

VAPORIZERS

IEC'S steam heated bayonet vaporizer is a superior designed chemical evaporation system with critical safety interlocks to ensure safe vapor production for process requirements on demand. The design and manufacture of the steam heated bayonet vaporizer meets the requirements of international codes and standards for liquid vaporization.

The superior design enables compact foot print of the system while assuring stable operation with efficient heat transfer. IEC FABCHEM provides complete system support from liquid withdrawl from source and gas injection at the point of process interface.

PROCESS DESCRIPTION

The process liquid inlet is connected to the bottom of the vaporizer, the liquid rises to contact sufficient surface to meet the vapour demand rate. After evaporation, the vapour rises through the baffle for super heating and the superheated gas leaves from the outlet.

The vaporizer self- adjusts liquid level according to the vapor withdrawal flow rate at the outlet of the vaporizer. Range ability of the system is 10-100% of capacity. The steam condensate from the vaporizer is drained through a bottom nozzle connected to the thermodynamic trap.

CONSTRUCTION

IEC steam heated bayonet vaporizers are offered in various MOC such as Carbon steel, Stainless Steel, and speciality alloys such as Monel, Hastelloy and Inconel grades.

MOC of the vaporizers will be selected based on the chemicals vaporized.

- Chlorine
- Ammonia
- Sulfur-di-oxide
- Hydrogen sulfide
- Bromine
- Sulfur Tri-oxide
- Di-methyl amine
- Tri-methyl amine
- Tri-fluoro acetyl chloride
- Silicon Tetrachloride
- C3-C6 hydrocarbons (Including LPG)
- And other liquefied gases

Each system is designed, fabricated, pre-piped, pre-assembled, pre-wired, and pre-tested in a skid and ready to hook-up at site with minimum installation time.

VAPORIZER

VERTICAL STEAM HEATED BAYONET VAPORIZERS

Compact & Customable.
High Design Pressure.

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EASE OF INTERNAL INSPECTION & CLEANING

The internal and external surface of the bayonet vaporizing chamber can be easily inspected during servicing which is a unique feature of the design. Ease of cleaning is an added advantage to remove the sediments.

DESIGN FEATURES

The unique bayonet (tube in tube) construction provides key benefits over conventional vaporizers.

- 01** Low holdup volume for safety
- 02** Ease of Capacity control
- 03** Design flexibility to achieve super heat.
- 04** Built-in gas station with Manual or Auto pressure control system
- 05** Custom designed system with Relay based LCP or PLC or Interface facility for Customer's DCS
- 06** IP 54 & IP 65 or Flame Proof – Panel and instruments according to zone classification.

Safety Interlocks

- ⌚ Interlocks for prevention of liquid flooding in gas outlet.
- ⌚ Interlocks for steam failure and pressure relief system.
- ⌚ Interlocks for low pressure in heating media,
- ⌚ Interlocks for High pressure in gas outlet.



**DESIGNED TO ACHIEVE
SUPER HEAT**

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SYSTEM CAPACITY RANGE

SBV SERIES OF VAPORIZERS

MODEL	CAPACITY kg/hr
SBV – 0.5	50
SBV – 1	100
SBV – 2	200
SBV – 3	300
SBV – 4	400
SBV – 5	500
SBV – 7	750
SBV – 10	1000
SBV – 15	1500
SBV – 20	2000
SBV – 25	2500
SBV – 30	3000
SBV – 35	3500
SBV – 40	4000
SBV – 45	4500
SBV – 50	5000

* Customized models available for capacities over 5000 kg/hr

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compact foot print
Ease of Capacity control.



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**Low holdup volume
for safety**



IEC FABCHEM LIMITED

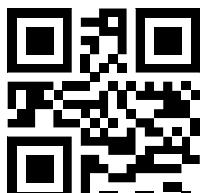
+91 4467901111

+91 9789635755

+91 7550013258

marketing@iecfabchem.in

www.iecfabchem.in



Office Address

K-32b, Sipcot Industrial Complex,
Gummudipoondi, Tamil Nadu, India.
Pin: 601 201,