOLOY <sup>®</sup> 840 ELEMENT	75	64 1/8"		CF10S4-E64BP-750CZN
	88	73 7/8"		CF10S4-E73PP-880CZN
NEMA 1 ENCLOSURE	100	83 1/2"		CF10S4-E83HP-100KZLN
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16W/IN <sup>2</sup>	67	44 3/4"		CF10S4-F44MP-670CZN
	84	54 3/8"		CF10S4-F54FP-840CZN
36-INCOLOY <sup>®</sup> 840 ELEMENT	100	64 1/8"		CF10S4-F64BP-100KZLN
	117	73 7/8"		CF10S4-F73PP-117KZLN
NEMA 1 ENCLOSURE	134	83 1/2"		CF10S4-F83HP-134KZLN

Process Heaters



closing the loop on thermal solutions

# Circulation Heaters

Process Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

10" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
16W/IN <sup>2</sup>	50	44 3/4"	CF10SB-E44ML-500CZN	CF10SB-E44MP-500CZN
	63	54 3/8"		CF10SB-E54FP-630CZN
27-STEEL ELEMENT	75	64 1/8"		CF10SB-E64BP-750CZN
	88	73 7/8"		CF10SB-E73PP-880CZN
NEMA 1 ENCLOSURE	100	83 1/2"		CF10SB-E83HP-100KZN
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16W/IN <sup>2</sup>	67	44 3/4"		CF10SB-F44MP-670CZN
	84	54 3/8"		CF10SB-F54FP-840CZN
36-STEEL ELEMENT	100	64 1/8"		CF10SB-F64BP-100KZN
	117	73 7/8"		CF10SB-F73PP-117KZN
NEMA 1 ENCLOSURE	134	83 1/2"		CF10SB-F83HP-134KZN

Application: Bunker C and #6 Fuel Oils

10" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
8W/IN <sup>2</sup>	15	33 1/2"	CF10SB-E33HL-150CZN	CF10SB-E33HP-150CZN
	20	42 3/4"	CF10SB-E42ML-200CZN	CF10SB-E42MP-200CZN
27-STEEL ELEMENT	25	52"	CF10SB-E520L-250CZN	CF10SB-E520P-250CZN
	30	61 1/4"	CF10SB-E61DL-300CZN	CF10SB-E61DP-300CZN
NEMA 1 ENCLOSURE	35	70 1/2"	CF10SB-E70HL-350CZN	CF10SB-E70HP-350CZN
	40	79 5/8"	CF10SB-E79KL-400CZN	CF10SB-E79KP-400CZN
	45	88 7/8"	CF10SB-E88PL-450CZN	CF10SB-E88PP-450CZN
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8W/IN <sup>2</sup>	20	33 1/2"	CF10SB-F33HL-200CZN	CF10SB-F33HP-200CZN
	27	42 3/4"	CF10SB-F42ML-270CZN	CF10SB-F42MP-270CZN
36-STEEL ELEMENT	34	52"	CF10SB-F520L-340CZN	CF10SB-F520P-340CZN
	40	61 1/4"	CF10SB-F61DL-400CZN	CF10SB-F61DP-400CZN
NEMA 1 ENCLOSURE	47	70 1/2"	CF10SB-F70HL-470CZN	CF10SB-F70HP-470CZN
	54	79 5/8"	CF10SB-F79KL-540CZN	CF10SB-F79KP-540CZN
	60	88 7/8"	CF10SB-F88PL-600CZN	CF10SB-F88PP-600CZN

Application: Process Water

12" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE
			480V 3 PH
48W/IN <sup>2</sup>	200	44 5/8"	CF12S4-F44KP-200KZN
	250	54 1/4"	CF12S4-F54DP-250KZN
36-INCOLOY <sup>®</sup> 840 ELEMENT	300	64"	CF12S4-F640P-300KZN
	350	73 3/4"	CF12S4-F73MP-350KZN
NEMA 1 ENCLOSURE	400	83 3/8"	CF12S4-F83FP-400KZN

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

12" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE
			480V 3 PH
23W/IN <sup>2</sup>	60	33 3/8"	CF12S4-F33FP-600CZN
	80	42 5/8"	CF12S4-F42KP-800CZN
36-INCOLOY <sup>®</sup> 840 ELEMENT	100	51 7/8"	CF12S4-F51PP-100KZN
	120	61 1/8"	CF12S4-F61BP-120KZN
NEMA 1 ENCLOSURE	140	70 3/8"	CF12S4-F70FP-140KZN
	160	79 1/2"	CF12S4-F79HP-160KZN
	180	88 3/4"	CF12S4-F88MP-180KZN





closing the loop on thermal solutions

# Circulation Heaters

Process Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

12" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
23W/IN <sup>2</sup> 36-STEEL ELEMENT NEMA 1 ENCLOSURE	60	33 3/8"	CF12SB-F33FP-600CZN	
	80	42 5/8"	CF12SB-F42KP-800CZN	
	100	51 7/8"	CF12SB-F51PP-100KZN	
	120	61 1/8"	CF12SB-F61BP-120KZN	
	140	70 3/8"	CF12SB-F70FP-140KZN	
	160	79 1/2"	CF12SB-F79HP-160KZN	
	180	88 3/4"	CF12SB-F88MP-180KZN	

Application: Mildly Corrosive Solutions

12" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
16W/IN <sup>2</sup> 36-INCOLOY® 840 ELEMENT NEMA 1 ENCLOSURE	67	44 5/8"	CF12S4-F44KP-670CZN	
	84	54 1/4"	CF12S4-F54DP-840CZN	
	100	64"	CF12S4-F640P-100KZN	
	117	73 3/4"	CF12S4-F73MP-117KZN	
	134	83 3/8"	CF12S4-F83FP-134KZN	

Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

12" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
16W/IN <sup>2</sup> 36-STEEL ELEMENT NEMA 1 ENCLOSURE	67	44 5/8"	CF12SB-F44KP-670CZN	
	84	54 1/4"	CF12SB-F54DP-840CZN	
	100	64"	CF12SB-F640P-100KZN	
	117	73 3/4"	CF12SB-F73MP-117KZN	
	134	83 3/8"	CF12SB-F83FP-134KZN	

Application: Bunker C and #6 Fuel Oils

12" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
8W/IN <sup>2</sup> 36-STEEL ELEMENT NEMA 1 ENCLOSURE	27	42 5/8"	CF12SB-F42KL-270CZN	CF12SB-F42KP-270CZN
	34	51 7/8"	CF12SB-F51PL-340CZN	CF12SB-F51PP-340CZN
	40	61 1/8"	CF12SB-F61BL-400CZN	CF12SB-F61BP-400CZN
	47	70 3/8"	CF12SB-F70FL-470CZN	CF12SB-F70FP-470CZN
	54	79 1/2"	CF12SB-F79HL-540CZN	CF12SB-F79HP-540CZN
	60	88 3/4"	CF12SB-F88ML-600CZN	CF12SB-F88MP-600CZN

Application: Process Water

14" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
48W/IN <sup>2</sup>	250	44 1/2"	CF14S4-G44HP-250KZN	
	315	54 1/8"	CF14S4-G54BP-315KZN	
45-INCOLOY® 840 ELEMENT	375	63 7/8"	CF14S4-G63PP-375KZN	
	440	73 3/8"	CF14S4-G73KP-440KZN	
NEMA 1 ENCLOSURE	500	83 1/4"	CF14S4-G83DP-500KZN	



closing the loop on thermal solutions

# Circulation Heaters

Process Heaters

## STANDARD CIRCULATION HEATERS

Note: All vessels (tanks) and flanges are STEEL unless otherwise noted.

Application: Forced Air and Gases, Caustic Solutions, Degreasing Solutions

14" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
23W/IN <sup>2</sup>	75	33 1/4"	CF14S4-G33DP-750CZN	
	100	42 1/2"	CF14S4-G42HP-100KZN	
	125	51 3/4"	CF14S4-G51MP-125KZN	
45-INCOLOY® 840 ELEMENT	150	61"	CF14S4-G610P-150KZN	
	175	70 1/4"	CF14S4-G70DP-175KZN	
NEMA 1 ENCLOSURE	200	79 3/8"	CF14S4-G79FP-200KZN	
	225	88 5/8"	CF14S4-G88KP-225KZN	

Application: Lightweight Oils, Degreasing Solutions, Heat Transfer Oils

14" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
23W/IN <sup>2</sup>	75	33 1/4"	CF14SB-G33DP-750CZN	
	100	42 1/2"	CF14SB-G42HP-100KZN	
	125	51 3/4"	CF14SB-G51MP-125KZN	
45-STEEL ELEMENT	150	61"	CF14SB-G610P-150KZN	
	175	70 1/4"	CF14SB-G70DP-175KZN	
NEMA 1 ENCLOSURE	200	79 3/8"	CF14SB-G79FP-200KZN	
	225	88 5/8"	CF14SB-G88KP-225KZN	

Application: Mildly Corrosive Solutions

14" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
16W/IN <sup>2</sup>	83	44 1/2"	CF14S4-G44HP-830CZN	
	104	54 1/8"	CF14S4-G54BP-104KZN	
45-INCOLOY® 840 ELEMENT	125	63 7/8"	CF14S4-G63PP-125KZN	
	146	73 5/8"	CF14S4-G73KP-146KZN	
NEMA 1 ENCLOSURE	167	83 1/4"	CF14S4-G83DP-167KZN	

Application: Medium Weight Oils, Heat Transfer Oils, Paraffin

14" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			480V 3 PH	
16W/IN <sup>2</sup>	83	44 1/2"	CF14SB-G44HP-830CZN	
	104	54 1/8"	CF14SB-G54BP-104KZN	
45-STEEL ELEMENT	125	63 7/8"	CF14SB-G63PP-125KZN	
	146	73 5/8"	CF14SB-G73KP-146KZN	
NEMA 1 ENCLOSURE	167	83 1/4"	CF14SB-G83DP-167KZN	

Application: Bunker C and #6 Fuel Oils

14" 150 LB ANSI FLANGE	KW	IMMERSION LENGTH	VOLTAGE	
			240V 3 PH	480V 3 PH
8W/IN <sup>2</sup>	42	51 3/4"	CF14SB-G51ML-420CZN	CF14SB-G51MP-420CZN
	50	61"	CF14SB-G610L-500CZN	CF14SB-G610P-500CZN
45-STEEL ELEMENT	59	70 1/4"	CF14SB-G70DL-590CZN	CF14SB-G70DP-590CZN
	67	79 3/8"	CF14SB-G79FL-670CZN	CF14SB-G79FP-670CZN
NEMA 1 ENCLOSURE	75	88 5/8"	CF14SB-G88KL-750CZN	CF14SB-G88KP-750CZN