



Electric Condensate Recovery Units

Description

Condensate Recovery is an important part of a steam system as the boiler, boiler feedtank, blowdown vessel or steam trap.

The way a condensate recovery unit integrates within the system is to collect the condensate after the steam trap and return it to the boiler feedtank where there is insufficient pressure in the condensate to return under its own power.

By returning the condensate we can achieve the following benefits;

- Saving on water effluent costs
- Saving on make up water costs
- Saving on lost energy costs
- Saving on feedwater preheat costs
- Saving on chemical treatment
- Increase boiler efficiency due to higher feedwater temperature

Our cascade condensate pumping sets include:

- Stainless steel vessel mounted onto a stainless steel frame
- Condensate inlet connections complete with stainless steel sparge pipes for flash steam absorption, magnetic level gauge for visual indication, tank overflow and vent connections
- Duty standby pumps. In the event of a peak load or pump failure. Standby/assist pump shall operate to relieve this peak demand. Both pumps are controlled by switches mounted to the magnetic level gauge.
- IP65 control panel enclosure control panel is complete with the following:
 - Mains incoming isolator, duty-assist pump control with an auto change over relay to alternate duty at the end of each cycle and in the event of a pump failure, level detection to start the duty pump and assist pump, pump fault indication, low level condensate tank pump inhibit to prevent pump dry running, volt free telemetry termination for remote stats, auto/hand/off switch for each pump.
 - Duty assist pumps lines will come complete with upstream isolation valves, y-type strainers, non-return valves, pressure gauge sets and outlet regulating valves.

Size	Price
Please Specify	ON REQUEST ACCORDING TO SYSTEM SPECIFICATIONS

Design standards

This product is not a pressurized vessel and therefore does not need to comply with the European pressure equipment directive 97/23/ec.

Standard Packages

CPS2000/15 Cascade Condensate Recovery Unit - Suitable for 2,000 Kg/H with a 15 Meter Head at 98°C
CPS4000/10 Cascade Condensate Recovery Unit - Suitable for 4,000 Kg/H with a 10 Meter Head at 98°C
CPS10000/10 Cascade Condensate Recovery Unit - Suitable for 10,000 Kg/H with a 10 Meter Head at 98°C
CPS10000/20 Cascade Condensate Recovery Unit - Suitable for 10,000 Kg/H with a 20 Meter Head at 98°C
CPS20000/10 Cascade Condensate Recovery Unit - Suitable for 20,000 Kg/H with a 10 Meter Head at 98°C
CPS20000/20 Cascade Condensate Recovery Unit - Suitable for 20,000 Kg/H with a 20 Meter Head at 98°C
CPS30000/10 Cascade Condensate Recovery Unit - Suitable for 30,000 Kg/H with a 10 Meter Head at 98°C
CPS30000/20 Cascade Condensate Recovery Unit - Suitable for 30,000 Kg/H with a 20 Meter Head at 98°C

Special designs are available on request

Please contact ISIS Steam for full specifications and dimensions for all of the above models.