SPECIFICATION TEMPLATE

1. GENERAL

Furnish and install as shown on the plans_(QTY)_electric Steam boiler(s), fabricated per these specifications, including all accessories and construction features as described herein. Boilers shall be completely factory assembled and pre-tested prior to shipment. Boilers shall be UL labeled and comply with CSD-1. Boilers shall be UL labeled and shall include an ASME Section IV "H" Code pressure vessel which has been fabricated under inspection by an authorized inspector holding a National Board commission and subsequently stamped and National Board registered.

2. RATINGS				
Roilers shall be rated	KW designed and	fabricated for a balanced	3-nhase 3-wire	delta loa

Boilers shall be rated ____ KW, designed and fabricated for a balanced 3-phase, 3-wire, delta load at ___volts, 3-phase ____hertz. The boilers shall be designed for 15 psi and operated at or below __ psi.

3. PRESSURE VESSEL

The pressure vessel and all trim shall be as set forth in the ASME Section IV "H" Code, including ASME "HV" stamped safety relief valve sized as required. The vessel shall be provided with a (size & type) steam outlet, (size & type) feedwater inlet, (size & type) blow-down connections as required. The pressure vessel shall be housed in a 16-gauge steel enclosure allowing 3 inches of insulation space around the vessel and filled with 3 inches of 3/4 pound-density fiberglass insulation. The electric panel and vessel shall be mounted on a common, structural steel base with overall dimensions of the unit not to exceed __ inches (L) x __ inches (W) x __ inches (H).

4. INTERNAL POWER DISTRIBUTION

The power distribution shall be through cable connection to mechanical lugs. Power shall be fed through current limiting fuses to magnetic contactors, and then to the heating element circuits. Contactors shall be 3-pole magnetic contactors tested by UL for 500,000 cycles at full load. The coil voltage shall be 120-volts. Internal wiring shall be in accordance with NEC/NFPA Article 424-G and UL Subject 834.

5. HEATING ELEMENTS

Elements shall be individually mounted in steel flanges. The flange size shall not exceed 2-1/2 inches square, with a maximum of three single- bend U-shaped element blades per flange. Element sheath material shall be Incoloy; element watt density shall be 75 WSI.

6. CONTROLS

The control circuit shall be 120-volt single-phase, one side grounded. Control voltage shall be provided by an integral control circuit transformer, fused on both legs of the primary, with a control circuit fuse on the ungrounded leg of the secondary. The controls shall include: an ON/OFF switch; proportional pressure control combined with a solid state proportional progressive sequencing step control featuring __ steps; indicator lights and manual limiting switches for each step of heating; a combination float-type level control/low water cutoff; one probe type manual reset low water cutoff; one automatic reset high limit pressure switch plus a secondary manual reset high limit pressure switch.

Precision Boilers 5727 Superior Drive Morristown, TN 37814

PHONE: **(423) 587-9390** FAX: **(423) 581-7749**

E-mail: sales@precisionboilers.com

WEB: www.precisionboilers.com

SPECIFICATION TEMPLATE

1. GENERAL

O DATINGO

Furnish and install as shown on the plans_(QTY)_electric Steam boiler(s), fabricated per these specifications, including all accessories and construction features as described herein. Boilers shall be completely factory assembled and pre-tested prior to shipment. Boilers shall be UL labeled and comply with CSD-1. Boilers shall be UL labeled and shall include an ASME Section I "S" Code pressure vessel which has been fabricated under inspection by an authorized inspector holding a National Board commission and subsequently stamped and National Board registered.

Z. RAIINGS				
Boilers shall be rated	KW, designed and	fabricated for a balanced 3-phase,	3-wire, delta load at	_vol

Boilers shall be rated ____ KW, designed and fabricated for a balanced 3-phase, 3-wire, delta load at ___volts, 3-phase hertz. The boilers shall be designed for 15 psi and operated at or below __ psi.

3. PRESSURE VESSEL

The pressure vessel and all trim shall be as set forth in the ASME Section I "S" Code, including ASME "V" or "UV" stamped safety relief valve sized as required. The vessel shall be provided with a (size & type) steam outlet, (size & type) feed-water inlet, (size & type) blow-down connections as required. The pressure vessel shall be housed in a 16-gauge steel enclosure allowing 3 inches of insulation space around the vessel and filled with 3 inches of 3/4 pound-density fiberglass insulation. The electric panel and vessel shall be mounted on a common, structural steel base with overall dimensions of the unit not to exceed __ inches (L) x __ inches (W) x __ inches (H).

4. INTERNAL POWER DISTRIBUTION

The power distribution shall be through cable connection to mechanical lugs. Power shall be fed through current limiting fuses to magnetic contactors, and then to the heating element circuits. Contactors shall be 3-pole magnetic contactors tested by UL for 500,000 cycles at full load. The coil voltage shall be 120-volts. Internal wiring shall be in accordance with NEC/NFPA Article 424-G and UL Subject 834.

5. HEATING ELEMENTS

Elements shall be individually mounted in steel flanges. The flange size shall not exceed 2-1/2 inches square, with a maximum of three single- bend U-shaped element blades per flange. Element sheath material shall be Incoloy; element watt density shall be 75 WSI.

6. CONTROLS

The control circuit shall be 120-volt single-phase, one side grounded. Control voltage shall be provided by an integral control circuit transformer, fused on both legs of the primary, with a control circuit fuse on the ungrounded leg of the secondary. The controls shall include: an ON/OFF switch; proportional pressure control combined with a solid state proportional progressive sequencing step control featuring ___ steps; indicator lights and manual limiting switches for each step of heating; a combination float-type level control/low water cutoff; one probe type manual reset low water cutoff; one automatic reset high limit pressure switch plus a secondary manual reset high limit pressure switch.

Precision Boilers 5727 Superior Drive Morristown, TN 37814

PHONE: **(423) 587-9390** FAX: **(423) 581-7749**

E-mail: sales@precisionboilers.com

WEB: www.precisionboilers.com