EXTRACT AND EVAPORATION MONITOR

RHOTEC EVAP VZ

Hot Wort Density, Extract and Evaporation Rate Online

RHOTEC EVAP VZ continuously measures hot wort density with high accuracy. Using a polynomial specific to the liquid, the sensor determines concentration in °Plato or percent extract.



Extract
Continuous determination in hot wort.

Evaporation Rate
Determined online from the increase in concentration.

Integrated Cleaning
Rinsing after each brew to prevent drift.

Measuring Principle

Density measurement is based on the oscillating U-tube principle. Continuous measurement of the increase in concentration also determines the evaporation rate. This allows wort boiling to be controlled according to the required total evaporation.

Applications

- Hot Wort
- Brewhouse
- Extract
- °Plato
- Total Evaporation
- Wort Boiling
- Brewhouse Yield
- Process Control

Concentration determination provides the basis for online evaporation measurement and is preferable to volumetric measurement.

Technical Data

Technical data for selection and integration.

PARAMETER	RHOTEC EVAP VZ
Measuring Ranges	0 - 3 g/cm³ 0 - 30 °Plato 0,1 - 10 % VZ
Accuracies	± 0,0001 g/cm³ ± 0,03 °Plato ± 0,05 % VZ
Total Evaporation Accuracy	≤ 0,1 %
Response Time	≤ 1 s
Operating Pressure	max. 16 bar
Operating Temperature	+80 to +110 °C (Pt1000)
Material	1.4404 / 1.4435 / AISI 316L; Hastelloy
Input	1 x analog (4 - 20 mA) & 6 x digital (24 VDC)
Output / Fieldbus	2 x analog (4 - 20 mA) & 3 x digital (24 VDC) optional: PROFIBUS DP & PROFINET
Enclosure Rating / Supply	IP65 / 24 VDC

Extract in the Brewing Process

Highly accurate continuous determination.

Evaporation Online

Determination of VZ from the increase in concentration.

Hygienic Design

Various materials and flange connections.

Design & Integration

We support you with the project-specific selection and integration of the **RHOTEC EVAP VZ** - from measuring range and installation position to process connection and interfaces.

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