



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

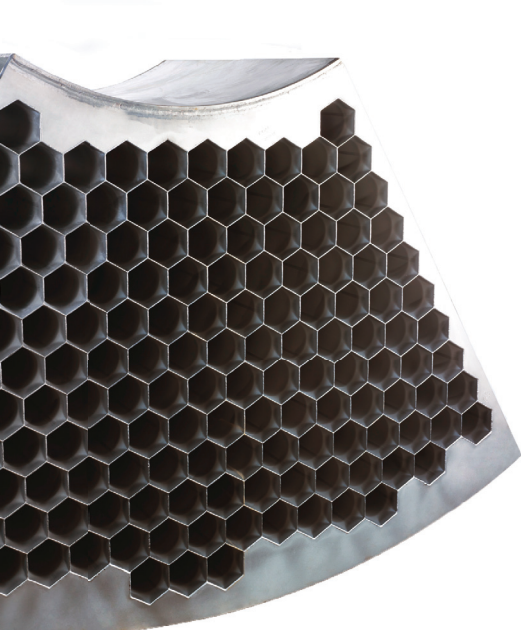
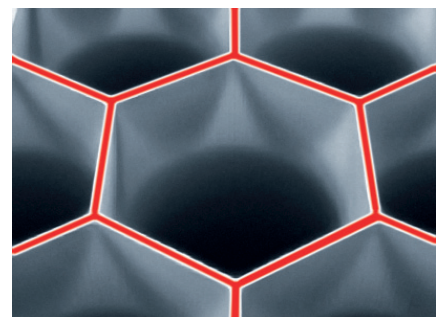
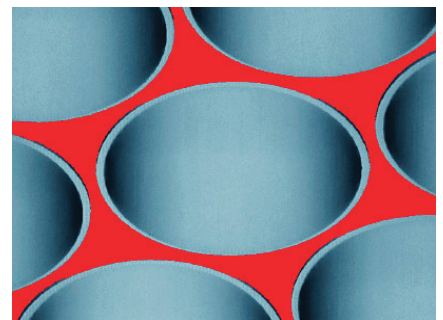
- ▶ The optimum chamber design ensures homogeneous crystal growth and improved CV values (coefficient of variation) in the massecuite
- ▶ Minimized flow deflection losses, dead zones and local overheating
- ▶ Optimum flow conditions ensure homogeneous liquor. The agitator requires less energy
- ▶ Saving 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 con-



stant 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

Diameter of device Ø = 5.600 mm		Old system Tubular calandria	Buckau-Wolf System Honeycomb Calandria
Vapour stage	mm	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

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