

# OSS

## Wort Aeration System



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The Wort Aeration System OSS is an in-line system for the accurate and continuous aeration of wort.

The full automatic system measures and controls the content of Oxygen. For the super saturation of oxygen the dosing is controlled by the ratio of wort to air. The unit can be equipped with a complete air treatment like sterile filter, particle filter and oil-and water interceptors.

Due to its compact and modular design, it can be easily integrated into any existing plant system. The air pressure is set by a stainless steel pressure control valve so that the air mass flowtransmitter works in the calibrated range and the modulating valve with constant conditions. The quantity of air is sterilized in the sterile filter, measured by a mass flow meter and set by a pneumatic control valve. In the venturi nozzle wort and air are mixed together. The venturi effect enables a very fine and homogeneous spreading of the air in the wort. The solubility of oxygen in the wort depends on pressure and temperature. Thus the Centec venturi nozzle is designed according to it in order to guarantee a perfect solution of oxygen. The optional oxygen measurement reaches an accuracy better than 1% within a measurement range between 100ppb and 50ppm. Venturi nozzle and pneumatic control valve are always integrated in the CIP of the wort pipe. The system can be combined with a yeast pitching system or integrated into an existing PLC system.

## Technical Data

<b>Capacity</b>	10-3000 hl/h
<b>Diameter</b>	DN25 – DN150
<b>Temperature</b>	2°C – 95°C
<b>Measuring and Control Range</b>	0 – 50 ppm
<b>Cleaning</b>	CIP up to 85°C
<b>Material</b>	1.4301 / 1.4404 / AISI
<b>Gasket / Sealing</b>	EPDM
<b>Optional</b>	Oxygen Measurement Booster Pump Remote Access Kit

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