

STANDARD FEATURES

- * **LOW WATER CUT-OFF/LEVEL CONTROL** - A McDonnell Miller #150 control automatically maintains proper water level, shutting off the boiler when water supply in the boiler drops below a safe operating level.
- * **WATER LEVEL SIGHT GLASS** - Allows constant observation of water level while boiler is in operation.
- * **MAIN ON/OFF SWITCH** - Allows manual operation of the boiler operation control circuit.
- * **PILOT LIGHT** - Indicates the boiler's on/off condition.
- * **INTEGRAL POWER CONTACTORS** - Magnetic contactors for energizing the boiler elements. Integrally mounted in the control unit.
- * **BLOWDOWN/DRAIN VALVES** - Facilitates emptying the boiler pressure vessel and MM150 water column piping during blowdown sequence.
- * **LONG LIFE HEATING ELEMENTS** - Industrial grade, heavy duty 0.420" diameter stainless steel heating elements equipped with one piece resistance welded terminations for added strength and safety.

- * **OPERATING PRESSURE CONTROL** - Resets automatically to maintain preset pressure within boiler.
- * **ENERGY SAVINGS AND MINIMUM MAINTENANCE** - Pressure vessel insulation; minimum heat loss and maximum energy savings is insured by fibrous glass material.
- * **EASY CONTROL MAINTENANCE** - All control panels and components are easily accessible. Fully-louvered openings avoid component heat build-up.

- * **RUGGED CONSTRUCTION** - Performance is insured for all typical industrial applications.

MEETING CODE REQUIREMENTS

- * Pressure vessel rated at 100 PSIG to ASME Section I, Code M. Vessel National Board Registered. Sect I Code to 150 PSIG rating available.
- * UL Listed. Canadian Standards Association Approved.
- * All electrical construction conforms to NEC standards.

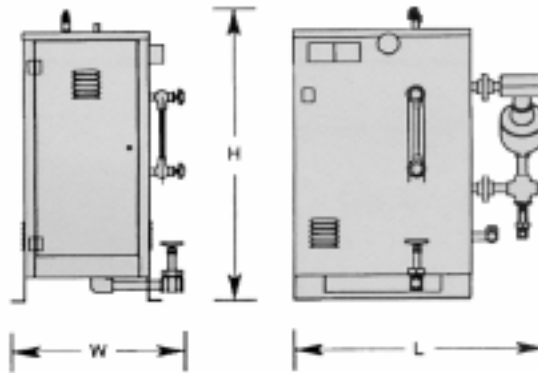
SAFETY FEATURES

- * **STEAM SAFETY VALVE** - Automatically opens to reduce pressure should excessive steam cause pressure build-up.
- * **STEAM PRESSURE GAUGE** - Allows visual observation of steam pressure over full range
- * **MANUAL RESET PRESSURE CONTROL** - Provides high limit pressure cut-out with manual reset.

STANDARD OPTIONAL EQUIPMENT

A complete complement of optional equipment for ES and other Sussman steam boilers is described in Sussman Product Sheet OES. Options covered are water feed systems, condensate returns, aux. low-water cut-off controls, progressive sequencers, automatic blowdown systems, blowdown separators and transformers.

ES ELECTRIC STEAM BOILERS



SPECIFICATIONS FOR ES BOILERS

| Boiler Model | KW | Hhp Rating | Lbs. Steam/Hr. @ 112°F | 3 Phase Voltage † | Total Amp Draw | Field Wiring Size Power Input Copper 90°C** | Dimensions Inches | | | Shipping Wt. (Lbs.) |
|--------------|-------|------------|------------------------|-------------------|----------------|---|-------------------|----|----|---------------------|
| | | | | | | | W | L | H | |
| ES-12* | 12 | 1.22 | 36.2 | 208 | 36 | 8 | 26 | 28 | 36 | 230 |
| | | | | 240 | 29 | 10 | | | | |
| | | | | 480 | 15 | 14 | | | | |
| ES-16* | 17 | 1.73 | 51.2 | 208 | 48 | 6 | 26 | 28 | 36 | 240 |
| | | | | 240 | 42 | 6 | | | | |
| | | | | 480 | 21 | 10 | | | | |
| ES-24* | 24 | 2.43 | 72.3 | 208 | 67 | 4 | 23 | 33 | 44 | 300 |
| | | | | 240 | 58 | 4 | | | | |
| | | | | 480 | 29 | 10 | | | | |
| ES-30 | 29 | 2.96 | 87.4 | 208 | 81 | 3 | 23 | 33 | 44 | 310 |
| | | | | 240 | 70 | 4 | | | | |
| | | | | 480 | 35 | 8 | | | | |
| ES-36 | 34 | 3.47 | 102.3 | 208 | 95 | 2 | 23 | 33 | 44 | 310 |
| | | | | 240 | 82 | 3 | | | | |
| | | | | 480 | 41 | 6 | | | | |
| ES-48 | 46 | 4.69 | 138.7 | 208 | 128 | 2/0 | 23 | 33 | 44 | 315 |
| | | | | 240 | 111 | 1 | | | | |
| | | | | 480 | 56 | 6 | | | | |
| ES-60 | 58 | 5.91 | 174.8 | 208 | 161 | 3/0 | 23 | 33 | 44 | 380 |
| | | | | 240 | 140 | 2/0 | | | | |
| | | | | 480 | 70 | 4 | | | | |
| ES-72 | 68 | 6.93 | 205 | 208 | 189 | 250 MCM | 23 | 33 | 44 | 380 |
| | | | | 240 | 164 | 3/0 | | | | |
| | | | | 480 | 82 | 3 | | | | |
| ES-100 | 102 | 99.4 | 307 | 208 | 264 | 400 MCM | 28 | 34 | 39 | 625 |
| | | | | 240 | 246 | 350 MCM | | | | |
| | | | | 480 | 123 | 1/0 | | | | |
| ES-135 | 136 | 13.9 | 410 | 208 | 378 | 300 MCM | 36 | 36 | 39 | 785 |
| | | | | 240 | 327 | 600 MCM | | | | |
| | | | | 480 | 164 | 5/0 | | | | |
| ES-160 | 157.3 | 16.1 | 475 | 240 | 379 | 300 MCM | 36 | 36 | 41 | 785 |
| | | | | 480 | 190 | 250 MCM | | | | |
| | | | | 480 | 217 | 300 MCM | | | | |

* Single phase available ** AWG unless otherwise indicated. † Other voltages available.
 †† With 30" feedwater.
 a. NOTE: Allow 21 inches for heating element removal.
 ES12 - ES72 have max operating pressure control; larger units have two.

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