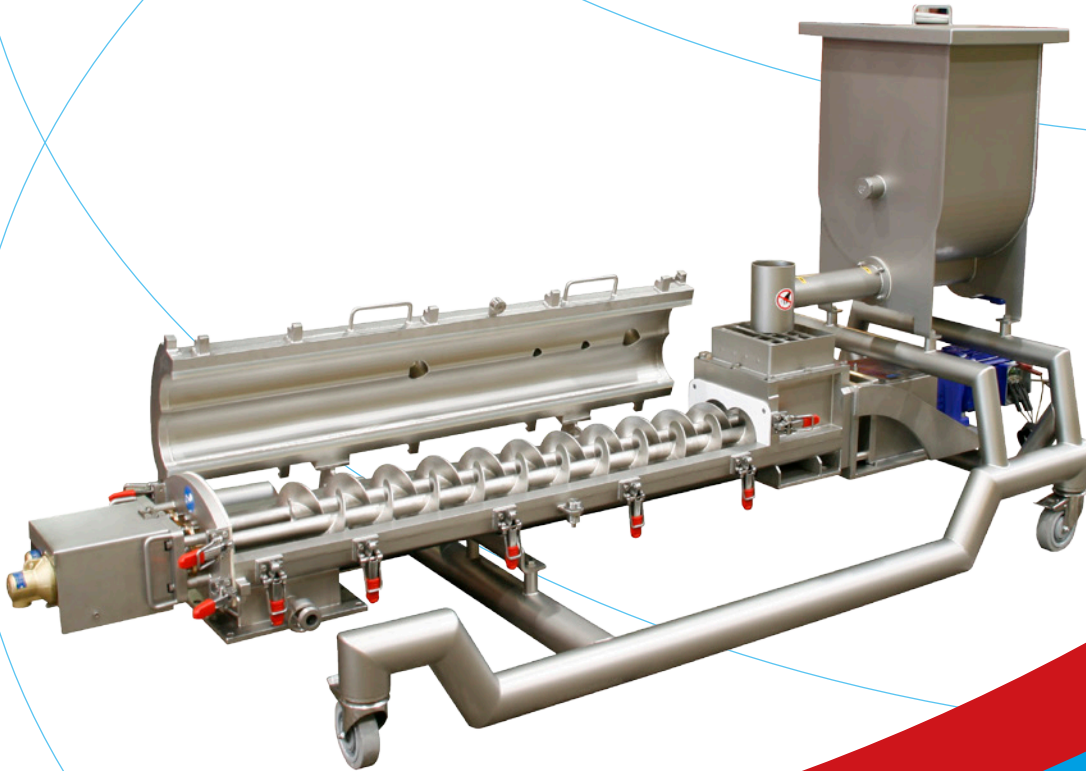


°Celsius

SCREW HEAT EXCHANGERS
BY VAN BEEK

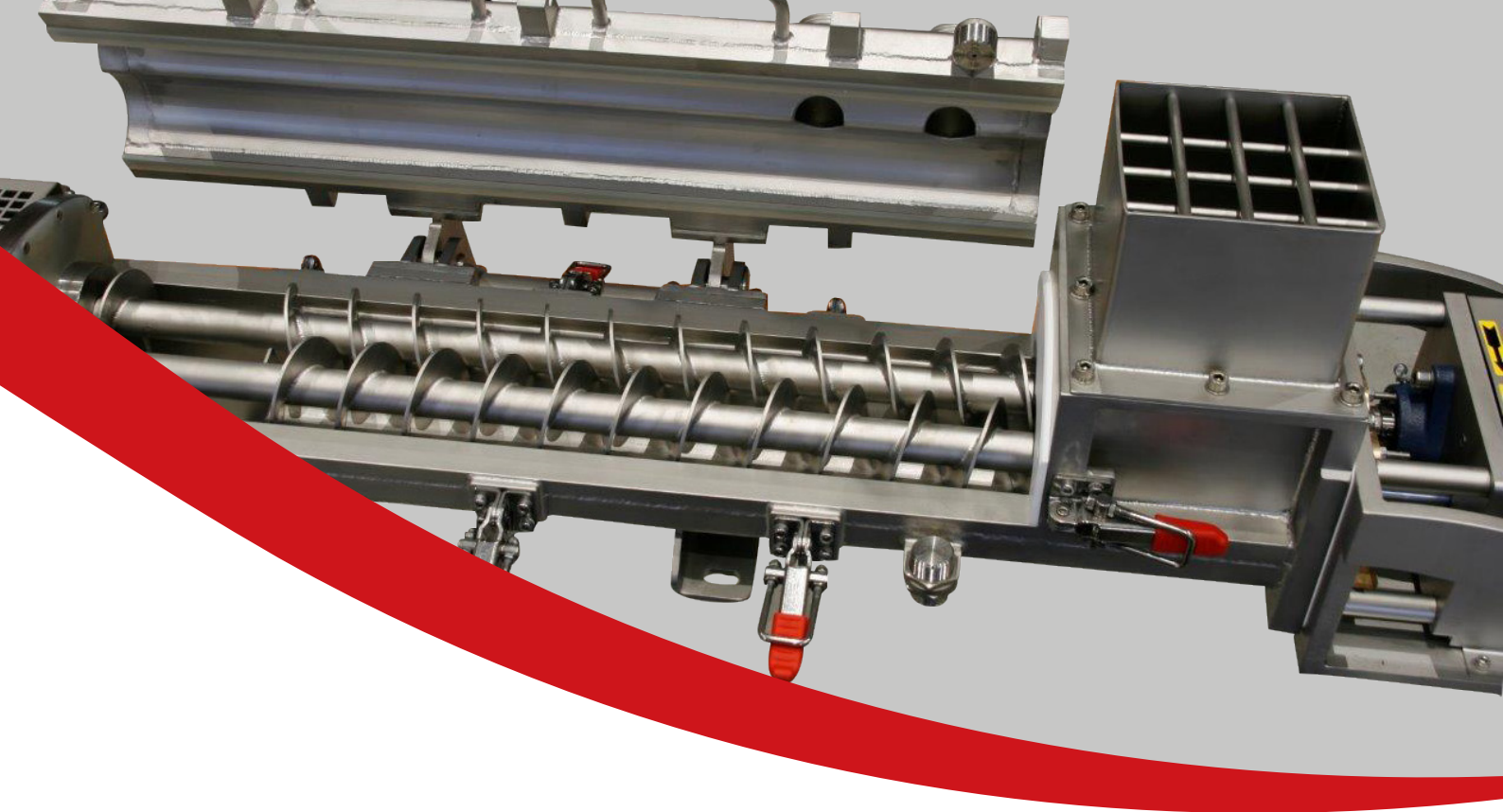


IT'S THE TEMPERATURE THAT MAKES THE MIX

Celsimix | Mixing solids and liquids

www.celsius.nl

vanBeek
THE STANDARD IN SCREW CONVEYING



°Celsius Celsimix

IT'S THE TEMPERATURE THAT MAKES THE MIX

Imagine a machine that creates the perfect conditions for homogeneously blending solids with liquids. A machine that controls the temperature of the ingredients to maintain these perfect conditions throughout the mixing process. A machine so gentle it preserves the density of the ingredients. Well, look no further.

The Celsimix is here for you.

The Celsimix

The Celsimix mixes ingredients at a predetermined temperature. Thanks to this unique thermal feature, the Celsimix is capable of creating homogenous mixes of different components, both solid and liquid. The Celsimix is equipped with two screws, which can both be removed for easy and careful cleaning. The machine works silently, is compact and energy efficient. Moreover, the Celsimix is fully customizable and can therefore be used in a wide variety of applications in the food and chemical industry. Mixing caramel with nuts as a base for brittle candy, or limestone with polyolefin for carpet tiles are just some examples of the wide versatility offered by the Celsimix.

°Celsius by Van Beek

Van Beek, the global specialist in tailor made screw conveyors since 1939, has created a special product line consisting of screw conveyors that exchange heat or cold with the product they convey. This is made possible by a double-walled jacket and hollow screws through which thermal fluid flows. This type of screw heat exchanger is marketed under the brand name °Celsius. One of the successful offshoots within the Celsius product line is the Celsimix, a device that creates homogenous mixtures by blending liquid and solid components at a predetermined temperature. The experts at Van Beek are continuously working on the optimization of thermal processes, in particular for powders and granulates, but also on developments in the field of safety, health and environment. In this way, Van Beek constantly responds to the ever-changing needs and requirements of the global industry.



Advantages of Celsimix

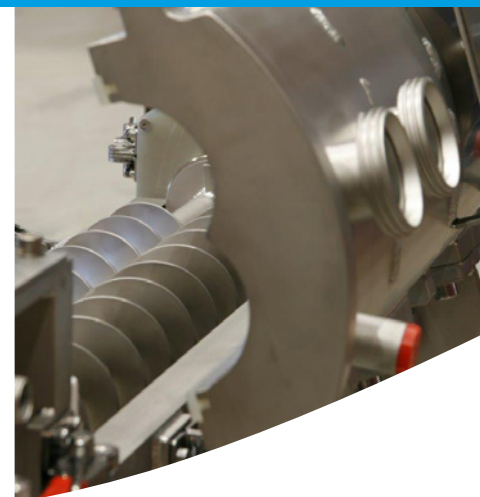
- Silent
- Compact
- Easy to clean
- Energy efficient
- Gentle, suitable for delicate ingredients

**Curious about what the Celsimix
can do for your process?**

Contact us and try our testing machine on your site!

Phone: +31 (0)416 382 292 or e-mail: info@celsius.nl

www.celsius.nl



THE DETAILS OF THE CELSIMIX THERMAL MIXER EASY CLEAN 700 / 1200 / 2450

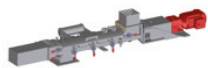

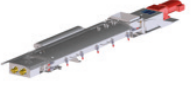
General Design

Type	Celsimix thermal mixer Easy Clean 700 / 1200 / 2450
Process	Heating and mixing
Applications	Food, Chemical, miscellaneous
Operating conditions	Inside; 10-40 °C, 40-70% RH
Machine Directive	2006/42/EU
Pressure Equipment Directive	EN 13445-4:2014

Design Specifications

General	Material (jacket, screws)	SS 1.4301 (304)
	Finishing (external)	Water jetted
	Finishing (product contact surfaces)	Water jetted (Ra ≤ 0.8)
	Colour (drive, carbon steel parts)	RAL 2002 (standard)
	Drive / Gearbox	SEW / SEW (standard)
	Seals	Shaft (gland seal)
	Cover	Silicon T-profile
	Bearings	SKF / DODGE
Thermal	Thermal media	Hot water, thermal oil
	Design temperature	150 °C
	Design pressure	1,5 barg
Screw	Flight	Full flight
	Construction	Tube-in-tube
	Pitch	50 mm / 100 mm / 120 mm
Jacket	Construction	Double walled jacket
	Insulation	Superwool, 38 mm+

Available Configurations

			
	Celsimix 700	Celsimix 1200	Celsimix 2450
Working capacity	700 ltr/hr	1.200 ltr/hr	2.450 ltr/hr
Heating surface			
<i>Jacket</i>	0.24 m ²	0.60 m ²	1.07 m ²
<i>Screw tube</i>	0.16 m ²	0.29 m ²	0.54 m ²
Dimensions			
<i>LxWxH</i>	2.218 x 528 x 415 mm	2.729 x 610 x 375 mm	3.342 x 665 x 390 mm
<i>CTC</i>	763 mm	1.250 mm	1.604 mm
<i>Inlet</i>	150 x 150 mm	200 x 200 mm	202 x 276 mm
<i>Outlet</i>			207 x 212 mm
Auxiliary inlets	DN 40	DN 50	DN 65
Weight	190	310	580

Optional

Mobile (rolling) frame instead of consoles
Screws in special design (open flight)
Additional safety measures for surface temperature >60°C
Removable screws on tilting frame
Dosing screw type KR50
Dosing screw type KR75
ATEX configuration
Seaworthy crate packaging