

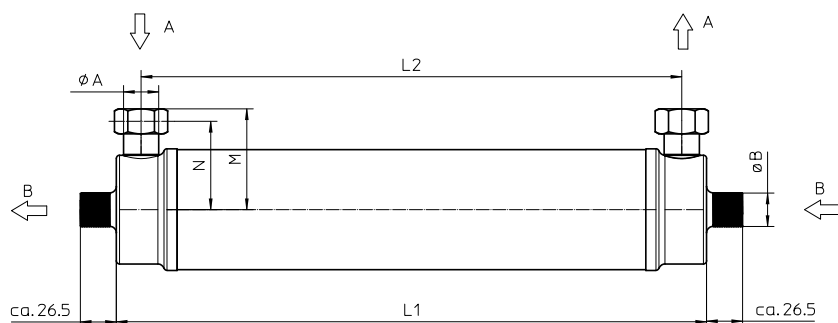
Heat Exchanger S1N to S3N

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



Highlights

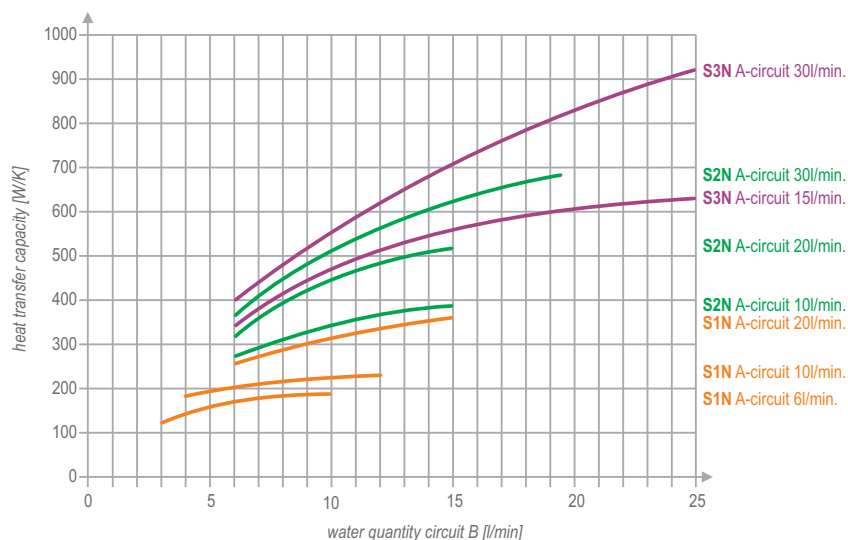
- very high power transmission performance
- extremely compact design in 3 sizes
- stainless steel - for aggressive media
- fully welded - no seals
- large and small fluid quantities



Typ	L1 [mm]	L2 [mm]	D ø	M	N
S1N	165	130	75	60	55
S2N	265	230	75	60	55
S3N	365	330	75	60	55

Technical Data

- Material 1.4541
- Temperature range -50°C to +250°C
- max. pressure side A - 15 bar
- max. pressure side B - 25 bar
- Side A - locking nut 3/4"
- Side B - external thread 1/2"
- Teflon baffle on side B



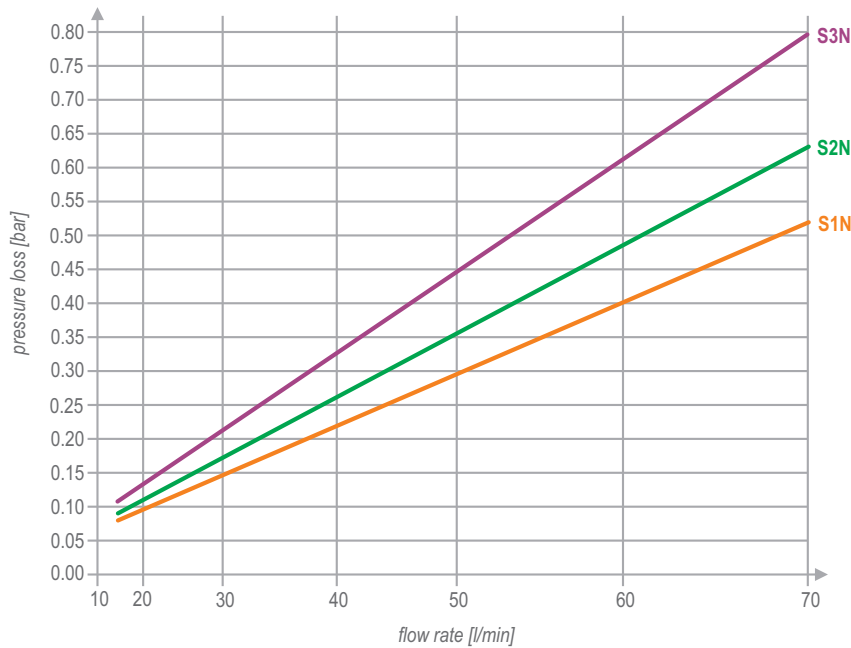
Sample design

The S3N heat exchanger with a water flow rate of 15 l/min on side A (right Y-axis) and a water flow rate of 20 l/min on side B (X-axis) produces a power transfer of 605 W/K (left Y-axis).

This means that with a temperature difference of $\Delta T = 10$ K between the inlet temperature in the A circuit and the inlet temperature in the B circuit, we have a power transfer of $10 \text{ K} \times 605 \text{ W/K} = 6050 \text{ W}$.

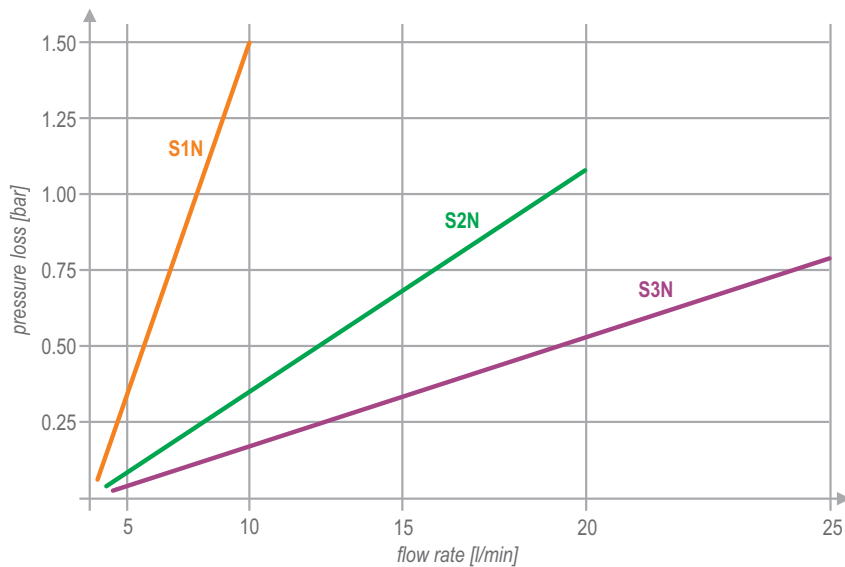
Performance Data

Heat exchangers S1N to S3N - continued



Pressure loss in circuit A

The diagram presents the pressure loss (Y-axis) in relation to the flow rate per minute in litres (X-axis). The corresponding values can be determined for the various heat exchanger models within the SN series by the coloured characteristic lines. These heat exchangers with cross current technology are characterised by a pressure loss that increases slightly in linear terms when the flow rate is increased.



Pressure loss in circuit B

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