SUNSYSTEM

HYGIENIC COMBI TANK

for heating systems

To produce and accumulate sanitary hot water and hot water for space-heating system. Coil-in-Tank construction. Flexible stainless-steel coil (tube) for sanitary hot water and buffer tank powering space-heating system. Sanitary water heats up instantaneously as it flows through the large surface stainless coil. Thus water is delivered hot while still fresh and clean of depositions. Allows utilization of up to three external heat sources and an optional electric heating element.

Energy efficiency
Directive 2010/30/EU,
Regulation 812/2013:Class C

Insulation	High efficiency insulation (DIN 4753-8): removable insulation of fleece, with thickness of 100 mm. Outer lining of PVC with RAL 9006 color.
Water tank - buffer tank	Water tank of low-carbon steel S235JR. Primer coated on the outside of the tank. Water stratification unit Operating pressure: 3 bar Maximum temperature: 95°C
DHW coil (tube) for sanitary domestic hot water	Made of sanitary grade stainless steel. Corrugated surface of DHW tube increases the heat transfer. Heats up instantaneously. Operating pressure: 6 bar Maximum temperature: 95°C
Inlets / Outlets	Connections for temperature sensor. Inlet/Outlet arrangement on 90 angle degrees for easy and convenient installation. Possible installation in the corner of boiler room.
One or two heat-exchanger coils (models HYG BR/ HYG BR2)	Enables the tank to utilize an external sources of renewable energy. Operating pressure: 16 bar Test pressure: 25 bar Maximum temperature: 110°C
Optional equipment	Kit for electric heating (Electric heating element and Thermostat with integrated thermal protection) with an optional power (See p. 72).

HYG B
without coil

Vertical models.

L	Model	Code
500	HYG B 500	09040010201803
800	HYG B 800	09040010201804
1000	HYG B 1000	09040010201805
1500	HYG B 1500	09040010201806

HYG BR
with one coil

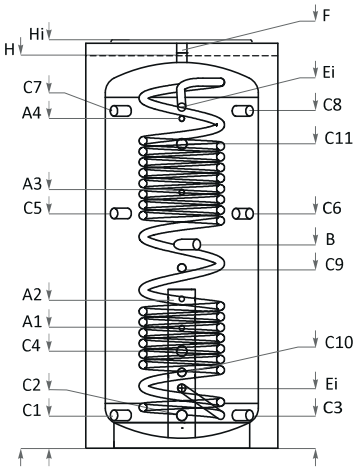
Vertical models.

L	Model	Code
500	HYG BR 500	09040010202803
800	HYG BR 800	09040010202804
1000	HYG BR 1000	09040010202805
1500	HYG BR 1500	09040010202806

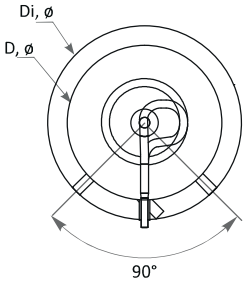
HYG BR2
with two coils

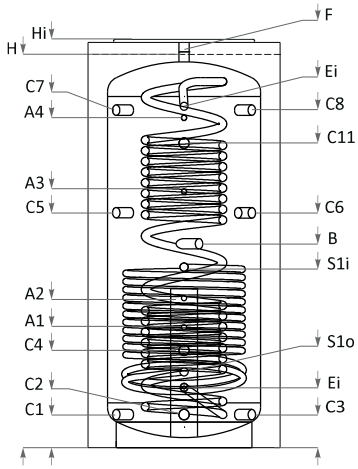
Vertical models.

L	Model	Code
500	HYG BR2 500	09040010203803
800	HYG BR2 800	09040010203804
1000	HYG BR2 1000	09040010203805
1500	HYG BR2 1500	09040010203806

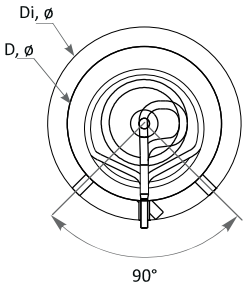


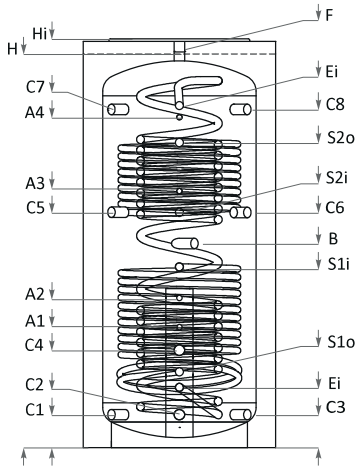
HYG B
500 - 1500





HYG BR
500 - 1500

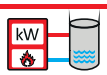




HYG BR2
500 - 1500

HYG B - without coil
HYG BR - with one coil
HYG BR2 - with two coils

General parameters

			 H/Hi mm	D/Di mm	
	L	L1 L2			kW
500	22/478	1700/1750	ø650/850	44	
800	25/775	1840/1890	ø790/990	75	
1000	25/975	2040/2090	ø790/990	75	
1500	40/1460	2170/2220	ø1000/1200	114	

Inlets / Outlets - DHW coil (tube)

			E m^2	E 10/45°C L/h	E 10/38°C L/h	E 38°C L	E ΔT	Ei / Eo mm Rp1"
500			5.5	1080	1350	375	6/8/12	250/1480
800			6.11	1840	2300	580	3.5/5/8	270/1590
1000			6.11	1840	2300	790	3.5/5/8	310/1760
1500			9.9	2800	3500	1150	2/3/5	345/1850

Heat-exchanger coils

		S1/S2 m^2	S1/S2 L	S1i/S1o mm Rp1"	S2i/S2o mm Rp1"
500		1.7/1.0	10.5/6.2	800/280	1300/1020
800		2.9/1.8	17.9/11.1	820/310	1390/1072
1000		3.0/2.0	18.5/12.3	880/310	1520/1172
1500		3.4/2.4	21.0/14.8	895/375	1635/1225

Inlets / Outlets of buffer tank

HYG B - without coil

				A1 mm Rp½"	A2 mm Rp½"	A3 mm Rp½"	A4 mm Rp½"	B mm Rp1½"	C1 mm Rp1½"	C2 mm Rp1½"	C3 mm Rp1½"	C4 mm Rp1½"	C5 mm Rp1½"	C6 mm Rp1½"	C7 mm Rp1½"	C8 mm Rp1½"	C9 mm Rp1"	C10 mm Rp1"	C11 mm Rp1"	F mm Rp1½"
	L	kg	kg,i																	
500	119	12.3		540	650	1140	1420	900	150	150	150	430	1030	1030	1450	1450	775	325	1360	1700
800	155	16.4		590	710	1160	1520	930	170	170	170	470	1050	1050	1550	1550	845	350	1410	1840
1000	164	18		620	770	1320	1700	1050	170	170	170	500	1210	1210	1740	1740	930	390	1570	2040
1500	266	23.2		800	920	1520	1790	1280	235	235	235	690	1405	1405	1820	1820	1045	445	1720	2170

Inlets / Outlets of buffer tank

HYG BR - with one coil

				A1 mm Rp½"	A2 mm Rp½"	A3 mm Rp½"	A4 mm Rp½"	B mm Rp1½"	C1 mm Rp1½"	C2 mm Rp1½"	C3 mm Rp1½"	C4 mm Rp1½"	C5 mm Rp1½"	C6 mm Rp1½"	C7 mm Rp1½"	C8 mm Rp1½"	C9 mm Rp1"	F mm Rp1½"
	L	kg	kg,i															
500	142	12.3		540	650	1140	1420	900	150	150	150	430	1030	1030	1450	1450	1360	1700
800	188	16.4		590	710	1160	1520	930	170	170	170	470	1050	1050	1550	1550	1410	1840
1000	210	18		620	770	1320	1700	1050	170	170	170	500	1210	1210	1740	1740	1570	2040
1500	331	23.2		800	920	1520	1790	1280	235	235	235	690	1405	1405	1820	1820	1720	2170

Inlets / Outlets of buffer tank

HYG BR2 - with two coils

				A1 mm Rp½"	A2 mm Rp½"	A3 mm Rp½"	A4 mm Rp½"	B mm Rp1½"	C1 mm Rp1½"	C2 mm Rp1½"	C3 mm Rp1½"	C4 mm Rp1½"	C5 mm Rp1½"	C6 mm Rp1½"	C7 mm Rp1½"	C8 mm Rp1½"	F mm Rp1½"
	L	kg	kg,i														
500	164	12.3		540	650	1140	1420	900	150	150	150	430	1030	1030	1450	1450	1700
800	213	16.4		590	710	1160	1520	930	170	170	170	470	1050	1050	1550	1550	1840
1000	230	18		620	770	1320	1700	1050	170	170	170	500	1210	1210	1740	1740	2040
1500	352	23.2		800	920	1520	1790	1280	235	235	235	690	1405	1405	1820	1820	2170

General parameters

L Capacity
L1 / L2 Capacity DHW coil / Buffer tank
H / Hi, mm Height without insulation / with insulation
øD /Di, mm Diameter without insulation / with insulation
kg / kg, I Weight without insulation / with insulation
kW Recommended boiler size, connected to buffer tank

Inlets / Outlets of buffer tank

A, mm Sensor sleeve
B, mm Sleeve for Electric heating element
C, mm Heat carrier
F, mm Air vent sleeve

Inlets / Outlets - DHW coil (tube)

E, m^2 Heat exchange surface
E, 10/45°C, L/h Continuous outflow 10/45°C, buffer tank is charged to 65°C
E, 10/38°C, L/h Continuous outflow 10/38 °C buffer tank is charged to 65°C.
E,38°C, L Single discharge capacity up to 38 °C of DHW (buffer is charged to 60°C)
E, ΔT ΔT -temperature difference between buffer tank and DHW at flow rate 30/40/50 liters/minute.
Ei / Eo, mm Inlet/outlet DHW coil (tube)

Heat-exchanger coils

S1 Lower coil
S2 Upper coil
S1/S2 m^2 Heat exchange surface S1/S2
S1/S2 L Coil capacity S1/S2
S1i/S1o mm Inlet/Outlet Lower coil S1
S2i/S2o mm Inlet/Outlet Upper coil S2