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HOT WATER STORAGE TANKS
150lt - 1000lt

TECHNICAL SPECIFICATIONS
& THERMAL PERFORMANCE

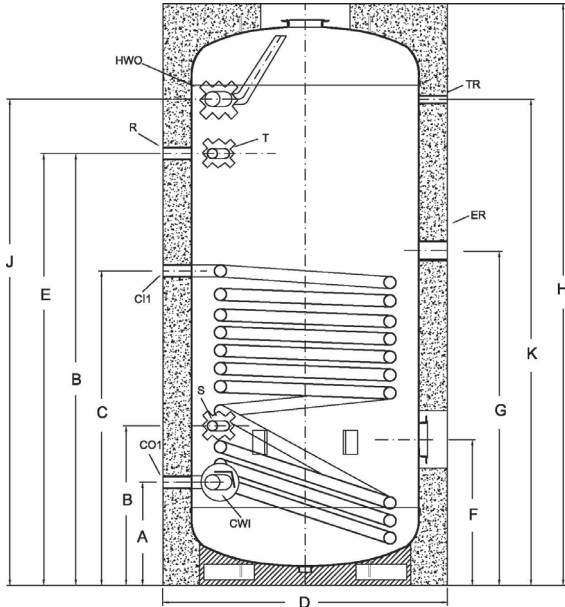
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TECHNICAL SPECIFICATIONS SINGLE COIL FLOOR STANDING BOILER CL1



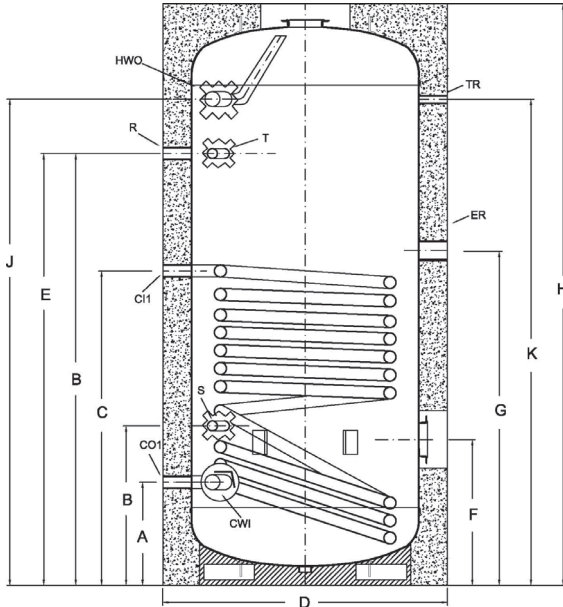
- Material:** Steel Sheet
- Welding:** Automatic Metal Welding
- Protection Coating:** High Quality Glass – Enamel and Protection Anode
- Maximum Working Pressure:** 10 bar
- Maximum Water Test Pressure:** 15 bar
- Maximum Operating Temperature:** 95°C
- Insulation:** Polyurethane foam of 55 mm thickness, density 52 kg/m³
- Coil:** Steel Tube 1" DC-01
- Maximum Coil Test Pressure:** 25 bar
- Electric Heater:** Upon Request
- Flange:** Diameter Ø 170 mm & Ø 140 mm

For all the boilers enamel and combination ones it is necessary to install an expansion vessel, a security valve and a protection anode for the hot domestic water.

		CL1-150	CL1-200	CL1-300	CL1-500
	Tank capacity (Liter)	139.3	196.4	277.7	455.2
	Coil capacity	5	6.4	9.9	12.2
	Coil S1/S2 input / outlet	1"	1"	1"	1"
	Coil S1/S2 surface m ²	0,78	0,986	1,55	1,92
	Recirculation	3/4"	3/4"	3/4"	1"
	Cold Water input	1"	1"	1"	1"
	Hot Water outlet	1"	1"	1"	1"
	Anode – Cleaning Flange	Ø170 & Ø140	Ø170 & Ø140	Ø170 & Ø140	Ø170 & Ø140
	To connect S1 to a boiler with 80°C and water 15/60°C kW/L/h	13,1 / 900	14,4 / 900	22,9 / 900	25,8 / 900
A	Cold water input CWI	245	245	240	195
J	Hot water outlet HWO	880	1170	1360	1355
C	Coil S1 input	577	690	820	815
A	Coil S1 outlet	245	235	220	205
B	Recirculation	465	545	620	615
F	Boiler cleaning hole	420	420	450	420
H	Total height	1120	1400	1620	1700
E	Thermostat	668	1070	1140	1115
K	Thermometer	870	1160	1320	1310
G	Electrical resistance socket	660	785	930	930
D	Diameter	Ø560	Ø 600	Ø 630	Ø 750
	Operation pressure/ bar	10	10	10	10
	Weight kg	61	85	111	141



TECHNICAL SPECIFICATIONS SINGLE COIL FLOOR STANDING BOILER CL1



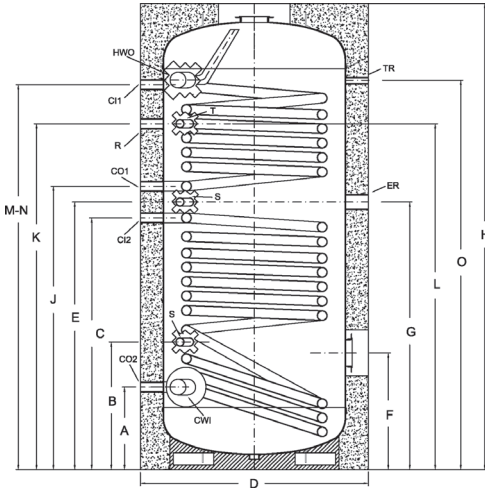
- Material:** Steel Sheet
- Welding:** Automatic Metal Welding
- Protection Coating:** High Quality Glass – Enamel and Protection Anode
- Maximum Working Pressure:** 10 bar
- Maximum Water Test Pressure:** 15 bar
- Maximum Operating Temperature:** 95°C
- Insulation:** Flexible Polyurethane foam of 100 mm thickness
- Coil:** Steel Tube 1" DC-01
- Maximum Coil Working Temperature:** 130°C
- Electric Heater:** Upon Request
- Flange:** Diameter Ø 170 mm & Ø 170 mm

For all the boilers enamel and combination ones it is necessary to install an expansion vessel, a security valve and a protection anode for the hot domestic water.

		CL1-800	CL1-1000
	Tank capacity (Liter)	757	881
	Coil capacity	15,20	19,20
	Coil S1/S2 input / outlet	1"	1"
	Coil S1/S2 surface m ²	2,39	3,02
	Recirculation	1"	1"
	Cold Water input	1 ½ "	1 ½ "
	Hot Water outlet	1 ½ "	1 ½ "
	Drainage	1"	1"
	Anode – Cleaning Flange	Ø 170 & Ø 170	Ø 170 & Ø 170
	To connect S1 to a boiler with 80°C and water 15/60°C kW/L/h	30,15 / 900	39,5 / 900
A	Cold water input CWI	305	280
J	Hot water outlet HWO	1435	1670
C	Coil S1 input	955	1040
A	Coil S1 outlet	305	265
B	Recirculation	1285	1470
F	Boiler cleaning hole	515	485
H	Total height	1800	2000
E	Thermostat	1285	1480
K	Thermometer	1410	1670
G	Electrical resistance socket	1040	1150
D	Diameter	Ø 1000	Ø 1000
	Weight kg	228	243



TECHNICAL SPECIFICATIONS DOUBLE COIL FLOOR STANDING BOILER



Material: Steel Sheet

Welding: Automatic Metal Welding

Protection Coating: High Quality Glass – Enamel and Protection Anode

Maximum Working Pressure: 10 bar

Maximum Water Test Pressure: 15 bar

Maximum Operating Temperature: 95°C

Insulation: Polyurethane foam of 55 mm thickness, density 52 kg/m³

Coil: Steel Tube 1" DC-01

Maximum Coil Test Pressure: 25 bar

Electric Heater: Upon Request

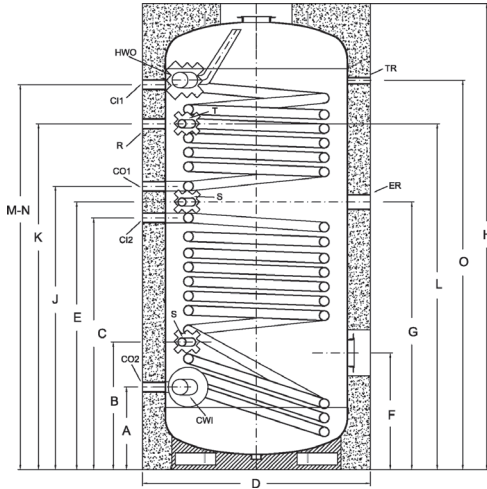
Flange: Diameter Ø 170 mm & Ø 140 mm

For all the boilers enamel and combination ones it is necessary to install an expansion vessel, a security valve and a protection anode for the hot domestic water.

		CL2-150	CL2-200	CL2-300	CL2-500
	Tank capacity (Liter)	132.9	190	269.6	442.4
	Coil capacity	8	11.4	16.2	19.8
	Coil S1/S2 input / outlet	1"	1"	1"	1"
	Coil S1/S2 surface m ²	0,53/0,78	0,78/0,99	0,99/1,55	1,20/1,92
	Recirculation	3/4"	3/4"	3/4"	1"
	Cold Water input	1"	1"	1"	1"
	Hot Water outlet	1"	1"	1"	1"
	Anode – Cleaning Flange	Ø 170 & Ø 140	Ø 170 & Ø 140	Ø 170 & Ø 140	Ø 170 & Ø 140
	To connect S1 to a boiler with 80°C and water 15/60°C kW/L/h	10,4 / 900	13,6 / 900	16,4 / 900	19,2 / 900
	To connect S2 to a boiler with 80°C and water 15/60°C kW/L/h	13,1 / 900	14,4 / 900	22,9 / 900	25,8 / 900
A	Cold water input CWI	235	235	245	195
N	Hot water outlet HWO	880	1155	1380	1370
J	Coil S1 outlet	685	855	1050	985
A	Coil S2 outlet	235	230	225	200
M	Coil S1 input	880	1135	1350	1345
C	Coil S2 input	565	685	820	820
K	Recirculation	780	1010	1245	1155
H	Total height	1120	1400	1620	1700
E	Sensor	628	775	930	900
G	Electrical resistance socket	630	770	930	910
B	Sensor	365	335	445	430
L	Thermostat	775	1063	1200	1130
O	Thermometer	865	1155	1320	1290
D	Diameter	Ø 560	Ø 600	Ø 630	Ø 750
F	Boiler cleaning hole	420	420	450	425
	Operation pressure/ bar	10	10	10	10
	Weight kg	70	100	130	170



TECHNICAL SPECIFICATIONS DOUBLE COIL FLOOR STANDING BOILER



Material: Steel Sheet

Welding: Automatic Metal Welding

Protection Coating: High Quality Glass – Enamel and Protection Anode

Maximum Working Pressure: 10 bar

Maximum Water Test Pressure: 15 bar

Maximum Operating Temperature: 95°C

Insulation: Flexible Polyurethane Foam of 100mm thickness

Coil: Steel Tube 1" DC-01

Maximum Coil Working Temperature: 130°C

Electric Heater: Upon Request

Flange: Diameter Ø 170 mm & Ø 170 mm

For all the boilers enamel and combination ones it is necessary to install an expansion vessel, a security valve and a protection anode for the hot domestic water.

		CL2-800	CL2-1000
	Tank capacity (Liter)	747,10	865,40
	Coil capacity	23,80	31,70
	Coil S1/S2 input / outlet	1"	1"
	Coil S1/S2 surface m ²	1,35 / 2,39	1,97 / 3,02
	Recirculation	1"	1"
	Cold Water input	1 ½ "	1 ½ "
	Hot Water outlet	1 ½ "	1 ½ "
	Drainage	1"	1"
	Anode – Cleaning Flange	Ø 170 & Ø 170	Ø 170 & Ø 170
	To connect S1 to a boiler with 80°C and water 15/60°C kW/L/h	20,5 / 900	25,5 / 900
	To connect S2 to a boiler with 80°C and water 15/60°C kW/L/h	30,15 / 900	38,5 / 900
A	Cold water input CWI	305	290
N	Hot water outlet HWO	1435	1670
J	Coil S1 outlet	1095	1230
A	Coil S2 outlet	305	280
M	Coil S1 input	1435	1679
C	Coil S2 input	955	1055
K	Recirculation	1285	1507
H	Total height	1800	2000
E	Sensor	1025	1142,5
G	Electrical resistance socket	1025	1142,5
B	Sensor	505	515
L	Thermostat	1285	1507
O	Thermometer	1395	1675
D	Diameter	Ø.1000	Ø.1000
F	Boiler cleaning hole	515	485
	Weight kg	250	276



THERMAL PERFORMANCE OF STORAGE WATER HEATER CL2-150 (2 COIL HEAT EXCHANGERS)

ACCORDING TO EN 12897:2006

At the tables below the efficiencies of the floor standing boiler **CL2-150** are presented, for several flow-rates. TABLE 1 concerns the upper heat exchanger, while TABLE 2 the lower.

Additionally, the thermal losses of the boiler and the thermal losses coefficient are shown at TABLE 3.

Upper heat exchanger surface: 0,53 m²

UPEER HEAT EXCHANGER FLOW-RATE	UPEER HEAT EXCHANGER EFFICIENCY
300 L/h	6,70 KW
400 L/h	8,35 KW
500 L/h	8,80 KW
900 L/h	10,40 KW

TABLE 1: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 38%.

Lower heat exchanger surface: 0,78 m²

LOWER HEAT EXCHANGER FLOW-RATE	LOWER HEAT EXCHANGER EFFICIENCY
300 L/h	8,20 KW
400 L/h	9,30 KW
500 L/h	10,50 KW
900 L/h	13,10 KW

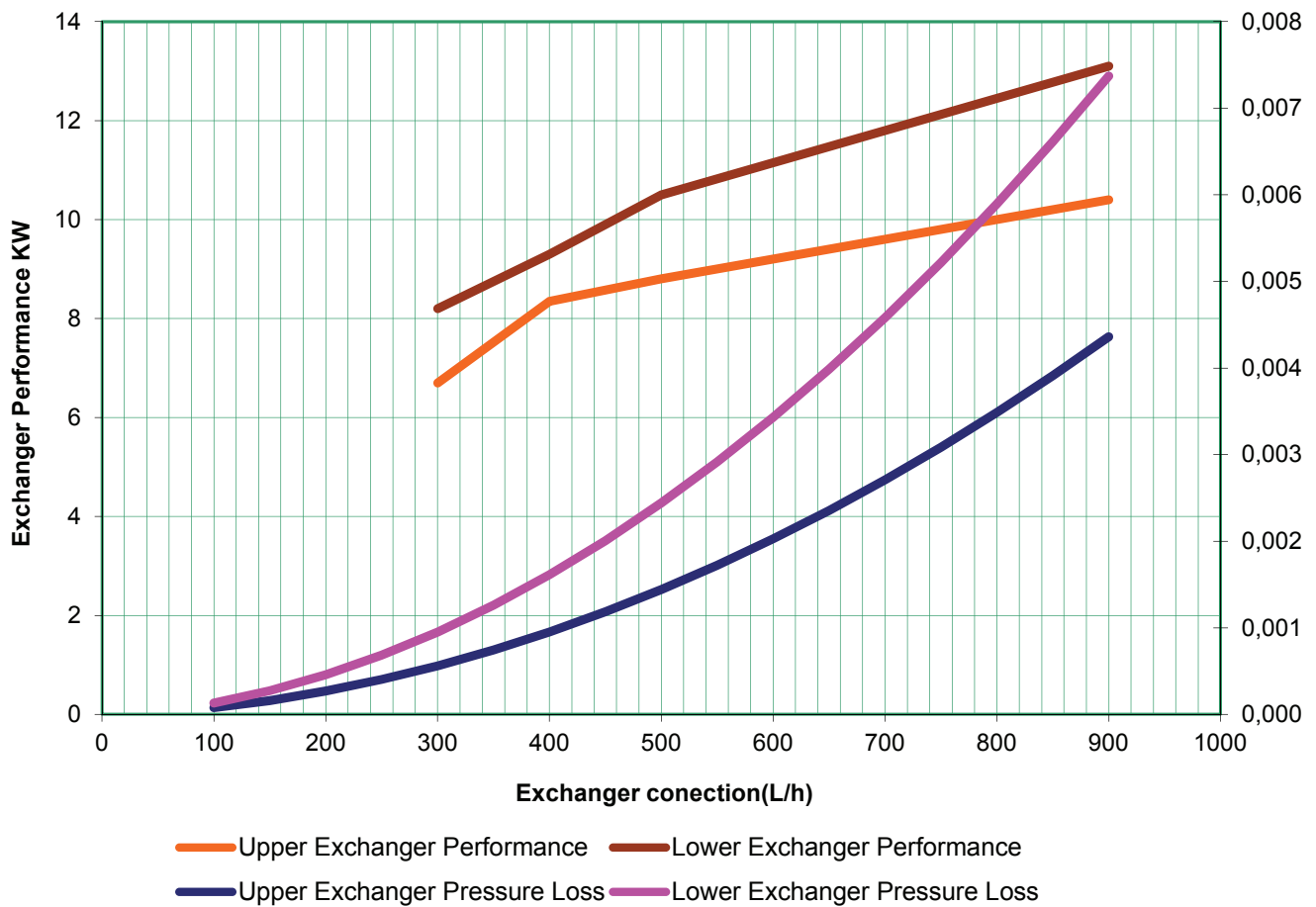
TABLE 2: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 92%.

STORAGE TANK HEAT LOSSES	1,2 kWh/24h
STORAGE TANK HEAT LOSSES COEFFICIENT	2,1 W/K

TABLE 3: Thermal losses (according to EN 12897) and
heat losses coefficient (according to ISO 9459-2 & EN 12976-2).

EXCHANGER PRESSURE LOSS CL2-150

CL2-150 - Exchanger performance curves - Pressure loss





THERMAL PERFORMANCE OF STORAGE WATER HEATER CL2-200 (2 COIL HEAT EXCHANGERS)

ACCORDING TO EN 12897:2006

At the tables below the efficiencies of the floor standing boiler **CL2-200** are presented, for several flow-rates. TABLE 1 concerns the upper heat exchanger, while TABLE 2 the lower.

Additionally, the thermal losses of the boiler and the thermal losses coefficient are shown at TABLE 3.

Upper heat exchanger surface: 0,78 m²

UPEER HEAT EXCHANGER FLOW-RATE	UPEER HEAT EXCHANGER EFFICIENCY
400 L/h	9,60 KW
700 L/h	12,00 KW
900 L/h	13,60 KW
1300 L/h	15,00 KW

TABLE 1: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 38%.

Lower heat exchanger surface: 0,99 m²

LOWER HEAT EXCHANGER FLOW-RATE	LOWER HEAT EXCHANGER EFFICIENCY
400 L/h	10,20 KW
700 L/h	13,30 KW
900 L/h	14,40 KW
1300 L/h	17,70 KW

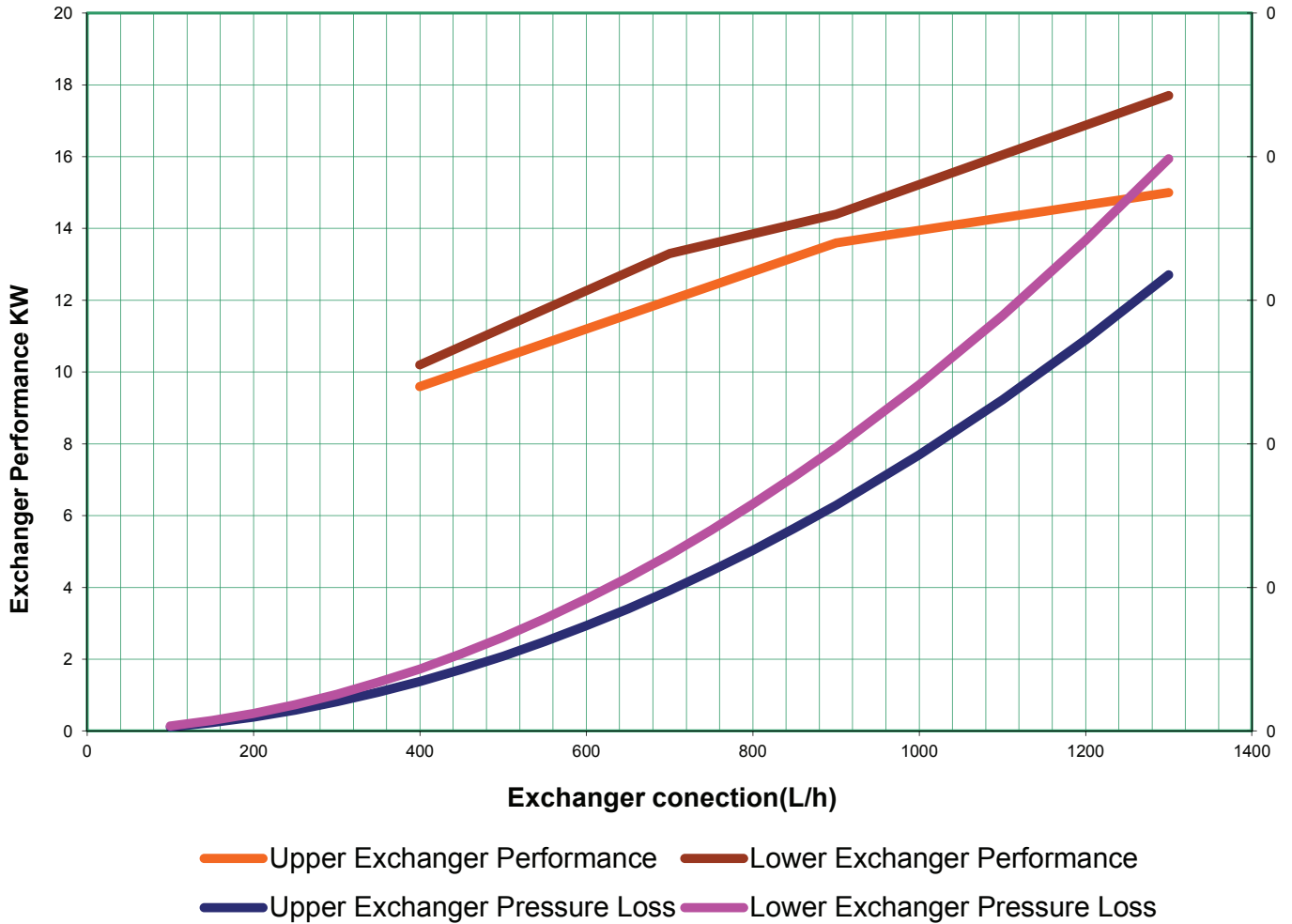
TABLE 2: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 92%.

STORAGE TANK HEAT LOSSES	1,3 kWh/24h
STORAGE TANK HEAT LOSSES COEFFICIENT	2,2 W/K

TABLE 3: Thermal losses (according to EN 12897) and
heat losses coefficient (according to ISO 9459-2 & EN 12976-2).

EXCHANGER PRESSURE LOSS CL2-200

CL2-200 - Exchanger performance curves - Pressure loss





THERMAL PERFORMANCE OF STORAGE WATER HEATER CL2-300 (2 COIL HEAT EXCHANGERS)

ACCORDING TO EN 12897:2006

At the tables below the efficiencies of the floor standing boiler **CL2-300** are presented, for several flow-rates. TABLE 1 concerns the upper heat exchanger, while TABLE 2 the lower.

Additionally, the thermal losses of the boiler and the thermal losses coefficient are shown at TABLE 3.

Upper heat exchanger surface: 0,99 m²

UPEER HEAT EXCHANGER FLOW-RATE	UPEER HEAT EXCHANGER EFFICIENCY
600 L/h	13,60 KW
900 L/h	16,40 KW
1200 L/h	17,60 KW
1600 L/h	18,60 KW

TABLE 1: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 35%.

Lower heat exchanger surface: 1,55 m²

LOWER HEAT EXCHANGER FLOW-RATE	LOWER HEAT EXCHANGER EFFICIENCY
600 L/h	18,20 KW
900 L/h	22,90 KW
1200 L/h	25,20 KW
1600 L/h	27,60 KW

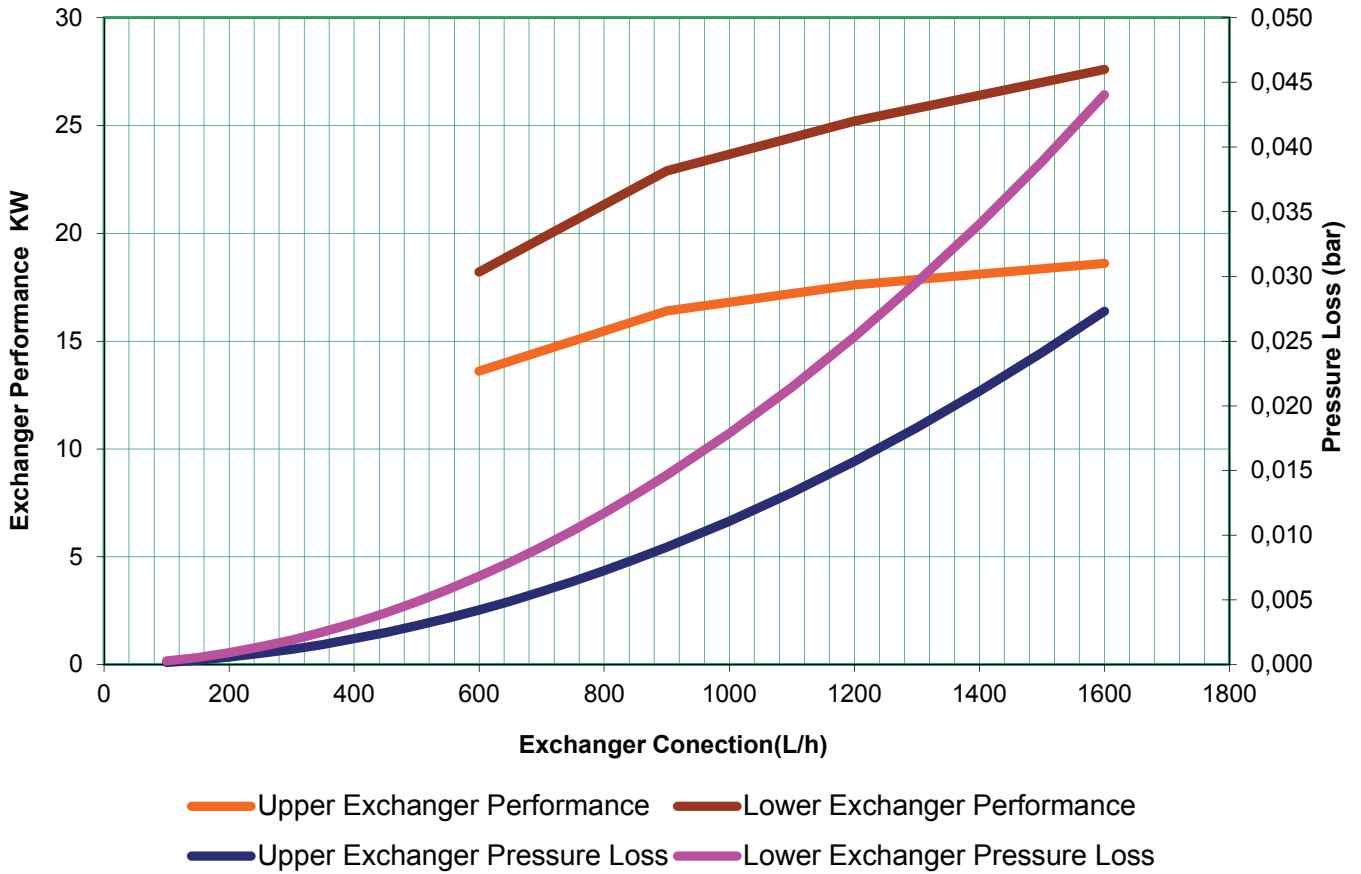
TABLE 2: Heat exchanger efficiency for Domestic Water heating from 15°C στους 60°C,
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 100%.

STORAGE TANK HEAT LOSSES	1,5 kWh/24h
STORAGE TANK HEAT LOSSES COEFFICIENT	2,4 W/K

TABLE 3: Thermal losses (according to EN 12897) and
heat losses coefficient (according to ISO 9459-2 & EN 12976-2).

EXCHANGER PRESSURE LOSS CL2-300

CL2-300 - Exchanger performance curves - Pressure loss





THERMAL PERFORMANCE OF STORAGE WATER HEATER CL2-500 (2 COIL HEAT EXCHANGERS)

ACCORDING TO EN 12897:2006

At the tables below the efficiencies of the floor standing boiler **CL2-500** are presented, for several flow-rates. TABLE 1 concerns the upper heat exchanger, while TABLE 2 the lower.

Additionally, the thermal losses of the boiler and the thermal losses coefficient are shown at TABLE 3.

Upper heat exchanger surface: 1,20 m²

UPEER HEAT EXCHANGER FLOW-RATE	UPEER HEAT EXCHANGER EFFICIENCY
900 L/h	19,20 KW
1300 L/h	21,40 KW
1700 L/h	23,20 KW
2600 L/h	25,30 KW

TABLE 1: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 38%.

Lower heat exchanger surface: 1,55 m²

LOWER HEAT EXCHANGER FLOW-RATE	LOWER HEAT EXCHANGER EFFICIENCY
900 L/h	25,80 KW
1300 L/h	30,25 KW
1700 L/h	33,90 KW
2600 L/h	37,60 KW

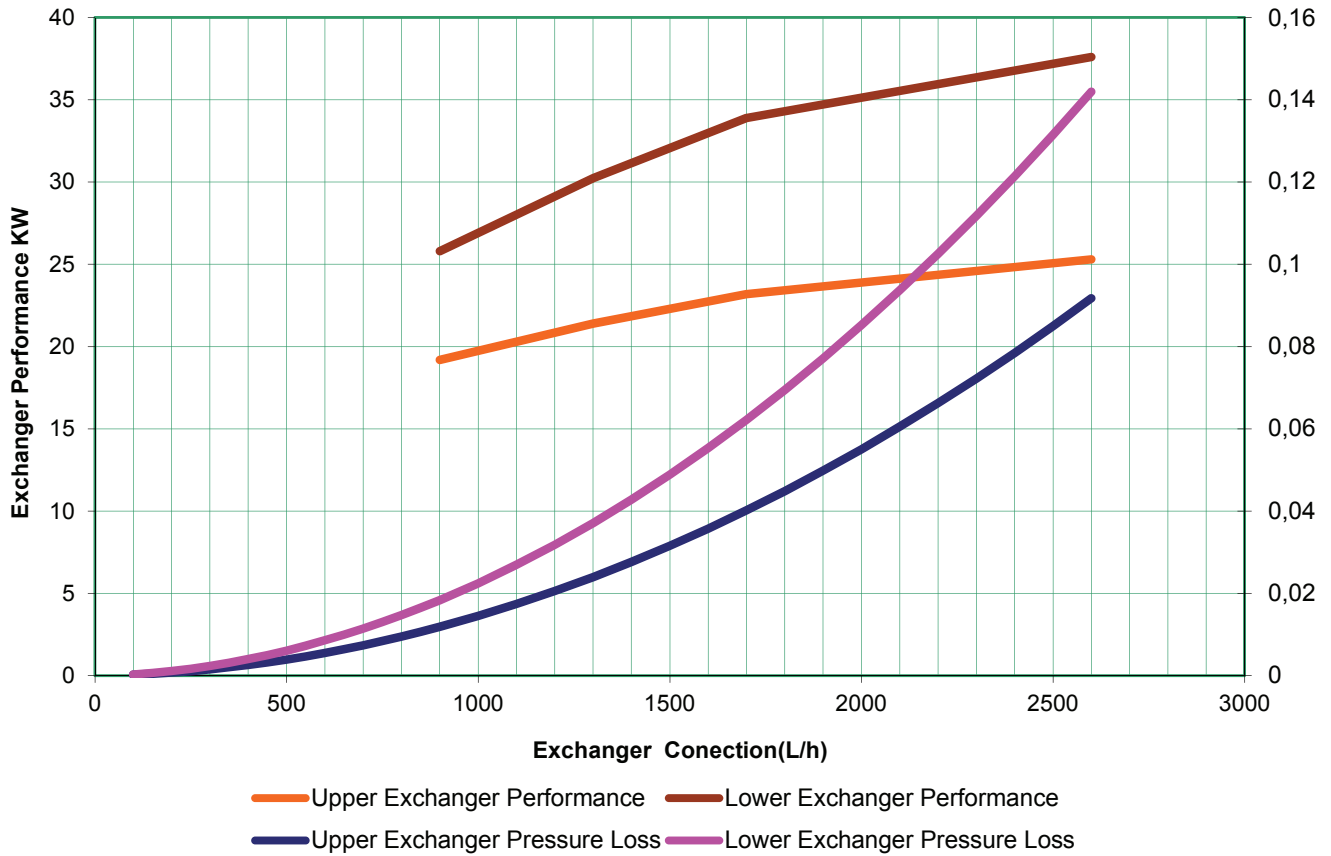
TABLE 2: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 99%.

STORAGE TANK HEAT LOSSES	1,8 KWh/24h
STORAGE TANK HEAT LOSSES COEFFICIENT	2,8 W/K

TABLE 3: Thermal losses (according to EN 12897) and
heat losses coefficient (according to ISO 9459-2 & EN 12976-2).

EXCHANGER PRESSURE LOSS CL2-500

CL2-500 - Exchanger performance curves - Pressure loss





THERMAL PERFORMANCE OF STORAGE WATER HEATER CL2-800 (2 COIL HEAT EXCHANGERS)

ACCORDING TO EN 12897:2006

At the tables below the efficiencies of the floor standing boiler **CL2-800** are presented, for several flow-rates. TABLE 1 concerns the upper heat exchanger, while TABLE 2 the lower.

Additionally, the thermal losses of the boiler and the thermal losses coefficient are shown at TABLE 3.

Upper heat exchanger surface: 1,35 m²

UPEER HEAT EXCHANGER FLOW-RATE	UPEER HEAT EXCHANGER EFFICIENCY
900 L/h	20,50 KW
1600 L/h	24,85 KW
2600 L/h	27,80 KW
3900 L/h	30,45 KW

TABLE 1: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 38%.

Lower heat exchanger surface: 1,55 m²

LOWER HEAT EXCHANGER FLOW-RATE	LOWER HEAT EXCHANGER EFFICIENCY
900 L/h	30,15 KW
1600 L/h	39,20 KW
2600 L/h	46,10 KW
3900 L/h	51,10 KW

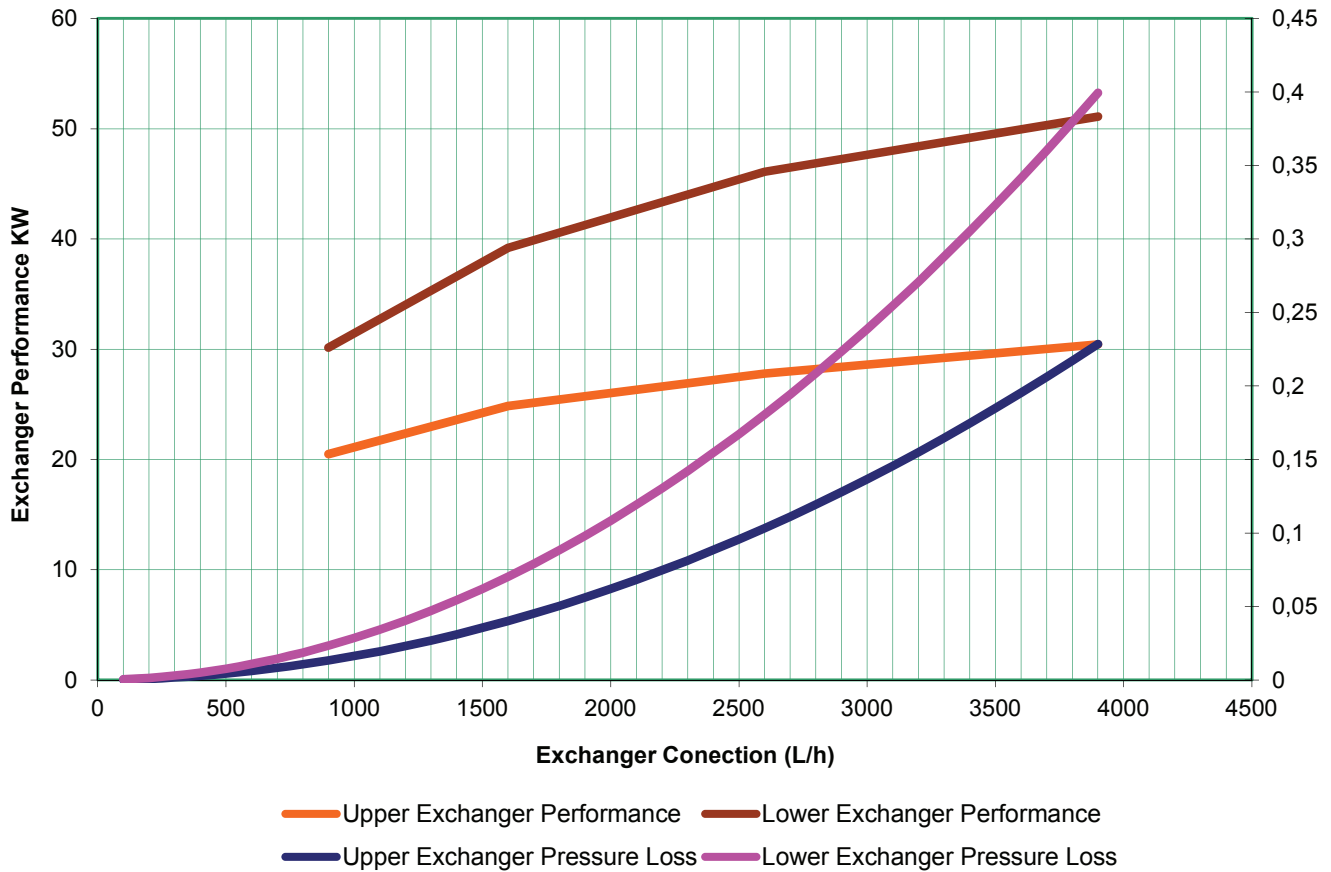
TABLE 2: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 99%.

STORAGE TANK HEAT LOSSES	2,1 kWh/24h
STORAGE TANK HEAT LOSSES COEFFICIENT	3,3 W/K

TABLE 3: Thermal losses (according to EN 12897) and
heat losses coefficient (according to ISO 9459-2 & EN 12976-2).

EXCHANGER PRESSURE LOSS CL2-800

CL2-800 - Exchanger performance curves - Pressure loss





THERMAL PERFORMANCE OF STORAGE WATER HEATER CL2-1000 (2 COIL HEAT EXCHANGERS)

ACCORDING TO EN 12897:2006

At the tables below the efficiencies of the floor standing boiler **CL2-1000** are presented, for several flow-rates. TABLE 1 concerns the upper heat exchanger, while TABLE 2 the lower.

Additionally, the thermal losses of the boiler and the thermal losses coefficient are shown at TABLE 3.

Upper heat exchanger surface: 1,97 m²

UPEER HEAT EXCHANGER FLOW-RATE	UPEER HEAT EXCHANGER EFFICIENCY
900 L/h	25,50 KW
2.000 L/h	34,70 KW
3.500 L/h	40,30 KW
5.000 L/h	43,80 KW

TABLE 1: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 37%.

Lower heat exchanger surface: 3,02 m²

LOWER HEAT EXCHANGER FLOW-RATE	LOWER HEAT EXCHANGER EFFICIENCY
900 L/h	28,50 KW
2.000 L/h	48,20 KW
3.500 L/h	56,95 KW
5.000 L/h	62,60 KW

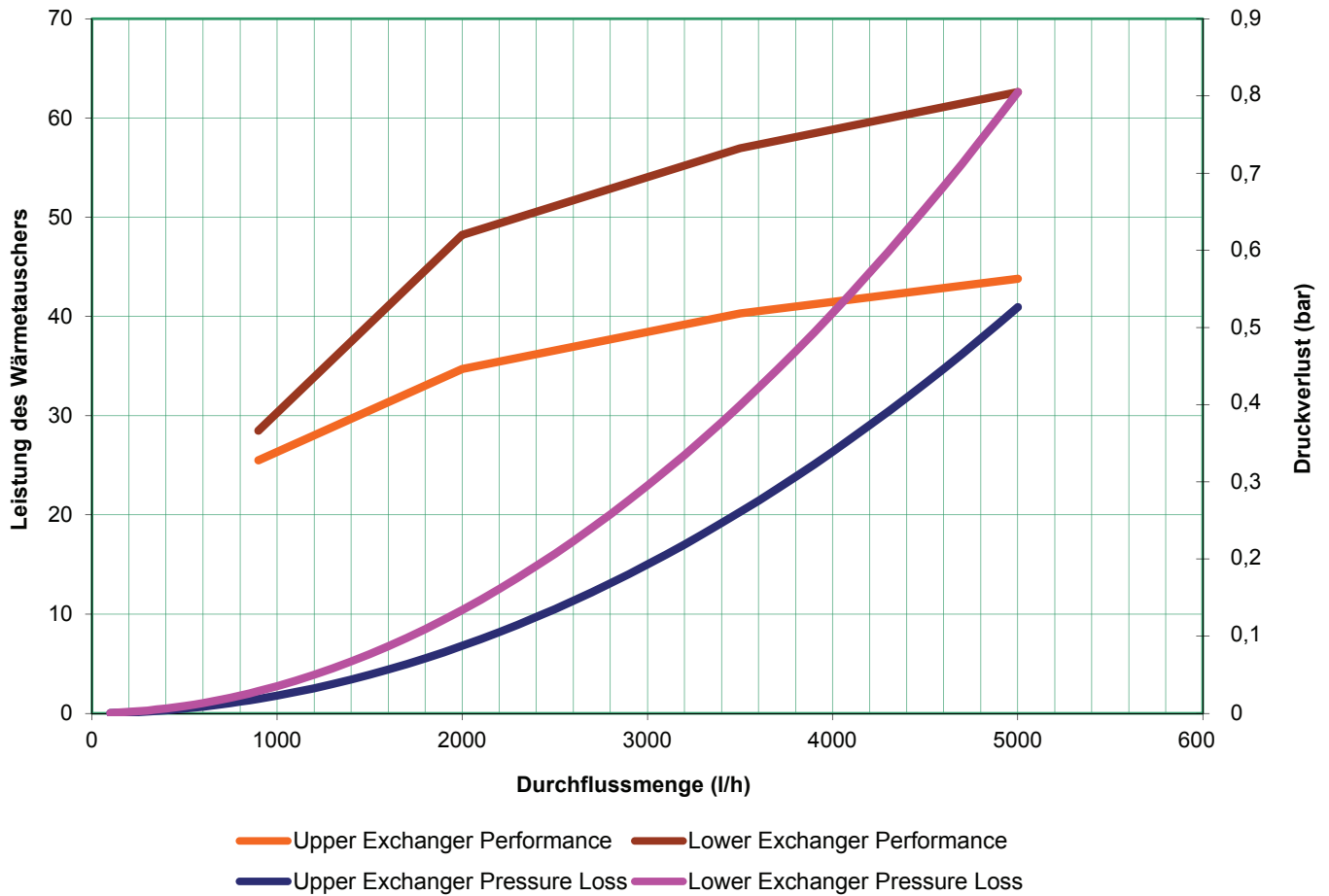
TABLE 2: Heat exchanger efficiency for Domestic Water heating from 15°C to 60°C.
The temperature at the heat exchanger inlet is considered as 80°C. DHW capacity drawn-off 91%.

STORAGE TANK HEAT LOSSES	2,6 KWh/24h
STORAGE TANK HEAT LOSSES COEFFICIENT	3,8 W/K

TABLE 3: Thermal losses (according to EN 12897) and
heat losses coefficient (according to ISO 9459-2 & EN 12976-2).

EXCHANGER PRESSURE LOSS CL2-1000

CL2-1000 - Exchanger performance curves - Pressure loss



Για περισσότερα στοιχεία, ανατρέξτε στα τεχνικά χαρακτηριστικά του προϊόντος CL2-1000.



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