

# BUCKAU-WOLF VACUUM PANS WITH HONEYCOMB CALANDRIAS

In comparison to the traditional design of tubular heating chambers, Honeycomb Calandrias provide approximately 25 % more heating surface at the same given space requirements. Deposition areas on the upper side of the chamber are reduced by about 75 %.

## Customer benefit

- The optimum chamber design ensures homogeneous crystal growth and improved CV values (coefficient of variation) in the massequite
- Minimized flow deflection losses, dead zones and local overheating
- Optimum flow conditions ensure homogeneous liquor. The agitator requires less energy
- Saving of energy during steam cleaning of the vacuum pan
- Capacity expansion due to shortening of the boiling time at constant steam quality or energy



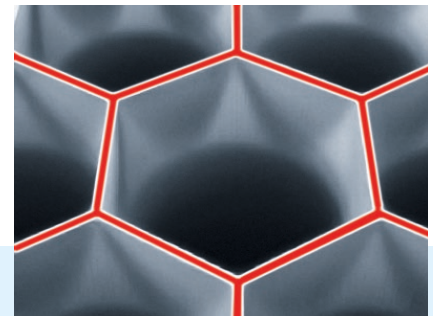
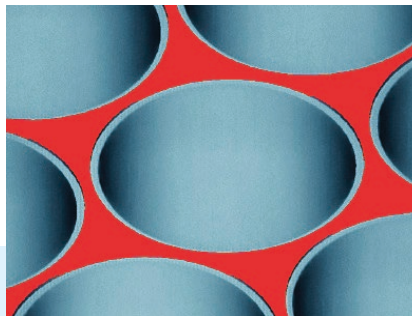
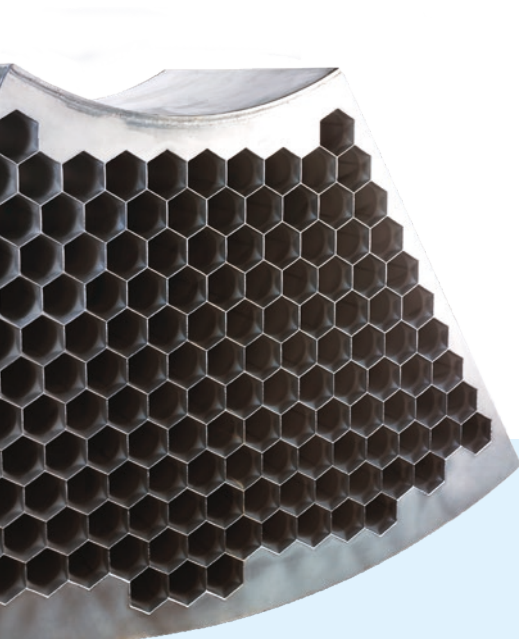
saving due to reduced steam quality at constant boiling times; the surplus energy thus arising can, for example, be used for electricity generation

## Retrofit economic efficiency

- Buckau-Wolf honeycomb segments are supplied ready for installation
- Retrofitting into existing systems with, for example, ribbon, lenticular

or tubular calandrias without any modifications of the regulating devices, piping, process equipment and buildings

- Increase in efficiency of the existing equipments by means of an enlargement of the heating surfaces by up to 25%
- Low maintenance expense and long service life



**Cane Sugar**

		Old system Tubular calandria	Buckau-Wolf System Honeycomb Calandria
Diameter of device $\varnothing = 5.600$ mm			
Vapour stage		V1	V2
Steam pressure	mbar	500	200
Steam temperature	°C	116	106
Magma colour	IE	3.000	1.745
Boiling time	h	2,7	2,2

**Beet Sugar**

		Old system Tubular calandria	Buckau-Wolf System Honeycomb Calandria
Apparat $\varnothing = 4.300$ mm			
Vapour stage		3	4
Steam pressure	mbar	610	152
Steam temperature	°C	113,5	103,6
Steam flow rate	t/h	8,63	8,03

**Our market is the world**

Buckau Wolf GmbH is a globally active, owner-managed company with a long tradition specializing in special machinery. We are experts in industrial mixing and separation processes for a variety of applications. We offer our customers the reliability of a supplier that has been established for decades, modern control technology, competent staff and flexible service.

Whether with spare parts, maintenance, inspection, security conversions or rental machines - **qualified, reliable and flexible.**

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