



High-Performance Heat Exchangers

“Supercharged 50”

“Supercharged 100”



20% more efficiency and output due to the cross-corrugated coiled tube technique

The energy resources of our planet are limited. And they will become ever more expensive.

In particular, for the energy-intensive handling of heat generation and heat recovery this fact means that we have to be clearly focused on ever greater efficiency. Besides the application of state-of-the-art process technologies at our Putzbrunn site, rational and innovative detailed developments are therefore continually being integrated into our products to meet the challenges of the future. Made in Germany.

Supercharged 50/Supercharged 100 - The perfect optimization of details for an optimized heating output.

The „Supercharged 50“ and „Supercharged 100“ high-performance heat exchangers are a targeted output-orientated further development of BEHNCKE’s „QWT“ series.

The counterflow principle applied in these, in which hot and cold water are conducted without making contact—up to now in banks of bare tubes—has been increased in efficiency by about 20% (!) by incorporating cross-corrugated coiled tubes that were specially developed for this purpose. These cross-corrugated coiled tubes are characterized by their

almost loss-free and constant working pressure. This system component is therefore particularly suitable for connection to high-temperature energy sources.

A high quality standard, TÜV-certified. The result: Significantly lower operating costs.

Despite the design being specifically aimed at output efficiency, the high standard of finish—with dependability in mind—has not been neglected in any way. The use of stainless steel of the quality standard AISI 316, finished perfectly down to the last detail and TÜV-certified, guarantees an extremely long service life and operating duration—due among other things to it being calcification-proof.

A wide range of flexible applications follow from its compact overall dimensions. The welded-in thermowell, a rational option, also allows the uncomplicated installation of a temperature sensor.

The “Supercharged 50/100” high-performance heat exchanger - Technical specifications

Model	Heat exchanger „Supercharged 50“	Heat exchanger “Supercharged 100”
Heating flow output 70 °C	35 kW/70°C	54 kW/70°C
Minimum pumping output		
Heating m ³ /h	2	3
Heating mWs	1,5	1,5
Pool water m ³ /h	10	12
Pool water mWs	1,0	1,0
Pool connection	1 1/2"	1 1/2"
Heating connection	3/4"	3/4"