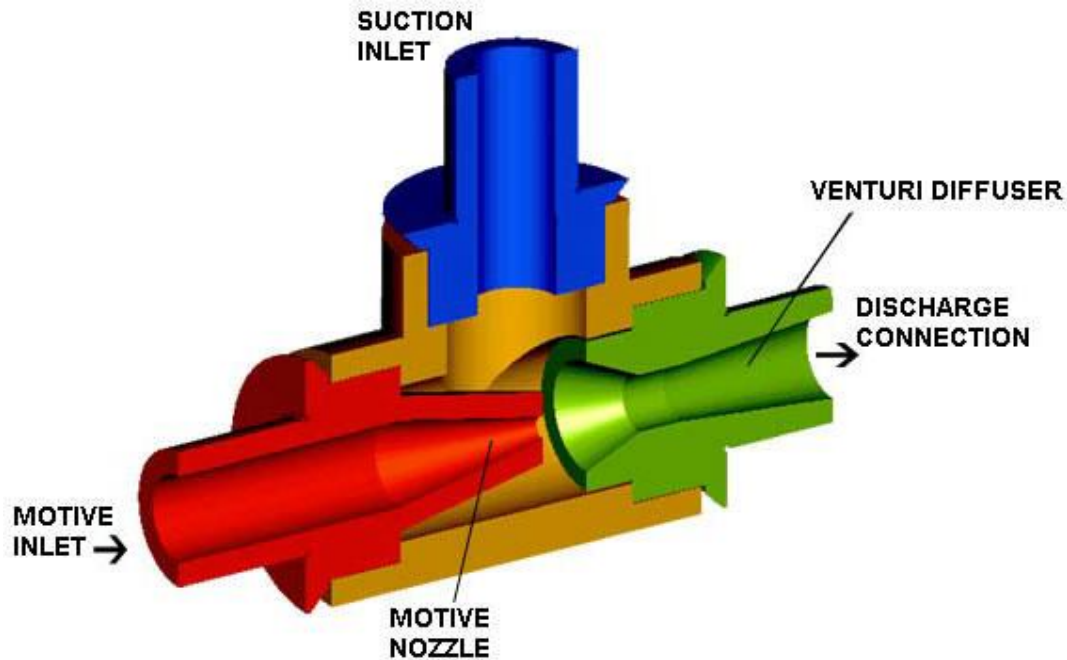


# Air Jet Eductor E400 Series



Primetech offers a range of MINI AIR JET EDUCTORS to cater to numerous industrial applications. These eductors are ideally suitable for places where only an air motive source is available or an application where a motive liquid cannot be considered.

**Principle of operation:** When the compressed air is passed through the eductor motive nozzle, the pressure energy of air is converted to high velocity energy. High velocity air passage through nozzle results in vacuum build up at the eductor suction inlet. The high vacuum developed at the eductor suction inlet, enables the intake of suction liquid in to the eductor. The sucked liquid is mixed with the motive air stream and the air + liquid mixture passes through the venturi throat and diffuser. At the venturi diffuser, the velocity energy is converted to pressure energy.

## Application

- Suction and clean up of liquid spill.
- Pumping out & draining a sump.
- Extracting liquid sample from process.
- In house, test bench vacuum source

## Eductor construction & Material of construction

Air jet eductor is assembled out of machined components with threaded / male end connections (std. pipe threads BSP). Various materials can be employed for the air jet eductor depending on the type & nature of liquids being pumped.

### Available material of construction

- Steel
- SS 304
- SS 316
- Monel
- Hastalloy C
- Titanium
- PVC
- Polypropylene
- Teflon, etc.

## Dimensions table – E 400

Model	Eductor Size mm	Dimension – mm							
		A	B	C	D	E	F	G	
E400.25	6	25	30	50	80	3.2	6	6	
E400.5	15	32	32	53	90	6	12	12	
E400.75	20	42	95	80	120	12	20	20	
E401.0	25	48	45	95	140	20	25	25	

## Performance data for a standard, 25 mm – E401 – Air jet eductor

- 6 Kg/cm<sup>2</sup>(g) – Motive air pressure
- Atmospheric discharge pressure
- Suction fluid water @ 27 °C
- Motive air flow rate – 150 Nm<sup>3</sup>/hr

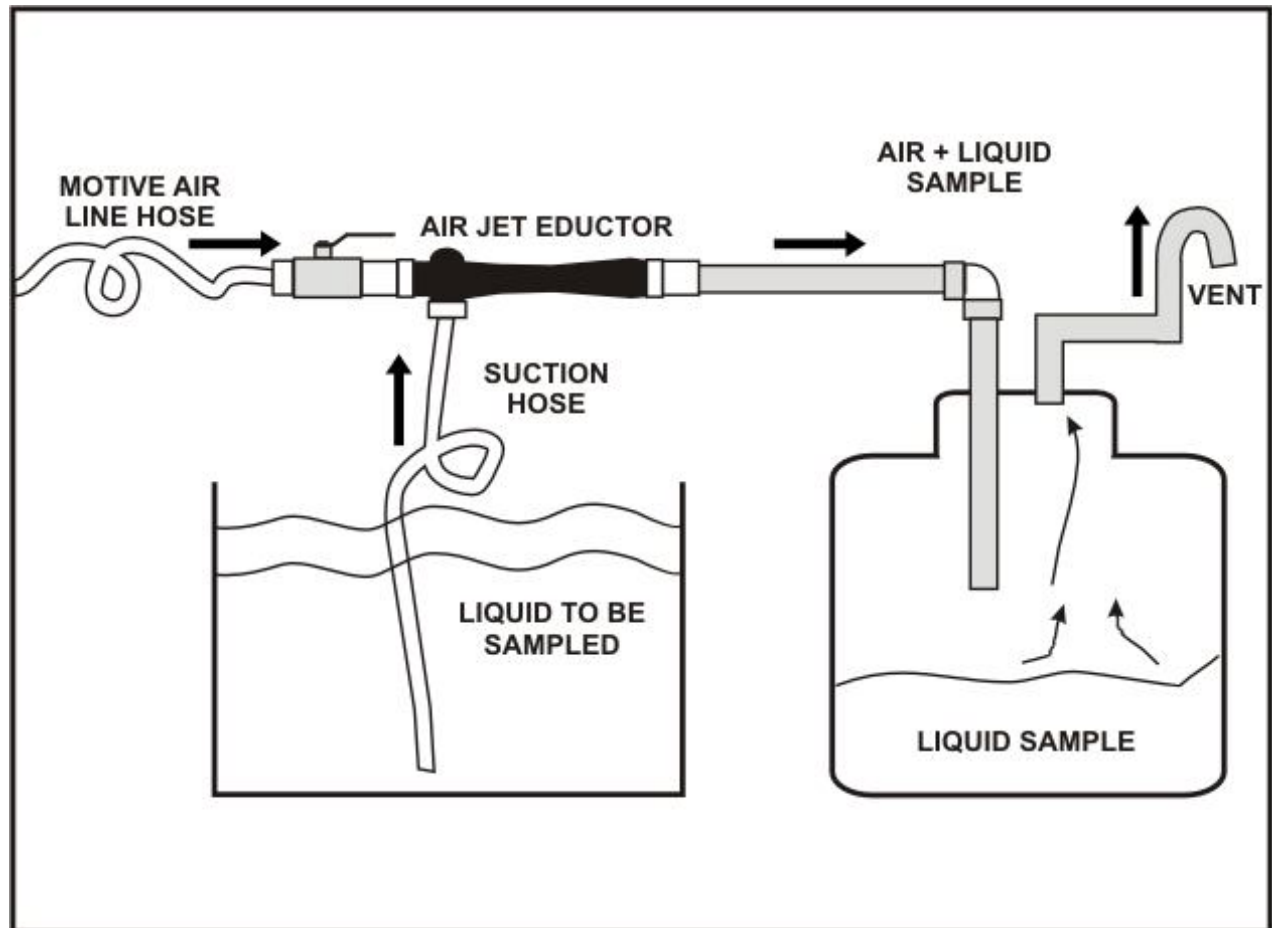
Suction Lift – m	1.0	2.0	3.5	4.0	5.0	6.0	7.0	7.5
Suction flow LPH of Water @ 27°C	220	180	150	130	95	75	55	45

## Air Jet Eductor Capacity Ratios

EDUCTOR SIZE	6	15	20	25
CAPACITY RATIO	0.06	0.25	0.56	1

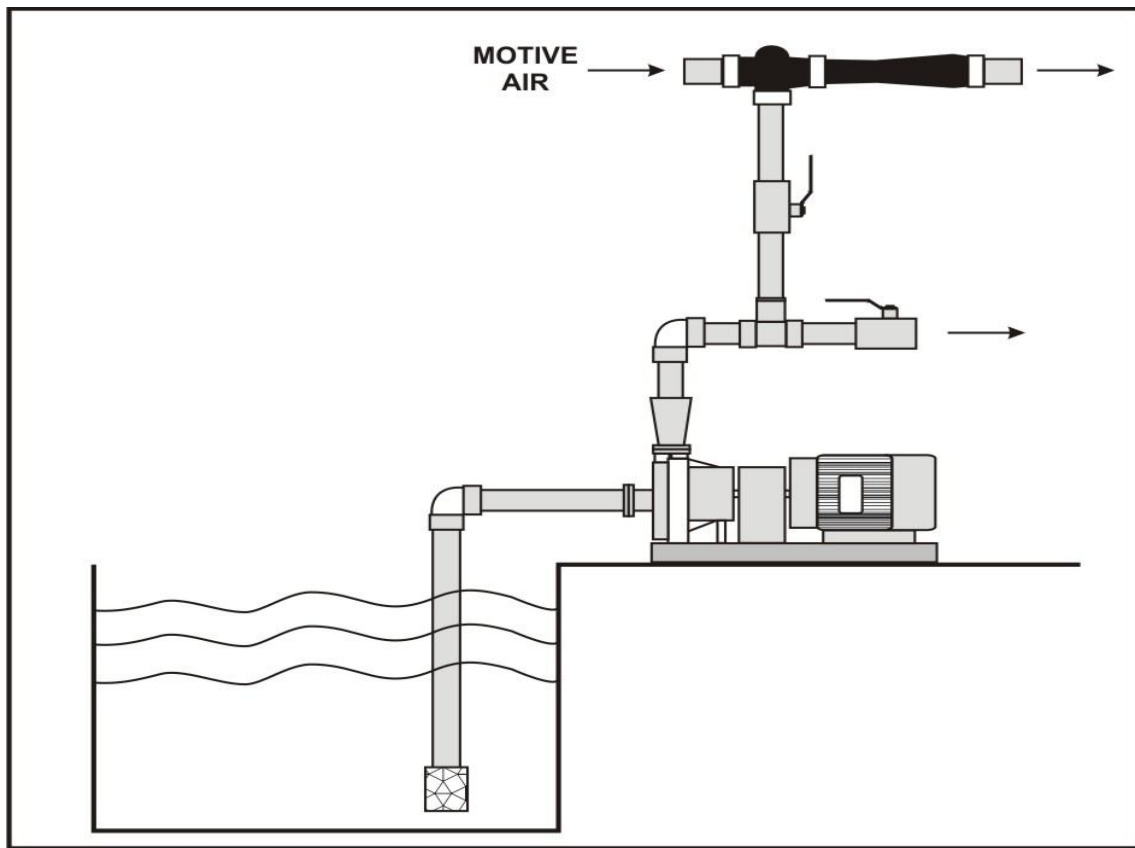
**Note:** For your enquiry please fill in the questionnaire for us to Select a suitable air jet eductor.

## LIQUID SAMPLING

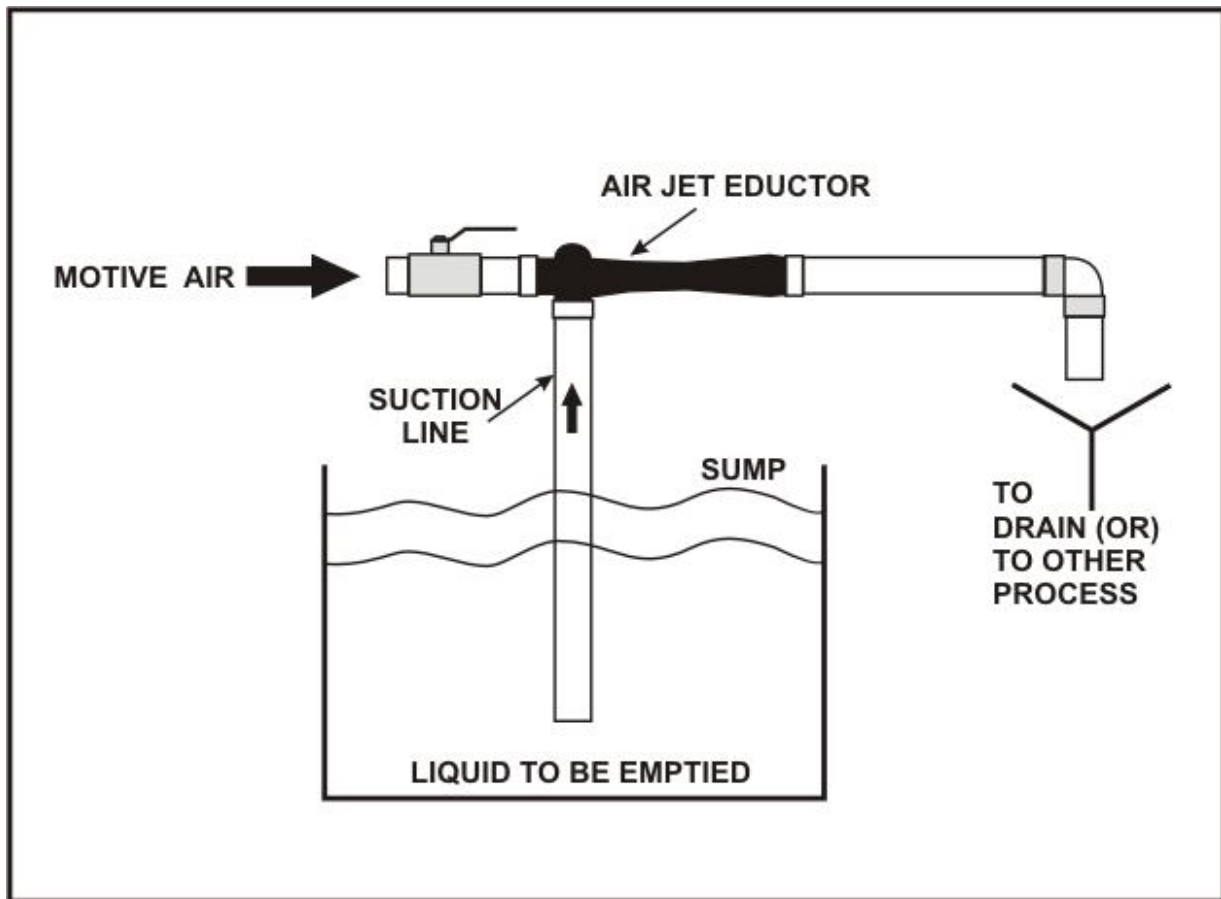


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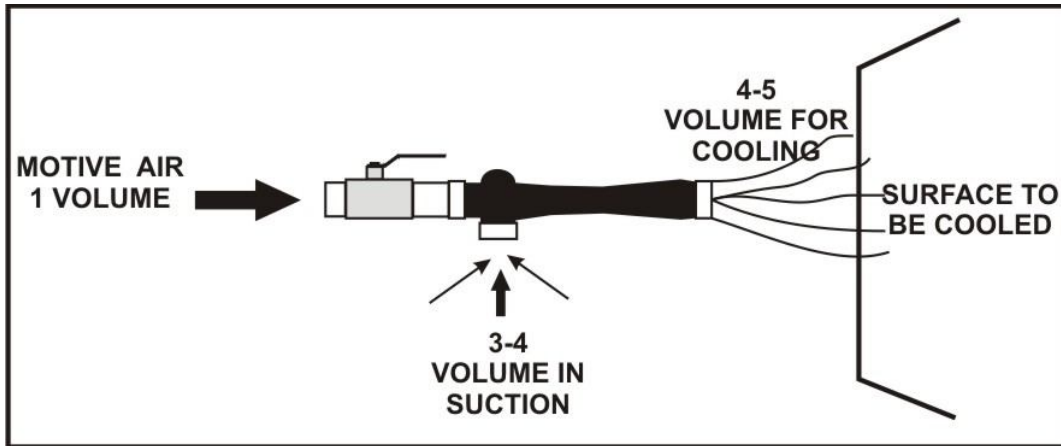
**EVACUATION OF SUCTION LINE OF CENTRIFUGAL PUMP FOR PRIMING**



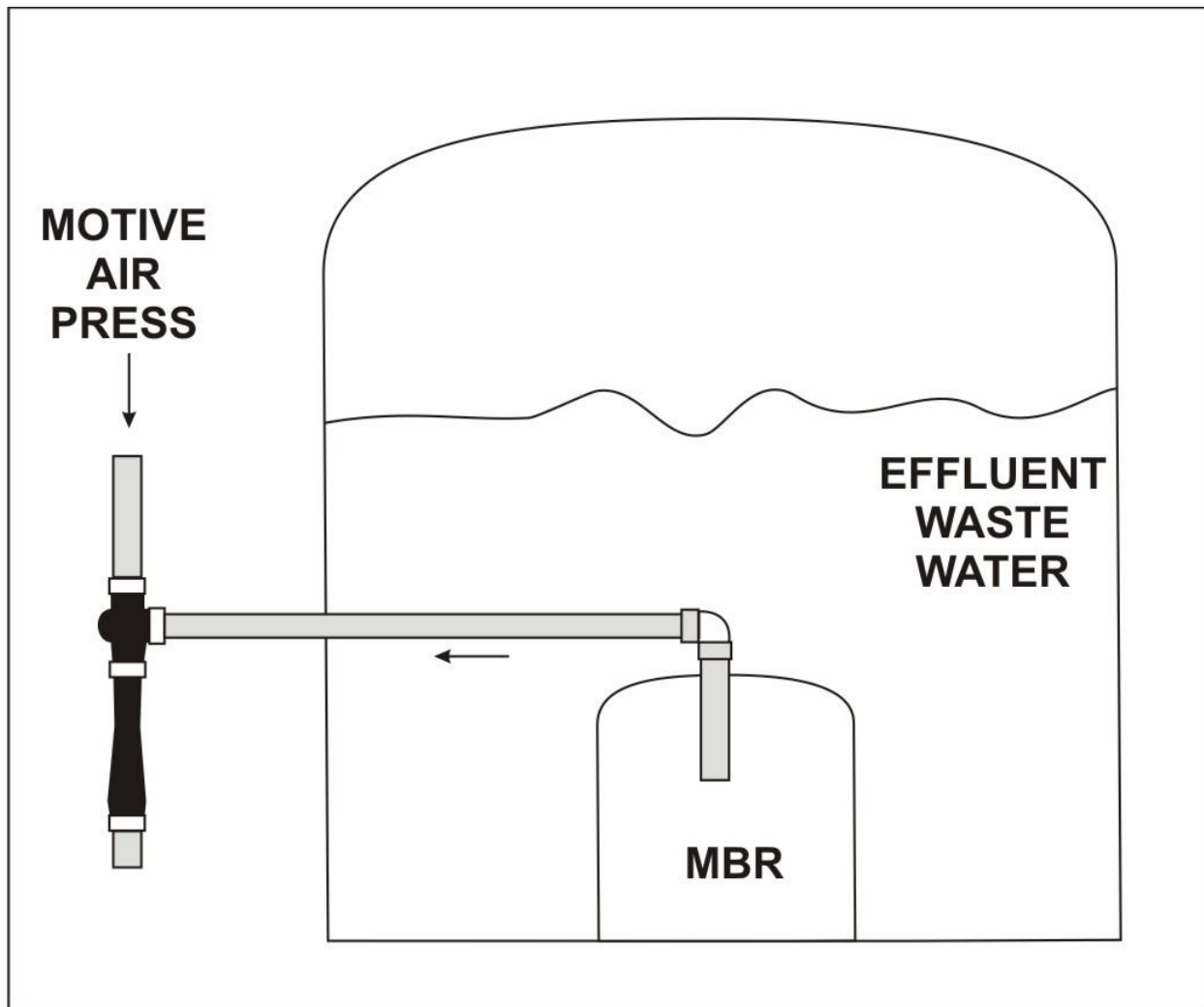
**SUMP EMPTYING**



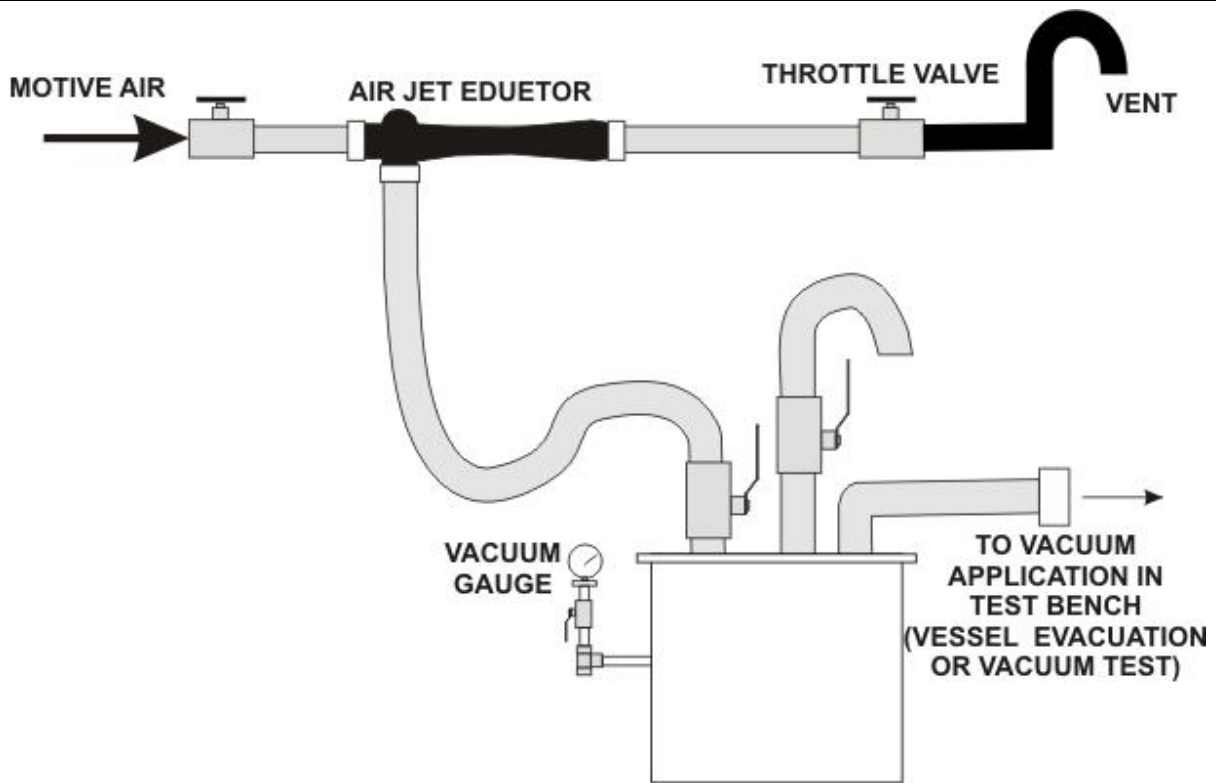
## POWER & COST SAVING AIR JET BLOWER ( AIR JET COOLERS)



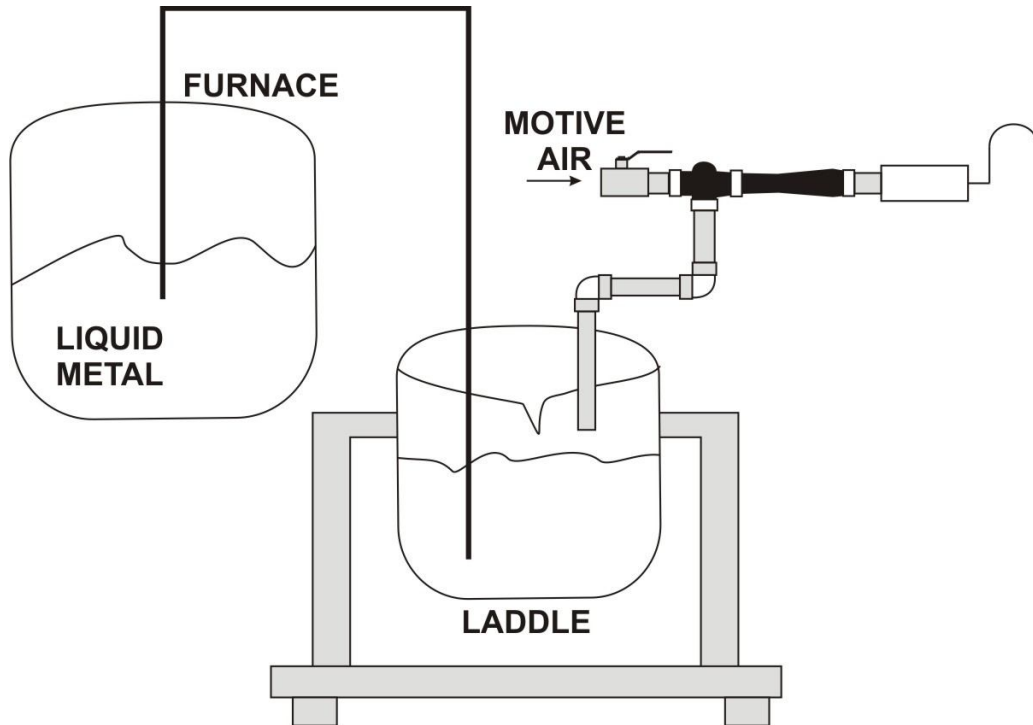
## EVACUATION IN MEMBRANE BIO REACTORS



## TEST BED VACUUM SOURCE



## LIQUID HOT METAL TRANSFER



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