RE10 - RE30 STEAM BOILERS

Features
- Miniature boiler max. vessel volume 1.5ft³
- Maximum safety valve setting 100psi
- All boilers are manufactured in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code and A.S.M.E. CSD-1.
- Each boiler bears the National Board Stamp “M”.
- High quality saturated steam, operating pressure range 0 – 85psig
- All enclosed sleek design, all controls accessible from boiler front, very suitable for installation in tight spaces such as autoclaves
- Heavy duty carbon steel pressure vessel. Vessel jacket and electrical enclosure 304 stainless steel

Standard Equipment of Each Boiler includes:
- A.S.M.E. pressure relief valve
- One (1) quick opening boiler bottom blowoff valve as per A.S.M.E. Code B31.1
- “X” NPT Bronze steam outlet ball valve
- High pressure feed pump in RBH- and RBHC-models
- Low water cutoff control with manual reset
- One (1) high pressure cutoff control with manual reset
- One (1) operating pressure control
- Magnetic contactors
- Main supply power distribution block
- Indicator lights for POWER, REFILLING, HEATING, ALARMS and Automatic Boiler Blowoff Status
- Pressure and water level gauge

Applications
- Process Steam
- Autoclaves/Sterilizers
- Air Humidification
- Dry Cleaning
- Food Service(*)
- Laboratories

(*) DIRECT STEAM APPLICATIONS TO FOOD PRODUCTS: Reimers offers stainless steel boilers or #OPT1030 Brass/Bronze free boiler trim option (see Page 5). This alone does not guarantee the production of culinary grade steam. Applicable safety standards (i.e. 3-A T609) must be considered.

Model Number Key

Example: REHC20E3F = RE-Series boiler with pump and condensate tank, 20kW heating power, power supply 240V, 3ph, safety valve set to 100psi.

Please note that all information provided within this brochure is approximate and subject to change without notice. Please contact Reimers Electra Steam, Inc. with any questions regarding the specifications or dimensions detailed within.
## Electrical Specifications

<table>
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<tr>
<th>kW</th>
<th>V</th>
<th>AMP DRAW</th>
<th>MIN. REQ. N.E.C. FUSING</th>
<th>INTERNAL POWER FUSING</th>
<th>NUMBER &amp; SIZES OF CONTACTORS</th>
<th>FIELD TERMINAL REQUIRED CONDUCTOR SIZE</th>
<th>CONFIGURATION</th>
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<td>3</td>
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<td>125</td>
<td>156 6 X 50A, 300V</td>
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</table>

### Construction

- **Electronic Boiler Control**
- **Pressure Gauge**
- **Pressure Controls**
- All controls and indicators are accessible from the front of the boiler
- **Incoloy® Sheath Heating Elements with 2.5” x 2.5” Square Flange**

### Diagram

- **Power Supply Configuration 1**
- **Power Supply Configuration 2**
- **Safety Relief Valve**
- **Steam Outlet Ball Valve 1/2”**
- **Water Level Probe**
- **High Density Mineral Wool Thermal Insulation**
- **304 Type Stainless Steel Cabinet with Wire Brush Finish**
RE10-RE30 MODELS

STEAM OUTLET 1/2" NPT
SAFETY VALVE
MANUAL BLOWDOWN 1/2" NPT
WATER FEED 3/8" NPT

REH10-REH30 MODELS

STEAM OUTLET 1/2" NPT
SAFETY VALVE
MANUAL BLOWDOWN 1/2" NPT
WATER FEED 3/8" NPT

REHC10-REHC30 MODELS

STEAM OUTLET 1/2" NPT
SAFETY VALVE
MANUAL BLOWDOWN 1/2" NPT
WATER FEED 3/8" NPT
Pressure Controlled Boiler Blowoff System Automatic Flush & Drain # OPT1016

(Not suitable for 24/7 operation):
- Boiler Power OFF
- Blowoff Enable

Program Boiler Blowoff Duration
Steam pressure drops below setting of blowoff pressure control set at 15psig or less.

Boiler Blowoff Valve
At the end of the boiler blowoff cycle, valve closes automatically.

Timer Controlled Boiler Blowoff System (Suitable for 24/7 operation), # OPT1001:

Program boiler blowoff day time and duration
When boiler blowoff time is reached, boiler controls turn off automatically and the blowoff valve opens.

At the end of the boiler blowoff cycle the blowoff valve closes, boiler controls turn on, the water level in boiler restores and boiler resumes operation automatically.

Boiler Blowoff Tank, #BTANK-10:
- Designed in accordance with the National Board Guide for Blowoff Vessels NB-27
- Designed and manufactured in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code Section VIII, Division 1.
  Each tank bears the National Board Stamp “U”. The design pressure is ≤ 100psig.

Boiler Blowoff Tank After-Cooler #OPT1027:
Most States and Local Municipalities require that fluids drained to the sewer shall have a maximum temperature of not more than 140°F. Install this after-cooler to the blowoff thank discharge line when boiler operates with one of the above automatic blowoff options.

Control Voltage Transformer Options: Use one of these options for point boiler power supply.

<table>
<thead>
<tr>
<th>Boiler Voltage</th>
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<tr>
<td>120V</td>
<td>OPT1000 - 20845</td>
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<td>20845</td>
<td>OPT1001 - 20845</td>
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<td>1000V</td>
<td>OPT1000 - 40085</td>
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<td>347V</td>
<td>OPT1000 - 60885</td>
</tr>
<tr>
<td>50850</td>
<td>OPT1001 - 60885</td>
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</table>

Brass/Bronze-Free Boiler Trim, #OPT1030-RE:
R-series boilers in which standard brass/bronze boiler trim is replaced with carbon steel and stainless steel trim. This option reduces the lead concentration in the boiler water and discharged steam to significantly lower levels. Use this option in applications in which steam comes in direct contact with food and all other applications where lead concentrations are a concern.

Steam Filter for Culinary Steam Applications, #OPT1032:
Use this filter with FDA listed materials in food processing applications where the steam comes in direct contact with food. The 3 or 5 micron cartridges employed in this steam filter meet or exceed the 3-A guidelines for the production of Culinary Steam under Accepted Practice T609.

NOTE: The installation of this filter alone does not guarantee that the steam produced by your system meets all applicable culinary steam standards.

Steam Jet Station # 20845
Attach Steam Jet Station to RE-Boiler or any other convenient location

Boiler Wheel Set and Steam Wand for Cleaning Applications

Timer Controlled Boiler On/Off, #OPT1017

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