

## Microfilm™ Cooker / Indirect Condenser Conversion

### Description

The indirect condenser vacuum system is a skid mounted unit which uses re-circulated cooling water to condense the flashed off vapour from the Microfilm™ cooker. This system is more energy efficient than standard direct condenser systems as it uses substantially less process water.

The system comprises a shell and tube condenser, vacuum pump, vapour separator and cooling service water heat exchanger mounted on a common skid complete with the necessary electrical controls housed in a control panel. Main materials of construction are stainless steel.

In a direct condensing system, the spray water can be contaminated with materials caught up in the vapour which, when recycled, can lead to a build-up in the cooling water. With an indirect condensing system, the cooling water does not come into contact with the vapour, therefore avoiding the risk of contamination. The water is recycled resulting in minimal water consumption.

The indirect condenser system can be added to existing installations as an upgrade package.

**Save process water and energy with an indirect condenser**

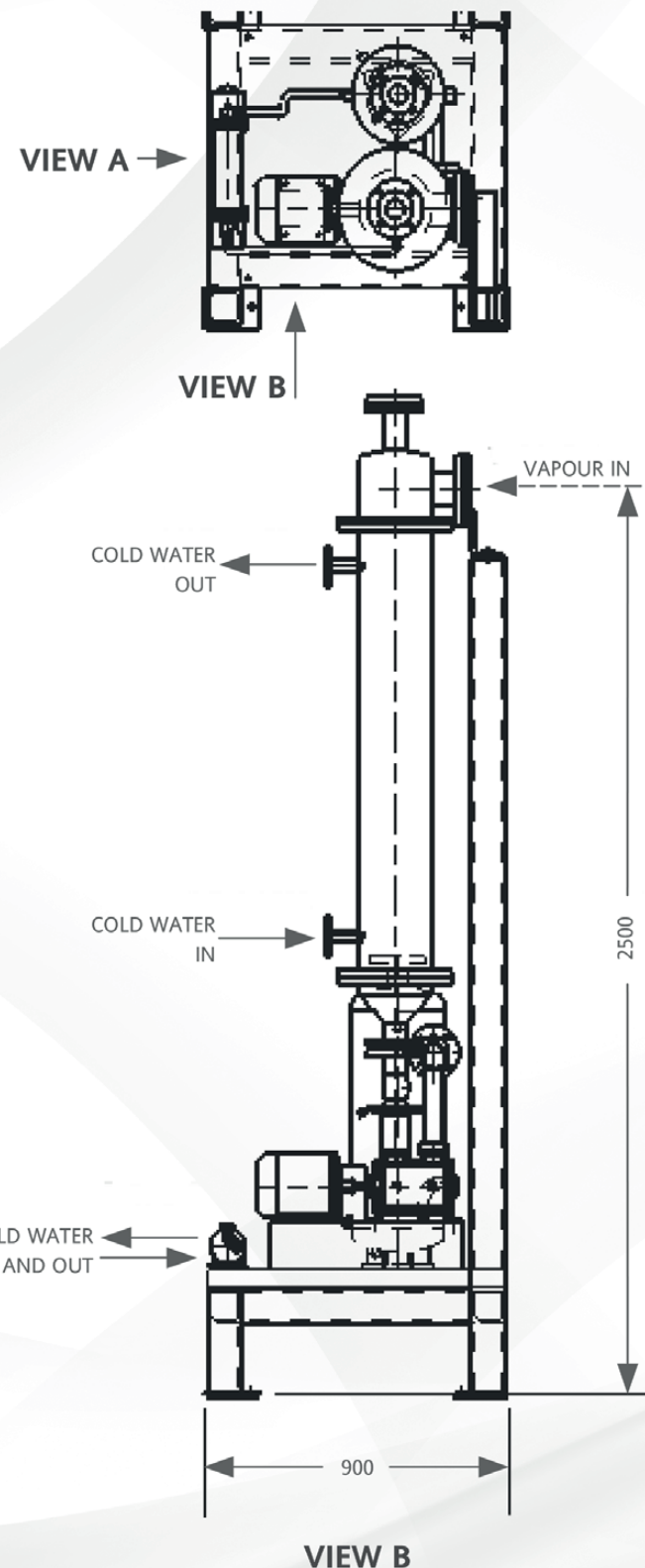
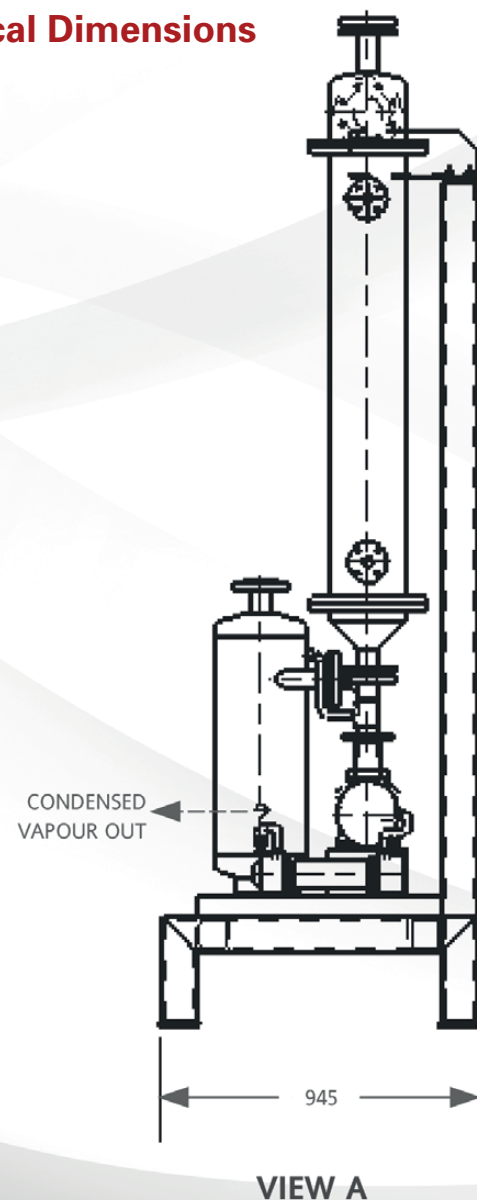




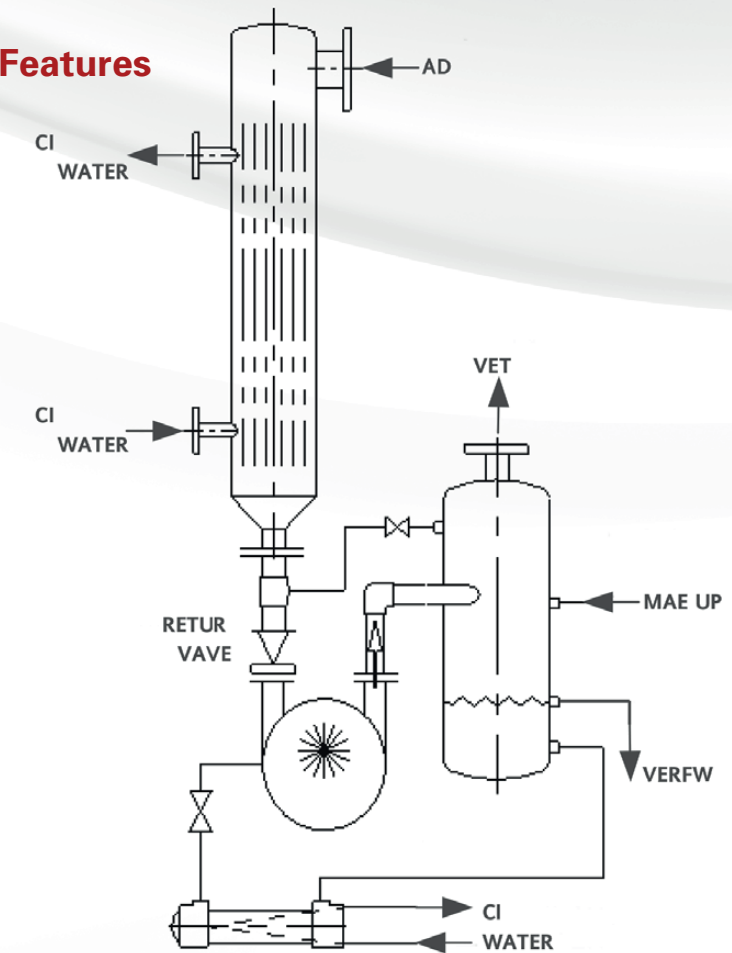
### Plant Upgrade

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##### Typical Dimensions



##### System Features



##### Services (Typical 1000 kg/hr capacity)

- **Power:** 1.1 Kw
- **Cooling Water Heat Exchanger:** 25°C at 1.5 m<sup>3</sup> /hr
- **Cooling Water Re-circulated:** 25°C at 8.5 m<sup>3</sup> /hr to client's service system
- **Overflow Water:** 80 kg/hr to drain

##### Shipping specifications and access requirements

- **Weight:** 350kg
- **Case Dimensions:** 945mm L x 900mm W x 2600mm H