

STEAM CONDENSATE RECEIVER

Grand Condensate Receiver sets new standards of performance.

Reliable and efficient, each unit features heavy gauge, steel receivers for long operating life. Available in a wide range of sizes, have just the right accessories and options to meet your unique needs.

When equipped with an automatic steam preheater, feedwater temperature can be maintained at 210 °F. At this higher temperature, oxygen and carbon dioxide are released, reducing corrosion problems in the boiler. Pre-heating is recommended if return condensate constitutes 50% or less of the feedwater required.

Preheater Components include the following:

Perforated Heater Tube, also referred to as a diffuser or sparge tube. The tube is located under the water level in the tank, and its purpose is steam distribution.

Regulating Valve to control the incoming steam supply. When the steam supply pressure is between 10-15 psi, a one-element regulating valve (temperature sensor) is used. On higher pressure packages, when the steam supply is

between 30-250 psi, a two-element regulating valve, sensing pressure and temperature, is used. The two-element regulating valve is furnished and packaged with higher steam supply pressures, instead of one element regulating valve for added safety, even though the receiver is vented and pressurization should not occur.

Strainer for arresting any dirt or scale carried over with the supply steam. For its protection, the strainer is located upstream of the regulating valve.

Pressure Gauge for monitoring downstream steam pressure from the regulating valve.

Sentinel Valve to warn if the receiver is pressurized, if the regulating valve fails, or a vent becomes plugged. The valve is not required by a code, but is added for safe operation.

SPECIFICATIONS

- Grade ASTM A 516 Carbon Steel Construction
- Receiver size Available in 50, 75, 100 and 200 gallons
- Design and constructed as per ASME section VIII, division 1
- The vessel is lined with an epoxy coating, deterring corrosion of vessel steel due to dissolved gases
- Working Pressure 7 psi (0.5bar)
- Max. Temperature 203°F (95°C)
- Self-Supported Bottom
- 50mm Rockwool insulated with 26gg GI jacketed
- Outside Finish: Air dry grey enamel paint finish
- Solenoid make up valve ¾" with level control up to 100 gallon & 1" for 200 gall
- Gauge Glass
- Tank thermometer dial type, 3" dial
- Sentinel valve ¾" male NPT inlet with top discharge to give visible warning of system overpressure.
- Steam pre-heater with pressure reducing valve and temperature control valve.

