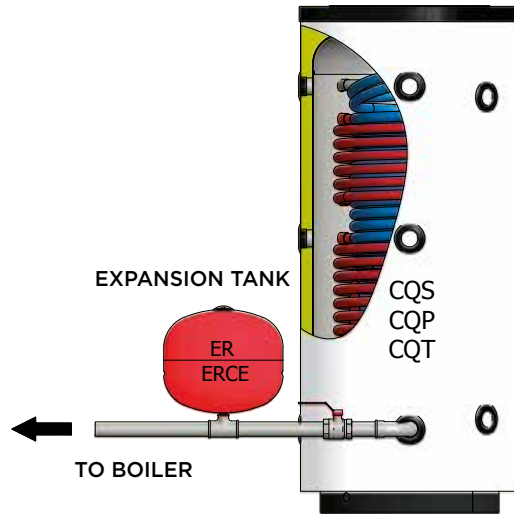




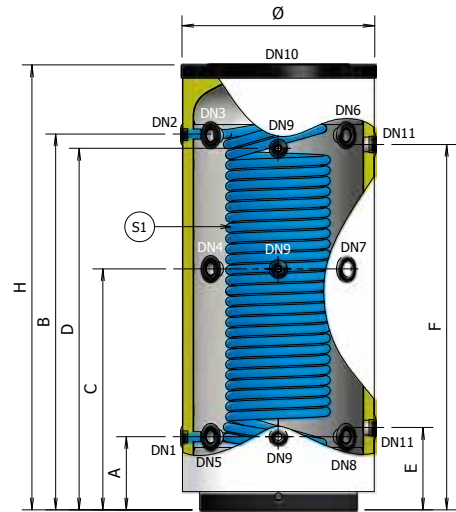
# COMBI QUICK

## MULTY ENERGY BUFFER TANKS

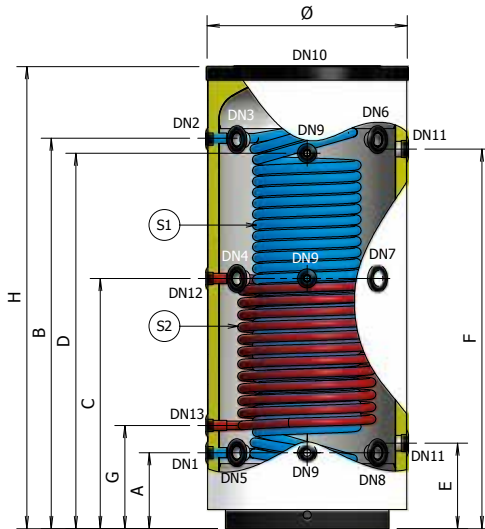
FOR STORAGE OF HOT WATER FOR HEATING & INSTANT DHW PRODUCTION (500 - 1000 LITRES)



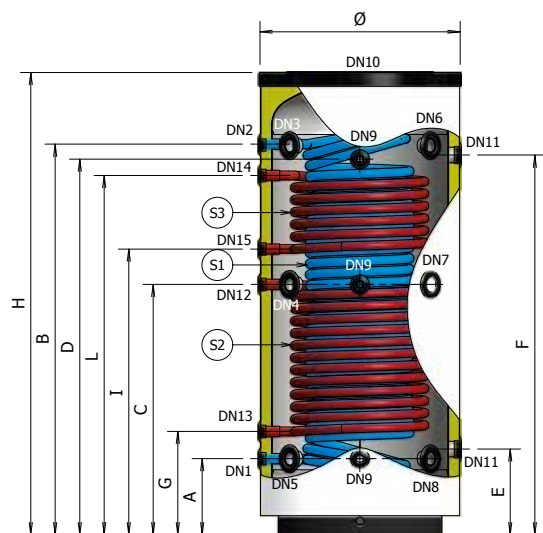
**CQS 500 - 800 - 1000**



**CQP 500 - 800 - 1000**



**CQT 500 - 800 - 1000**



### KEYWORD

**DN1:** Sanitary cold water inlet; **DN2:** Sanitary hot water outlet; **DN3:** From boiler; **DN4:** To floor heating system; **DN5:** To boiler; **DN6:** To heating system (plant); **DN7:** From heating system; **DN8:** From floor heating system; **DN9:** Probes; **DN10:** Air vent / to heating systems; **DN11:** Heating element; **DN12:** Lower heat exchanger inlet; **DN13:** Lower heat exchanger outlet; **DN14:** Upper heat exchanger inlet; **DN15:** Upper heat exchanger outlet;



CYLINDER



FOR SANITARY HOT WATER



SUITABLE FOR SOLAR SYSTEMS



POLYURETHANE INSULATION



THERM-ACCUMULATOR FOR INSTANT SANITARY HOT WATER



HOT WATER STORAGE TANK



STAINLESS STEEL HEAT EXCHANGER



FOR HEATING SYSTEMS



+ 95°C  
MAX TEMPERATURE  
OF CYLINDER



+ 110°C  
HEAT EXCHANGER MAX  
TEMPERATURE



P<sub>MAX</sub> 10 bar  
MAX WORKING PRESSURE  
OF THERMO-ACCUMULATOR



P<sub>SCA</sub> 12 bar  
HEAT EXCHANGER  
MAX PRESSURE

**WARRANTY: 2 YEARS**

### REFERENCE STANDARDS

#### CYLINDER:

2014/68/UE Directive - ART. 4.3, without CE marking  
Designed and built in accordance with the requirements of the 2009/125/EC.  
Labeling in accordance with the requirements of the 2010/30/EU.

### INSULATION:

Hard expanded polyurethane without CFC and HCFC.

### HEAT EXCHANGER:

Single-tube fixed heat exchanger in stainless steel for sanitary hot water.

On request, additional heat exchangers for alternative sources are available.

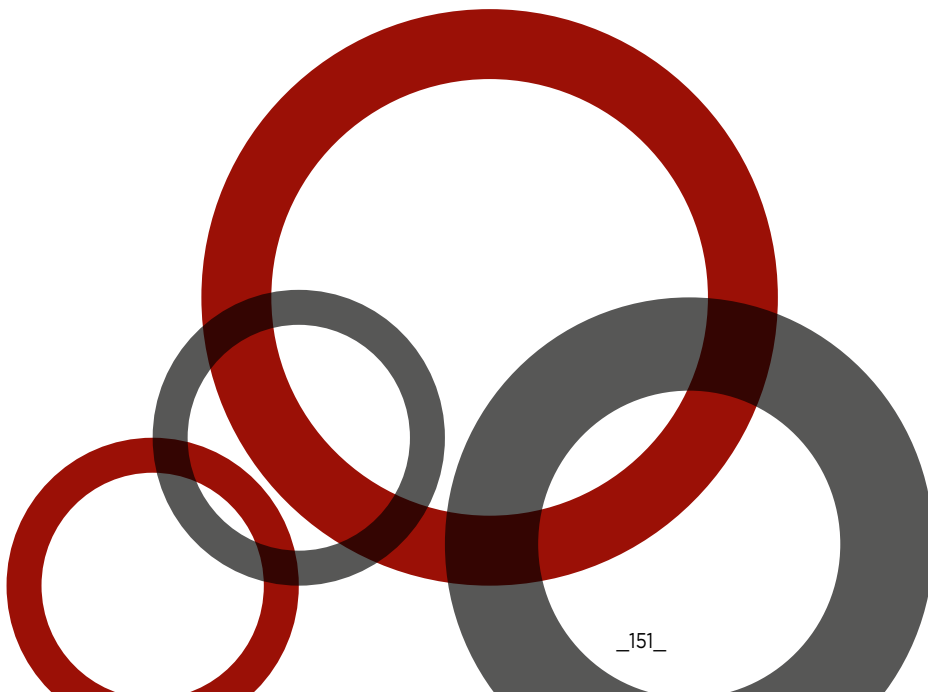
### INSTALLATION:

- traditional boilers (wall-hung and/or floor-standing)
- condensing boilers
- solar thermal systems

MODEL	CODE	ENERGY LABEL	HEAT EXCHANGER								mm	mm	NOTES
			CL	LITRES	STAINLESS STEEL S1		LOWER S2		UPPER S3				
					m <sup>2</sup>	LITRES	m <sup>2</sup>	LITRES	m <sup>2</sup>	LITRES			
CQS-500	A3W0L55 PGP40	D	500	3,50	25	/	/	/	/	750	1695		
CQS-800	A3W0L60 PGP40	/	800	3,80	28	/	/	/	/	900	1795		
CQS-1000	A3W0L62 PGP40	/	1000	4,50	33	/	/	/	/	900	2045		
CQP-500	A3W1L55 PGP40	D	500	3,50	25	1,80	12	/	/	750	1695		
CQP 800	A3W1L60 PGP40	/	800	3,80	28	2,00	13	/	/	900	1795		
CQP-1000	A3W1L62 PGP40	/	1000	4,50	33	2,40	15	/	/	900	2045		
CQT-500	A3W2L55 PGP40	D	500	3,50	25	1,80	12	0,90	6	750	1695		
CQT-800	A3W2L60 PGP40	/	800	3,80	28	2,00	13	1,20	8	900	1795		
CQT-1000	A3W2L62 PGP40	/	1000	4,50	33	2,40	15	1,20	8	900	2045		

MODEL	A mm	B mm	C mm	D mm	E mm	F mm	G mm	I mm	L mm
CQS-500	280	1430	920	1380	315	1395	/	/	/
CQS-800	330	1480	905	1470	365	1445	/	/	/
CQS-1000	365	1720	1125	1720	410	1680	/	/	/
CQP-500	280	1430	920	1380	315	1395	380	/	/
CQP 800	330	1480	905	1470	365	1445	445	/	/
CQP-1000	365	1720	1125	1720	410	1680	530	/	/
CQT-500	280	1430	920	1380	315	1395	380	1050	1320
CQT-800	330	1480	905	1470	365	1445	445	1060	1330
CQT-1000	365	1720	1125	1720	410	1680	530	1290	1560

MODEL	DN 1	DN 2	DN 3	DN 4	DN 5	DN 6	DN 7	DN 8	DN 9	DN 10	DN 11	DN 12	DN 13	DN 14	DN 15
CQS-500	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	/	/	/	/
CQS-800	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	/	/	/	/
CQS-1000	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	/	/	/	/
CQP-500	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	1"	1"	/	/
CQP 800	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	1"	1"	/	/
CQP-1000	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	1"	1"	/	/
CQT-500	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	1"	1"	1"	1"
CQT-800	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	1"	1"	1"	1"
CQT-1000	1"	1"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1.1/2"	1/2"	1.1/4"	1.1/2"	1"	1"	1"	1"



## TECHNICAL CHARACTERISTICS

MODEL	MAX WORKING PRESSURE STORAGE TANK CASING (Secondary circuit)	MAX WORKING PRESSURE EXCHANGER (Circuits of alternative sources and DHW production)	HEAT EXCHANGER PRESSURE DROP		
			LOWER HEAT EXCHANGER	UPPER HEAT EXCHANGER	STAINLESS STEEL HEAT EXCHANGER
CQS-500	10 bar	12 bar	/	/	40 mbar
CQS-800			/	/	45 mbar
CQS-1000			/	/	50 mbar
CQP-500			300 mbar	/	40 mbar
CQP-800			350 mbar	/	45 mbar
CQP-1000			400 mbar	/	50 mbar
CQT-500			300 mbar	120 mbar	40 mbar
CQT-800			350 mbar	200 mbar	45 mbar
CQT-1000			400 mbar	200 mbar	50 mbar

MODEL	INSULATION TYPE	INSULATION THICKNESS	INSULATION DENSITY	INITIAL THERMAL CONDUCTIVITY	(*) INSULATION THERMAL LOSS	EXTERNAL COVER
COMBI QUICK 500	95% closed cells rigid expanded polyurethane, CFC - HCFC free	50 mm	40 kg/m <sup>3</sup>	23,5 mW/m K	3,192 kWh / 24h	Grey polystyrene RAL 9006
COMBI QUICK 800					3,958 kWh / 24h	
COMBI QUICK 1000					4,449 kWh / 24h	

(\*) Thermal loss calculated with an accumulation temperature equal to 65 °C and with an external temperature equal to 20 °C.

## SAFETY DEVICES

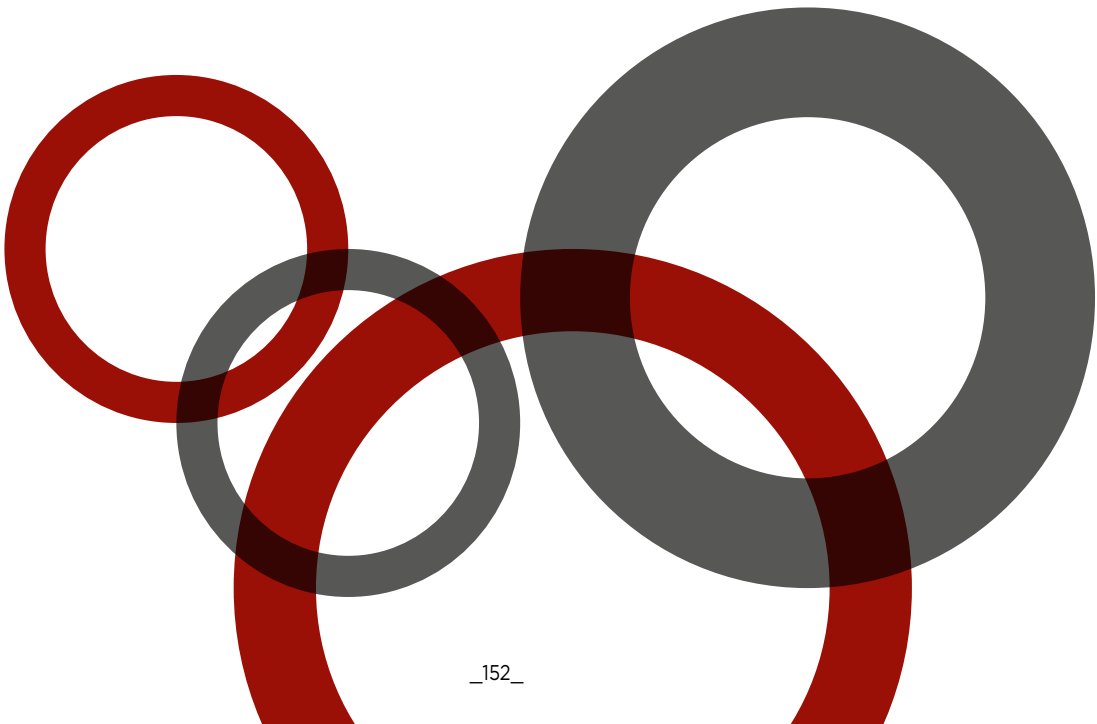
The cylinders must be protected against the effects of over pressure by installing:

- A **SAFETY VALVE** calibrated to pressure below the max pressure of the cylinder
- A **SANITARY EXPANSION TANK** mod. ELBI D - DV series
- AN **EXPANSION TANK FOR THE THERMO-ACCUMULATOR (Vr) mod. ELBI ERCE series**

The ERCE series expansion tank must be adequately sized based on the total capacity of the system

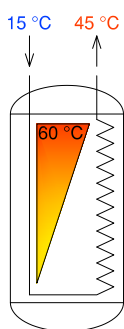
MODEL	RECOMMENDED EXPANSION TANK IN SANITARY CIRCUIT (mod. ELBI D-DV series)	RECOMMENDED EXPANSION TANK (mod. ELBI ERCE series)
COMBI QUICK 500	D - 5	ERCE - 35
COMBI QUICK 800	D - 8	ERCE - 50
COMBI QUICK 1000	D - 11	ERCE - 80

Sized using the following parameters: T. accumulation= 85 °C / T. inlet = 15 °C / Pre-charge pressure = 3 bar / Max pressure = 6 bar  
The recommended capacity must be verified on the basis of the actual dimensions of the system implemented.



**ACCUMULATION AT 60 °C**

**STAINLESS STEEL HEAT EXCHANGER:** T.inlet =15°C; T.outlet= 45°C

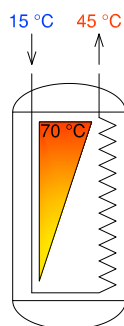


MODEL	THERMAL POWER [kW]	PRODUCTION DHW AT 45°C [lt/h]
COMBI QUICK 500	24	710
COMBI QUICK 800	26	760
COMBI QUICK 1000	30	860

Continuous production of hot water at 45 °C with accumulation at 60 °C

**ACCUMULATION AT 70 °C**

**STAINLESS STEEL HEAT EXCHANGER:** T.inlet =15°C; T.outlet= 45°C

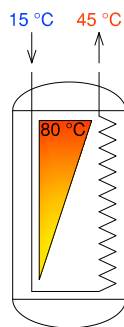


MODEL	THERMAL POWER [kW]	PRODUCTION DHW AT 45°C [lt/h]
COMBI QUICK 500	33	960
COMBI QUICK 800	35	1000
COMBI QUICK 1000	42	1220

Continuous production of hot water at 45 °C with accumulation at 70 °C

**ACCUMULATION AT 80 °C**

**STAINLESS STEEL HEAT EXCHANGER:** T.inlet =15°C; T.outlet= 45°C



MODEL	THERMAL POWER STAINLESS STEEL HEAT EXCHANGER [kW]	PRODUCTION DHW AT 45°C [lt/h]
COMBI QUICK 500	42	1210
COMBI QUICK 800	45	1300
COMBI QUICK 1000	54	1570

Continuous production of hot water at 45 °C with accumulation at 80 °C

SEE TABLE OF SYMBOLS  
IN THE SHUTTER OF THE  
COVER

