Removable Exchangers
Water Heaters
BOIL CUSTOM



fiorini

Custom water heaters with 1 or 2 inspection holes and tube heat exchanger

The Boil custom range has been designed to give the user the possibility of composing the system for the production of domestic hot water that best suits the project requirements. The selection concerns the type of accumulation, volume and power of the desired exchanger. This makes it possible to create flexible solutions in terms of storage type, volume and power of the exchanger.

BOIL CUSTOM 1 INSPECTION HOLE

This solution makes it possible to couple the domestic hot water storage with a tube bundle or copper spiral exchanger.

BOIL CUSTOM 2 INSPECTION HOLES

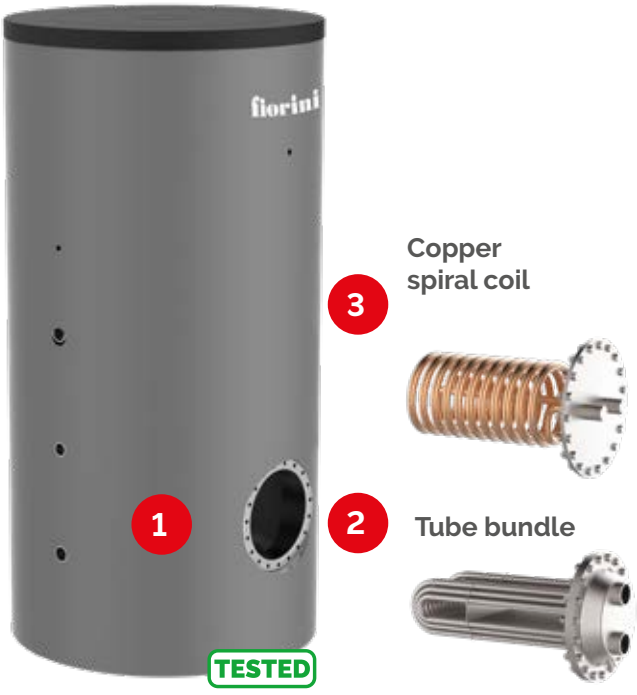
This solution makes it possible to couple each of the two hatches of the sanitary water storage. with a tube bundle or copper spiral heat exchanger. It is also possible to install just one exchanger, allocating the remaining hatch to the inspection function: in this case it is necessary to provide a blank closing plate.

❖ HOW TO CONFIGURE BOIL CUSTOM WITH 1 INSPECTION HOLE

1. Select a FLEXY or FLEXY INOX storage tank with 1 hole from the following page
2. Select the suitable exchanger model based on compatibility with the storage tank and the thermal power to be exchanged:
   - Tube bundle (See page 204)
   - Coiled copper coil (See page 206)

❖ HOW TO CONFIGURE BOIL CUSTOM WITH 2 INSPECTION HOLES

1. Select a FLEXY or FLEXY INOX tank with 2 hatches from the following page
2. For each hatch, select the suitable exchanger model based on compatibility with the storage tank and the thermal power to be exchanged:
   - Tube bundle (See page 204)
   - Coiled copper coil (See page 206)
3. Optionally select the blanking plate from the following page





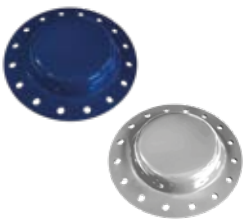
Custom water heaters with 1 or 2 inspection holes and tube heat exchanger



	ENAMELLED FLEXY 1 INSPECTION HOLE (PAG 156)				ST. STEEL FLEXY 1 INSPECTION HOLE (PAG 164)			
Cap. l	Code	Price	Energy label	Inspection hole Øext mm	Code	Price	Energy label	Inspection hole Øext mm
200	817060032X		B	Ø300	817040188X		B	Ø300
300	817060033X		B	Ø300	817040189X		B	Ø300
500	817060034X		C	Ø300	817040190X		C	Ø300
750	817060035X		C	Ø380	817040191X		C	Ø380
1000	817060036X		C	Ø380	817040192X		C	Ø380
1500	817080112X		C	Ø380	817040193X		C	Ø380
2000	817080099X		C	Ø430	817040194X		C	Ø430
2500	817080100X			Ø430	817040195X			Ø430
3000	817080101X			Ø430	817040196X			Ø430
4000	817080102X			Ø430	817040197X			Ø430
5000	817080103X			Ø430	817040198X			Ø430



	ENAMELLED FLEXY 2 INSPECTION HOLES (PAG 164)				ST. STEEL FLEXY 2 INSPECTION HOLES (PAG 166)			
Cap. l	Code	Price	Energy label	Inspection hole Øext mm	Code	Price	Energy label	Inspection hole Øext mm
200	817080134X		B	Ø300	817040199X		B	Ø300
300	817080135X		B	Ø300	817040200X		B	Ø300
500	817080136X		C	Ø300	817040201X		C	Ø300
750	817080191X		C	Ø380	817040202X		C	Ø380
1000	817080138X		C	Ø380	817040203X		C	Ø380
1500	817080139X		C	Ø380	817040204X		C	Ø380
2000	817080140X		C	Ø430	817040205X		C	Ø430
2500	817080141X			Ø430	817040206X			Ø430
3000	817080142X			Ø430	817040207X			Ø430
4000	817080143X			Ø430	817040208X			Ø430
5000	817080144X			Ø430	817040209X			Ø430

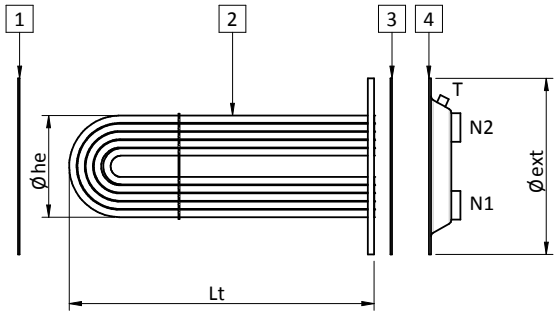


		Enamelled heads		Stainless steel heads	
Diametre mm	Tank capacity	Code	Price	Code	Price
Ø300	from 200 to 500 l	843030018X		843040019X	
Ø380	from 750 to 1500 l	843030019X		843040020X	
Ø430	from 2000 to5000 l	843030020X		843040021X	

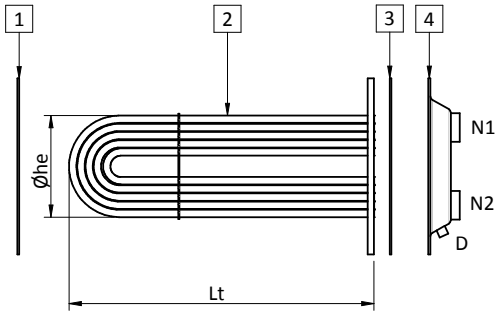
The heads are supplied complete with bolts and gasket.

Bundle tube heat exchanger

Water only

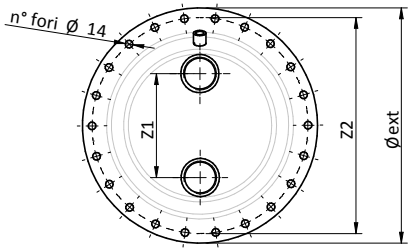


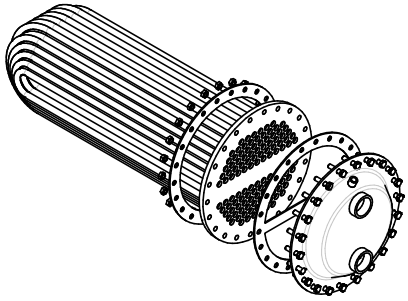
Steam only



Couplings legend

D	Drain
N1	Exchanger inlet/outlet
N2	Exchanger inlet/outlet
T	Vent
1	Gasket without cross-beam
2	Bundle tube heat exchangers
3	Gasket with cross-beam
4	Head





Technical information tube heat exchanger

Surf. m²	Power* kW	Lt mm	Øext mm	Øhe mm	N1 inch	N2 inch	T, D inch	Z1 mm	Z2 mm	n° holes	Vol. l	dp mca
0,5	12,2	460	300	166	1"	1"	3/8"	120	262	16	1,84	0,65
0,75	18,4	445	300	202	1"	1"	3/8"	120	262	16	2,44	0,65
1	24,5	475	300	202	1"	1"	3/8"	120	262	16	3,23	0,7
1,5	36,7	600	380	270	2"	2"	3/8"	145	345	19	5,36	0,75
2	49	600	380	270	2"	2"	3/8"	145	345	19	6,51	0,8
3	73,5	720	380	278	2"	2"	3/8"	145	345	19	9,8	0,9
4	98	750	430	316	2"	2"	3/8"	190	395	22	13,2	1
5	122,5	780	430	324	2"	2"	3/8"	190	395	22	16,68	1,1
6	147	895	430	324	2"	2"	3/8"	190	395	22	19,2	1,2
8	196	1250	430	324	2"	2"	3/8"	190	395	22	27	1,3
10	245	1510	430	324	2"	2"	3/8"	190	395	22	32,7	1,4

Performance calculated with primary 80°C and domestic water 10-45°C

Compatibility between (1) the tube heat exchanger and (4) the storage tank

	Surface m²										
Cap. l	0,5	0,75	1	1,5	2	3	4	5	6	8	10
200	✔	✔	✔								
300	✔	✔	✔								
500	✔	✔	✔								
800				✔	✔	✔					
1000				✔	✔	✔					
1500				✔	✔	✔					
2000							✔	✔	✔		
2500							✔	✔	✔		
3000							✔	✔	✔	✔	
4000							✔	✔	✔	✔	
5000							✔	✔	✔	✔	✔

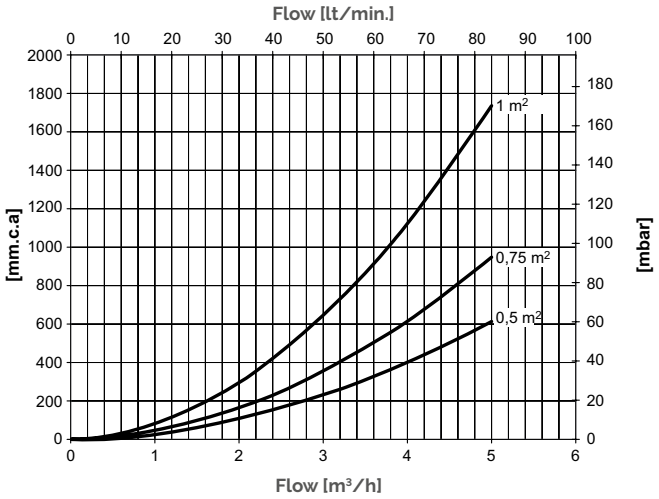
✔ Combination is possible

	Version 1 Stainless steel AISI 304		Version 2 Stainless steel AISI 316		Version with steam P ≤ 6 bar			Version with steam P ≤ 12 bar		
surf. m²	Code	Price	Code	Price	Code	Price	cat. P.E.D.	Code	Price	cat. P.E.D.
0,5	821030379X		821030393X		821030285X		Art.4 par.3	821030405X		Cat. I
0,75	821030380X		821030394X		821030286X		Art.4 par.3	821030406X		Cat. I
1	821030381X		821030395X		821030287X		Art.4 par.3	821030407X		Cat. I
1,5	821030382X		821030396X		821030288X		Cat. I	821030408X		Cat. I
2	821030383X		821030397X		821030289X		Cat. I	821030409X		Cat. I
3	821030385X		821030399X		821030291X		Cat. I	821030411X		Cat. I
4	821030386X		821030400X		821030292X		Cat. I	821030412X		Cat. II
5	821030387X		821030401X		821030293X		Cat. I	821030413X		Cat. II
6	821030388X		821030402X		821030294X		Cat. I	821030414X		Cat. II
8	821030389X		821030403X		821030296X		Cat. I	821030416X		Cat. II
10	821030390X		821030404X		821030418X		Cat. II	821030418X		Cat. II

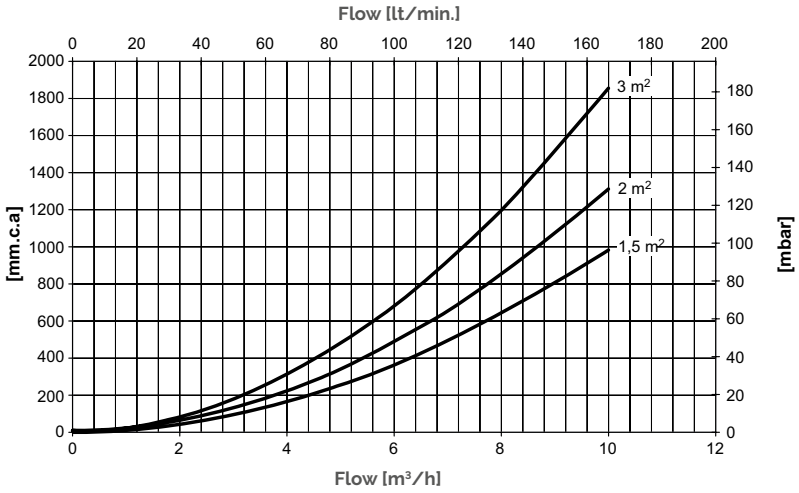
Version 1: AISI 304 stainless steel tube heat exchanger, assembled on a varnished plate with galvanised head
Version 2 and version with steam: AISI 306 stainless steel tube heat exchanger on a AISI 316 steel plate and AISI 304 steel head

Bundle tube heat exchanger
Curve: pressure loss

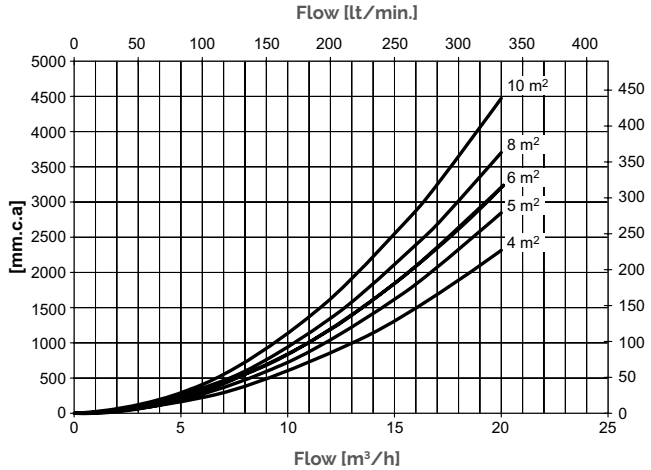
Exchanger surface 0,5 - 1 m²



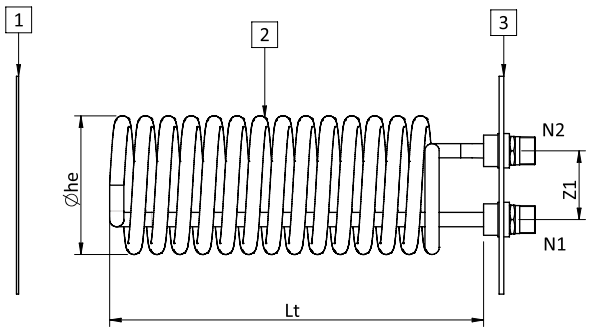
Exchanger surface 1,5 - 3 m²

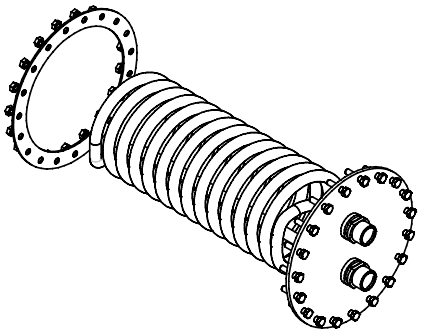


Exchanger surface 4 - 10 m²



Copper spiral coil





Compatibility chart for copper spiral coil and storage tank

Capacity l	Surface m²							
	0,82	1,38	1,53	2,27	3,1	4,54	5,26	6,34
200	✔	✔	✔					
300	✔	✔	✔					
500	✔	✔	✔	✔	✔			
800	✔	✔	✔	✔	✔	✔	✔	✔
1000	✔	✔	✔	✔	✔	✔	✔	✔
1500	✔	✔	✔	✔	✔	✔	✔	✔
2000	✔	✔	✔	✔	✔	✔	✔	✔
2500	✔	✔	✔	✔	✔	✔	✔	✔
3000	✔	✔	✔	✔	✔	✔	✔	✔
4000	✔	✔	✔	✔	✔	✔	✔	✔
5000	✔	✔	✔	✔	✔	✔	✔	✔

✔ Combination is possible

Couplings legend

N1	Ingresso/uscita scambiatore
N2	Ingresso/uscita scambiatore
1	Guarnizione S/T (senza traverso)
2	Serpentino rame alettato
3	Piastra di montaggio

Technical information copper spiral coil

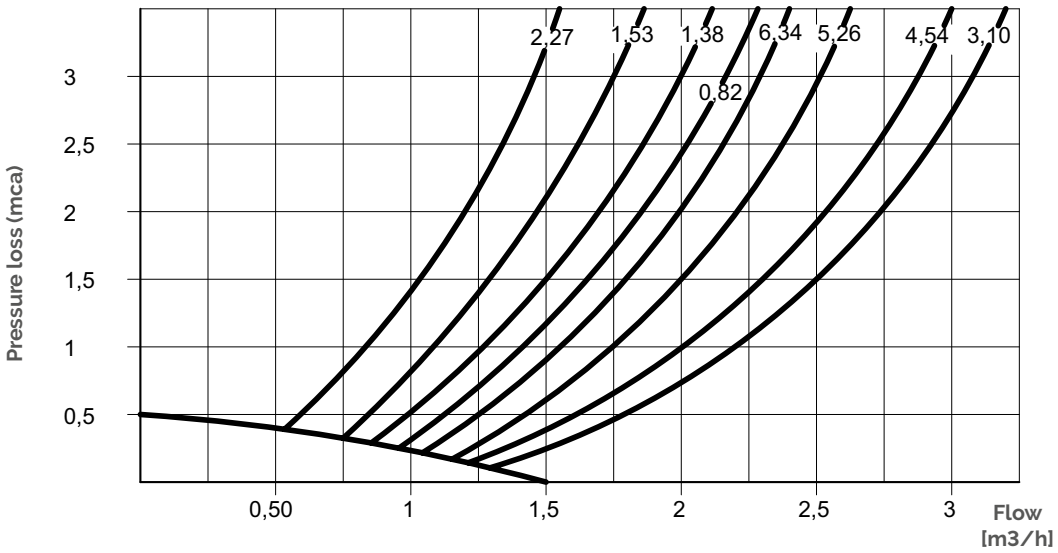
Surf. m²	Lt mm	Øhe mm	Z1 mm	N1 inch	N2 inch	Type of coil	Internal volume l	Dp kPa	Thermal eff. (*) kW	T max °C	P max bar
0,82	380	160	75	3/4"	3/4"	Single coil	0,7	25	15	99	9
1,38	420	170	75	3/4"	3/4"	Single coil	1,2	30	21,6	99	9
1,53	450	170	75	3/4"	3/4"	Single coil	1,4	35	24	99	9
2,27	570	170	75	3/4"	3/4"	Single coil	2	35	27	99	9
3,1	550	180	90	1"1/4	1"1/4	Double coil	2,7	26	35	99	9
4,54	570	242	120	1"1/4	1"1/4	Double coil	3,9	35	55	99	9
5,26	660	242	120	1"1/4	1"1/4	Double coil	4,5	35	57,5	99	9
6,34	780	242	120	1"1/4	1"1/4	Double coil	5,5	35	61,5	99	9

*Performance calculated with the following temperatures: primary 80°C and domestic water 10-45°C

Surface area m²	Assembled on a plate Ø300		Assembled on a plate Ø380		Assembled on a plate Ø430	
	Code	Price	Code	Price	Code	Price
0,82	821040017		821040254X		821040259X	
1,38	821040019		821040255X		821040260X	
1,53	821040020		821040256X		821040261X	
2,27	821040252X		821040021		821040262X	
3,1	821040253X		821040022		821040263X	
4,54	-		821040023		821040027	
5,26	-		821040257X		821040024	
6,34	-		821040258X		821040025	

The copper coils are supplied with plates, bolts, nuts and gaskets

Copper spiral coil
Curve: pressure loss





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