



MARKO
STEAMJET PVT. LTD.

**CONDENSATE
RECOVERY UNIT**
(PRESSURE POWERED PUMP UNIT)

www.markosteamjet.com





ABOUT US

Marko steam jet is a leading and recognized name in the Rotary joint, valves and pumps industry, striving to manufacture quality engineered products to the related industries and boom the manufacturing numbers in India. The Prominence that the company has achieved since its establishment is its unwavering commitment to quality. With pioneering 16 years of customer trust and satisfaction, we not only create value for stakeholders, but also benefit them with our innovations and services.

At Marko Steam jet, we understand that servicing of any engineered instrument is important for better efficiency and life-span. Thus, we provide our customers with the facility of rebuilding or repairing equipments. All rebuild joints at our company are factory tested and will be delivered and installed with full confidence to strike and achieve optimum customer satisfaction.

w w w . m a r k o s t e a m j e t . c o m



17+
Years
Experience



500+
Satisfied
Clients



7+
Country
Presence



INDUSTRIES WE SERVE

Oil



Paper



Gas



Textile



Sugar



Food



Chemical



Petro - Chemical



Pharmaceutical



Brewery





PARTS (MATERIAL SPECIFICATION)	MOC
Pump body, Piping & Flange	S.S 304 / M.S.
NRV/DCV	S.S 304
Isolation Valve (As per requirements)	Standard
Strainer (As per requirements)	Standard
Sensor	Standard
Solenoid Valve	Standard
Trap - TD-3 & Ball Float Type	Standard
Panel with Flow Indicator	Standard

DESIGN SPECIFICATION	
Maximum Capacity	8000 ltr / hr
Minimum Capacity	500 ltr / hr



● **Condensate Recovery Unit (CRU) or A Pressure Powered Pump Unit (PPPU)** is a system used to recover and reuse condensate in industrial processes. Condensate is the liquid that forms when steam condenses, and it contains significant heat energy. Instead of allowing the condensate to go to waste, a CRU/PPPU captures and recovers it for reuse, resulting in energy savings and cost efficiency.

● **Here's how a typical Condensate Recovery Unit works:**

1. Collection : The CRU/PPPU collects the condensate from steam systems, which can include various equipment like steam traps, heat exchangers, and process equipment.

2. Pressurization : The collected condensate is then pressurized using steam pressure or air pressure. This pressure drives a pressure-powered pump, also known as a steam (air) driven ejector or motive steam pump. We can eject the solmotive steam as per required deliver head.

3. Pumping : The pressure-powered pump uses the pressurized steam to deliver the condensate to boiler feed tank or to a hot water supply .

4. Heat Recovery : As the condensate is being pumped, it transfers its heat energy to the incoming makeup water or process fluid, preheating it before entering the boiler or other equipment. This heat recovery helps reduce the energy required for heating the fluid, improving overall energy efficiency.

● **The benefits of using a Condensate Recovery Unit include:**

1. Energy Efficiency : By recovering and reusing condensate, the system reduces the need for additional energy to heat makeup water, resulting in energy savings and lower operating costs.

2. Cost Savings: Using a CRU/PPPU can lead to significant cost savings by reducing fuel consumption, water usage, and water treatment expenses.

3. Environmental Sustain ability : The system promotes environmental sustain ability by conserving water resources and reducing greenhouse gas emissions associated with energy production.

4. Improved Equipment Performance : By removing condensate efficiently, the CRU/PPPU helps prevent water hammer, corrosion, and other issues that can affect the performance and life span of steam system components.

5. Power Saving : Using a CRU/PPPU no need to use mechanical pump to deliver the condensate and we can save the power.



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