

REACTOR BASED MVR EVAPORATOR

SMARTER TECHNOLOGY FOR
ZERO LIQUID DISCHARGE



WATER
RECOVERY



ENERGY
EFFICIENT



LOW OPERATING
COST



RELIABLE
PERFORMANCE



INBUILT HEAT PUMP
No Steam Boiler Needed



COMPACT DESIGN
Plug & Play Solution



COST EFFECTIVE
As Low As 0.25 / Litre



HIGH QUALITY DISTILLATE
5 – 20 TDS Reusable

ABOUT US

Engineering Efficiency. Delivering Sustainability.

Established with a vision to deliver innovative, energy-efficient and sustainable solutions, **Lombardyne Industries Pvt. Ltd.** has evolved into a trusted name in the design, engineering and manufacturing of advanced thermal systems and process equipment.



Built on Experience. Driven by Innovation.

With over **25+ years** of rich experience, we specialize in HVAC systems, pressure vessels, heat exchangers, and reactor vessels. Our deep understanding of thermodynamics and process engineering enables us to deliver high-performance, reliable and customized solutions that help our clients save energy, reduce costs and achieve their sustainability goals.



Expertise

Decades of engineering excellence across thermal and process industries.



Innovation

Continuous R&D and advanced designs for energy-efficient and sustainable solutions.



Quality

Robust manufacturing standards ensuring reliability, safety and long service life.



Customer Focus

Tailored solutions and dedicated support for every application.



Global Reach

Proudly serving customers across India and 8+ countries worldwide.

“ Our mission is to engineer solutions that create value, conserve energy, and contribute to a cleaner and greener tomorrow. ”



MVR EVAPORATOR

ADVANCED TECHNOLOGY.
MAXIMUM EFFICIENCY.
SUSTAINABLE RESULTS.



KEY FEATURES



INBUILT HEAT PUMP

Recovers and reuses latent heat for maximum energy savings.



REACTOR TECHNOLOGY

Unique reactor design ensures high heat transfer and efficient evaporation.



LIQUID EFFLUENT TO SOLID CAKE CONVERSION

Concentrates beyond precipitation point to produce high quality solid cake.



NON-CHOKING DESIGN

Reactor based system prevents scaling and choking. Ensures continuous and smooth operation.



PLUG & PLAY SYSTEM

Compact, integrated and factory tested system for quick installation and hassle-free start-up.



NO RECIRCULATION PUMP

Eliminates recirculation pump, reducing maintenance, energy consumption and downtime.



ENERGY EFFICIENT • RELIABLE • SUSTAINABLE • BUILT TO LAST



LOMBARDYNE
INDUSTRIES PVT. LTD.



www.lombardyne.in

REACTOR TECHNOLOGY BEYOND LIMITS

EFFLUENT TO SALT & WATER – THE SMART WAY

REACTOR TYPE EVAPORATOR



CONCENTRATE BEYOND PRECIPITATION POINT

Maximum Recovery
of Salt & Water



NO RECIRCULATION PUMP

No Mechanical Seal,
No Leakage,
No Maintenance Hassle



NO CHOKING NO CLOGGING

Operate Continuously
Without Blocking

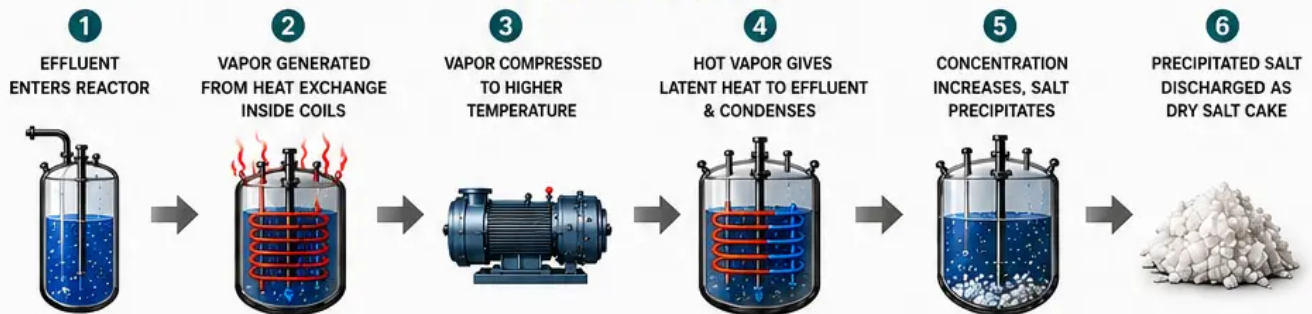


LOW ENERGY HIGH EFFICIENCY

Sustainable &
Cost Effective



• HOW IT WORKS •



NO RECIRCULATION PUMP
NO MECHANICAL SEAL
NO LEAKAGE • NO DOWNTIME

- ✓ NO SEAL FAILURE
- ✓ NO FREQUENT MAINTENANCE
- ✓ HIGH RELIABILITY
- ✓ LOW OPERATING COST



NO STEAM
BOILER
REQUIRED



LOW ENERGY
CONSUMPTION



COMPACT DESIGN
PLUG & PLAY



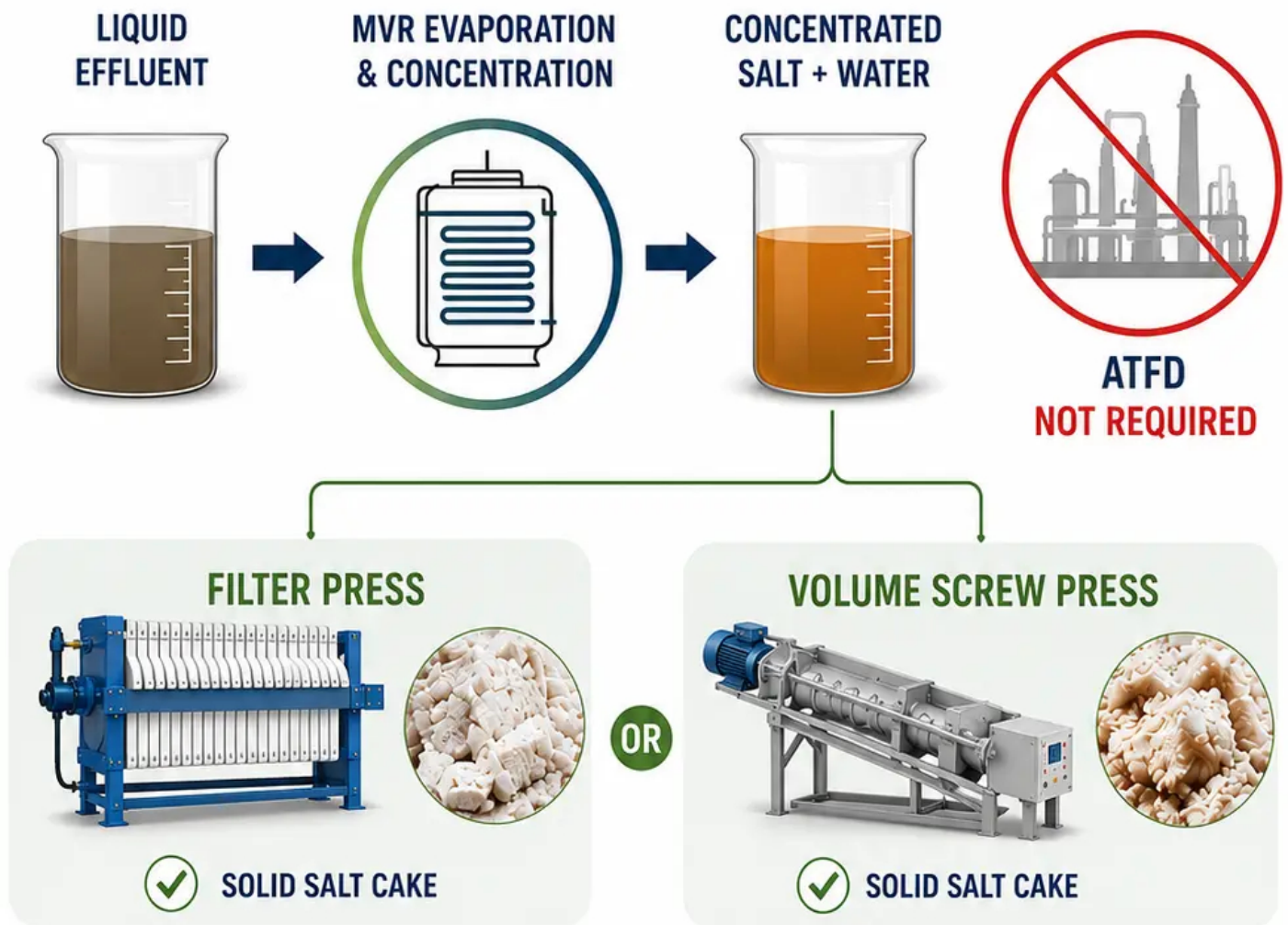
HIGH QUALITY
CONDENSATE



SUSTAINABLE
SOLUTION

MVR EVAPORATOR NO ATFD. DIRECT TO CAKE.

SMARTER. SIMPLER. MORE SUSTAINABLE.



NO ATFD

Save Energy.
Save Cost.



LOW OPERATING COST

Efficient &
Economical Solution.



SUSTAINABLE SOLUTION

Less Footprint.
Cleaner Future.



**EFFLUENT TO CAKE.
MADE EASY.**

MVR TECHNOLOGY

MAXIMUM RECOVERY. MINIMUM COST.



18 kW

OF ELECTRICITY ONLY
to evaporate 1 KL
of effluent



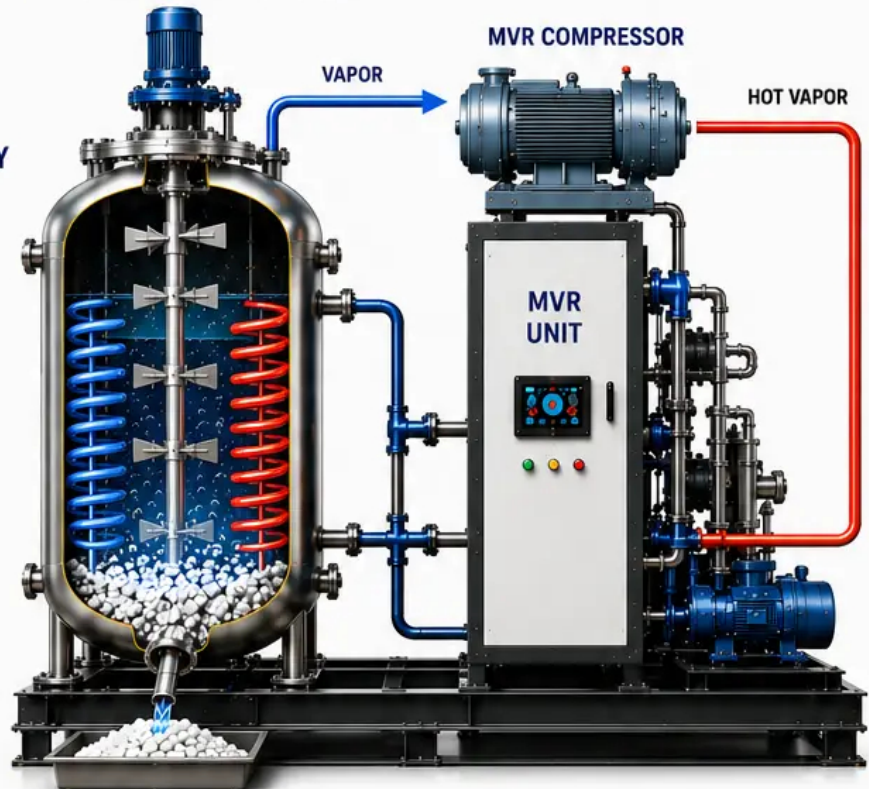
₹0.18
PER LITER

Total operating cost

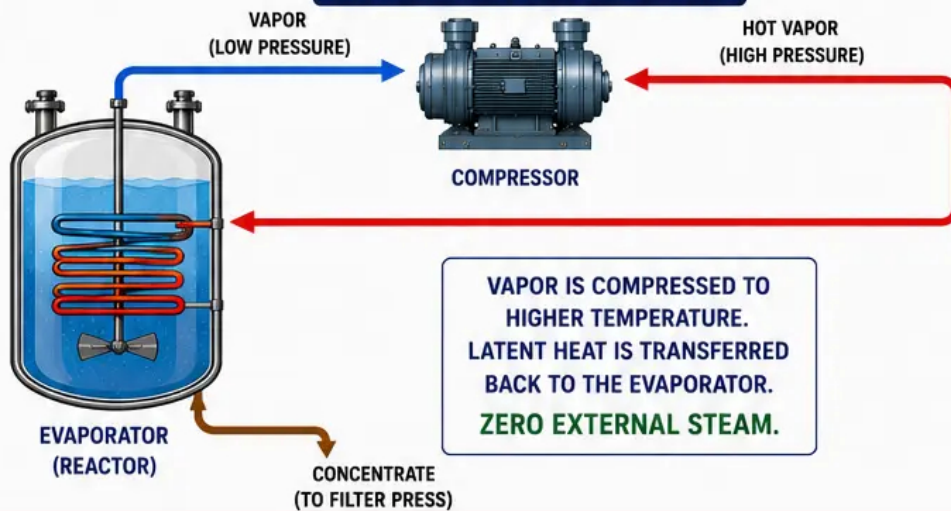


**LOW ENERGY
HIGH SAVINGS**

Sustainable & Eco Friendly



MVR LATENT HEAT CIRCUIT



DIRECT DRY SALT OUTPUT



**FULLY PRECIPITATED
SALT IN OUTPUT**



NO RECIRCULATION PUMP

NO MECHANICAL SEAL
NO LEAKAGE
NO DOWNTIME



RELIABLE OPERATION

- ✓ NO SEAL FAILURE
- ✓ LESS MAINTENANCE
- ✓ HIGH RELIABILITY
- ✓ LOW OPERATING COST



NO STEAM
BOILER
REQUIRED



LOW ENERGY
CONSUMPTION



COMPACT DESIGN
PLUG & PLAY



HIGH QUALITY
CONDENSATE



SUSTAINABLE
SOLUTION

INBUILT HEAT PUMP

**SMARTER TECHNOLOGY.
ZERO STEAM. MAXIMUM SAVINGS.**



NO STEAM BOILER

Eliminates steam boiler completely



LOWER OPERATING COST

Lowest energy consumption



ENERGY EFFICIENT

Maximum heat recovery with minimum power



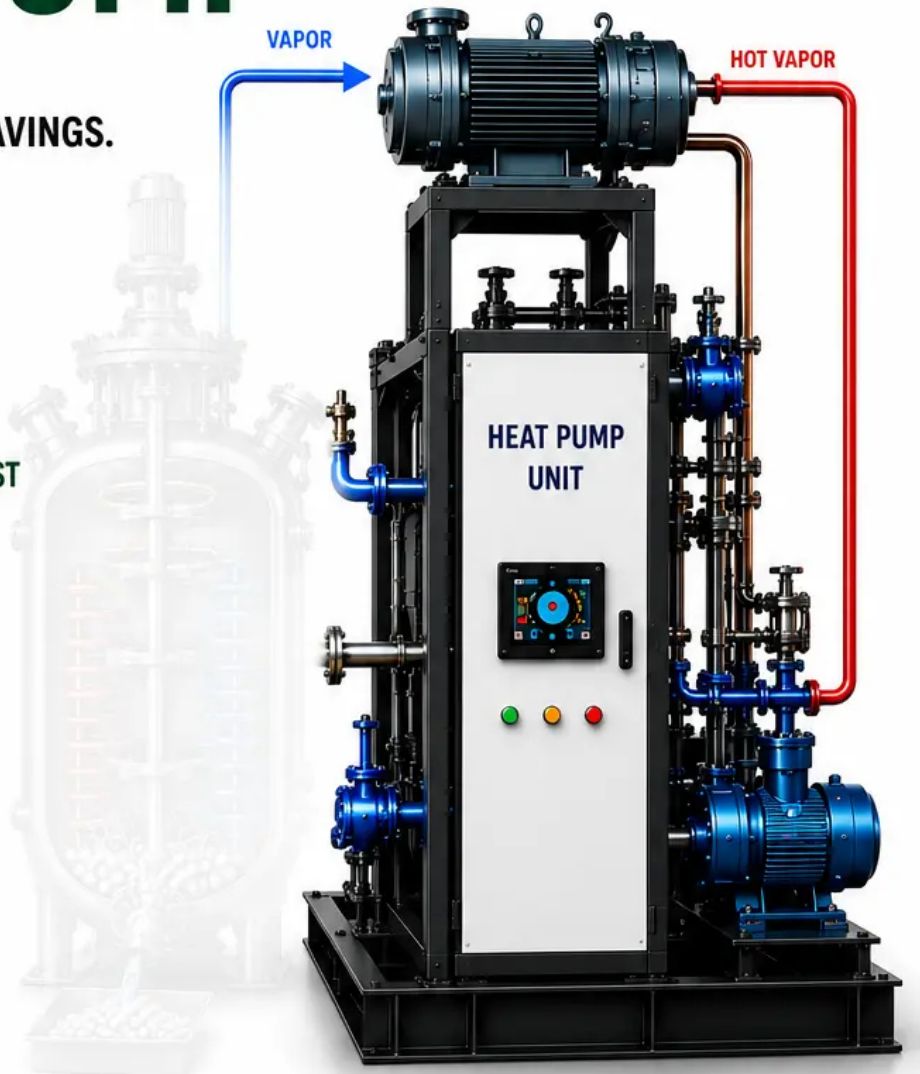
RELIABLE & SAFE

Fully automated system with safe operation



ECO FRIENDLY

Zero fuel. Low carbon footprint



WHY CHOOSE INBUILT HEAT PUMP?



ZERO FUEL COST

No fuel dependency
No price fluctuation



LOWEST OPEX

Up to 40–60% lower operating cost



EASY OPERATION

Fully automated
Plug & Play system



COMPACT DESIGN

Small footprint
Saves valuable space



HIGH RELIABILITY

Built for continuous
& safe operation



100% STEAM BOILER ELIMINATED

ZERO STEAM. ZERO WORRIES.

SMARTER TECHNOLOGY. ZERO STEAM. MAXIMUM SAVINGS.

EASY TO INSTALL. BUILT TO PERFORM.

PLUG & PLAY MVR EVAPORATOR

- ✓ Prefabricated & Pretested at our facility
- ✓ Just Lift, Connect & Operate
- ✓ Quick Commissioning, Minimal Downtime



100% PREFABRICATED
MODULES



QUICK & EASY
INSTALLATION



PRETESTED FOR
RELIABILITY



LOW MANPOWER
REQUIRED



FAST
COMMISSIONING

TAKES ONLY ONE-FOURTH OF THE SPACE

SPACE SAVING ~70%

CONVENTIONAL SYSTEM



100% SPACE

VS

MVR EVAPORATOR
(PLUG & PLAY SYSTEM)



ONLY 25% SPACE

70%

SPACE
SAVED

EASY, AS 1-2-3

1



LIFT & PLACE

2



CONNECT UTILITIES

3



POWER ON & OPERATE



ENGINEERED FOR
SIMPLICITY.
DELIVERED FOR
PERFORMANCE.



MVR EVAPORATOR

TECHNICAL SPECIFICATIONS

A complete range of high-performance MVR Evaporators designed to deliver maximum efficiency and minimum operating cost.



TECHNICAL CHART – ALL MODELS

MODEL NO. / CAPACITY 	INPUT LOAD KW/HR 	EFFLUENT INPUT FLOW RATE (LPH) 	EFFLUENT INPUT TDS RANGE 	CONDENSATE FLOW RATE (LPH) 	CONCENTRATE OUTPUT TDS 	DIMENSIONS (mm) 	WEIGHT (kgs) 
500 LPH	12	500	1500 - 130000	470	450000 - 600000	4000 L x 2000 W x 5500 H	11000
1000 LPH	18	1000	1500 - 130000	930	450000 - 600000	4500 L x 2500 W x 6000 H	14000
1500 LPH	27	1500	1500 - 130000	1390	450000 - 600000	4500 L x 2500 W x 6600 H	16000
2000 LPH	36	2000	1500 - 130000	1850	450000 - 600000	5000 L x 2800 W x 6500 H	22000
3000 LPH	54	3000	1500 - 130000	2800	450000 - 600000	5500 L x 3000 W x 6500 H	38000
5000 LPH	112	5000	1500 - 130000	4800	450000 - 600000	6000 L x 3500 W x 7500 H	52000



**WIDE CAPACITY
RANGE**
500 LPH to
5000 LPH



**HIGH TDS
CAPABILITY**
Handles up to
130,000 TDS



**ENERGY
EFFICIENT**
Low power
consumption



**COMPACT
DESIGN**
Smaller footprint
for easy
installation



**RELIABLE &
DURABLE**
Built for long-term
performance



Note: Specifications are subject to change without prior notice.

LPH: Litres Per Hour

TDS: Total Dissolved Solids

TRUSTED BY INDUSTRY LEADERS

Proud Clients of
LOMBARDYNE EVAPORATORS

OUR ESTEEMED CLIENTS



Deepak Group



Bajaj Group



Garware Hi-Tech Films



Hoerbiger India



Pfizer



Mahindra Group



Toyo Ink India



Mankind Pharma



Royal Embroidery Yarn



Cipla Limited



Proven
Performance



Reliable
Technology



Customer
Satisfaction



Long Term
Partnerships



At **Lombardyne Evaporators**, we are committed to delivering advanced, reliable and cost-effective evaporation solutions that help industries achieve **Zero Liquid Discharge (ZLD)** sustainably.

ENGINEERING SOLUTIONS
FOR A SUSTAINABLE FUTURE

AFTER-SALES SERVICE YOU CAN RELY ON

Lumbardyne MVR Evaporators
Performance. Reliability. Commitment.



**24 HOURS.
PROMPT SERVICE.
PEACE OF MIND.**



From **New Installations** to **Regular Maintenance**,
we ensure your MVR Evaporator runs at peak efficiency, always.



FAST RESPONSE

Quick support
whenever
you need us



EXPERT ENGINEERS

Skilled technicians
with in-depth
application knowledge



GENUINE PARTS

Reliable performance
with original
spare parts



ROUND THE CLOCK

24x7 support
to minimize downtime
and maximize uptime



**REPAIR &
TROUBLESHOOTING**



**PREVENTIVE
MAINTENANCE**



**NEW INSTALLATION
& COMMISSIONING**

OUR COMMITMENT



Minimize Downtime



Enhance Equipment Life



Ensure Optimal Performance



Build Long-Term Partnerships



ONE CALL. ANYTIME. ANYWHERE.

We are just a call away, 24/7, to keep your operations
running smoothly.

24/7 SUPPORT

| EXPERT CARE

| MAXIMUM UPTIME



Thank You!

For considering Lombardyne MVR Evaporators
as your reliable partner in sustainable solutions.

Cleaner Today.



Greener Tomorrow.

CONTACT US



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INNOVATE • SUSTAIN • EXCEL