

THERMOTECHNOLOGY

TRADITION · INNOVATION · QUALITY



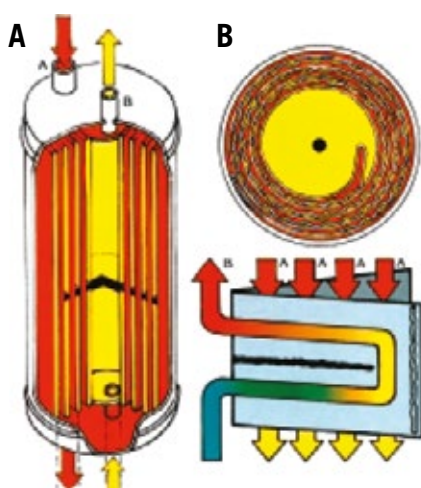
SPIREC HEAT EXCHANGERS (water-water/oil)





KN series

- Provides a constant supply of domestic hot water (steam or water heated)
- High heat transfer coefficient in accordance with demand of 3-75 l/min domestic hot water production
- Extra small installation size, takes up little space - 100 mm diameter
- Maximum allowable operating pressure on both sides 16 bar, maximum temperature 150 °C
- Parts having contact with fluid (water) are made of stainless steel
- Durable, welded structure, 0,8 mm polished, stainless steel coiled plate
- Can be easily unloaded without using adhesive; by use of aggressive medium Teflon coating can be also inserted
- Rubber tubing made of silicone and Teflon
- Connection nozzle types: with threads or flanges



Operating scheme of heat exchanger

A. Shell side

B. Coil side

FÉG-Spirec KN heat exchangers have an extra small installation size, high strength and durability. The cylindrical coiled heat exchanger with a diameter of 100 mm prepares domestic hot water. It can be further used for floor and swimming pool heating or in solar thermal applications.

Water flows through helical coils in turbulent condition (see figure). One of the heating medium (A) flows through a curved pipe, the other one (B) will pass across. Maximum heat transfer factor ranges between 3-6 kW/m²K. This implies a better heat transfer; at a proper continuous water flow speed of >1m/sec no scaling will be occurred in the exchanger.

- Extra small installation size, takes up a little space
- Excellent heat transfer coefficient
- Suitable for exchanging a very small amount of water as well
- Wide range of use: domestic hot water production, separation of heating system, operating floor heating, cooling processes
- Parts having contact with fluid (water) are made of 0,5 mm corrosion resistant steel
- AWI-welding (not soft soldering or lead lock)
- Silicon (basic series) or Teflon (optional) divides plumbing
- Operating temperature -50°C-150°C
- Maximum operating pressure: 10 bar, test pressure: 15 bar
- Connection nozzle types: with threads or flanges



KNV heat exchangers are smaller than KN exchangers. Demand for small space and thin plate structure results a very good heat transfer coefficient; it can be used under different pressure conditions. Extra small size and hydraulic characteristics makes FÉG Spirec KNV heat exchangers optimal for serving modern heating appliances.

KNV heat exchangers have been installed exclusively in FÉG Cirkonova boilers so far.





SPIREC HEAT EXCHANGERS (water-water/oil)

Type	Connection nozzle type	Max. capacity	Sizes			Connection nozzle		Weight	
			Diameter	Length	Full length	Jacket side	Helical side	Empty	Filled w/ fluid
		kW	mm	mm	mm	"	"	Kg	Kg
KN-0	w/thread	30	100	153	210	3/4"	1/2"	2,7	3,2
KN-1	w/thread	75	100	273	330	1	3/4"	4,7	5,5
KN-2	w/thread	105	100	393	450	1	3/4"	6,7	7,7
KN-3	w/thread	130	100	513	570	1	3/4"	8,7	10
KT-3	flange	130	100	513	640	NA25	NA20	10,7	12
KNV-0-P	w/thread	32	73	155	206	3/4"	1/2"	1,2	
KNV-1-P	w/thread	45	73	255	306	3/4"	1/2"	2	
KNV-2-P	w/thread	70	73	355	406	3/4"	1/2"	2,8	

Legend:

P: Teflon coating



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