



The Cost of Missed Opportunity in Liquefaction

Distilleries are currently paying for heating grain slurry & paying again to cool down the steam used in jet cooker. This practice converts high-value process heat into.

Energy Loss - Flash steam energy is lost to cooling water, Increasing heating steam & fuel cost.

Water Loss - This process increases both cooling water consumption and makeup water requirements, leading to higher water treatment costs.



Introducing Praj's ecoliv Technology

ecoliv is an innovative solution engineered by Praj to reintegrate the valuable flash vapor directly back into the liquefaction section. It is a highly efficient, closed-loop system that transforms wasted energy into essential process heat.

Benefits to Grain Distillery

Feature

Impactful Benefit

**Steam saving
(the core benefit)**

Direct steam reduction in liquefaction of **0.15 to 0.2 kg/lit of TS***



Water Reduction

- Up to **40% reduction** in liquefaction cooling water requirement
- Water reduction of **0.3 – 0.4 lit/lit of TS***



Continuous operation

Designed for **24/7** running with no additional manpower & maintenance beyond standard liquefaction operation



Std Engineered Model & speedy Execution

Ready to operate within **4 months**



Value Addition

Increases margin by **Rs. 0.25-0.3 per Litre** of ethanol



GHG reduction

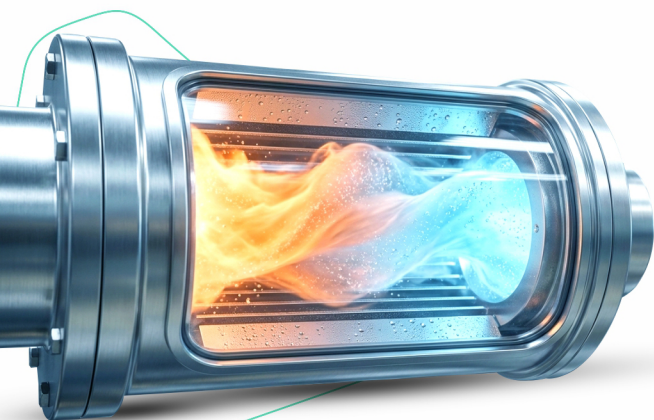
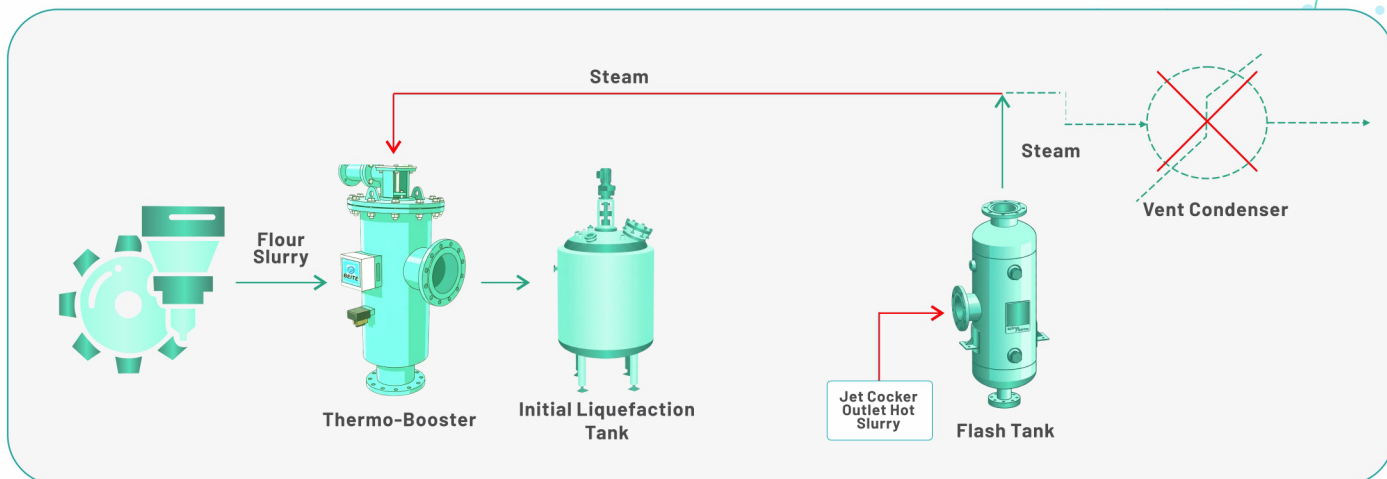
A powerful step toward a Reduce carbon footprint through significant energy and water conservation.



*Applicable only in case of jet cooker operation at 115-120 °C

How ecoliv Works?

ecoliv seamlessly integrates the flash vapor for slurry preheating using a simple yet robust mechanism in existing 2 tank or 3 tank liquefaction system:



ecoliv

Specially designed & engineered Thermo-Booster instantly integrates slurry & flash vapours. Slurry preheated without external heat & further stabilize in add-on agitated liquefaction tank for uniform cooking

ecoliv turns waste flash steam into reliable, free preheating energy.

ecoliv Models & Capacities

Model	Plant capacity	Price* in lakhs
ecoliv100	Upto 100 KLPD	153
ecoliv150	From 101 KLPD to 151 KLPD	189
ecoliv200	From 151 KLPD to 200 KLPD	216
ecoliv250	From 201 KLPD to 250 KLPD	243
ecoliv300	From 251 KLPD to 300 KLPD	279
ecoliv375	From 301 KLPD to 375 KLPD	297

Praj offers customized ecoliv solutions to perfectly match the capacity and specific requirements of your grain distillery.

*Prices mentioned are excluding civil, structure, & applicable taxes

*Price mentioned are with standard design conditions; exact prices will be confirmed as per actual plant conditions.

40+ Years of Expertise | 100+ Countries | 1000+ References

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