

# Plate heat exchanger NIBE PLEX

NIBE PLEX is a plate heat exchanger with plates made from acid-resistant steel. It is insulated with ABS plastic. NIBE PLEX can be used as an intermediate heat exchanger for groundwater installations. Efficient insulation is included in this accessory kit.

- Intermediate heat exchanger for groundwater use
- Plates manufactured of acidproof steel
- Insulation included

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# Domestic water exchanger/intermediate heat exchanger

- Plates made of acid-resistant steel (SS 23 43)
- The insulation consists of two 30 mm thick, compression-moulded halves made of polyurethane foam covered in ABS-plastic, equivalent to approx. 70 mm of mineral woll

## Plate heat exchanger for ground water systems

Ground water temperature in / out: 7 / 3 °C

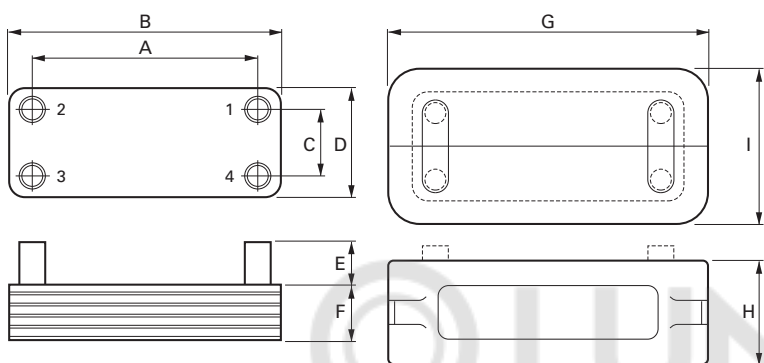
Brine temperature: DT= 3 °C (DT - brine for 60 kW: 3.5 °C)

Brine - Ethanol / water: 28 / 72 %

<i>The heat pump's size kW</i>	<i>Cooling capacity at 5/35 °C kW</i>	<i>Plate heat exchanger NIBE PLEX</i>	<i>Flow (water) kg/s</i>	<i>Flow (brine) kg/s</i>	<i>Temperature (brine HP in) °C</i>	<i>Pressure drop (water side) kPA</i>	<i>Pressure drop (brine side) kPA</i>
5	4.7	310-40	0.28	0.37	3.8	2	4
6	6.3	310-40	0.37	0.50	3.3	3	7
8	7.8	310-60	0.46	0.62	3.7	2	5
10	9.6	310-60	0.57	0.76	3.3	3	7
12	10.9	310-80	0.65	0.86	3.6	3	5
15	14.3	310-80	0.85	1.10	3.2	5	8
17	15.4	322-30	0.91	1.20	4.1	11	23
24	22.0	322-30	1.30	1.70	3.8	21	43
30	29.3	322-40	1.70	2.30	3.9	22	49
40	37.7	322-60	2.10	3.00	4.1	15	35
60	52.7	322-60	3.30	3.60	3.7	35	49

# Technical data

## Dimensions



**1** Flow A, in **2** Flow A, out  
**3** Flow B, in **4** Flow B, out

## Technical specifications

Max. operating pressure	3.0 MPa
Max operating temperature	185 °C
Min. operating temperature	-195 °C

Type	Conn. ext. thr.	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
NIBE PLEX 310-20	R 1"	3.8	250	311	50	112	45	58	360	112	182
NIBE PLEX 310-40	R 1"	6.4	250	311	50	112	45	106	360	160	182
NIBE PLEX 310-60	R 1"	9.0	250	311	50	112	45	154	360	209	182
NIBE PLEX 310-80	R 1"	11.6	250	311	50	112	45	202	360	257	182
NIBE PLEX 322-30	R 2"	13.0	520	616	92	191	55	76	670	160	244
NIBE PLEX 322-40	R 2"	16.5	520	616	92	191	55	92	670	247	244
NIBE PLEX 322-60	R 2"	23.5	520	616	92	191	55	133	670	247	244

## Exchanger data

Type	310-20	310-40	310-60	310-80	322-30	322-40	322-60
Temperature range °C	55 / 45 - 5 / 52						
Power (kW)	11	27	43	60	81	110	175
Pressure drop, primary (kPa)	6	8	11	16	38	45	50
Pressure drop, secondary (kPa)	1	1	1	1	2.5	3	3

Type	310-20	310-40	310-60	310-80	322-30	322-40	322-60
Temperature range °C	80 / 60 - 5 / 70			80 / 50 - 5 / 70			
Power (kW)	40	90	130	155	255	300	450
Pressure drop, primary (kPa)	18	23	21	22	42	37	37
Pressure drop, secondary (kPa)	1	2	2	2	11	10	10



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