

Specification Data Sheet - TS Large Electro-Boiler™

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

| Model | Water Temperature Rise | | | | | | | | | | | |
|-------------|------------------------|-------|-----------|-------|--------------------|-------|-----------|-------|--------------------|--------|-----------|-------|
| | Flow - 20° F/6° C | | Head Loss | | Flow - 30° F/11° C | | Head Loss | | Flow - 40° F/16° 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 | .021 |
| 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-36-48 | 12.28 | 46.49 | .01 | .003 | 8.19 | 31.00 | .004 | .001 | 6.14 | 23.24 | .002 | .0006 |
| 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-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-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 | Watts | Amps | kW | Phase | Btu/h | CB† |
|-------------|-------|--------|------|------|-------|---------|-----------|
| EB-CX-18-60 | 600 | 18,000 | 17 | 18 | 3-60 | 61,000 | 30 |
| EB-CX-24-60 | 600 | 24,000 | 23 | 24 | 3-60 | 81,600 | 30 |
| EB-CX-30-60 | 600 | 30,000 | 29 | 30 | 3-60 | 102,000 | 45 |
| EB-CX-36-60 | 600 | 36,000 | 35 | 36 | 3-60 | 123,000 | 45 |
| EB-CX-45-60 | 600 | 45,000 | 44 | 45 | 3-60 | 153,000 | 60 |
| EB-CX-54-60 | 600 | 54,000 | 52 | 54 | 3-60 | 184,000 | 70 |
| EB-CX-18-48 | 480 | 18,000 | 22 | 18 | 3-60 | 61,434 | 30 |
| EB-CX-36-48 | 480 | 36,000 | 44 | 36 | 3-60 | 122,868 | 60 |
| EB-CX-54-48 | 480 | 54,000 | 65 | 54 | 3-60 | 184,302 | 80 |
| EB-CX-27-20 | 208 | 27,000 | 75 | 27 | 3-60 | 92,151 | 100 |
| EB-CX-40-20 | 208 | 40,500 | 113 | 40.5 | 3-60 | 138,226 | 150 |
| EB-CX-27-24 | 240 | 27,000 | 65 | 27 | 3-60 | 92,151 | 80 |
| EB-CX-40-24 | 240 | 40,500 | 98 | 40.5 | 3-60 | 138,226 | 125 |
| EB-CX-31 | 240 | 31,500 | 131 | 31.5 | 1-60 | 107,509 | 100 + 80 |
| EB-CX-36 | 240 | 36,000 | 150 | 36 | 1-60 | 122,868 | 100 + 100 |
| EB-CX-40 | 240 | 40,000 | 167 | 40 | 1-60 | 136,000 | 125 + 125 |
| EB-CX-44 | 240 | 44,000 | 183 | 44 | 1-60 | 150,000 | 125 + 125 |

† Canadian models include single feed bus option where applicable.

SHIPPING WEIGHT

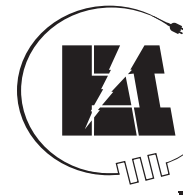
| Model | Weight (lbs) | Model | Weight (lbs) |
|-------------|--------------|-------------|--------------|
| EB-CX-18-60 | 225 | EB-CX-27-20 | 227 |
| EB-CX-24-60 | 227 | EB-CX-40-20 | 233 |
| EB-CX-30-60 | 230 | EB-CX-27-24 | 227 |
| EB-CX-36-60 | 232 | EB-CX-40-24 | 233 |
| EB-CX-45-60 | 233 | EB-CX-31 | 230 |
| EB-CX-54-60 | 237 | EB-CX-36 | 232 |
| EB-CX-18-48 | 225 | EB-CX-40 | 233 |
| EB-CX-36-48 | 232 | EB-CX-44 | 233 |
| EB-CX-54-48 | 237 | | |

CLEARANCES

| | MINIMUM CLEARANCE FROM COMBUSTIBLE SURFACES | | SUGGESTED MINIMUM SERVICE CLEARANCE | |
|--------|---|-------|-------------------------------------|--------|
| | 0 INCH | 0 MM | 0 INCH | 0 MM |
| BACK | | | | |
| LEFT | 1 INCH | 25 MM | 16 INCHES | 406 MM |
| RIGHT | 1 INCH | 25 MM | 6 INCHES | 152 MM |
| FRONT | 1 INCH | 25 MM | 24 INCHES | 610 MM |
| TOP | 1 INCH | 25 MM | 24 INCHES | 610 MM |
| BOTTOM | REQUIRED CLEARANCE - 16 INCHES/406 MM | | | |



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ELECTRO INDUSTRIES

Monticello, Minnesota
800.922.4138
www.electromn.com

STANDARD EQUIPMENT

Staging - EB-CX-**

- Supply water sensing
- Regulates to front panel selected temperature
- 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)
- Utility load control provisions
- 13.1 gl. Steel vessel ASME "H" Stamp
- Supply temperature/pressure gauge
- Safety relief valve (30 PSI)
- Standby switch and boiler contact
- Outdoor reset capability
- Made in the USA

Electro-Boiler EB-CX series

dimensions are: $\frac{\text{mm}}{\text{in.}}$

Hydronic Boilers
Submittal Data

