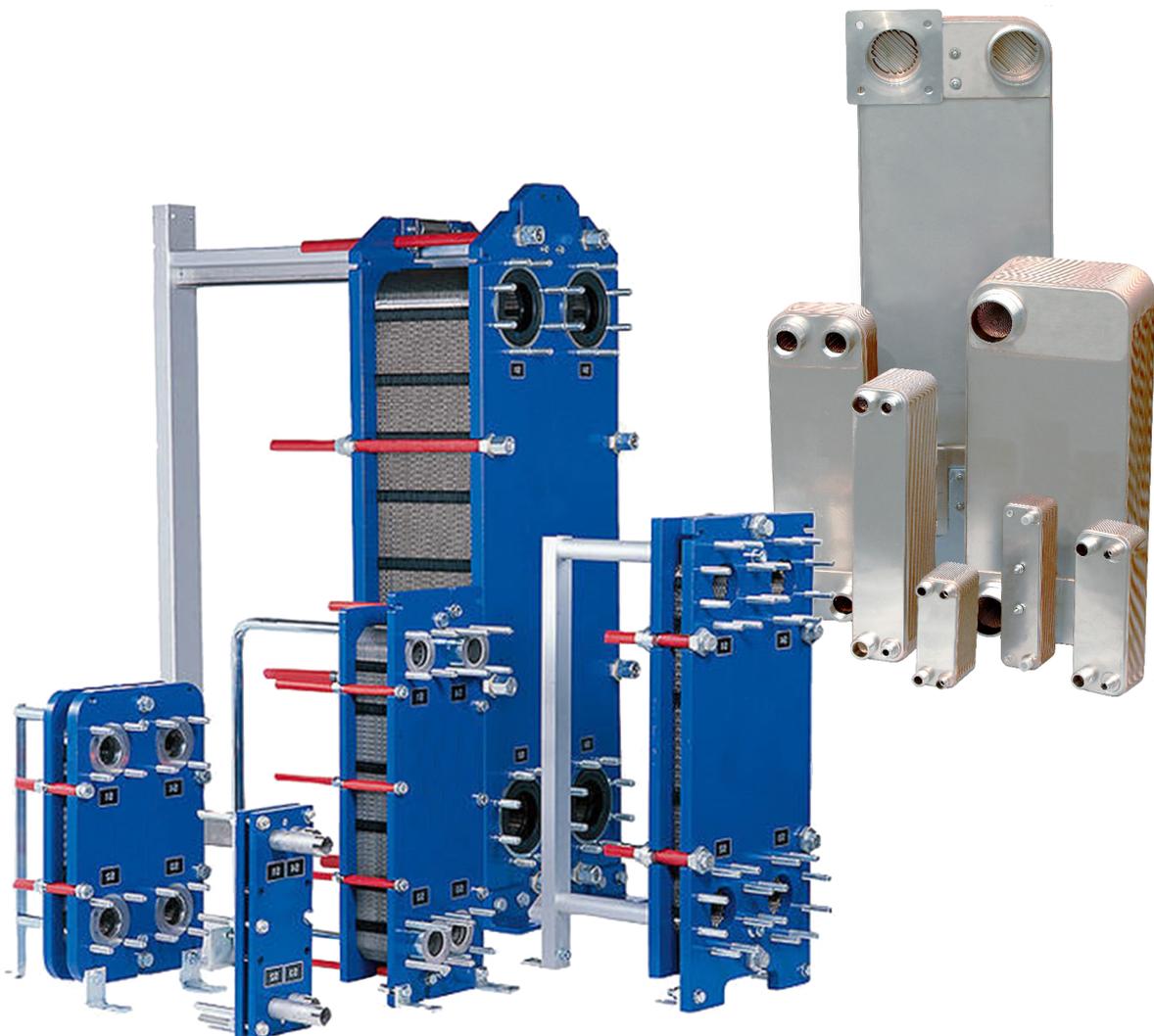


HPC/HGPC Series

Plate Heat Exchangers



HPC/HGPC Series

Introduction

HydroLync supplies two types of plate heat exchanger, HPC is brazed and HGPC is gasketed.

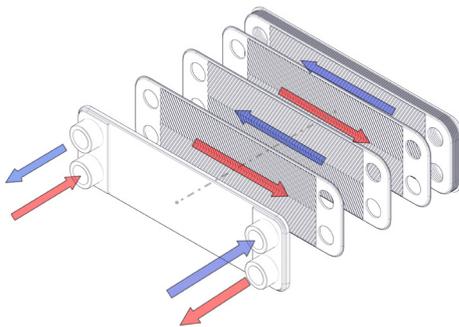
HPC is one of the most efficient ways to transfer heat. It is in principle constructed as a package of corrugated channel plates between front and rear cover-plate packages. The cover-plate packages consist of sealing plates, blind rings and cover plates. Connections are mounted on the cover plates and can be customized to meet specific market and application designed for high-pressure hydraulic systems.

HGPC has been the most versatile gasketed plate heat exchanger. The heat transfer area of a gasketed plate heat exchanger consists of a series of corrugated plates, assembled between a frame and pressure plates to retain pressure. Gaskets act as seals between the plates. Fluids normally run counter-currently through the heat exchanger. This gives the most efficient thermal performance and enables a very close temperature approach, i.e. the temperature difference between the exiting process medium and the entering service medium.

HPC Materials

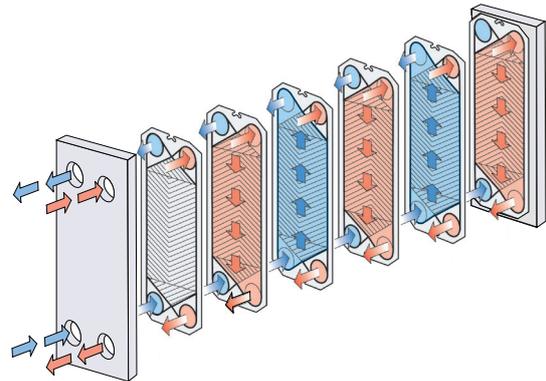
Parts	Standard Materials
Cover Plates	Stainless steel - 304
Connections	Stainless steel - 304
Plates	Stainless steel - 304 / 306L
Brazing filler	Copper

*Other materials may be available on request



HGPC Materials

Parts	Standard Materials
Field gaskets	NBR, EPDM
Heat transfer plates	Stainless steel - 304 / 306L
Flange connections	Stainless steel - 304 / 306L, Alloy 254, titanium
Frame and pressure plate	Carbon steel, epoxy painted



Applications

HPC

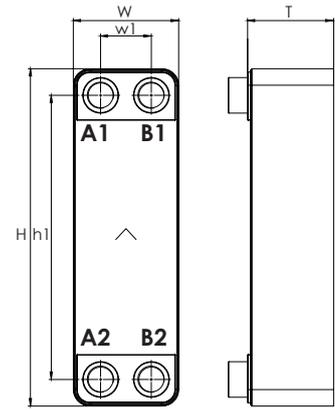
- HVAC heating and cooling
- Oil cooling
- Industrial heating and cooling

HGPC

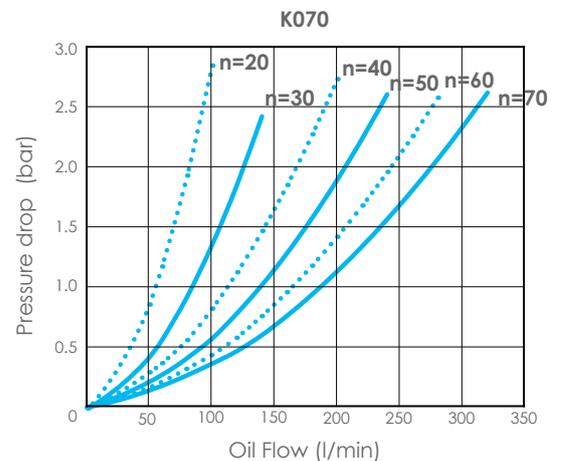
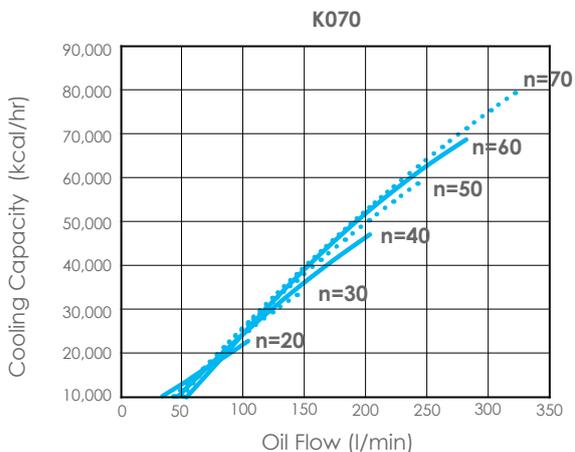
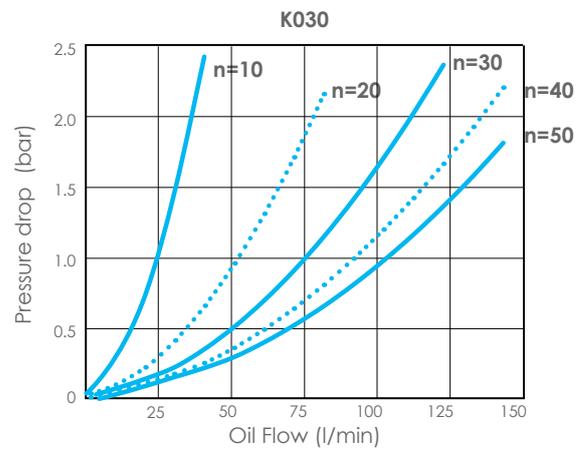
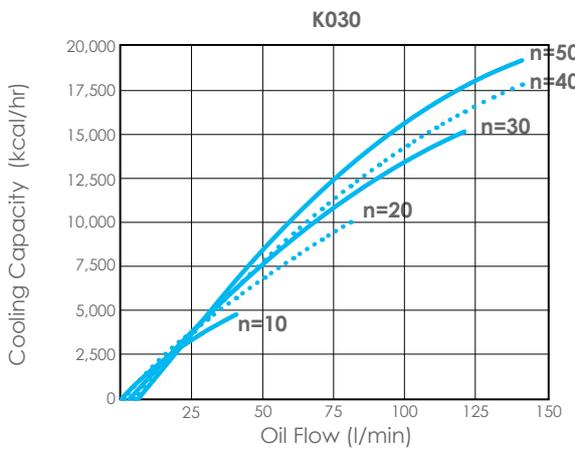
- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Food and Beverages
- HVAC and Refrigeration
- Machinery and Manufacturing
- Marine and Transportation
- Mining, Minerals and Pigments
- Steel
- Water and Waste treatment

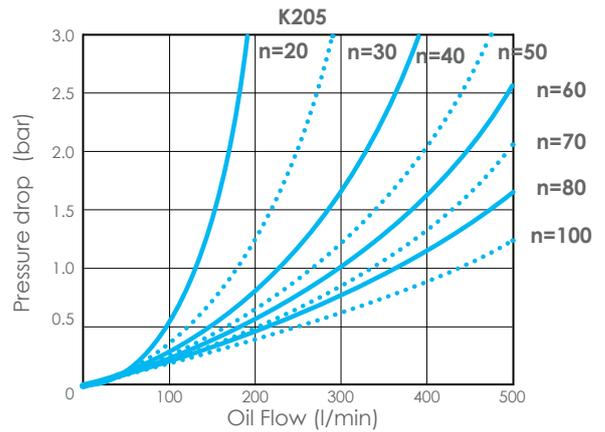
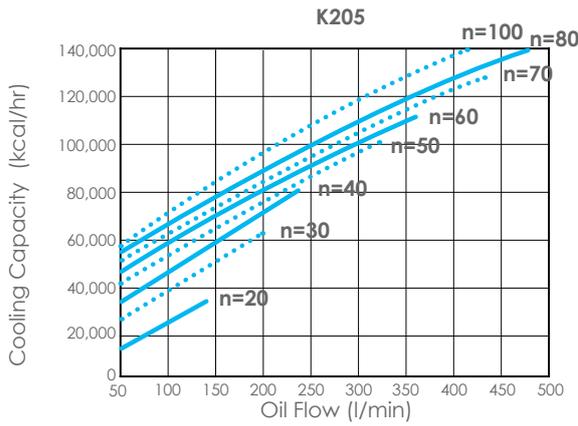
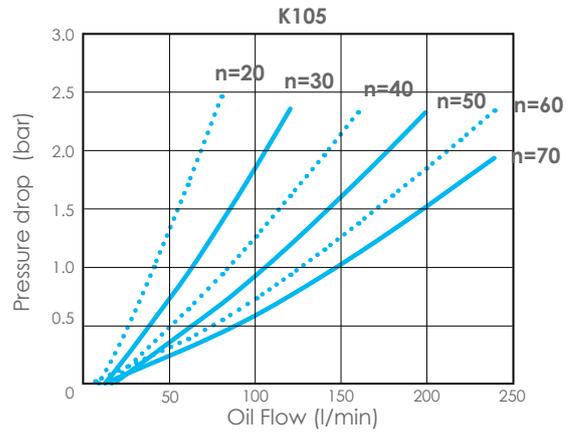
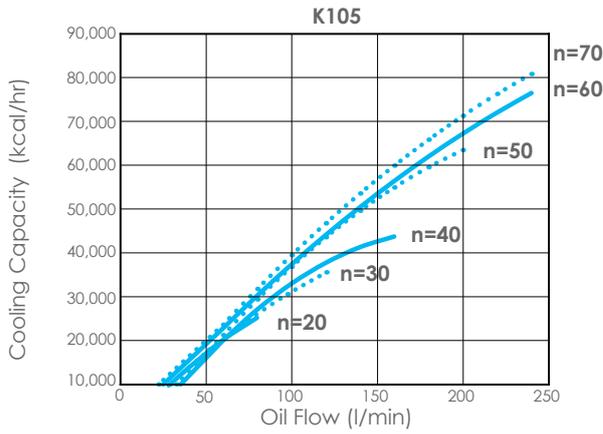
HPC technical datasheet

Brazing Material	Copper	Copper *Extra Strength A1, A2 / B1, B2	Nickel
Max. Working Pressure (bar)	30/30	45/30	10/10
Max. Test Pressure (bar)	43/43	65/43	15/15
Max. Working Temperature (°C)	200 °C		



Model	W	w1	H	h1	T	Weight
	mm	mm	mm	mm	mm	Kg
K030	80	40	194	154	9+2.20n	0.5+0.047n
K070	124	70	304	250	10+2.38n	1.38+0.134n
K105	124	64	504	444	11+2.38n	3.23+0.230n
K205	246	174	528	456	14+2.40n	7.30+0.480n
BL30	124	70	304	250	13+2.4n	2.20+0.160n
BL50	111	50	525	466	10+2.35n	2.60+0.190n
BL95	191	92	616	519	11+2.35n	7.80+0.360n
BL120	246	174	528	456	13+2.36n	7.20+0.520n





HGPC technical datasheet

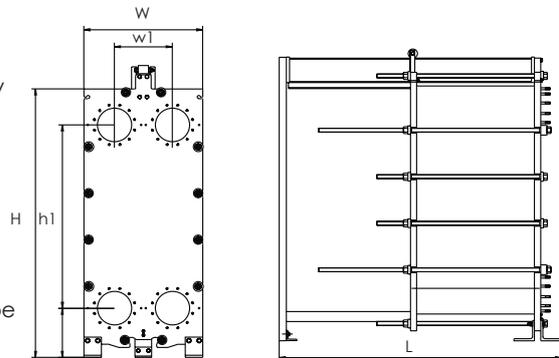
Smaller space, more efficient

The compact design of the gasket plate heat exchanger makes its size very small. Compared with shell and tube heat exchanger, it only needs 22-50% space.

They only need as much as 75% of the cooling medium, so you only need a smaller pump that consumes less energy from the surface.

Easy maintenance

When cleaning and maintenance is needed, the gasket plate heat exchanger can be easily opened and the surface of the plate can be cleaned with high-pressure water or special acid liquid.

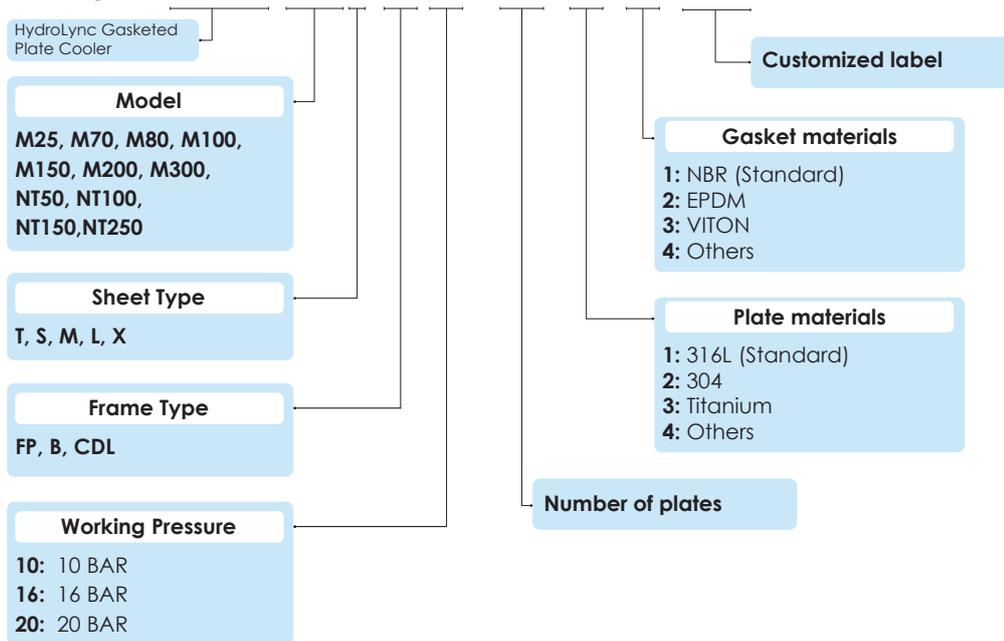


Model	Frame Type	W	w1	H	h1	L	Flange	Max. Pressure
		mm	mm	mm	mm	mm	inch	bar
M25	FP	198	150	595	381	415-520	JIS 10/16K 25A	10/16
M70M		340	150	1052	800	617-922	JIS 10/16K 65A	10/16
M80S(M)		435	238	1117(1393)	794(1070)	640-960	JIS 10/16/20K 80A	10/16/20
M100T(M,X)		540	262	1130 (1536, 1942)	727 (1133, 1539)	500-810	JIS 10/16/20K 100A	10/16/20
M150S(M,L)		700	380	1641 (2115, 3063)	1057 (1531, 2479)	930-2710	JIS 10/16/20K 150A	10/16/20
M200T(S,M,L,X)	B	896	465	1657 (2031, 2220, 2782, 3157)	915 (1290, 1477.5, 2039.5, 2415)	960-3230	JIS 10/16/20K 200A	10/16/20
M300T(S,M,L,X)				2100 (2580, 2820, 3060, 3540)	1043 (1523, 1763, 2003, 2483)			

Model	Frame Type	W	w1	H	h1	L	Flange	Max. Pressure
		mm	mm	mm	mm	mm	inch	bar
NT50T(M,X)	FP	323	130	1390	1115	415-520	JIS 10/16K50A	10/16

Ordering Code

Example: HGPC M80S FP 10 - 50 - 1 - 1 -



Spare Parts Ordering Code

Example: PH M80S FP 10 - 50 - 1 - 1 -





KakaoTalk

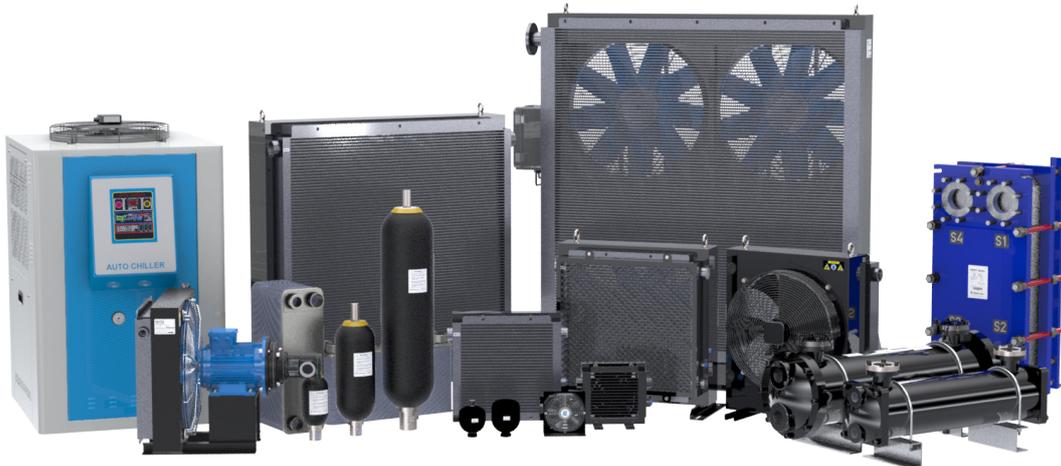


YouTube



Hydro Lync

Engineering Excellence



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