

KMS SINGLE COIL TECHNICAL DATA TABLE



IMPIEGO
Production and storage of domestic hot water (DHW).
All hydraulic connections on the rear, front connections and the C ring.

Volume
100L-3000L

Maximum Heating Power
243 kW_n

Heat Exchanger Maximum Operating Temperature
110°C

Heat Exchanger Maximum Operating Pressure
8 bar

Domestic Hot Water Maximum Operating Temperature
95°C

Domestic Hot Water Maximum Operating Pressure
8 bar

Inner Surface Coating
Tank inner surface is enamelled (glass-lined) in accordance with DIN 4753-3 standard.



Energy efficiency class **C+**



60°C DHW with the heat pump only



8 Bar
Rated pressure



KMS SINGLE COIL TANK

HEAT EXCHANGER SURFACE

ENERGY CLASS

Model

CODE

[m²]



Model	CODE	[m ²]	ENERGY CLASS
100	8684252640102	0,62	C
150	8684252640003	0,93	C
200	8684252640027	1,03	C
300	8684252640034	1,58	C
500	8684252640041	1,97	C
750	8684252640058	2,77	D
1000	8684252640065	3,16	D
1500	8684252640072	4,75	D
2000	8684252640089	5,45	D
3000	8684252640096	7,12	D

ACCESSORY

ELECTRIC HEATERS



Mod.	Robust usable volume Electric [l]
100	23
150	30
200	56
300	89
500	152
750	279
1000	345
1500	510
2000	590
3000	675

MONOPHASE

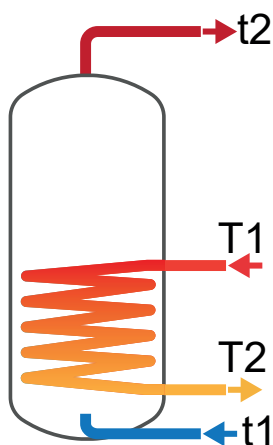
1,5 kW	2 kW	3 kW
Heating time with heating elements from 10 °C to 45 °C		
40	33	22
53	40	27
100	75	50
159	119	79
272	204	136
500	375	250
618	464	309
914	686	457
1150	900	620
1700	1300	1020

TRIPHASE

4 kW	5 kW	6 kW	9 kW	12 kW	15 kW
Heating time with heating elements from 10 °C to 45 °C					
20	-	-	-	-	-
38	-	-	-	-	-
60	48	-	-	-	-
102	82	68	-	-	-
187	150	125	83	62	-
232	185	155	103	77	-
343	270	235	155	120	-
450	400	370	330	300	285
700	580	535	515	490	450

KMS SINGLE COIL TECHNICAL DATA TABLE

- The data shown in the table refer to the following conditions:
- Heat exchanger inlet temperatures are given in the tables as T1=90 °C / 80 °C / 70 °C.
- In the tables, the boiler inlet is given as t1=10 °C and the outlet as t2=45 °C / 60 °C.



SINGLE SERPANTINE BOILER CAPACITY TABLE

MODELS	°C	100		150		200		300		500		750		1000		1500		2000		3000	
		LT/H	KW	LT/H	KW	LT/H	KW	LT/H	KW	LT/H	KW	LT/H	KW	LT/H	KW	LT/H	KW	LT/H	KW	LT/H	KW
COLD WATER INLET: 10°C - HOT WATER OUTLET: 45°C																					
CLOSED CIRCUIT WATER TEMPERATURE	90°C	507,2	20,6	760,9	30,9	842,7	34,2	1292,6	52,5	1611,7	65,5	2266,2	92,1	2590,0	105,1	3886,1	157,9	4205,2	170,9	5825,1	236,7
	80°C	487,0	19,8	730,3	29,7	809,0	32,9	1241,0	50,4	1547,3	62,9	2175,5	88,4	2482,0	100,9	3730,9	151,6	4037,2	164,1	5592,4	227,3
	70°C	466,5	19,0	700,9	28,5	775,4	31,5	1189,4	48,3	1483,0	60,3	2085,2	84,7	2378,0	96,7	3575,7	145,3	3869,3	157,2	5359,7	217,8
COLD WATER INLET: 10°C - HOT WATER OUTLET: 60°C																					
CLOSED CIRCUIT WATER TEMPERATURE	90°C	365,7	21,2	548,6	31,8	607,5	35,3	932,0	54,1	1162,0	67,5	1633,9	94,9	1863,9	108,2	2801,6	162,7	3031,8	176,0	4199,7	243,8
	80°C	351,4	20,4	527,3	30,6	584,0	33,9	895,8	52,0	1116,9	64,8	1570,5	91,2	1791,6	104,0	2693,1	156,4	2914,2	169,2	4036,8	234,4
	70°C	337,3	19,6	506,0	29,4	560,4	32,5	859,7	49,9	1071,9	62,2	1507,2	87,5	1719,2	99,8	2584,5	150,0	2796,7	162,4	3874,0	224,9



Energy efficiency
class **C+**



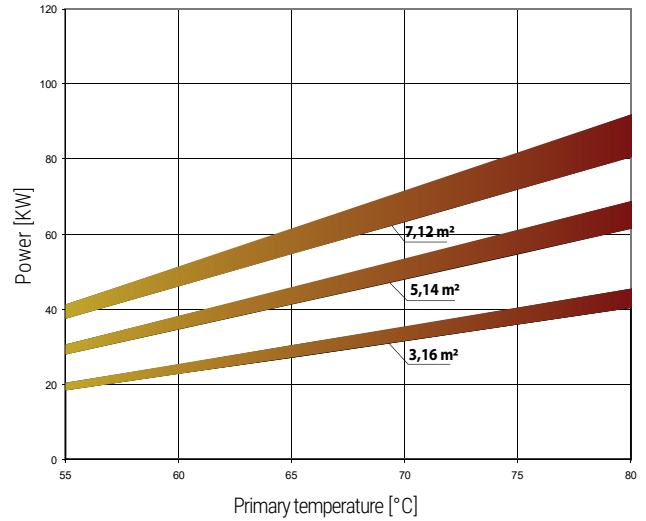
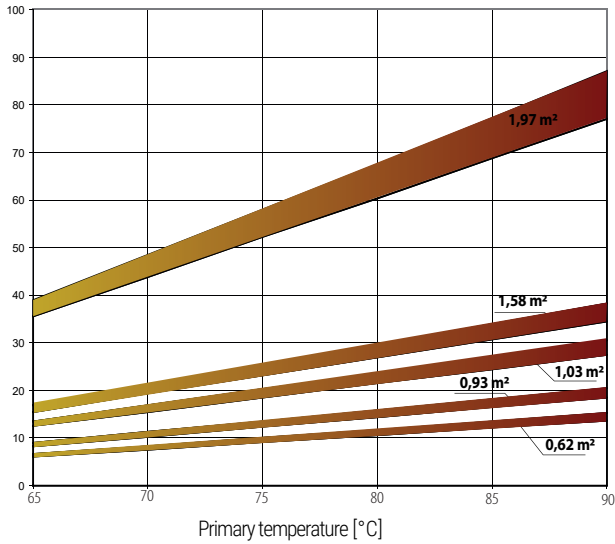
**60°C DHW with the
heat pump only**



8 Bar
Rated pressure

KMS SINGLE COIL TECHNICAL DATA TABLE

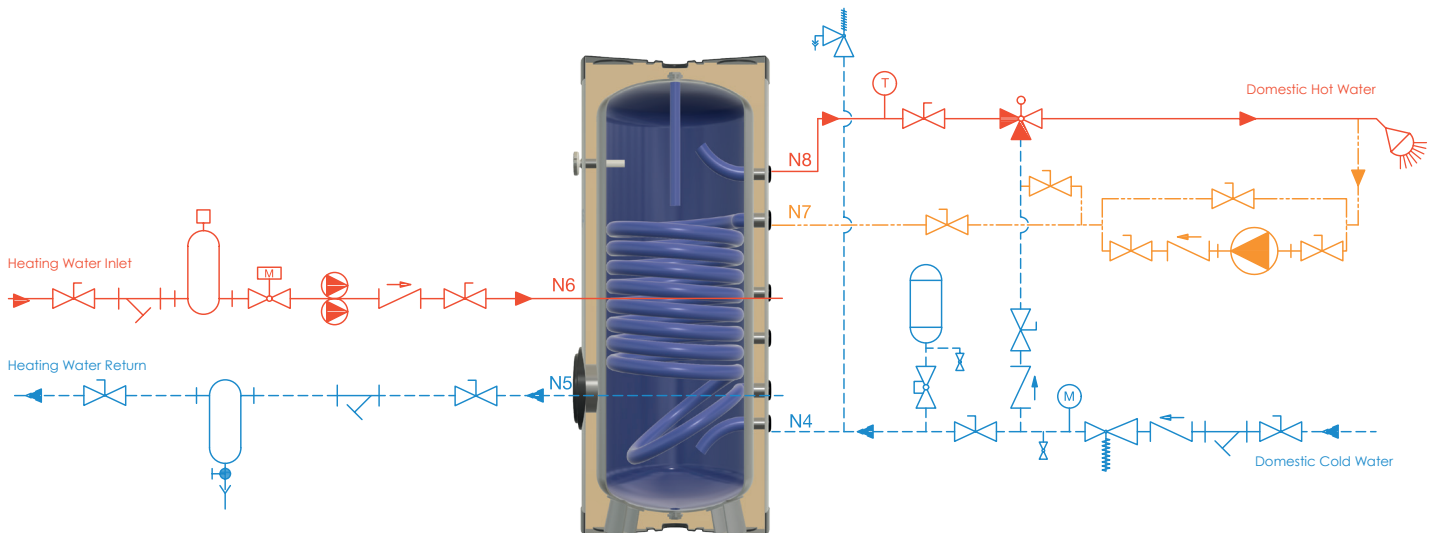
Heat exchanger power depending on the temperature and flow rate of the primary and with secondary 10/45 °C at the maximum withdrawal of DHW that can be produced (the upper limit coincides with the higher primary flow rates and vice versa)



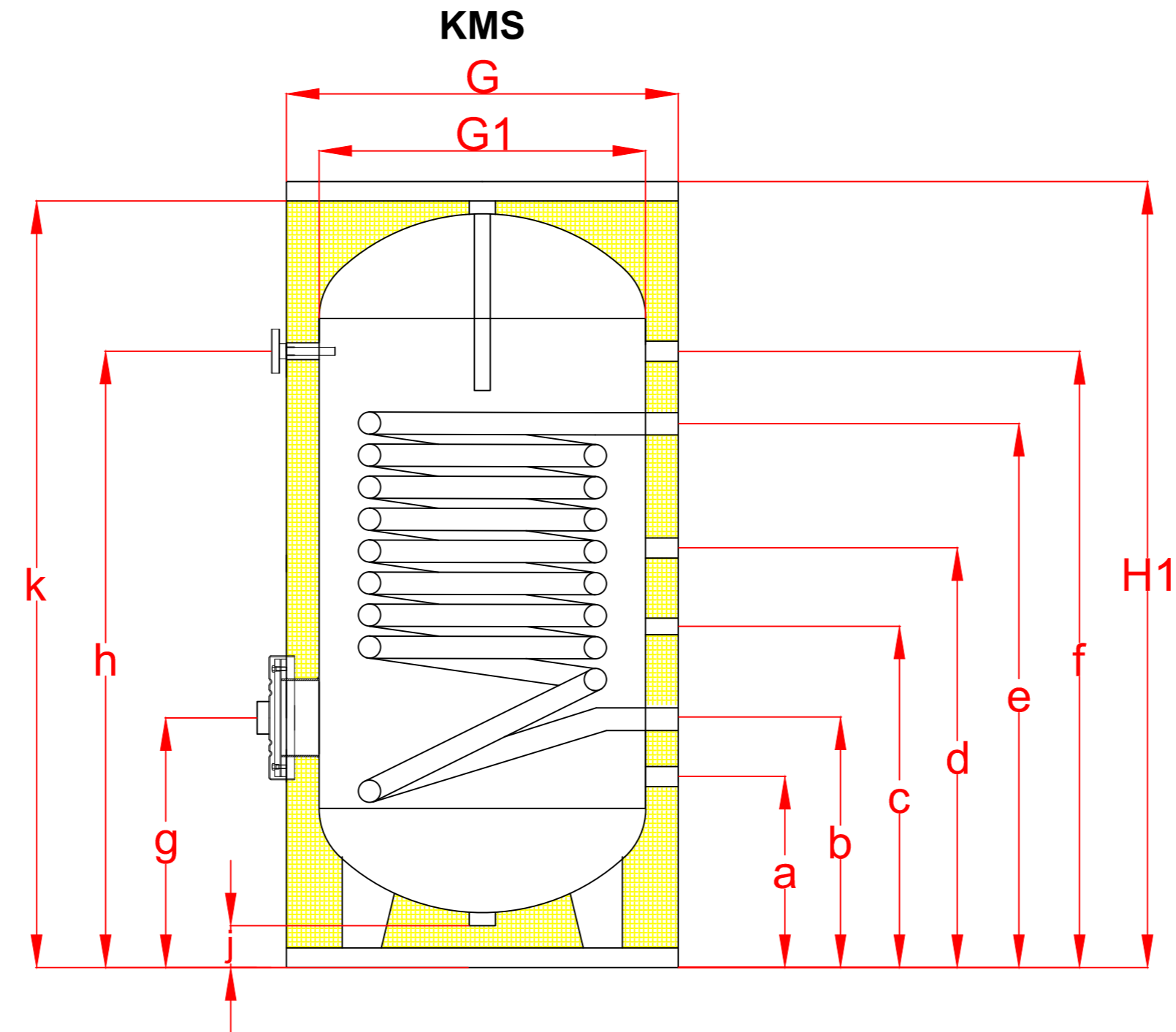
Fixed Heat Exchanger	0,62 m ²		0,93 m ²		1,03 m ²		1,58 m ²		1,97 m ²	
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR
Primary Flow Rate [m ³ /h]	2	1	2,5	1,25	3	1,5	3,5	1,75	6	3

Fixed Heat Exchanger	3,16 m ²		5,14 m ²		7,12 m ²	
	MAJOR	MINOR	MAJOR	MINOR	MAJOR	MINOR
Primary Flow Rate [m ³ /h]	3,50	1,75	6	3	6	3

INSTALLATION

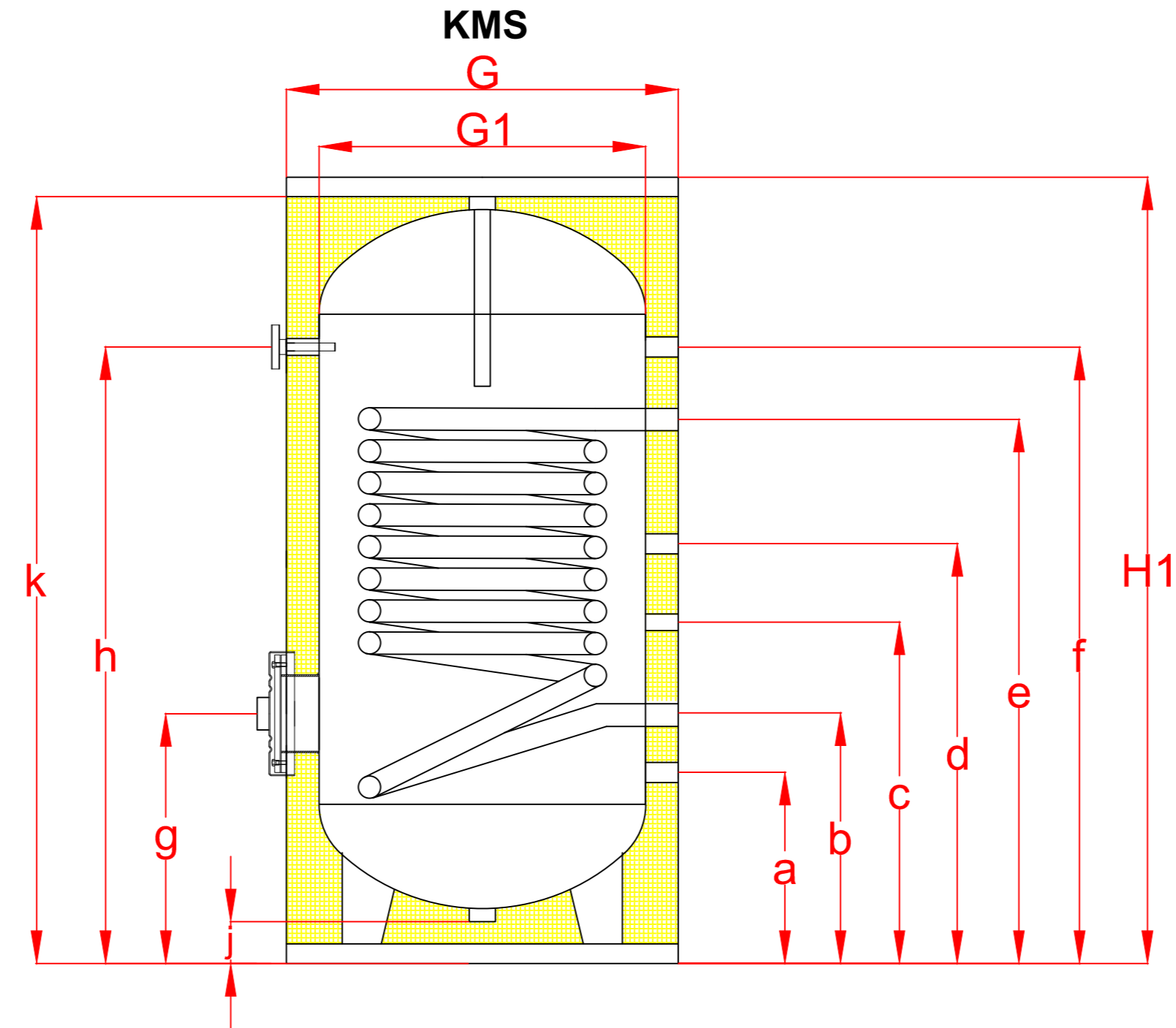


100 LITER SINGLE SERPENTINE BOILER



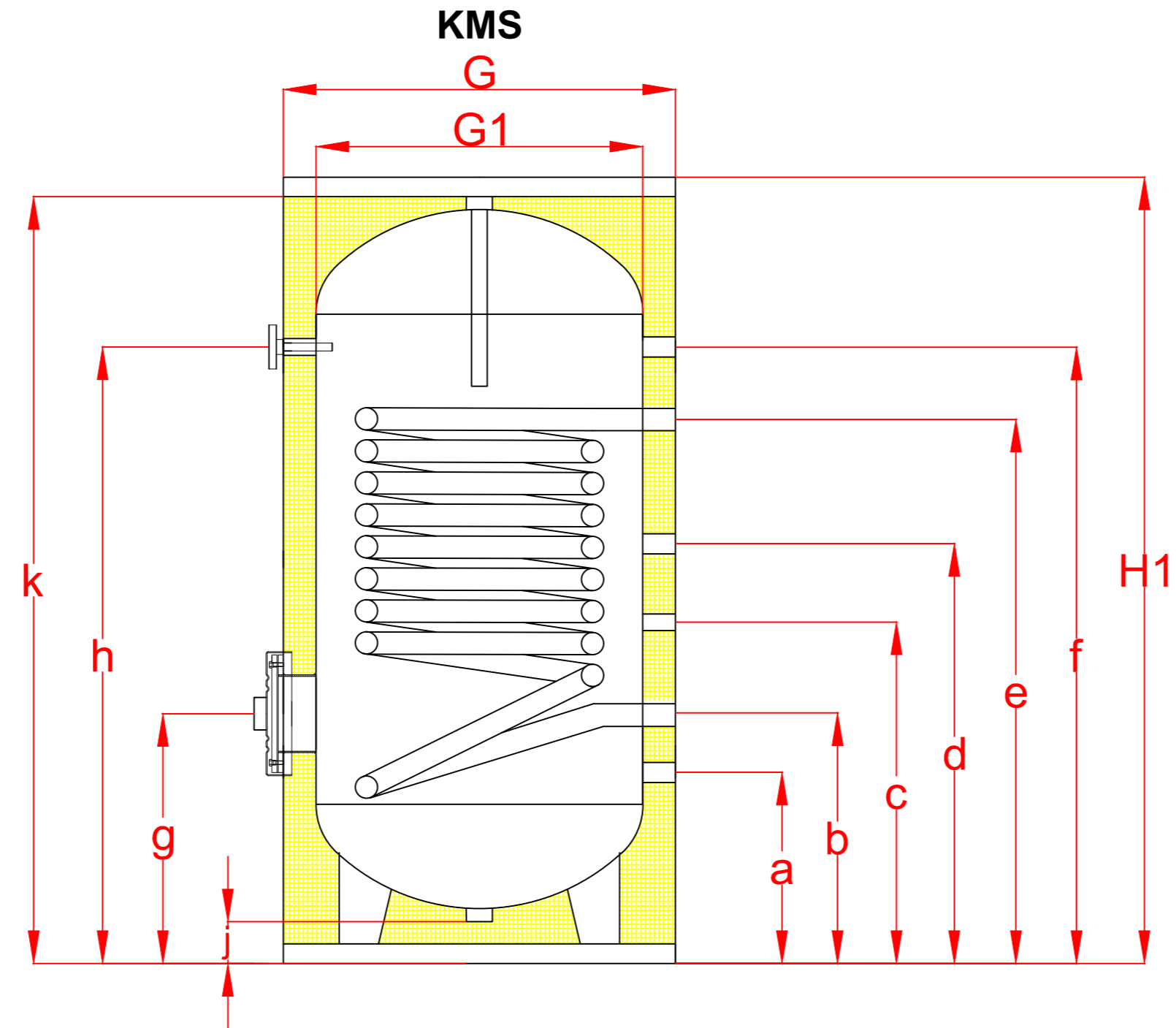
ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		500
G1	Product Inner Diameter		400
H1	Height		1120
a	Cold Water Inlet	3/4 "	350
b	Serpentine Outlet	1"	436
c	Thermostat Sensor	1/2 "	540
d	Circulation	3/4 "	650
e	Serpentine Inlet	1"	760
f	Hot Water Outlet	3/4 "	854
g	Resistance	1 1/4 "	440
h	Thermometer	1/2 "	845
j	Bottom Plug	1 1/4 "	142
k	Top Plug	1 1/4 "	1065

150 LITER SINGLE SERPENTINE BOILER



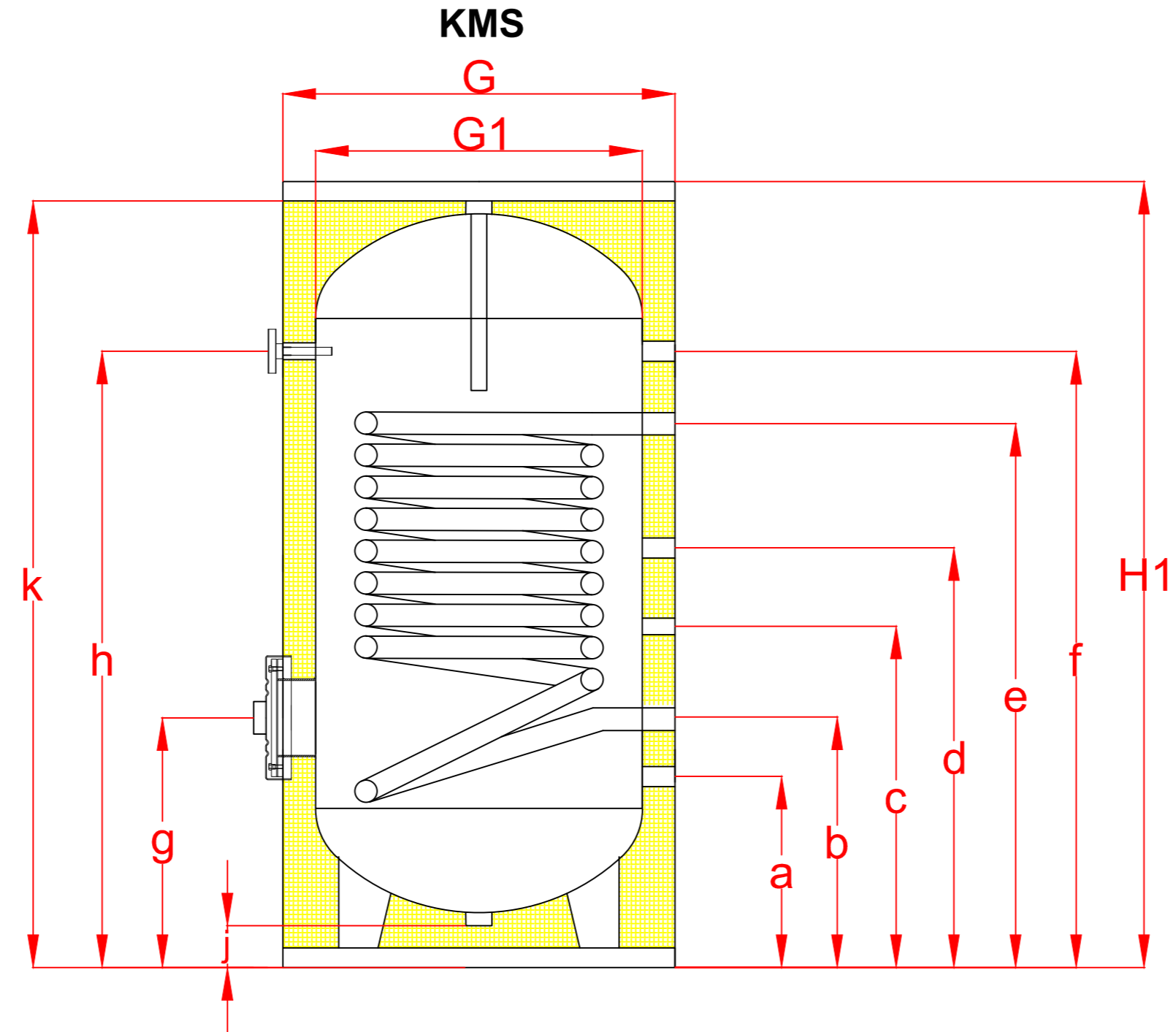
ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		550
G1	Product Inner Diameter		450
H1	Height		1240
a	Cold Water Inlet	3/4 "	327
b	Serpentine Outlet	1"	438
c	Thermostat Sensor	1/2 "	558
d	Circulation	3/4 "	700
e	Serpentine Inlet	1"	870
f	Hot Water Outlet	3/4 "	1000
g	Resistance	1 1/4 "	430
h	Thermometer	1/2 "	1000
j	Bottom Plug	1 1/4 "	142
k	Top Plug	1 1/4 "	1180

200 LITER SINGLE SERPENTINE BOILER



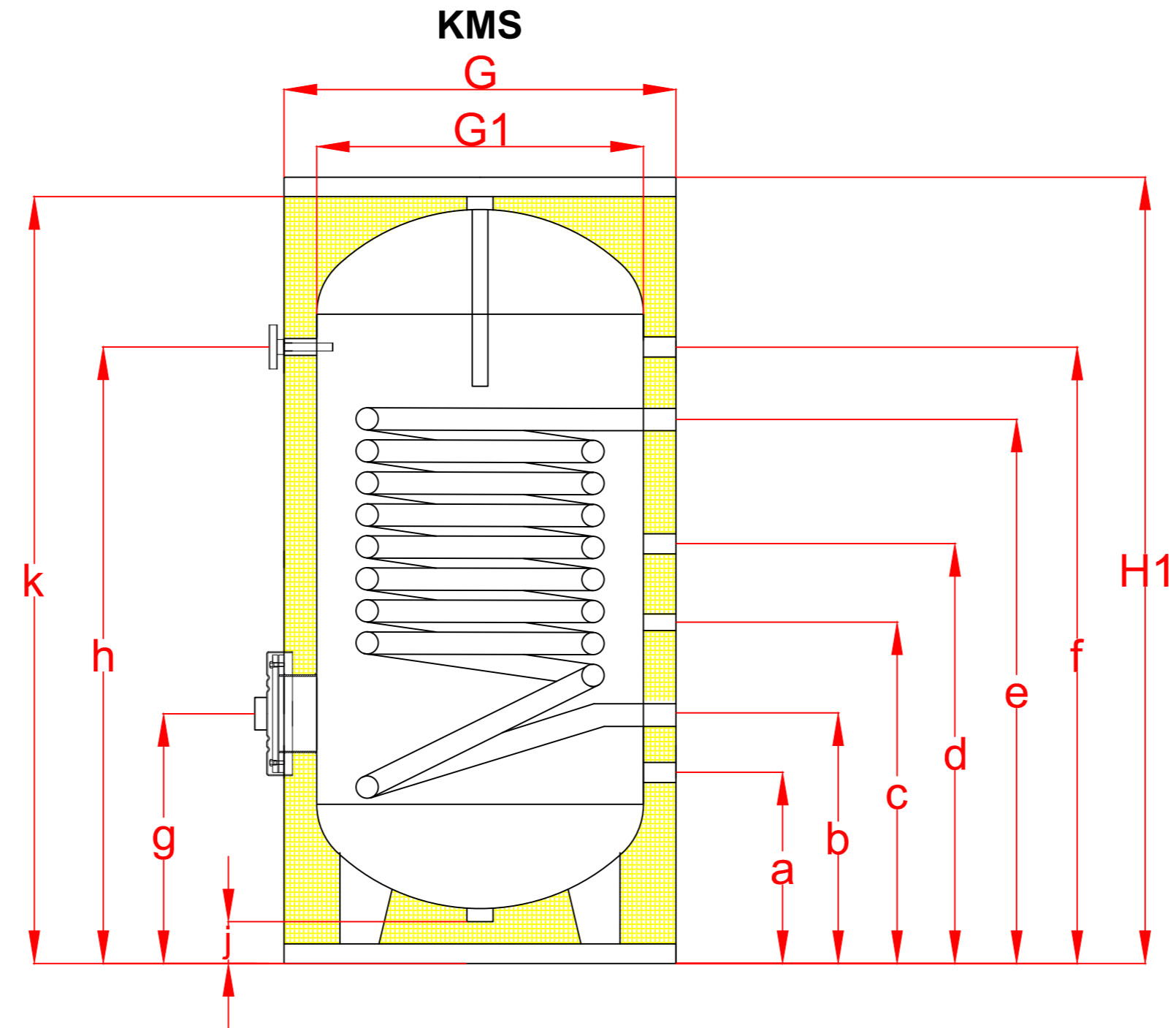
ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		600
G1	Product Inner Diameter		500
H1	Height		1245
a	Cold Water Inlet	3/4 "	340
b	Serpentine Outlet	1"	433
c	Thermostat Sensor	1/2 "	570
d	Circulation	3/4 "	692
e	Serpentine Inlet	1"	880
f	Hot Water Outlet	3/4 "	993
g	Resistance	1 1/4 "	425
h	Thermometer	1/2 "	987
j	Bottom Plug	1 1/4 "	142
k	Top Plug	1 1/4 "	1191

300 LITER SINGLE SERPENTINE BOILER



ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		700
G1	Product Inner Diameter		600
H1	Height		1250
a	Cold Water Inlet	1"	363
b	Serpentine Outlet	1 1/4 "	448
c	Thermostat Sensor	1/2 "	644
d	Circulation	1"	795
e	Serpentine Inlet	1 1/4 "	918
f	Hot Water Outlet	1"	1003
g	Resistance	1 1/4 "	470
h	Thermometer	1/2 "	1025
j	Bottom Plug	1 1/4 "	151
k	Top Plug	1 1/4 "	1212

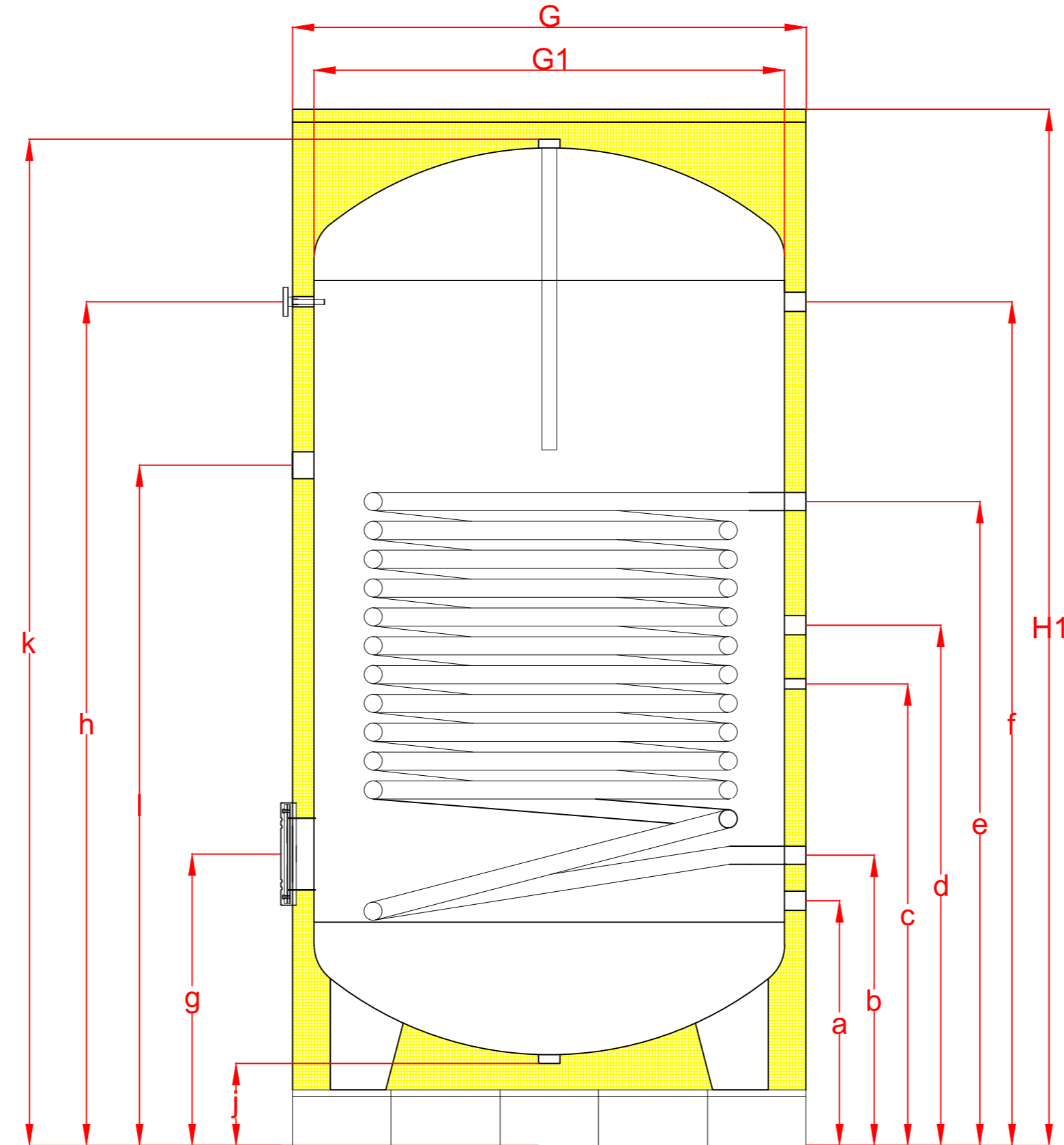
500 LITER SINGLE SERPENTINE BOILER



ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		700
G1	Product Inner Diameter		600
H1	Height		2060
a	Cold Water Inlet	1"	354
b	Serpentine Outlet	1 1/4 "	454
c	Thermostat Sensor	1/2 "	788
d	Circulation	1"	960
e	Serpentine Inlet	1 1/4 "	1108
f	Hot Water Outlet	1"	1755
g	Resistance	2 "	449
h	Thermometer	1/2 "	1754
j	Bottom Plug	1 1/4 "	149
k	Top Plug	1 1/4 "	1950

750 LITER SINGLE SERPENTINE BOILER

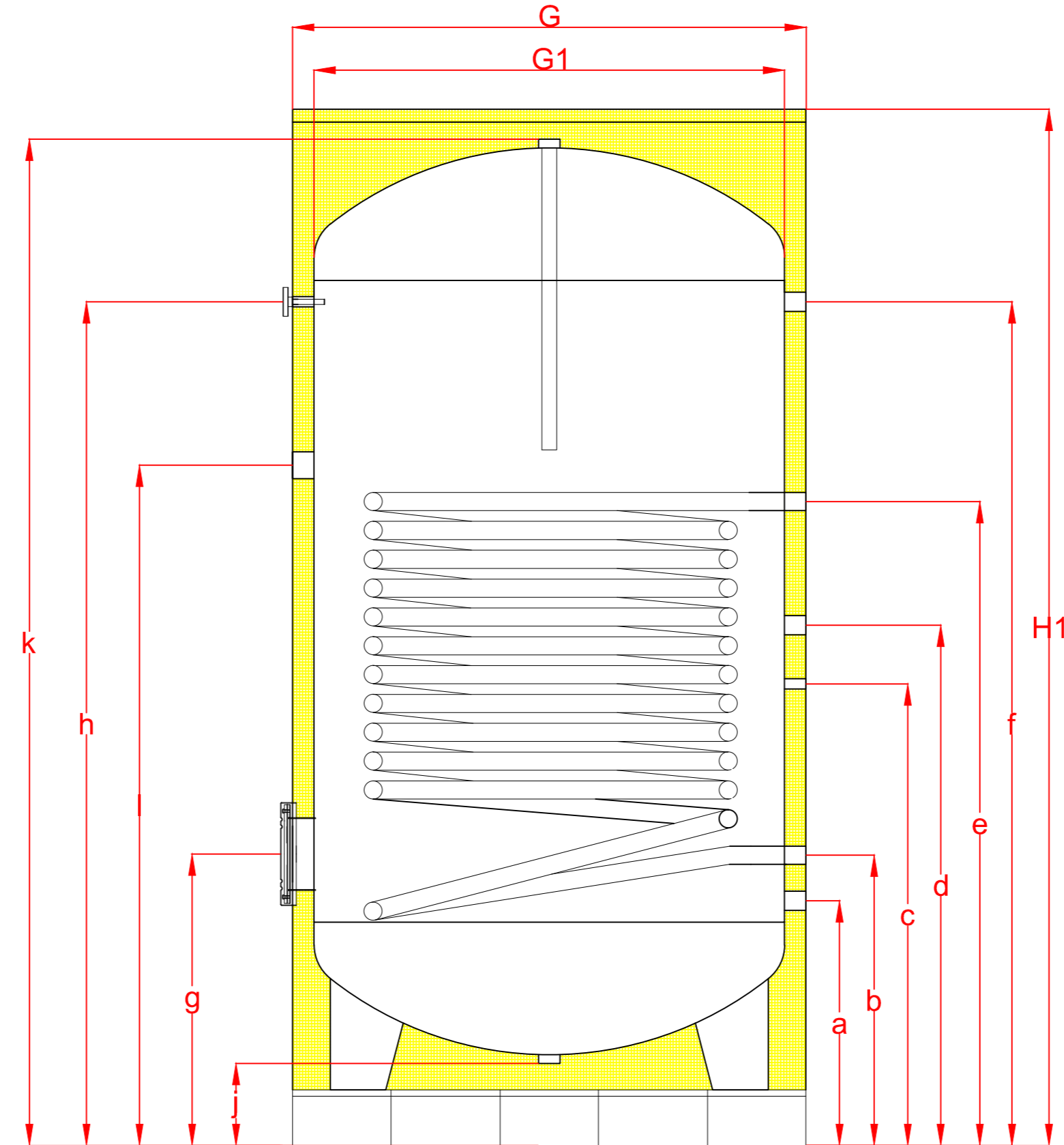
KMS



ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		850
G1	Product Inner Diameter		750
H1	Height		2200
a	Cold Water Inlet	1 1/4 "	437
b	Serpentine Outlet	1 1/4 "	548
c	Thermostat Sensor	1/2 "	845
d	Circulation	1 1/4 "	1095
e	Serpentine Inlet	1 1/4 "	1247
f	Hot Water Outlet	1 1/4 "	1830
g	Cleaning Flange	DN400	555
h	Thermometer	1/2 "	1846
j	Bottom Plug	1 1/2 "	163
k	Top Plug	1 1/2 "	2115
l	Resistance	2 "	1362

1000 LITER SINGLE SERPENTINE BOILER

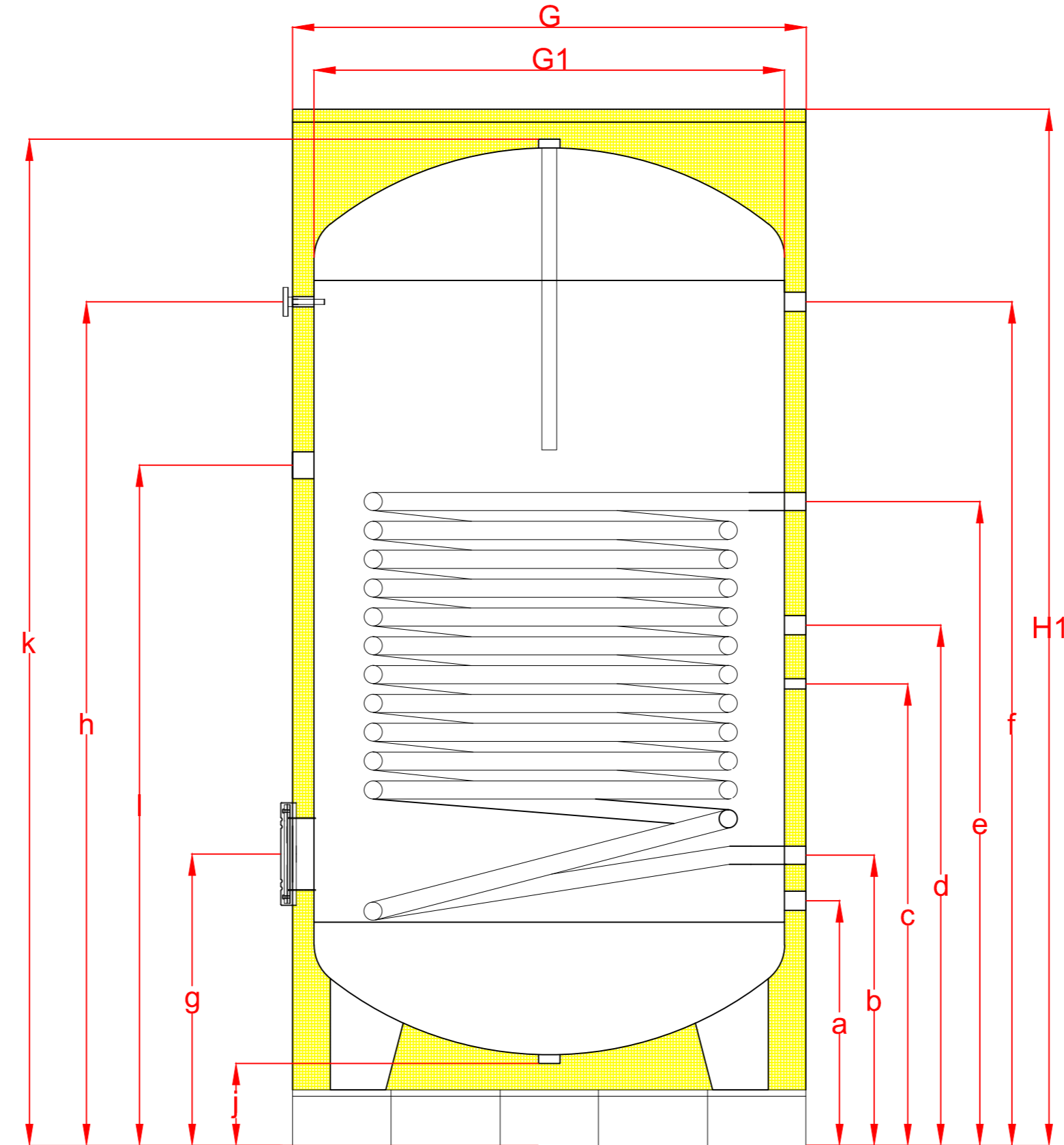
KMS



ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		950
G1	Product Inner Diameter		850
H1	Height		2200
a	Cold Water Inlet	1 1/4 "	450
b	Serpentine Outlet	1 1/4 "	553
c	Thermostat Sensor	1/2 "	887
d	Circulation	1 1/4 "	1078
e	Serpentine Inlet	1 1/4 "	1254
f	Hot Water Outlet	1 1/4 "	1849
g	Cleaning Flange	DN400	550
h	Thermometer	1/2 "	1852
j	Bottom Plug	1 1/2 "	175
k	Top Plug	1 1/2 "	2124
l	Resistance	2 "	1397

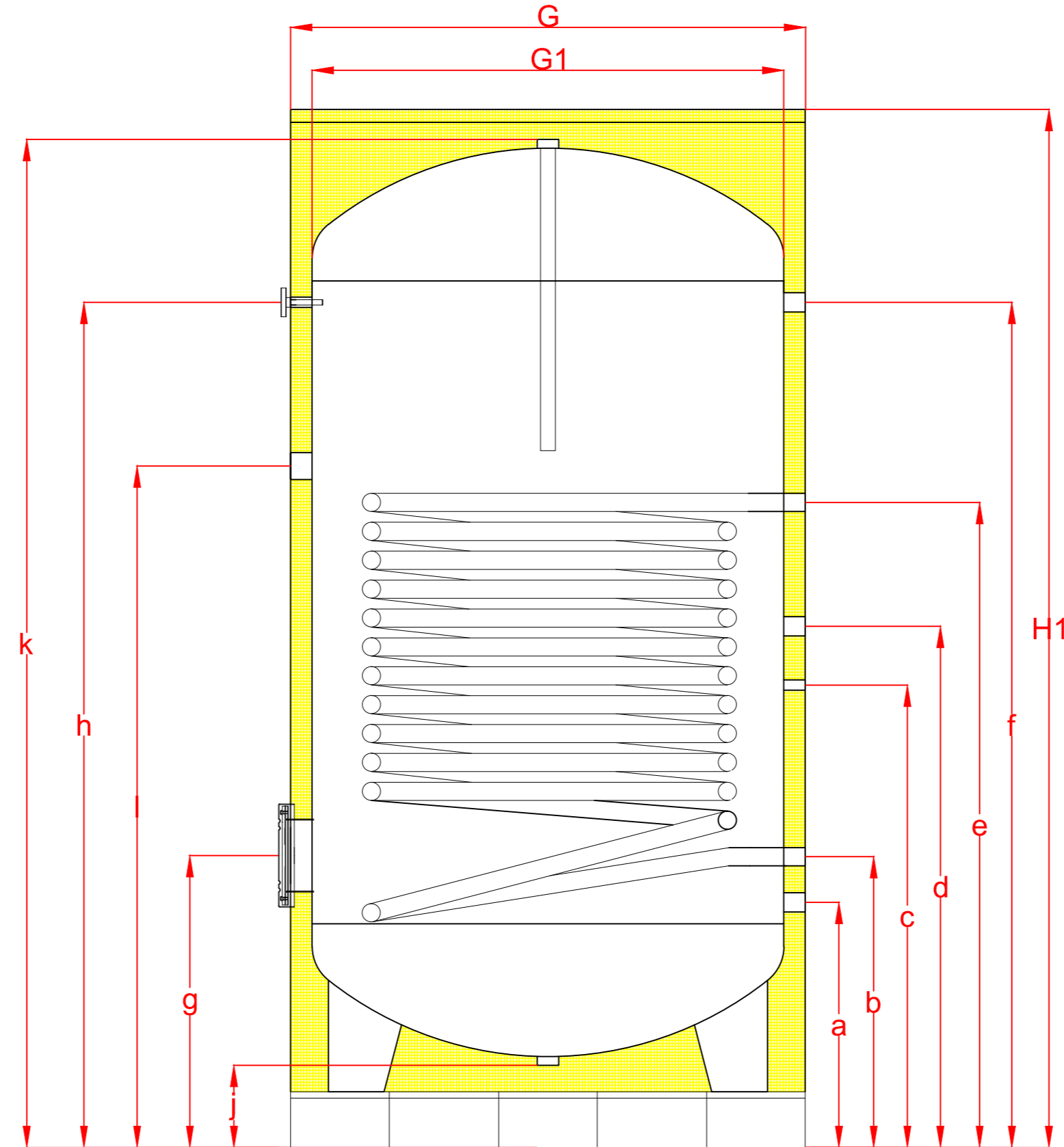
1500 LITER SINGLE SERPENTINE BOILER

KMS



ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		1200
G1	Product Inner Diameter		1100
H1	Height		2050
a	Cold Water Inlet	1 1/4 "	583
b	Serpentine Outlet	1 1/4 "	685
c	Thermostat Sensor	1/2 "	883
d	Circulation	1 1/4 "	1084
e	Serpentine Inlet	1 1/4 "	1554
f	Hot Water Outlet	1 1/4 "	1575
g	Cleaning Flange	DN400	682
h	Thermometer	1/2 "	1564
j	Bottom Plug	1 1/2 "	164
k	Top Plug	1 1/2 "	1980
l	Resistance	2 "	1255

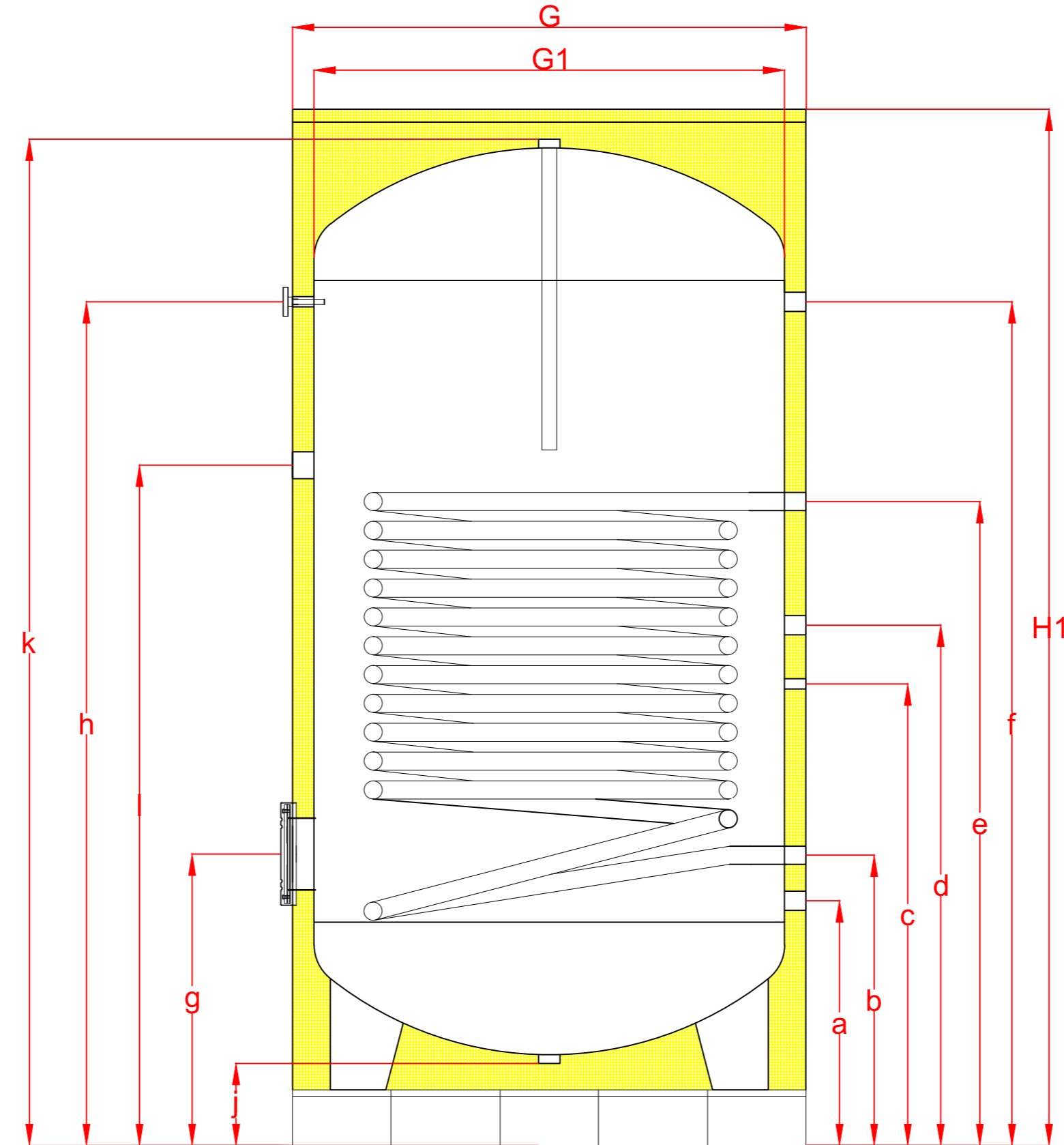
2000 LITER SINGLE SERPENTINE BOILER KMS



ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		1200
G1	Product Inner Diameter		1100
H1	Height		2440
a	Cold Water Inlet	1 1/4 "	583
b	Serpentine Outlet	1 1/4 "	696
c	Thermostat Sensor	1/2 "	1093
d	Circulation	1 1/4 "	1231
e	Serpentine Inlet	1 1/4 "	1515
f	Hot Water Outlet	1 1/4 "	1988
g	Cleaning Flange	DN400	674
h	Thermometer	1/2 "	1968
j	Bottom Plug	1 1/2 "	164
k	Top Plug	1 1/2 "	2385
l	Resistance	2 "	1584

3000 LITER SINGLE SERPENTINE BOILER

KMS



ID	EXPLANATION	CONNECTION(inch)	DISTANCE(mm)
G	Product Outer Diameter		1380
G1	Product Inner Diameter		1280
H1	Height		2580
a	Cold Water Inlet	2 "	525
b	Serpentine Outlet	1 1/4 "	647
c	Thermostat Sensor	1/2 "	895
d	Circulation	2 "	1149
e	Serpentine Inlet	1 1/4 "	1638
f	Hot Water Outlet	2 "	2217
g	Cleaning Flange	DN400	575
h	Thermometer	1/2 "	2207
j	Bottom Plug	1 1/2 "	163
k	Top Plug	1 1/2 "	2588
l	Resistance	2 "	1357