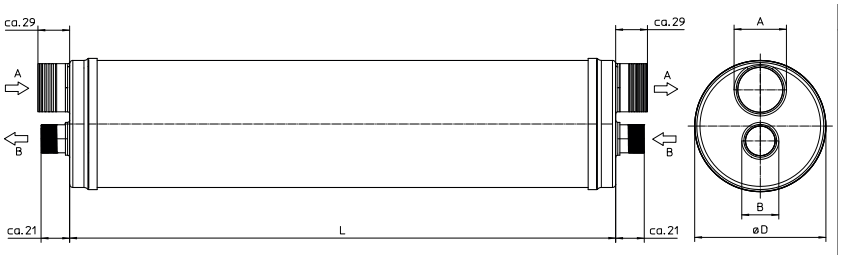
Heat Exchanger K1N to K4N

Our heat exchangers are completely made of stainless steel and provide decisive benefits with the cross current technology.

Highlights

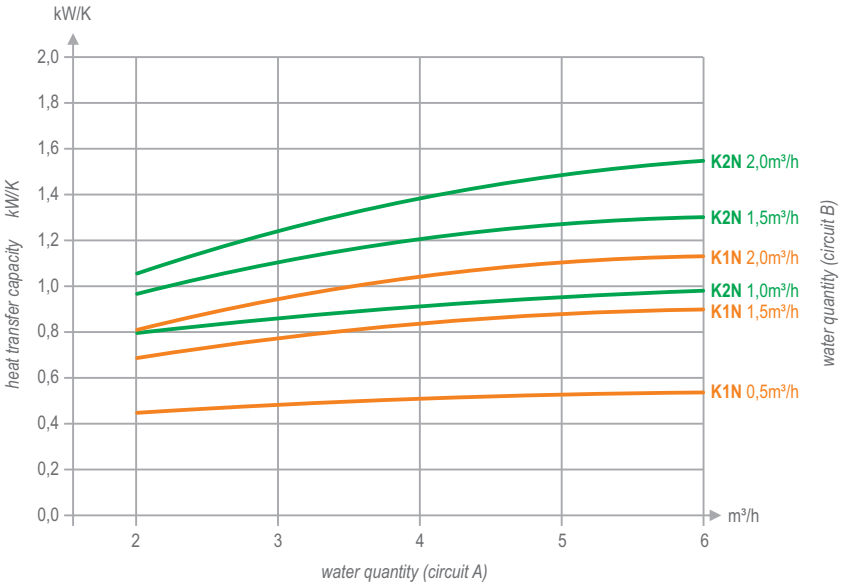
- very high power transfer performance
- extremely compact design in 4 sizes
- stainless steel - for aggressive media
- fully welded – no seals
- large and small fluid quantities



[mm]	K1N	K2N	K3N	K4N
Length	275	395	518	518
ø	100	100	100	124

Technical Data

- Material 1.4541
- Temperature range -50°C to +250°C
- max. pressure circuit A – 15 bar
- max. pressure circuit B – 25 bar
- Side A – external thread 1“-1¼“
- Side B – external thread ¾“
- Teflon baffle on side B

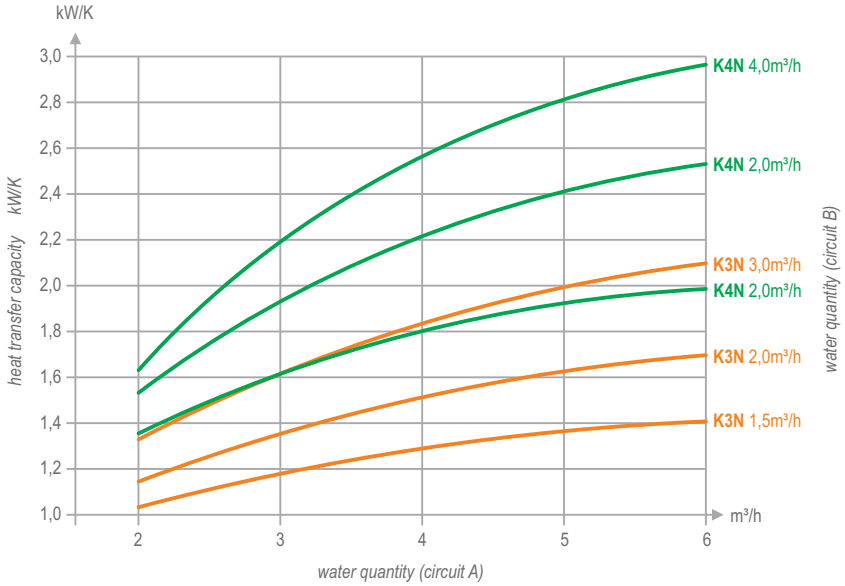


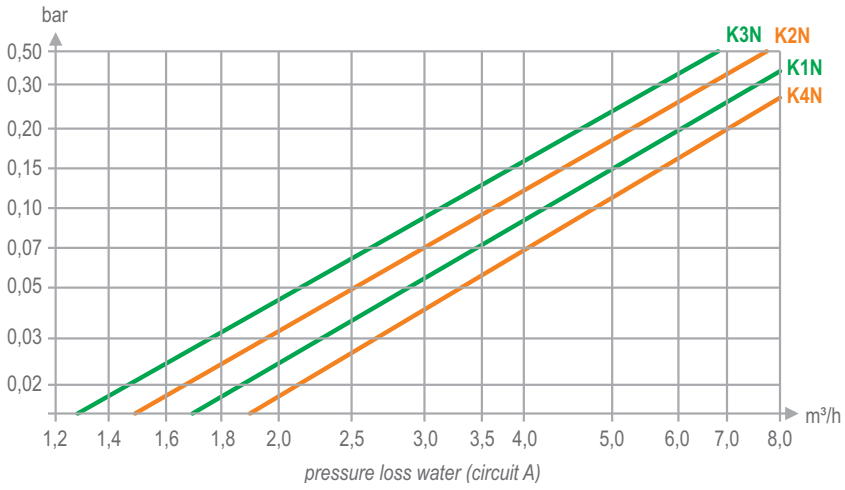
Sample design

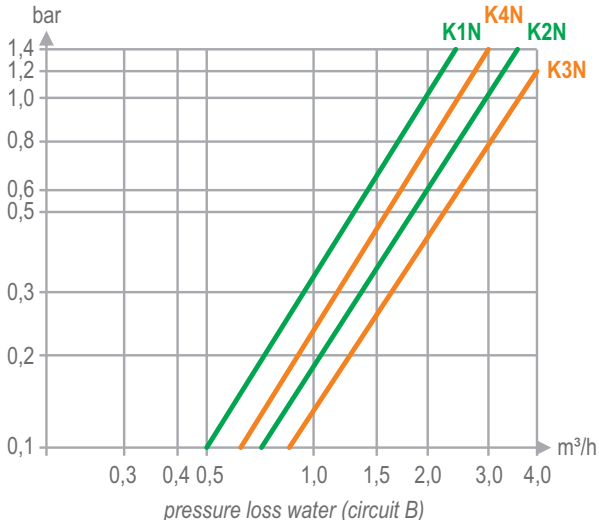
The K2N heat exchanger with a water flow rate of 1.5 m^3/h on side B (right Y-axis) and a water flow rate of 4 m^3/h on side A (X-axis) produces a power transfer of 1.2 kW/K (left Y-axis). This means that with a temperature difference of ΔT = 10 K between the inlet temperature in the A circuit and the inlet temperature in the B circuit, we have a power transmission of 10 K x 1.2 kW/K= 12.0 kW.

Performance Data

Heat exchangers K1N to K4N - continued







Pressure loss in circuit A/B

The diagram presents the pressure loss (Y-axis) in relation to the flow rate per hour in m^3 (X-axis). The corresponding values can be determined for the various heat exchanger models within the KN series by the coloured characteristic lines.