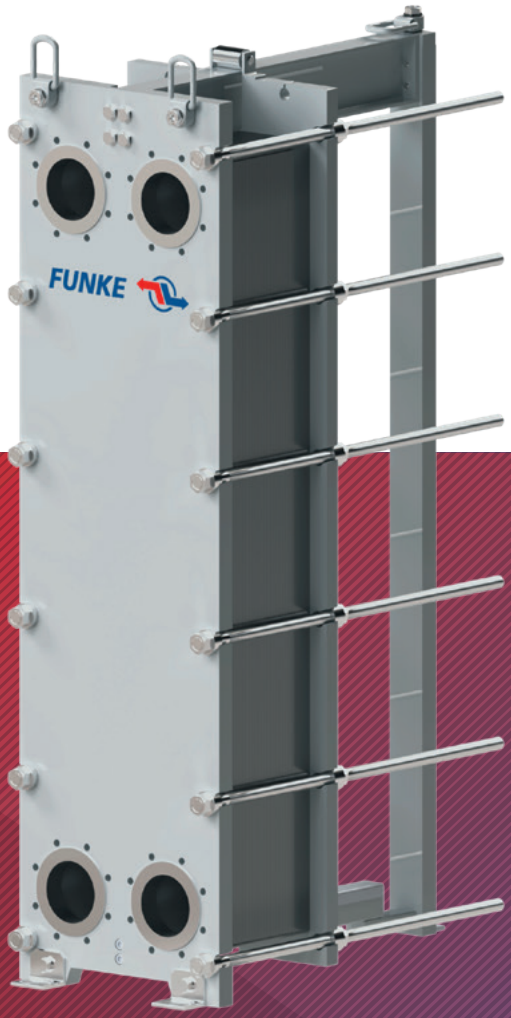
FUNKE
Quality Heat Exchangers



FPX SERIES

Gasketed Plate Heat exchanger

HYDAC

FUNKE – a company of the HYDAC Group

FPX SERIES

Gasketed Plate Heat exchanger



The **FPX Series** is our new, additional series of high-performance plate heat exchangers for the most demanding applications. Our **FPX 15D,** with 6-inch connections (DN150) and a thermos-hydraulically optimized narrow-gap embossing structure, sets new standards in efficiency and performance.

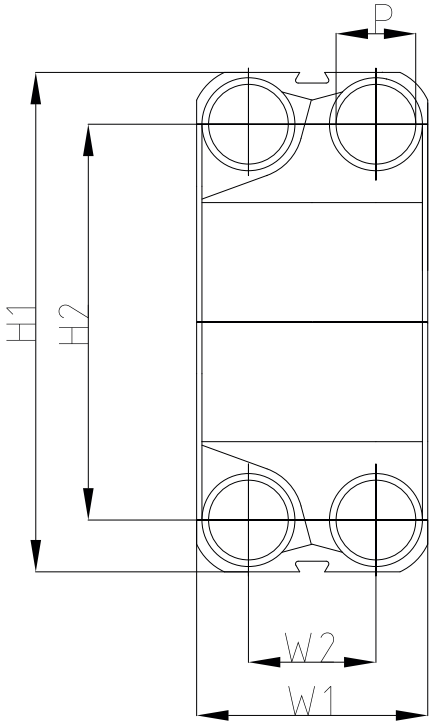
As an extension of the successful and tried-and-tested FP series, the FPX series has been specifically developed to meet highest efficiency requirements – for example, for data centers, district cooling and other high-performance applications.

The FPX series is the ideal solution for:

- very low mean temperature differences (LMTD)
- the highest NTU requirements
- high pressure resistance

With the FPX series, we offer the perfect solution to the growing demands of modern cooling and energy systems.

Model-Type	FPX 15D
Max. Area	450 m²
Size W1 x H1	510 x 1881 mm
Center W2 x H2	290 x 1671 mm
Port	DN 150 / 6"
Plate Structure	H / M
Max. Test pressure	42 barg
Max. Temp.	200 °C



Materials

Plates	Thickness
1.4404 / AISI 316L	0.4 / 0.5 / 0.6 mm
1.4301 / AISI 304	0.4 / 0.5 / 0.6 mm

Gaskets
NBR-HT
EPDM-HT
Viton I / S / G

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Special design

- Multipass Design
- 2-Section Cooler for three-fluid-circle

Special Features

- **Opti Flow:** Optimised inlet area, best distribution of the fluid over the entire width of the heat transfer plate for optimum utilization of the surface area
- **Best Wave:** science-based optimised wave design for high NTU at low LMTD and higher pressure
- **Clip+Push** gaskets: Optimised by FEM for best fit even after repeated opening
- **Bypass-Stop Design:** Minimised bypasses for optimal heat transfer

NEW

- **Center Lock:** For easy and reliable assembly and positioning of plates during service
- **HP Plus:** Special design of the seal groove in the head section for greater pressure resistance

Frame

Max. test pressure	42 barg
Material	C-steel S355J2+N, DIN 10025, painted
Painting	Standard-painting FUNKE one coat paint: 1 x 80 µm water-based paint, RAL 5007; other e.g. RAL, ISO 12944-5, ATEX, High temperature possible
Connection	Standard: Rubber-liner DN 150, NBR, EPDM, Viton for flange PN 16, EN 1092-1
Welding neck flange	DN 150 / 6" stainless steel, carbon steel C22/A105 - DIN EN 1092-1, ANSI B16.5
Metal liner	DN 150 / 6" stainless steel - DIN EN 1092-1, ANSI B16.5
Design codes	AD2000, ASME VIII, EN13445

Main applications

HVAC	Renewable Energies
District heating / cooling	Solar power plants
Thermal power stations	Water power plants
Data Center	Bioenergy
Supply technology	

Devices usages

- Energy-recovery
- Process cooler / heater

Best Wave: Science based optimized plate design

Your advantages at a glance

Plate pack

- High thermal performance
- Highly efficient self-cleaning
- Optical gasket identification (colour coding)

Connection

- Rubber liner
- Metal insert
- Welding neck flange

Frame

- Compact design
- Highly flexible (upgrade/downgrade)
- Easy to service and maintain
- Modular system means short production times
- Graduated plate guide (easier installation of plates)

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