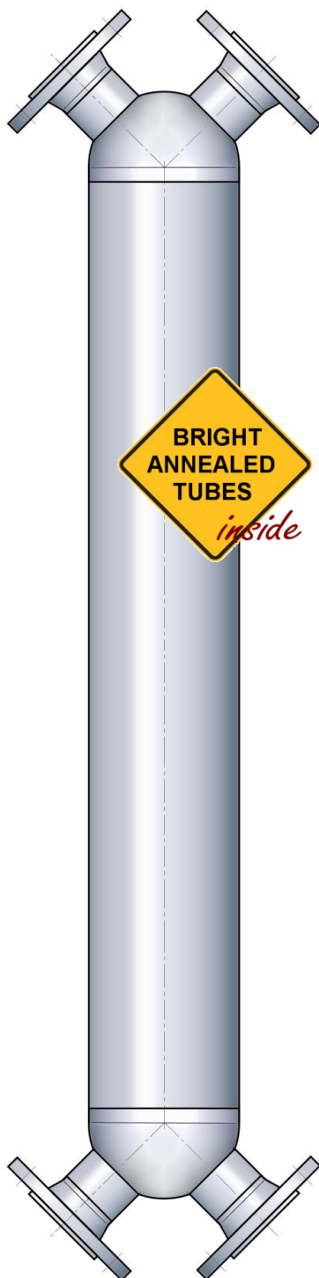


SHELL & COIL HEAT EXCHANGER

- helically coiled tubes heat exchanger

type **HTH**



**District Heating,
Steam systems,
Chemical and Food
industry,
CIP units**



BENEFITS AND FEATURES OF DESIGN

- Effect of increasing HTC inside tubes due to curve shape channel
- Direct crossflow in constant channel of shell-side – any baffles inside, constant shell-side velocity
- Long thermal length
- High resistance to static and dynamic loading (pressure, temperature) – the best compensation of thermal changes .
- Small internal volumes brings quick action and needs appropriate control system
- High reliability, e.g. for Steam, Thermal oils, Food oils
- Condensation ,Evaporation, Heating , Cooling
- Completely welded – any gaskets inside
- Highly compact
- Homogenizing influence
- Suitable in terms of process control
- Advanced design, long-term operational experience

Heat transfer area consists of helicoidally, coaxial coils made of tubes $\varnothing 8 \times 0,6$ mm. Tube bundle is ended at two tubesheets located in separate nozzles. Unit has small demands for installation place at system at vertical position.

Heat exchanger is not dismountable, but all welded design made of stainless steel class WNr.1.4541, or 1.4404 (complete unit or tubebundle only). Product is completely passivated in a bath.

We use sizing software for design, which allow us to optimise all demands and find the most effective solution.

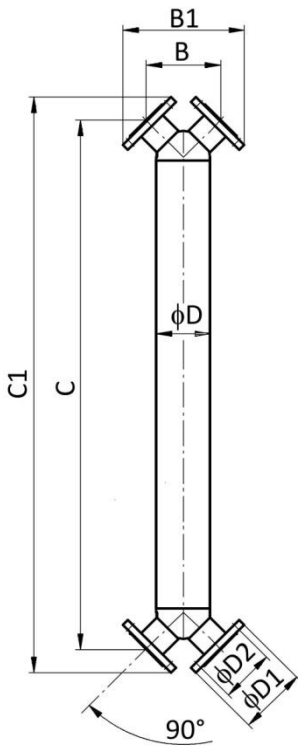
SHELL & COIL HEAT EXCHANGER



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Heat Exchanger	Heat transfer area	Dimensions					Flange		Weight
		Shell diameter	Connections Width / Height		Total Width / Height		Shell side	Tube side	
			φD	B	C	B1	C1	DN	
model	m ²	mm	mm	mm	mm	mm	PN40	PN40	kg
HTH 1	0,5	60	140	1490	218	1568	25	25	14
HTH 2	1,2	80	150	1500	252	1602	40	40	19,6
HTH 3	2	102	170	1520	282	1632	50	50	30,2
HTH 4	3	120	170	1520	282	1632	50	50	40
HTH 5	4	140	190	1540	317	1667	65	65	50
HTH 6	5,4	159	220	1570	357	1707	80	80	63,8
HTH 7	7	180	220	1570	357	1707	80	80	76
HTH 8	8,6	200	220	1570	357	1707	80	80	90
HTH 9	10	219	270	1620	432	1782	100	100	105
HTH 10	12	240	270	1620	432	1782	100	100	136
HTH 11	14	260	270	1620	432	1782	100	100	150
HTH 12	16	273	320	1670	507	1857	125	125	166
HTH 15	24	335	400	1750	608	1958	150	150	236
HTH 21	40	450	700	2100	908	2308	150	150	360

MARKING AND CODES

Example of marking

HTH 15 A/A 14541 40/40 11B/01B

1 2 3 4 5 6 7 8

- HTH** - type
- 15** - size acc. table
- A/A** - code of working parameters tube/shell A/A, B/B, B/A, C/A, C/B, D/A, D/B, E/A, E/B
A - 16bar / 200°C
B - 25bar / 250°C
C - 30bar / 200°C
D - 32bar / 200°C
E - 35bar / 200°C
- 14541** - WNr. type of steel
1.4541 - DIN : X6CrNiTi18-10, AISI: 321
1.4404 - DIN : X 2 CrNiMo 17 13 2, AISI : 316L
- 40** - flange PN40 on tube-side (acc. EN 1092-1)
- 40** - flange PN40 on shell-side (acc. EN 1092-1)
- 11B** - flange type 11B on tube-side (acc. EN 1092-1)
- 11E** - flange type 11E on shell-side (acc. EN 1092-1)

SHELL & COIL HEAT EXCHANGER

