

Swimming Pool Heat Exchangers

“QWT 100/WTI 100”

“SWT 100/SWT 100 Titanium”



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. The future challenge for BEHNCKE’s engineers is how to optimize what is already a good product for an even higher degree of efficiency. Besides the application of state-of-the-art process technologies at our Putzbrunn site near Munich, rational and innovative detailed developments are continually being integrated into our products. Made in Germany.

“QWT 100” - the highest quality standard, optimal economic efficiency, constant operating dependability.

The “QWT 100”, a sophisticated system component that is ideal for connection to high-temperature energy sources. The use of stainless steel with the quality standard AISI 316 – perfectly finished – also guarantees an extremely long service life, because it is resistant to calcification. The counterflow principle perfected by BEHNCKE, in which hot and cold water are conducted past one another in banks of bare tubes

without making contact, achieves a very high degree of efficiency. The specially fabricated banks of bare tubes, which achieve a constant and therefore almost loss-free working pressure, are the central component of this system. Extremely flexible applications result from this due to its small overall dimensions. For cost-effective installation the glued connection is already pre-installed on the WTI 100, for example. Furthermore, the welded-in thermowell enables the uncomplicated installation of a temperature sensor.

“WTI 100” - the special unit made of titanium for extremely demanding applications.

Years of experience and both mechanical and technical expertise are required to be able to process the extremely tough material titanium. BEHNCKE has had both components at its disposal for the past 50 years. The WTI 100 is therefore a highly specialized variant that is suitable for the most demanding of requirements, such as sea water systems, salt water pools or therapy facilities with a high disinfection potential.

Swimming pool heat exchanger “QWT 100/WTI 100” (titanium) - Technical specifications

Model	QWT 100-20	QWT 100-30	QWT 100-40	QWT 100-70	QWT 100-104	QWT 100-140	QWT 100-209
Model	WTI 100-20	WTI 100-30	WTI 100-40	WTI 100-70	WTI 100-104	WTI 100-140	WTI 100-209
Heating flow output	16 kW/70°C	24 kW/70 °C	30 kW/70 °C	45 kW/70 °C	70 kW/70 °C	90 kW/70 °C	140 kW/70 °C
Minimum pumping output							
Heating	2 m³/h	2 m³/h	2 m³/h	3 m³/h	5 m³/h	2 x 3 m³/h	2 x 5 m³/h
Pool water	10 m³/h	10 m³/h	10 m³/h	12 m³/h	15 m³/h	20 m³/h	25 m³/h
QWT pool connection	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
QWT heater connection	3/4"	3/4"	3/4"	1"	1"	1"	1"
WTI pool connection	PVC DN 40	PVC DN 40	PVC DN 40	PVC DN 50	PVC DN 50	PVC DN 50	PVC DN 50
WTI heater connection	3/4"	3/4"	3/4"	1"	1"	1"	1"