



shailvac
Preserving the 'Tree of Life'



Vacuum Systems



37+

Years of Experience

300+

Clients Using our
Vacuum Systems

30+

Countries

10,000+

Vacuum Systems
Supplied

0.3 Torr

Vacuum Systems
Achieving Vacuum upto



Designing and Supplying Vacuum Systems for various
chemical applications globally.

Ejectors

Carrying an enormous experience in the field of vacuum for more than over 37 years, Shail Vac has been designing and manufacturing the best in kind vacuum systems for all segments of Process Industries. At Shail Vac, we take utmost care in designing and manufacturing ejectors so that our customers get a reliable and performance oriented vacuum systems. With immense dedication and modern manufacturing facilities, Shail Vac has become a leading name in the field of vacuum by solving most of the challenging process requirements.

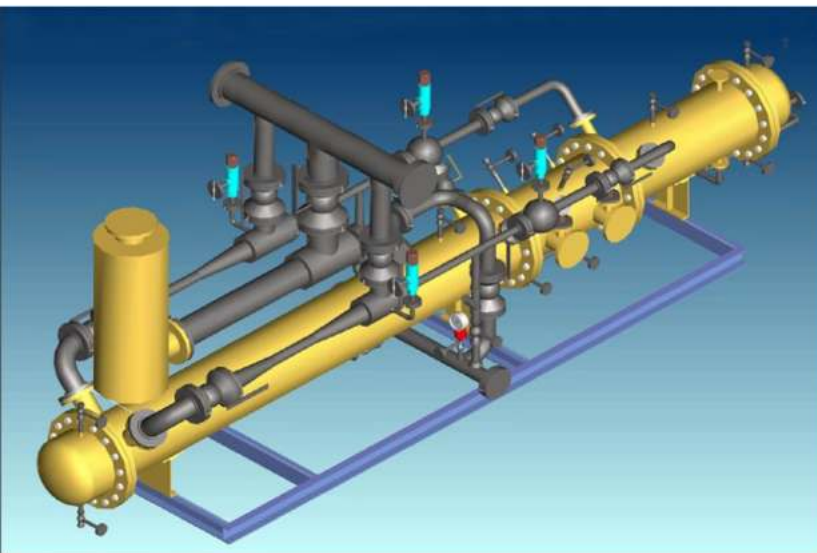
Our commitment to quality and customer satisfaction has helped us establish ourselves as a trusted supplier of Vacuum Ejectors, with a robust client base that includes some of the world's leading companies in the chemical, pharmaceutical, food processing industries etc.



Liquid Jet Ejectors

In a liquid Jet Ejector, the motive fluid is a non-compressible liquid (generally water) with no heat energy hence with a single stage centrifugal pump we can not increase its pressure much.

As a result motive fluid velocity at the nozzle tip is very less and it affects its non-condensable load handling capacity drastically.



Steam Jet Ejectors

In a liquid Jet Ejector, the motive fluid is a non-compressible liquid (generally water) with no heat energy hence with a single stage centrifugal pump we can not increase its pressure much.

As a result motive fluid velocity at the nozzle tip is very less and it affects its non-condensable load handling capacity drastically.



Combination of Both

In this type of ejector system, both Liquid jet and Steam jet Ejectors are employed simultaneously to produce low absolute pressure.

The suction of Liquid Jet Ejector is connected to the discharge of last stage of the steam jet ejector.





Single Nozzle Ejector

- Single Nozzle ejectors can be used for either critical or non-critical flow, but usually preferred for one set of design conditions only.
- Its compact size is the main advantage of the single nozzle ejector.
- It is generally used where very large compression ratios are required.

Multi-Nozzle Ejectors

- The uniqueness of Shail Vac's multiple nozzle ejector is in its design and performance.
- A multiple nozzle ejector usually has one nozzle on centre while remaining of the nozzles equally spaced peripherally around it.
- In most of the cases, multi nozzle ejectors designed for the same conditions usually reduce steam consumption by 10% to 15% as compared to Single Nozzle Ejector.
- The advantage of multiple nozzle ejectors is its much higher efficiency compared to single nozzle ejectors.
- It is also considerably shorter in length than an equally rated single nozzle ejector.



Advantages of Ejector Systems

Ejectors can be operated with different motive fluids, viz. steam, air, organic vapour, other gases and their mixtures.

- No moving parts, hence simple, reliable, rugged, trouble-free, simple maintenance requirements
- Low investment costs, low maintenance costs, long life
- Can handle corrosive and slugging liquids, solid and abrasive suction fluids without damage
- Can be manufactured in suitable materials for extremely corrosive flows
- Resistant to pollution by process flows
- Explosion proof construction. Ejectors can be installed indoors or outdoors with versatile mounting design
- Can handle high volumes of suction fluid at low absolute pressures. Shail Vac has built multi-stage ejectors to handle volumetric flows upto 40,00,000 m³/hr at 100 microns.
- Absolute suction pressures down to 0.01 mbar





Vacuum Division

- Steam Jet Ejectors
- Liquid Jet Ejectors
- Gas Scrubbers
- Steam Jet Refrigeration Plants
- Air Evacuation Systems for Power Plants
- Adiabatic Flash Cooling Crystallizers

ZLD Divison

- Single Effect Evaporators
- Multiple Effect Evaporators
- Forced Circulation Evaporators
- Falling Film Evaporators
- MVR Evaporators
- Evaporators with TVR
- Oslo Type Evaporators
- Stripper Columns

Overseas EPC Projects

- Edible Oil Refineries
- Detergent & Soap Plants
- Pharmaceutical Plants
- Agro Chemicals
- Dyes & Intermediates Plants
- Warehouse & Storages

Specialized Equipment Fabrication

- Heat Exchangers
- Oil Coolers
- Reactors & Coolers
- Pressure Vessels

Defense

- Heavy Lift Drones
- Medium Lift Drones
- Surveillance Drones
- Tethered Drones
- Loitering Drones
- Fire Fighting Drones
- Agri Drones



Design and Engineering Head Quarters

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