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Liquid Vaporizers from the World Leader
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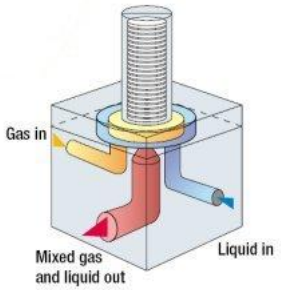
Mixed Injection System Liquid Vaporizers



By using the gas-liquid mixture vaporization method, this enables stable vaporization of high boiling point liquids.

Injection method

The following are the major steps involved in vaporizing a liquid source and supplying it to the process chamber:

1. The liquid source's flow rate is measured and the amount of liquid is fed back and controlled by the valve.
2. The liquid is instantaneously and completely vaporized.
3. The gas is released without being allowed to condense back into its liquid form.

Vaporization systems that use the injection method sequentially carry out steps 1, 2, and 3. The MI/MV series use a liquid mass flow meter for measurement, combined with a mass flow controller that introduces a carrier gas into the unit to vaporize the liquid source.
Since the pressure of the carrier gas is higher ahead of the nozzle inside the injector, it can be heated efficiently. The liquid source and the heated carrier gas are mixed together in the gas/liquid mixing area in front of the nozzle, as this mixture passes through the nozzle the pressure is reduced causing the mixture to vaporize.

Features

- ✓ The gas-liquid mixture vaporization method enables stable vaporization of high boiling point liquids.
- ✓ Compact design allows for easy integration.
- ✓ Vaporization efficiency is higher than with traditional vaporization methods.
- ✓ Larger flows can be generated.
- ✓ Vaporization temperature can be reduced.

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