

DIABON[®] graphite plate heat exchanger

In case of heat exchange of corrosive media, DIABON plate heat exchangers are first choice.

Plate heat exchangers are the most modern and efficient heat exchange technology on the market. They replace more and more traditional types like block, annular groove or shell & tube heat exchangers.

In cooperation between Alfa Laval and SGL Carbon plate heat exchangers made out of DIABON graphite are established. More than 3000 references worldwide and continuous innovations like the world largest graphite plate heat exchanger type P90 are our proof of outstanding customer benefits.

Customer benefits

- **Most efficient and economic heat exchanger technology:** lower invest cost compare to other heat exchanger types highest heat recovery for interchanger (narrow temperature gradients possible)
- **High flexibility:** modular expansion possible
- **Compact design:** up to 75% less space requirement (advantage at e.g. capacity expansion/retrofit)
- **High plant availability:** up to 50% less production stops for maintenance, repair and service
- **Extreme short delivery time: standard delivery time:** 8 weeks (about half of the delivery time of other types)

Example applications

- Heat exchange for corrosive media e.g. hydrochloric acid, sulphuric acid, phosphoric acid, hydrofluoric acid, etc.
- Function: heating, cooling, condensation or heat recovery by interchanger



↑ DIABON graphite plate heat exchangers P90 and P40

Product information

- 4 standardized types: P05, P25, P40, P90
- dimensions (W x H x L)
from [P05] 230 x 620 x 850 mm
up to [P90] 675 x 2245 x 1892 mm
- > 3000 references worldwide
- plates: DIABON NS1, NS2 and F100
- gaskets: SIGRAFLEX[®]/POLYFLURON[®] PTFE
- Heat exchange area: 0.1 up to 60 m²; corresponds to > 150 m² block heat exchanger
- flow rates from 0.1 m³/h up to > 250 m³/h
- 100% counter-current, temperature crossing allowed

By the way: DIABON phenolic resin impregnated graphite is certified by FDA (Food and Drug Administration)

