



Condensate Recovery System

An ISO 9001:2008 Certified Company



Steam Distribution | Steam Generation | Customized Package Solution | Steam Accessories | Steam Services

Why Condensate Recovery?

In an indirect heating process only 80% of the steam energy is used for heating & 20% energy comes out in the form of Condensate.

Reduction In Fuel Bill

Condensate is valuable resource of Heat available in process plant. Recovery of condensate reduces Fuel Consumption significantly by increasing the feed water temperature.

Water charges

Any condensate not returned needs to be replaced by fresh water, increasing the fresh water requirement of the plant & its chemical treatment cost.

Reduction in ETP load

Hot condensate drained is taken to the ETP which increases the load on ETP. This can be avoided by complete condensate recovery.

Maximizing boiler output

As per F & A rating of boiler, higher the feed water temperature higher will be the steam output from boiler.

Reduction in Blow down Loss

Condensate is pure water, which has no TDS. Returning more condensate to the feed-tank reduces the need for blow-down and thus reduces the energy loss from the boiler.



Condensate Recovery Pump

Significant amount of energy and resources can be saved by setting up an efficient system to quickly recover and reuse Condensate.

Digital Condensate Pump

Features

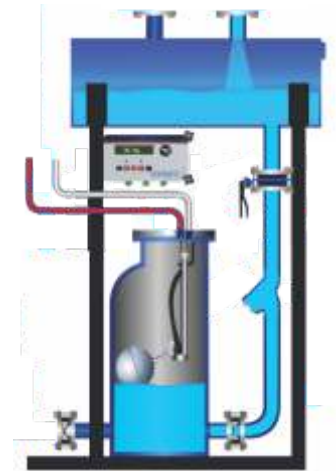
- Uses inexpensive steam, air or gas to pump the condensate
- Negligible steam consumption
- Zero Maintenance as there is no cavitations, no leaking seals, no impeller wear or motor problems
- Only one moving part (SS float) increases reliability
- Superior build quality and rugged construction
- Pre-wired, pre-piped packaged Skid Mounted for easy installation
- Widest capacity range available in steam-operated pumps



Mechanical Condensate Pump

Features

- No electrical supply required for condensate pumping
- Completely mechanical operation
- Uses inexpensive steam, air or gas to pump the condensate
- Negligible steam consumption
- Zero Maintenance, no cavitations leaking seals impeller wear or motor problems
- Highly reliable
- Superior build quality and rugged construction
- Pre-piped packaged Skid Mounted for easy installation
- Available with condensate flow totalizer



Condensate Flow Totalizer

Feature

- Shows Totalized Mass flow rate in Kg.
- Relay o/p 2 nos, independently configurable on alarm or Set-Reset
- Large font, 2 line x 16 characteristics dot matrix backlit LCD display.
- Password protection
- Enclosure, W proof IP-65
- Also available with Ex proof Gr IIA & IIB enclosure
- Compatibility: Suitable to use with all kind of Steam / Air operated pumps (various makes)**



Flash Steam Recovery

Flash Steam is generated from condensate which is high temperature & pressure, when it comes to lower pressure. Higher the condensate temperature higher will be the Flash Steam Quantity.

In energy terms, flash steam contains 50% of the energy that of in the condensate. In other words, half the energy in condensate can be lost if flash steam is vented!

Flash Steam Separator

Features

- Customized design
- Supplied with rotating plug modulating ball float trap
- Designed as per ANSI standards
- Available with IBR certification
- Accessories : Pressure gauge, Safety valve, Strainer, Sight Glass



Dual Input Flash Separator

Features

- Unique customized design with two separate inlets to flash vessel
- Best suitable for the application where the condensate is at two different pressures
- Help in reducing back pressure on steam traps due to connection of different pressure condensate in same header
- Accessories : Rotating Plug Modulating Ball Float Trap, Pressure Gauge, Safety Valve, Strainer, Sight Glass



Deaerator Head

Feature

- Suitable for high condensate flow rates
- Robust design
- Easy to maintain
- Compact



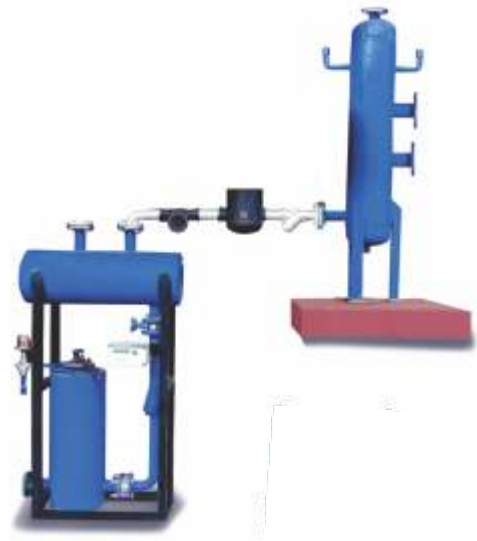
Condensate Recovery Pump

We offer wide capacity range in Steam / Air operated condensate recovery pumps with option of Digitally and Mechanically Operated Condensate Pump.



18000 kg/hr Highest Capacity Condensate Pump

Digitally Operated Condensate Pump with Dual Input flash Vessel



Purely Mechanical Condensate Pump

8000 kg/hr Capacity Condensate Recovery Pump



Capacity Chart

Sr. No.	Motive Pressure Kg/cm2	Back Pressure Kg/cm2	VCRP 40 Kg/hr	VCRP 50 Kg/hr	VCRP 80 Kg/hr	VCRP 100 Kg/hr
1	7	1	1230	2940	4500	5610
2	7	3	1080	2820	4260	5430
3	7	4.5	990	2700	4140	5190
4	5.5	1	1110	2850	4230	5310
5	5.5	3	930	2670	4110	5280
6	5.5	4.5	780	2460	3990	5070
7	3.5	1	960	2610	4080	5250
8	3.5	1.5	810	2550	4020	5190
9	3.5	2.5	750	2430	3930	5040
10	2	0.5	810	2460	3990	130
11	2	0.8	780	2430	3930	5070
12	2	1	720	2400	3810	4950

Material of Construction - Condensate Pump

Sr. No.	Part	Material of Construction	Standard
Condensate Pump			
1	Condensate receiver	Carbon Steel	IS 2 062 / IS 3589
2	Condensate Pump	Carbon Steel	IS 2 062
3	Internals	SS 304	
4	Gasket	Asbestos Free, Reinforced exfoliated graphite	ASTM A -240
5	Steam Control inlet / Exhaust Valve	SS 316	ASTM A -240
6	Cover Bolts / Nuts	High Tensile Carbon Steel	H.T. IS 1367
7	Coating	Powder Coating	Gr. 8.8

Material of Construction - Flash Vessel

Sr. No.	Part	Material of Construction	Standard
Flash Vessel			
1	Flash Vessel	Carbon Steel	IS 2062 / IS 3589
2	Pressure Gauge	100 MM, SS 304	
3	Safety Valve	SS Body with SS Internals	
4	Gaskets	Asbestos Free, Reinforced exfoliated graphite	
5	Ball Float Trap	Inbuilt with SS Internals	
6	Cover Bolts / Nuts	High Tensile Carbon Steel	H.T. Is 1367
7	Coating	Powder Coating	Gr. 8.8

Some of our esteemed clients:

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