

Specification Data Sheet - TS Commercial Series Electro-Boiler™

WATER FLOW REQUIREMENTS (MINIMUM 4 GPM WATER FLOW THROUGH BOILER)

Model	Water Temperature Rise											
	Flow - 20° F/11° C		Head Loss		Flow - 30° F/16° C		Head Loss		Flow - 40° F/22° C		Head Loss	
	gpm	lpm	ft	m	gpm	lpm	ft	m	gpm	lpm	ft	m
EB-CX-18-60	6.14	23.24	.002	.0006	4.09	15.48	.001	.0003	3.07†	11.62†	.0008	.0002
EB-CX-24-60	8.19	31.00	.002	.0006	5.46	20.66	.001	.0003	4.09	15.48	.0008	.0002
EB-CX-30-60	10.23	38.72	.06	.018	6.82	25.81	.07	.021	5.11	19.34	.07	0.21
EB-CX-36-60	12.28	46.49	.01	.003	8.19	31.00	.004	.001	6.14	23.24	.002	.0006
EB-CX-45-60	15.35	58.10	.02	.006	10.23	38.72	.01	.003	7.67	29.03	.01	.003
EB-CX-54-60	18.43	69.77	.02	.006	12.28	46.49	.01	.003	9.21	34.86	.01	.003
EB-CX-18-48	6.14	23.24	.002	.0006	4.09	15.48	.001	.0003	3.07 †	11.62 †	.0008	.0002
EB-CX-24-48	8.18	31.00	.002	.006	5.45	20.66	.002	.006	4.05	15.33	.002	.006
EB-CX-30-48	10.23	38.72	.06	.018	6.82	25.81	.06	.018	5.11	19.34	.06	.018
EB-CX-36-48	12.28	46.49	.01	.003	8.19	31.00	.004	.001	6.14	23.24	.002	.0006
EB-CX-42-48	14.33	54.24	.02	.006	9.55	36.15	.02	.006	7.16	27.1	.02	.006
EB-CX-48-48	16.37	61.97	.02	.006	10.91	41.3	.02	.006	8.18	30.96	.02	.006
EB-CX-54-48	18.43	69.77	.02	.006	12.28	46.49	.01	.003	9.21	34.86	.01	.003
EB-CX-27-20	9.21	34.86	.01	.003	6.14	23.24	.002	.0006	4.60	17.41	.001	.0003
EB-CX-31-20	10.74	40.66	.01	.003	7.16	27.1	.01	.003	5.37	20.33	.01	.003
EB-CX-36-20	12.28	46.48	.01	.003	8.18	30.96	.01	.003	6.14	23.24	.01	.003
EB-CX-40-20	13.82	52.32	.01	.003	9.21	34.86	.01	.003	6.91	26.16	.003	.0009
EB-CX-27-24	9.21	34.86	.01	.003	6.14	23.24	.002	.0006	4.60	17.41	.001	.0003
EB-CX-31-24	10.74	40.66	.01	.003	7.16	27.1	.01	.003	5.37	20.33	.01	.003
EB-CX-36-24	12.28	46.48	.01	.003	8.18	30.96	.01	.003	6.14	23.24	.01	.003
EB-CX-40-24	13.82	52.32	.01	.003	9.21	34.86	.01	.003	6.91	26.16	.003	.0009
EB-CX-31	10.75	40.69	.06	.018	7.16	27.10	.07	.021	5.37	20.33	.07	.021
EB-CX-36	12.28	46.49	.06	.018	8.19	31.00	.06	.018	6.14	23.24	.07	.021
EB-CX-40	13.65	51.67	.01	.003	9.10	34.44	.01	.003	6.82	25.81	.003	.0009
EB-CX-44	15.01	56.82	.02	.006	10.01	37.89	.01	.003	7.50	28.39	.01	.003

† Result below minimum required flow of boiler, make sure system design provides minimum flow requirements of boiler. Note: Head Loss based on 110° F return temperature.

ELECTRIC SUPPLY

Model	Volts	Phase	kW	Watts	Btu/h	Amps	CB†
EB-CX-18-60	600	3-60	18	18,000	61,418	17.3	30A
EB-CX-24-60	600	3-60	24	24,000	81,891	23.1	30A
EB-CX-30-60	600	3-60	30	30,000	102,364	28.9	45A
EB-CX-36-60	600	3-60	36	36,000	122,837	34.6	45A
EB-CX-45-60	600	3-60	45	45,000	153,546	43.3	60A
EB-CX-54-60	600	3-60	54	54,000	184,255	52.0	70A
EB-CX-18-48	480	3-60	18	18,000	61,418	21.7	30A
EB-CX-24-48	480	3-60	24	24,000	81,891	28.9	40A
EB-CX-30-48	480	3-60	30	30,000	102,364	36.1	50A
EB-CX-36-48	480	3-60	36	36,000	122,837	43.3	60A
EB-CX-42-48	480	3-60	42	42,000	143,310	50.5	70A
EB-CX-48-48	480	3-60	48	48,000	163,782	57.7	80A
EB-CX-54-48	480	3-60	54	54,000	184,255	65.0	80A
EB-CX-27-20	208	3-60	27	27,000	92,127	74.9	100A
EB-CX-31-20	208	3-60	31.5	31,500	107,482	87.4	110A
EB-CX-36-20	208	3-60	36	36,000	122,837	99.9	125A
EB-CX-40-20	208	3-60	40.5	40,500	138,191	112.4	150A
EB-CX-27-24	240	3-60	27	27,000	92,127	65.0	80A
EB-CX-31-24	240	3-60	31.5	31,500	107,482	75.8	100A
EB-CX-36-24	240	3-60	36	36,000	122,837	86.6	110A
EB-CX-40-24	240	3-60	40.5	40,500	138,191	97.4	125A
EB-CX-31	240/208	1-60	31.5/23.6	31,500/23,600	107,482/80,611	131.3/113.6	100A + 80A
EB-CX-36	240/208	1-60	36/27	36,000/27,000	122,837/92,127	150.0/129.8	100A + 100A
EB-CX-40	240/208	1-60	40/30	40,000/30,000	136,485/102,364	166.7/144.2	125A + 125A
EB-CX-44	240/208	1-60	44/33	44,000/33,000	150,134/112,600	183.3/158.7	125A + 125A

† Canadian models include single feed bus option where applicable.

WEIGHT

Model	Weight (lbs)
EB-CX-18-60	
EB-CX-24-60	
EB-CX-30-60	
EB-CX-36-60	
EB-CX-45-60	
EB-CX-54-60	
EB-CX-18-48	
EB-CX-24-48	
EB-CX-30-48	
EB-CX-36-48	
EB-CX-42-48	
EB-CX-48-48	
EB-CX-54-48	
EB-CX-27-20	
EB-CX-31-20	
EB-CX-36-20	
EB-CX-40-20	
EB-CX-27-24	
EB-CX-31-24	
EB-CX-36-24	
EB-CX-40-24	
EB-CX-31	
EB-CX-36	
EB-CX-40	
EB-CX-44	



All specifications subject to ELECTRO INDUSTRIES
STANDARD TERMS AND CONDITIONS, download at
www.electromn.com/terms.pdf



**ELECTRO
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STANDARD EQUIPMENT

Staging - EB-CX-**

- Supply water sensing
- Regulates to front panel selected temperature
- Temperature range 90° F to 170° F
- Staging indicator lights
- Heavy duty contactors
- Hi-limits: 1st - automatic reset at 190° F
2nd - manual reset at 205° F
- Circulator switching relay - 10-amp maximum
- Thermostat or end switch connection (R and W)
- Standby switch and backup boiler contact
- Utility load control provisions
- 13.1 gl. steel vessel ASME "H" Stamp
- Supply temperature/pressure gauge
- Safety relief valve (30 PSI)
- Outdoor sensing with outdoor reset capability, the target supply temperature ramps up as it gets colder outside
- Made in the USA

CLEARANCES

	MINIMUM CLEARANCE FROM COMBUSTIBLE SURFACES		SUGGESTED MINIMUM SERVICE CLEARANCE	
	0 INCH	0 MM	0 INCH	0 MM
BACK	0 INCH	0 MM	0 INCH	0 MM
LEFT	1 INCH	25 MM	12 INCHES	305 MM
RIGHT	1 INCH	25 MM	12 INCHES	305 MM
FRONT	1 INCH	25 MM	24 INCHES	610 MM
TOP	1 INCH	25 MM	24 INCHES	610 MM
BOTTOM	REQUIRED CLEARANCE - 18 INCHES/457 MM			

Electro-Boiler EB-CX series

dimensions are: mm
in.

Hydronic Boilers
Submittal Data

