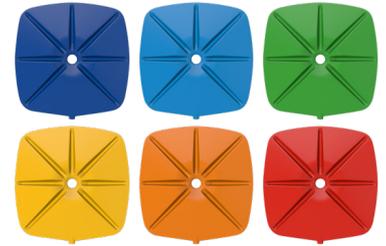
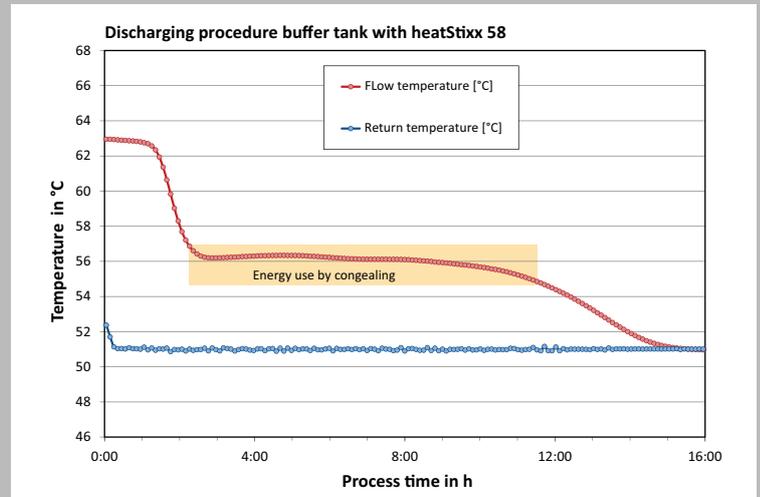
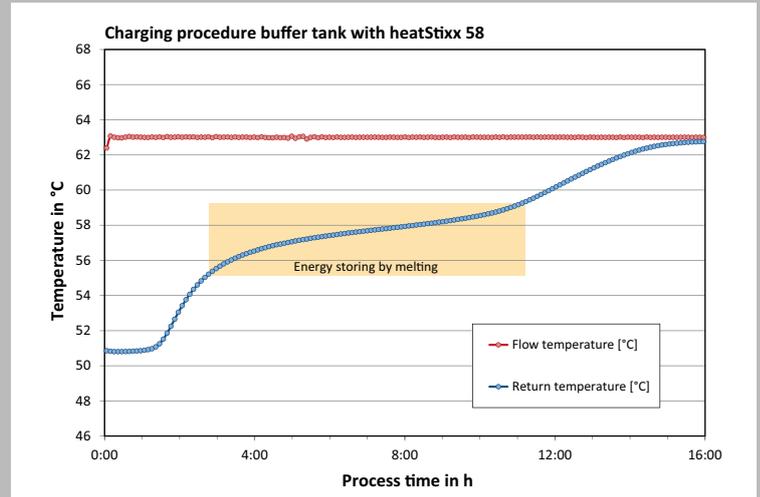
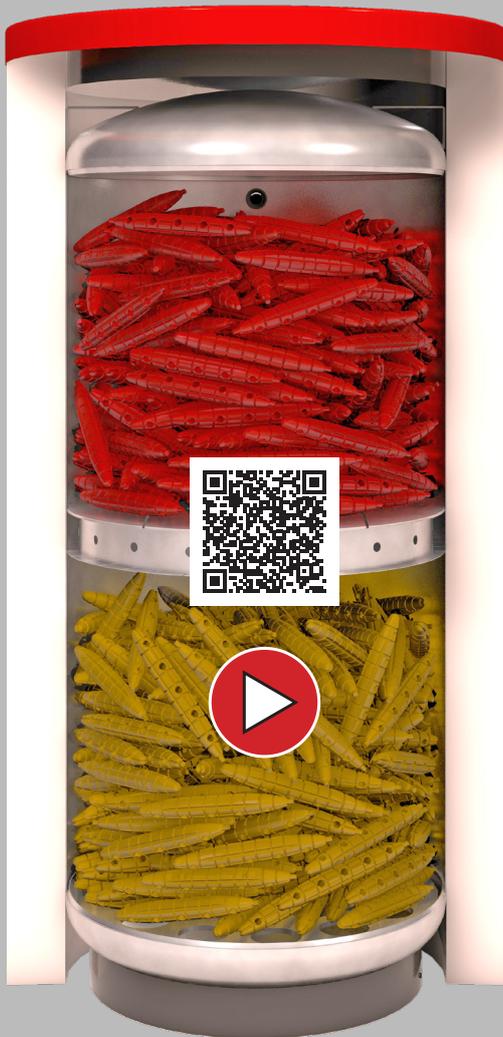


# heatStixx



PRODUCTINFORMATION heatStixx



## Request your heatStixx for testing purposes!

Address \_\_\_\_\_

Full name \_\_\_\_\_

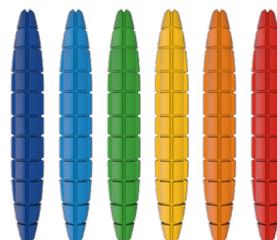
Company \_\_\_\_\_

Street \_\_\_\_\_

Post code / town / city \_\_\_\_\_

E.mail \_\_\_\_\_

Phone \_\_\_\_\_



**kraftBoxx**  
POWER TO HEAT SYSTEMS

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Riedweg 5, 88326 Aulendorf

Phone: +49 7525 / 924 382  
E-mail: info@kraftBoxx.de  
Web: www.heatStixx.de

## PRODUCTS / SCOPE OF APPLICATION

heatStixx	 heatStixx	 heatSel	 heatSel XL
Dimensions	Ø 42 x 310 mm	185 x 185 x 32 mm	275 x 275 x 32 mm
Tank size	50 - 1.000 l	500 - 2.000 l	1.500 - 20.000 l
Tank diameter	400 - 1.000 mm	600 - 1.200 mm	ab 1.200 mm
max. number of heatStixx per 100 l tank volume	ca. 150	ca. 110	ca. 37
Insertion	1½" Sleeve	Flange DN 200	Flange DN 300
max. tank pressure	3 Bar	3 Bar	3 Bar
Pressure drop per m height	ca. 20-50 mbar	ca. 20-50 mbar	ca. 20-50 mbar
Volume expansion	ca. 5%	ca. 5%	ca. 5%
Factor capacity increase compared to water (<=0°C compared to antifreeze)	10 K ca. 2,4 - 4,8	10 K ca. 2,5 - 4,9	10 K ca. 2,5 - 4,9
	15 K ca. 2,0 - 3,6	15 K ca. 2,0 - 3,6	15 K ca. 2,0 - 3,6
	30 K ca. 1,5 - 2,4	30 K ca. 1,5 - 2,4	30 K ca. 1,5 - 2,4
Cycle stability	> 10.000 cycles	> 10.000 cycles	> 10.000 cycles

*made in germany*

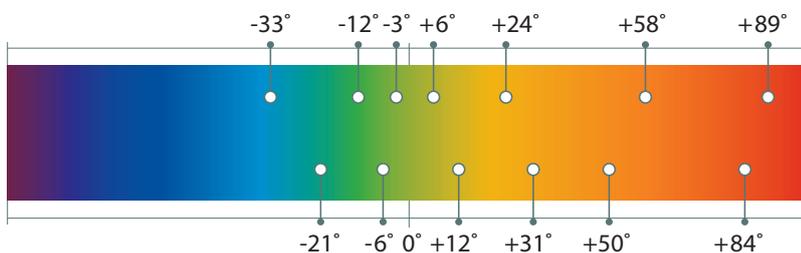
### Why PCM?

PCM (phase change materials) are used for storing thermal energy. Therefore the phase change plays the central role. Depending on the PCM (paraffin, salt-hydrates, etc.) the binding forces are energetically cracked when a certain temperature (that is the phase change temperature, which depends on the PCM) is reached. That is called the melting process. This process takes place at a constant temperature. The PCM will solidify as soon as it is cooled down again. This means that the stored energy is extracted at constant temperature. To indicate how much energy can be stored, we take a look on water-ice: It takes the same energy to bring 1 kg of water from 0 °C solid to 0 °C liquid, and to bring 1 kg of water from 0 °C liquid to 80 °C liquid. That is the latent-effect!

## AVAILABLE TEMPERATURES

### Our main application temperatures

Our heatStixx and heatSel are available for various phase change temperatures. This covers a very wide range of application areas and possibilities for heat and cold storages. The following figure shows our most common materials.



➔ If there is no suitable PCM temperature available for your application, we will develop this for your project.