



COMBITANK WARRANTY

- > SAFETY INSTALLATION CONDITIONS
- > SAFETY RECOMMENDATIONS FOR THE INSTALLATION AND MAINTENANCE OF THE COMBI TANK



Read carefully the safety installation manual, maintenance and warranty terms before installing the device, so as to avoid possible damage and to protect yourself from any risks.













CONTENTS

COMBI TANK WARRANTY	
THE COMPANY OFFERS THE FOLLOWING WARRANTY	3
WARRANTY TERMS	3
THE WARRANTY DOES NOT COVER	
SAFE INSTALLATION CONDITIONS	
GENERAL INSTRUCTIONS	4
INSTALLATION & SPACE REQUIREMENTS	5
INSTALLATION PARTICULARITIES	5
WORKING CONDITIONS	5
PERSONNEL REQUIREMENTS	5
DEVICE TRANSPORTATION	5
RECOMMENDED SYSTEM INSPECTIONS	5
SYSTEM CHECK UPS	5
DIMENSION & EXPLANATORY BOARDS	
ACCUMULATOR BOILER WITH INOX DHW COIL BAC-0-CI	
ACCUMULATOR BOILER WITH ONE COIL & INOX DHW COIL BAC-1-CI	
ACCUMULATOR BOILER WITH TWO COILS & INOX DHW COIL BAC-2-CI	10
ACCUMULATOR BOILER TANK IN TANK BAC-0-TT	
ACCUMULATOR BOILER TANK IN TANK WITH ONE COIL BAC-1-TT	13
ACCUMULATOR BOILER TANK IN TANK WITH TWO COILS BAC-2-TT	14
TRANSFERRING THE COMBI TANK	15
POSITIONING THE HOT WATER TANK	15
DHW COIL REMOVAL	16
DHW TANK REMOVAL	17
INITIAL START OF COMBITANK	
LEAK TEST	18
SAFETY RELIEF VALVE	
OPERATING TIPS	18
OPERATING TIPS	
MAINTENANCE	19
SAFETY AND HYGIENE RECOMENTATION	19
MAGNESIUM ANODE CHECK	20
MAINTENANCE BOOK	21

TEXT MARK EXPLANATIONS:







COMBITANK WARRANTY

THE COMPANY OFFERS THE FOLLOWING WARRANTY:

> For the heat tank five (5) years warranty.

FURTHERMORE, THE WARRANTY IS VALID ONLY WHEN THE FOLLOWING TERMS ARE SATISFIED:

- 1. The heat tank must be installed and maintained by specified and certified personnel.
- 2. The magnesium bar of the heat tank, must necessarily be checked every year and it must be replaced instantly if it has been outworn to a percentage above 50% or it has been covered by the accumulation of salts.
- 3. The standard of the water quality used by the system should not be lower than the potable (page 4 table)
- 4. The tank should be grounded.
- 5. The water supply pressure should not exceed 6 bars, otherwise a pressure reducer should be installed.
- 6. System temperature and pressure should not exceed the specifications as indicated in the device's technical manual.
- 7. The tank should always have safety valves that will protect the system from the maximum temperature and maximum operating pressure. For the proper operation of the heat tank, it is necessary to check the safety valves and in case of malfunction must be replaced.
- 8. The area where the system is to be installed must have a functional water drainage on the floor.
- 9. The user must take all appropriate measures to exclude the overheating phenomenon.
- 10. The hydraulic connections to the tank must be such as to exclude the phenomenon of electrolysis.
- 11. The tank should not be damaged by a drop or a hit during transport or installation.
- 12. Maintenance of the heat tank must be in accordance with the maintenance schedule which the installer has design.
- 13. The installer and maintainer should record the tasks and the reason why they were called in the maintenance book. This record file is a key element of the warranty and should be made available on request.

- 14. All repairs or maintenance must be carried out using quality spare parts which are specific indicated in the device's maintenance book. Under no circumstances should you exercise any welding on the tank's metal structure. You risk to deteriorate or destroy the tank.
- 15. The installation must meet the conditions described in the installation manual which is an integral part of the warranty.
- 16. The tank does not feature a heating element. Upon request by the user a heating element may be placed in any of the free sockets indicated only by a certified installer and a certified electrician. Only special heating element shall be placed in the tank. The certified installer is responsible to indicate the appropriate position and type of the heating element always guided by the instructions provided by the heating element manufacturer. The constant and unreasonable use of the heating element may cause damage to the tank and will set it beyond warranty.

CAUTION!



Safety tips

The active part of the heating element shall not be inside the socket (tank's coupling or neck). Instead it shall be as closer as possible to the center of the tank, so as the heated water can be naturally alternated over the heating element's surface.

The tank shall always be placed on a totally flat surface (without any inclination) so that no air is captured in the couplings or any other part, especially if this part is close to the heating element.

The heating element shall always be totally covered by water.

ATTENTION!



Very poor water quality at the water outlet can result in salt formation and salts may block the safety valve. In this case, the tank remains unprotected against very high temperatures above 95°C and high pressure (greater than 6 bars).

THE WARRANTY DOES NOT COVER:

- > The magnesium rod in the tank.
- > Damage to the heating element.
- ➤ Damage to safety valves (if are included in the tank's packaging) of the tank, by excessive concentration of salts or external bodies.
- > Tank damage due to excessive pressure of the water supply network.
- > Damage of the tank caused by overheating.
- > Damage caused by unauthorised third party intervention.
- > Damage caused by improper maintenance.
- > Damage caused by extreme operating conditions and extrinsic factors (vandalism, fire, etc.).
- > The sealing flange

NOTE:



In the event of a breakdown, the workshop's fees and transport costs are borne by the customer in any case. The manufacturer reserves the right to change the terms without notice.

WATER SPECIFICATIONS TABLE

ELEMENT	PRICES
рН	7–9
Total hardness	6–15° dH
Chlorides	< 100 mg/l
Free chlorine	< 0,5 mg/l
Sulphates	< 80 mg/l
Conductance	< 650 mS/cm 25°C

SAFE INSTALLATION CONDITIONS

This is an integral part of the warranty to which it refers. It is not an installation guide. It refers to the appropriate conditions for a safe and right installation.

GENERAL INSTRUCTIONS

- 1. This manual is an essential and indispensable part of this device. It has to be carefully kept and always accompany the device.
- 2. Please read the instructions and warnings carefully.

 They contain crucial information concerning the safe installation, operation and maintenance of this new device.
- 3. The responsibility of installation lies with the buyer and has to be performed by an authorized specialist.
- 4. Using the device for reasons other than those specified in the manual is strictly prohibited. The manufacturer shall not be held liable for any damage caused by improper or unjustifiable use or by failure to comply with the instructions in the manual.
- 5. Installation, maintenance, and other special work on the device have to be performed by a specialist, always in compliance with existing instructions provided by the manufacturer.
- Faulty installation may cause personal injury or damage your property. The manufacturer shall not be held liable for such damage.
- 7. Keep all packaging materials (*clips, plastic bags, polystyrene foam*) out of reach of children, as hazards may occur.

8. All repairs must be performed exclusively by an authorized specialist, using only the appropriate parts. Failing to comply with the instructions above may affect your safety and relieves the manufacturer of all responsibility.

CAUTION!



The installation must comply with local regulations, concerning hydraulic and electrical installations.
Removing the packaging must be done on site, in order to protect the device from being damaged.

RISK TO HEALTH



Improper installation work can contaminate the potable water.

- Install the combi tank hygienically and thoroughly and in accordance with current standards
- Rinse the combi tank and piping thoroughly with potable water.

Install and equip the potable water pipes according to your country's applicable regulations and instructions.

INSTALLATION & SPACE REQUIREMENTS FOR THE INSTALLATION



Before installing the water heater tank, you have to choose the right location carefully and check the surface, to ensure it can bear the device's weight. The water heater tank must be installed on a flat surface with adequate bearing capacity.

INSTALLATION PARTICULARITIES

In case the chosen surface is not compatible with the standard equipment provided, another kind of equipment will have to be used. Responsibility for choosing the equipment lies solely on the installation expert and not on the manufacturer. It is up to the installation expert, whether they will suggest using another kind of equipment to the customer, to which the customer has to have agreed upon prior to the installation.

WORKING CONDITIONS

Keep the installation area clean and free of objects that may hinder the installation process. Do not allow other people, apart from the installation expert, to get near the tools, as well as the installation location. Use only parts that are compatible with the water heater you bought. The use of other parts or unsuitable tools may cause accidents or pose other hazards.

PERSONNEL REQUIREMENTS

The installation of water heaters has to be performed exclusively by authorized installation experts (technicians). Always wear protective glasses, suitable working attire, protective shoes and helmet. In hazardous locations, all protection measures must be taken and only special equipment must be used.

DEVICE TRANSPORTATION:

Transportation and handling of the tank

Abrupt movements must be avoided during the transportation of the tank, as they may result in fall and damage.

- You must be extremely careful while lifting the tank and always take precautions, in order to avoid possible accidents, injuries and other hazards.
- To avoid damaging the tank, do not remove the packaging, until it reaches the installation location.
- Do not place the tank on hard or uneven surfaces.

RECOMMENDED SYSTEM INSPECTIONS

ATTENTION!



BECAUSE SYSTEM MAINTENANCE AND CONTROL ARE DEPENDING FROM EVERY LOCAL CLIMATE DATA, WATER QUALITY AND THE OWNERS USAGE THE MAINTENANCE FREQUENCY IS PART OF THE AGREEMENT BETWEEN THE SYSTEM OWNER AND THE MAINTAINER INSTALLATION AND SYSTEM CONTROLS MUST ALWAYS BE PERFORMED BY AUTHORIZED SPECIALISTS. THE DATA OF MAINTENANCE SHOULD BE ALWAYS RECORDED IN THE MAINTENANCE BOOK FROM THE INSTALLER.

SYSTEM CHECK UPS

- Annually preferably before the start of the high usage period to ensure that the heater operates properly and all the parts are in good working condition.
- Maintenance periods are determined upon delivery of the heater. During maintenance, you have to make sure that the following parts work properly:
 - Heat exchanger circuit
 - All joints and pipes for leaks
 - · Magnesium anodes
 - Pipes insulation
 - · Safety valves
 - · Sealing flange

ATTENTION!



IN CASE THAT ALL THE NECESSARY MEASURES ARE NOT TAKEN AND THE SYSTEM IS OVERHEATED, EXCEEDING THE SAFETY TEMPERATURE OF 95°C, THEN THE SYSTEM IS OUT OF THE WARRANTY.

Devise maintenance

The water heater tank maintenance must be performed according to the plan determined upon delivery. The maintenance book must always be completed after the maintenance man's visit.

Dismantling and Disposal

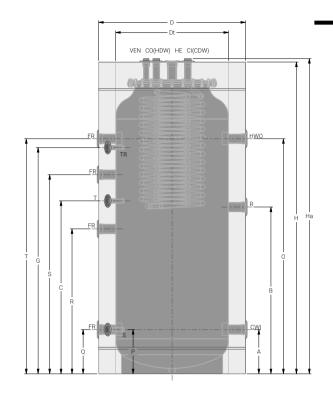
All the device's materials have to be properly disposed of, according to existing legislation. Uninstalling, transportation and other costs must be paid by the owner.



During of the constant evolution and improvement of the products and services, the manufacturer reserves the right to change or modify the information or of the specifications mentioned herein manual without prior notice or other obligation

ACCUMULATOR BOILER WITH INOX COIL BAC-0-CI

DIMENSION & EXPLANATORY BOARD



	ТҮРЕ	20)OL	30)OL	5	00L
	PART NUMBER	BAC-0	CI 200	BAC-0	CI 300	BAC-0	O CI 500
-	Tank capacity (Liter)	18	36	28	80		159
-	Coil SS capacity (Liter)	17	7,2	17	7,2	1	7,2
Ha	Coil SS inlet (HDW)	1"	1374	1"	1655	1"	1754
На	Coil SS outlet (CDW)	ľ	13/4	I	1000	'	1754
-	Coil SS length (m)	3	0	3	0	;	30
-	Coil SS surface (m²)	3,	11	3,	11	3	,11
В	Recirculation (R)	1 1/2"	722	1 1/2"	933	1 1/2"	951
Α	Cold Water Inlet (CWI)	4.4/0#	222	4.4/0	233	4.4./0!	251
0	Hot Water Outlet (HWO)	1 1/2"	1112	1 1/2"	1323	1 1/2"	1341
С	Thermostat (T)		757		968		986
G	Thermometer (TR)	1/2"	1062	1/2"	1273	1/2"	1291
Р	Sensor (S)		222		233		251
Q	Free outlet (FR)		222		233		251
R	Free outlet (FR)	1.4/0"	597	4.4/0	808	4.4/0"	826
S	Free outlet (FR)	1 1/2"	907	1 1/2"	1118	1 1/2"	1136
Т	Free outlet (FR)		1112		1323]	1341
VEN	Ventilation	-	-	-	-	3/4"	1724
D	External Diameter	59	90	6.	30	8	340
Dt	Internal Diameter	48	30	5	20	6	40
Н	Height	13	44	17	43	1	776
На	Total height	13	74	16	55	1	816
-	Tilt height	14	67	17	43	1'	918
-	Weight	8	12	9	25	124	

Material: Steel Sheet

Welding: Automatic Metal Welding
Maximum Working Pressure: 6 bar
Maximum Water Test Pressure: 8 bar
Maximum Operating Temperature: 95°C

Coil SS: Inox 316

Insulation: Removable Soft Polyurethane foam

of 55 mm thickness (100-300L) & 100mm (500-2000L)

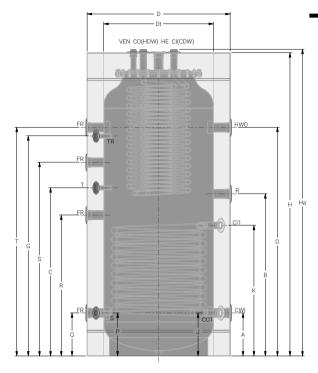
Electric Resistance: Upon Request

External Cover: Soft pvc, color of your choice

	ТҮРЕ	75	OL.	100	00L	150	00L	200	00L
	PART NUMBER	BAC-0	CI 750	BAC-0	CI 1000	BAC-0	CI 1500	BAC-0	CI 2000
-	Tank capacity (Liter)	7:	26	845		1602		1881	
-	Coil SS capacity (Liter)	17	7,2	17	7,2	22	,92	22	,92
На	Coil SS inlet (HDW)	1"	1812	1"	2080	1"	2130	1"	2150
На	Coil SS outlet (CDW)	'	1012	ı	2080	ı	2130	ı	2130
-	Coil SS length (m)	3	0	3	0	4	0	4	10
-	Coil SS surface (m²)	3,	11	3,	11	4,	14	4,	14
В	Recirculation (R)	1 1/2"	982	1 1/2"	1142	3"	1180	3"	1136
Α	Cold Water Inlet (CWI)	4.4/0#	282	4.4.0"	312	3"	403	3"	443
0	Hot Water Outlet (HWO)	1 1/2"	1372	1 1/2"	1652	3	1637	3	1623
С	Thermostat (T)		1017		1227		1265		1221
G	Thermometer (TR)	1/2"	1322	1/2"	1522	1/2"	1560	1/2"	1516
Р	Sensor (S)		282		312		372		420
Q	Free outlet (FR)		282		312		403		443
R	Free outlet (FR)	1.4/0#	857	1.1/0"	992	3"	1030	7"	988
S	Free outlet (FR)	1 1/2"	1167	1 1/2"	1347	3	1385	3"	1343
Т	Free outlet (FR)		1372		1652		1637		1623
VEN	Ventilation	3/4"	1782	3/4"	2035	3/4"	2100	3/4"	2120
D	External Diameter	10	000	10	000	13	00	14	100
Dt	Internal Diameter	80	00	80	00	11	00	12	200
Н	Height	18	29	20	79	21	43	21	62
На	Total height	18	69	21	19	21	73	21	92
-	Tilt height	20	143	22	:67	24	70	25	541
-	Weight	14	46	10	67	30	08	34	43

ACCUMULATOR BOILER WITH ONE COIL & INOX COIL BAC-1-CI

DIMENSION & EXPLANATORY BOARD



	ТҮРЕ	20	0L	30	OOL	50	0L
	PART NUMBER	BAC-1	CI 200	BAC-1	CI 300	BAC-1	CI 500
-	Tank capacity (Liter)	17	79	2	271		43
-	Coil capacity (Liter)	5,9	82	7,9	932	14	54
K	Coil S1 inlet (CI1)	1"	682	1"	748	1"	766
J	Coil S1 outlet (CO1)	'	222	l	233] '	251
-	Coil S1 surface (m2)	0,9	38	1,2	244	2,2	81
-	Coil SS capacity (Liter)	17	, ,2	17	7,2	17	7,2
На	Coil SS inlet (HDW)	1"	1374	1"	1655	1"	1754
На	Coil SS outlet (CDW)	'	1374	I	1055	ļ !	1/54
-	Coil SS length (m)	3	0	3	50	3	0
-	Coil SS surface (m²)	3,	11	3,	11	3,	11
В	Recirculation (R)	1 1/2"	722	1 1/2"	933	1 1/2"	951
Α	Cold Water Inlet (CWI)	1 1 /0"	222	1 1 /0"	233	1 1 /0"	251
0	Hot Water Outlet (HWO)	1 1/2"	1112	1 1/2"	1323	1 1/2"	1341
С	Thermostat (T)		757		968		986
G	Thermometer (TR)	1/2"	1062	1/2"	1273	1/2"	1291
Р	Sensor (S)		222		233		251
Q	Free outlet (FR)		222		233		251
R	Free outlet (FR)	4.4.0	597	4.4.01	808	4.4./01	826
S	Free outlet (FR)	1 1/2"	907	1 1/2"	1118	1 1/2"	1136
Т	Free outlet (FR)		1112		1323]	1341
VEN	Ventilation	-	-	-	-	3/4"	1724
D	External Diameter	59	90	6.	30	84	40
Dt	Internal Diameter	48	30	5	20	64	40
Н	Height	13	44	16	25	17	76
На	Total height	13	74	16	55	18	16
-	Tilt height	14	67	17	43	19	18
-	Weight	10)1	1	18	155	

Material: Steel Sheet

Welding: Automatic Metal Welding
Maximum Working Pressure: 6 bar
Maximum Water Test Pressure: 8 bar
Maximum Operating Temperature: 95°C

Coil: Steel Tube

Total Coil Pressure: 16 bar
Total Coil temperature: 160°C
Maximum Coil Test Pressure: 25 bar

Coil SS: Inox 316

Insulation: Removable Soft Polyurethane foam

of 55 mm thickness (100-300L) & 100mm (500-2000L)

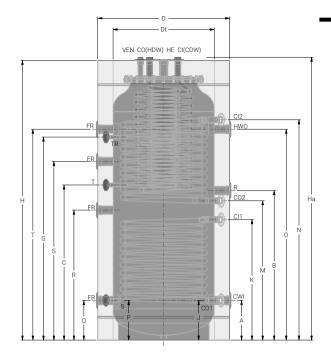
Electric Resistance: Upon Request

External Cover: Soft pvc, color of your choice

	ТҮРЕ	75	OL.	10	00L	15	00L	20	00L
	PART NUMBER	BAC-1	CI 750	BAC-1	CI 1000	BAC-1	CI 1500	BAC-1	CI 2000
-	Tank capacity (Liter)	7(06	824		1578		1856	
-	Coil capacity (Liter)	16	16,52		19,83		,15	23	,79
K	Coil S1 inlet (CI1)	1"	797	1"	932	1"	955	1"	983
J	Coil S1 outlet (CO1)	'	282	'	312		340		393
-	Coil S1 surface (m²)	2,5	592	3,	11	3,	31	3,7	732
-	Coil SS capacity (Liter)	17	7,2	17	7,2	22	2,92	22	,91
На	Coil SS inlet (HDW)	1"	1812	1"	2080	1"	2130	1"	2150
На	Coil SS outlet (CDW)	<u>'</u>	1012	l I	2000	I	2130	I	2150
-	Coil SS length (m)	3	0	3	0	2	40	4	1 0
-	Coil SS surface (m²)	3,	11	3,	11	4,	14	4,	14
В	Recirculation (R)	1 1/2"	982	1 1/2"	1142	3"	1180	3"	1136
Α	Cold Water Inlet (CWI)	1 1/2"	282	1 1 /0"	312	3"	403	3"	443
0	Hot Water Outlet (HWO)	1 1/2	1372	1 1/2"	1652	3	1637	3	1623
С	Thermostat (T)		1017		1227		1265		1221
G	Thermometer (TR)	1/2"	1322	1/2"	1522	1/2"	1560	1/2"	1516
Р	Sensor (S)		282		312		372		420
Q	Free outlet (FR)		282		312		403		443
R	Free outlet (FR)	4.4/0	857	4.4.0	992	71	1030	71	986
S	Free outlet (FR)	1 1/2"	1167	1 1/2"	1347	3"	1385	3"	1341
Т	Free outlet (FR)		1372		1652		1637		1623
VEN	Ventilation	3/4"	1782	3/4"	2035	3/4"	2100	3/4"	2120
D	External Diameter	10	000	10	000	13	300	14	i00
Dt	Internal Diameter	80	00	80	00	11	00	12	200
Н	Height	18	29	20)79	21	43	21	62
На	Total height	18	69	21	19	21	73	21	92
-	Tilt height	20	143	22	267	24	470	25	541
-	Weight	18	33	2	52	3	53	3	93

ACCUMULATOR BOILER WITH TWO COILS & INOX COIL BAC-2-CI

DIMENSION & EXPLANATORY BOARD



	ТҮРЕ	20	OL .	30	OOL .	50	OL
	PART NUMBER	BAC-2	CI 200	BAC-2	CI 300	BAC-2	CI 500
-	Tank capacity (Liter)	1	74	2	62	42	27
-	Coil S1 / S2 capacity (Liter)	5,982	/ 4,66	7,932	/ 7,932	14,54 /	/ 14,54
K	Coil S1 inlet (CI1)		682		748		766
Ν	Coil S2 inlet (CI2)	1"	1102	1"	1383	1"	1401
J	Coil S1 outlet (CO1)	1	222		233		251
М	Coil S2 outlet (CO2)		802		868		886
-	Coil S1 / S2 surface (m²)	0,938	/ 0,731	1,244	/ 1,244	2,281 /	/ 2,281
-	Coil SS capacity (Liter)	17	7,2	1	7,2	17	7,2
На	Coil SS inlet (HDW)	1"	477/	1"	1/55	1"	4757
На	Coil SS outlet (CDW)		1374	I	1655		1754
-	Coil SS length (m)	3	0	3	50	3	0
-	Coil SS surface (m²)	3,	11	3,	3,11		11
В	Recirculation (R)	1 1/2"	722	1 1/2"	933	1 1/2"	951
Α	Cold Water Inlet (CWI)	4.4/0"	222	4.4/0	233	4.4/0	251
0	Hot Water Outlet (HWO)	1 1/2"	1112	1 1/2"	1323	1 1/2"	1341
С	Thermostat (T)		757		968		986
G	Thermometer (TR)	1/2"	1062	1/2"	1273	1/2"	1291
Р	Sensor (S)		222		233		251
Q	Free outlet (FR)		222		233		251
R	Free outlet (FR)	4.4.0"	597	4.4/0"	808	1.1/0	826
S	Free outlet (FR)	1 1/2"	907	1 1/2"	1118	1 1/2"	1136
Т	Free outlet (FR)		1112		1323		1341
VEN	Ventilation	-	-	-	-	3/4"	1724
D	External Diameter	59	90	6	30	84	40
Dt	Internal Diameter	48	30	5	20	64	40
Н	Height	13	44	16	525	17	76
На	Total height	13	74	16	555	18	16
-	Tilt height	14	67	17	743	19	18
-	Weight (kg)	1	16	1	39	18	37

Material: Steel Sheet

Welding: Automatic Metal Welding
Maximum Working Pressure: 6 bar
Maximum Water Test Pressure: 8 bar
Maximum Operating Temperature: 95°C

Coil: Steel Tube

Total Coil Pressure: 16 bar **Total Coil temperature:** 160°C **Maximum Coil Test Pressure:** 25 bar

Coil SS: Inox 316

Maximum Coil SS Test Pressure: 12 bar Maximum Coil SS Temperature: 95°C

Insulation: Removable Soft Polyurethane foam

of 55mm thickness (100–300L) & 100mm (500–2000L)

Electric Resistance: Upon Request

External Cover: Soft pvc, color of your choice

	ТҮРЕ	_ 7	50L	_10	000L	15	500L	20	00L
	PART NUMBER	BAC-	2 CI 750	BAC-2	2 CI 1000	BAC-2	CI 1500	BAC-2	CI 2000
-	Tank capacity (Liter)	6	591	8	310	1555		1841	
-	Coil S1 / S2 capacity (Liter)	16,52	1 / 16,52	19,83	19,83 / 19,83		21,15 / 21,15		/ 23,79
K	Coil S1 inlet (CI1)		797		932		955		983
N	Coil S2 inlet (CI2)	1"	1432	1"	1672	1"	1690	1"	1678
J	Coil S1 outlet (CO1)] '	282] '	312	'	340	'	393
М	Coil S2 outlet (CO2)		917		1052		1075		1093
-	Coil S1 / S2 surface (m²)	2,592	2 / 2,592	3,11	/3,11	3,31	/3,31	3,732	/ 3,732
-	Coil SS capacity (Liter)	1	7,2	1	17,2	22	2,92	22	,92
На	Coil SS inlet (HDW)	1"	1812	1"	2080	1"	2130	1"	2150
На	Coil SS outlet (CDW)] '	1012	'	2000	!	2130	'	2130
-	Coil SS length (m)		30		30		40	4	0
-	Coil SS surface (m²)	3	,11	3,11		4,14		4,	14
В	Recirculation (R)	1 1/2"	982	1 1/2"	1142	3"	1180	3"	1136
Α	Cold Water Inlet (CWI)	1 1/2"	282	1 1/2"	312	3"	403	3"	443
0	Hot Water Outlet (HWO)	1 1/2	1372	1 1/2	1652	3	1637	3	1623
С	Thermostat (T)		1017		1227		1265		1221
G	Thermometer (TR)	1/2"	1322	1/2"	1522	1/2"	1560	1/2"	1516
Р	Sensor (S)		282		312		372		420
Q	Free outlet (FR)		282		312		403		443
R	Free outlet (FR)	1 1 /0"	857	1 1/2"	992	3"	1030	3"	986
S	Free outlet (FR)	1 1/2"	1167	1 1/2	1347	3	1385	3	1341
Т	Free outlet (FR)		1372		1652		1637		1623
VEN	Ventilation	3/4"	1782	3/4"	2035	3/4"	2100	3/4"	2120
D	External Diameter	1	000	1	000	1.	300	14	00
Dt	Internal Diameter	3	300	3	300	1	100	12	200
Н	Height	1	829	2	079	2	143	21	62
На	Total height	1	869	2	119	2	173	21	92
-	Tilt height	2	043	2	267	2	470	25	541
-	Weight (kg)	2	218	2	281	3	598	4.	44

ACCUMULATOR BOILER TANK IN TANK BAC-0-TT

DIMENSION & EXPLANATORY BOARD

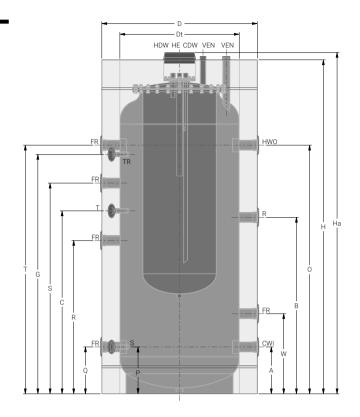
Material: Steel Sheet

Welding: Automatic Metal Welding
Maximum Working Pressure: 6 bar
Maximum Water Test Pressure: 8 bar
Maximum Operating Temperature: 95°C
Insulation: Removable Soft Polyurethane foam

of 100mm thickness

Electric Resistance: Upon Request

External Cover: Soft pvc, color of your choice



	ТҮРЕ	50	0L	75	OL.	100	DOL.	150	OOL	200	DOL.
	PART NUMBER	BAC-0	TT 500	BAC-0	TT 750	BAC-01	ΓT 1000	BAC-0	ΓT 1500	BAC-0	TT 2000
-	Tank capacity (Liter)	3.	15	57	70	69	91	14	52	17	32
-	Inner Tank capacity (Liter)	10	50	17	70	17	70	17	70	17	70
-	Recirculation inner tank (R)	3/	'4"	3/	'4 "	3/	'4 "	3/	'4 "	3/	4"
На	Cold domestic water (CDW)	1	,,	_	"	1	,,		"		,
На	Hot domestic water (HDW)	'		'				'			
В	Recirculation (R)	1 1/2"	951	1 1/2"	982	1 1/2"	1142	3"	1180	3"	1136
Α	Cold Water Inlet (CWI)	1 1 /0"	251	4.4/0"	282	4.4/0#	312	3"	403	3"	443
0	Hot Water Outlet (HWO)	1 1/2"	1341	1 1/2"	1372	1 1/2"	1652	3	1637	3	1623
С	Thermostat (T)		986		1017		1227		1265		1221
G	Thermometer (TR)	1/2"	1291	1/2"	1322	1/2"	1522	1/2"	1560	1/2"	1516
Р	Sensor (S)		251		282		312		372		420
Q	Free outlet (FR)		251		282		312		403		443
R	Free outlet (FR)	1 1 /0"	826	4 4 /0"	857	4.4/0#	992	3"	1030	3"	988
S	Free outlet (FR)	1 1/2"	1136	1 1/2"	1167	1 1/2"	1347	3	1385	3	1343
Т	Free outlet (FR)		1341		1372		1652		1637		1623
VEN	Ventilation	3/4"	1822	3/4"	1894	3/4"	2144	3/4"	2208	3/4"	2227
D	External Diameter	84	40	10	00	10	00	13	00	14	00
Dt	Internal Diameter	64	40	80	00	80	00	11	00	12	00
Н	Height	18	22	18	74	21	24	21	88	22	07
На	Total height	18	42	19	14	21	64	22	28	22	
-	Tilt height	19	88	21	24	23	48	25	45	26	14
-	Weight	14	42	16	54	18	35	3′	13	34	48

ACCUMULATOR BOILER TANK IN TANK BAC-1-TT

DIMENSION & EXPLANATORY BOARD

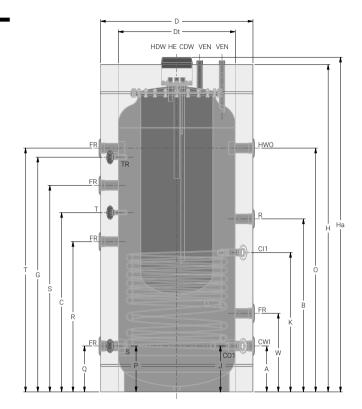
Material: Steel Sheet

Welding: Automatic Metal Welding
Maximum Working Pressure: 6 bar
Maximum Water Test Pressure: 8 bar
Maximum Operating Temperature: 95°C
Insulation: Removable Soft Polyurethane foam

of 100mm thickness

Electric Resistance: Upon Request

External Cover: Soft pvc, color of your choice



	TYPE	50	0L	75	0L	100	00L	150	DOL.	200	00L
	PART NUMBER	BAC-1	TT 500	BAC-1	TT 750	BAC-17			TT 1500	BAC-1	TT 2000
-	Tank capacity (Liter)	30	00	55	53	67	70	14	30	17	06
-	Coil capacity (Liter)	14,54		16	,52	19,	,83	21	,15	23,79	
-	Inner Tank capacity (Liter)	16	50	17	70	17	70	17	70	17	70
-	Recirculation inner tank (R)	3/	4"	3/	'4"	3/	4"	3/	'4 "	3/	'4 "
На	Cold domestic water (CDW)										
На	Hot domestic water (HDW)	1	"	1	"	1	"	1	"	1	n
K	Coil S1 inlet (CI1)	1"	766	1"	797	1"	932	1"	955	1"	983
J	Coil S1 outlet (CO1)	1 1"	251	1 1"	282	1"	312	1"	340	1"	393
-	Coil S1 surface (m²)	2,2	:81	2,5	92	3,	11	3,	31	3,7	32
В	Recirculation (R)	1 1/2"	951	1 1/2"	982	1 1/2"	1142	3"	1180	3"	1136
Α	Cold Water Inlet (CWI)	4.4/0	251	1 1 /0"	282	4.4/0"	312	3"	403	3"	443
0	Hot Water Outlet (HWO)	1 1/2"	1341	1 1/2"	1372	1 1/2"	1652	3	1637	3	1623
С	Thermostat (T)		986		1017		1227		1265		1221
G	Thermometer (TR)	1/2"	1291	1/2"	1322	1/2"	1522	1/2"	1560	1/2"	1516
Р	Sensor (S)		251		282		312		372		420
Q	Free outlet (FR)		251		282		312		403		443
R	Free outlet (FR)	1 1 /0"	826	1 1 /0"	857	1 1 /0"	992	3"	1030	3"	988
S	Free outlet (FR)	1 1/2"	1136	1 1/2"	1167	1 1/2"	1347) 3	1385	3	1343
Т	Free outlet (FR)]	1341		1372		1652		1637		1623
VEN	Ventilation	3/4"	1822	3/4"	1894	3/4"	2144	3/4"	2208	3/4"	2227
D	External Diameter	84	40	10	00	10	00	13	00	14	.00
Dt	Internal Diameter	64	40	80	00	80	00	11	00	12	00
Н	Height	18	22	18	74	21	24	21	88	22	07
На	Total height	18	42	19	14	21	64	22	28	22	47
-	Tilt height	19	88	21	24	23	48	25	45	26	14
-	Weight	17	73	20	01	24	46	35	58	39	98

ACCUMULATOR BOILER TANK IN TANK BAC-2-TT

DIMENSION & EXPLANATORY BOARD

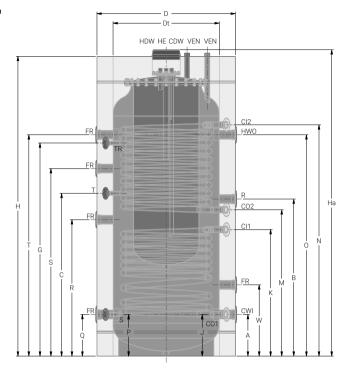
Material: Steel Sheet

Welding: Automatic Metal Welding
Maximum Working Pressure: 6 bar
Maximum Water Test Pressure: 8 bar
Maximum Operating Temperature: 95°C
Insulation: Removable Soft Polyurethane foam

of 100mm thickness

Electric Resistance: Upon Request

External Cover: Soft pvc, color of your choice



	ТҮРЕ	50	0L	75	OL	100	00L	150	00L	20	00L
	PART NUMBER		TT 500		TT 750		TT 1000		TT 1500		TT 2000
-	Tank capacity (Liter)	28	 33	5	18	65	56	14	-06	16	92
-	Coil S1 / S2 capacity (Liter)	14,54	/ 14,54	16,52	/ 16,52	19,83	/ 19,83	21,15	/ 21,15	23,79	/ 23,79
-	Inner Tank capacity (Liter)	16	50	17	70	17	70	17	70	1	70
-	Recirculation inner tank (R)	3/	'4 "	3/	'4 "	3/	'4 "	3/	/4"	3/	/4"
На	Cold domestic water (CDW)										
На	Hot domestic water (HDW)	1	,	1	"	1	"	1	"	1	1 "
K	Coil S1 inlet (CI1)		766		797		932		955		983
N	Coil S2 inlet (CI2)	4."	1401	4,"	1432	4,"	1672	4,"	1690	4,"	1678
J	Coil S1 outlet (CO1)	1"	251	1"	282	1"	312	1"	340	1"	393
М	Coil S2 outlet (CO2)		886		917		1052		1075		1093
-	Coil S1 / S2 surface (m²)	2,281 /	/ 2,281	2,592	/ 2,592	3,11,	/ 3,11	3,31	/ 3,31	3,732	/ 3,732
В	Recirculation (R)	1 1/2"	951	1 1/2"	982	1 1/2"	1142	3"	1180	3"	1136
Α	Cold Water Inlet (CWI)	1 1/2"	251	1 1/2"	282	1 1 /0"	312	3"	403	- 3"	443
0	Hot Water Outlet (HWO)	1 1/2	1341	1 1/2	1372	1 1/2"	1652	3	1637	3	1623
С	Thermostat (T)		986		1017		1227		1265		1221
G	Thermometer (TR)	1/2"	1291	1/2"	1322	1/2"	1522	1/2"	1560	1/2"	1516
Р	Sensor (S)		251		282		312		372		420
Q	Free outlet (FR)		251		282		312		403		443
R	Free outlet (FR)	1 1/2"	826	1 1/2"	857	1 1/2"	992	3"	1030	3"	988
S	Free outlet (FR)	1 1/2	1136	1 1/2	1167	1 1/2	1347	٦	1385] 3	1343
R	Free outlet (FR)		1341		1372		1652		1637		1623
VEN	Ventilation	3/4"	1822	3/4"	1894	3/4"	2144	3/4"	2208	3/4"	2227
D	External Diameter	84	40	10	00	10	00	13	00	14	100
Dt	Internal Diameter	64	40	80	00	80	00	11	00	12	200
Н	Height	18	22	18	74	21	24	21	88	22	207
На	Total height	18	42	19	14	21	64	22	28	22	247
-	Tilt height	19	88	21	24	23	48	25	45	26	14
-	Weight	20	05	23	36	27	78	40	03	4.	50

TRANSFERRING THE COMBITANK

The combi tank should be transferred to the area where it will be placed on its special transfer pallet. Transfer and placement should be carried out by specialised personnel with the appropriate equipment. The area where the tank will be installed should have the required specifications for a boiler room.

USER NOTE



CAUTION!



For tank installation and maintenance, the required free space around and above the tank should be ensured during planning, so as to allow carrying out the required procedures.

RISK OF INJURY by not securing the tank adequately during transport.

- Use only suitable means for transportation.
- Secure the transported load against falling.

CAUTION!



USER NOTE



RISK OF INJURY from carrying heavy loads.

 Lifting and transfer should be always carried out by specialised persons. Where possible, transport the combi tank fully packed to the installation room. This ensures protection during transportation.

POSITIONING THE HOT WATER TANK

The combi tank is designed for vertical and can be installed in accordance with its dimensions. The floor has to be level and durable. Please see in the next page the guide for the proper placement of a vertical tank.

CAUTION!



CAUTION!



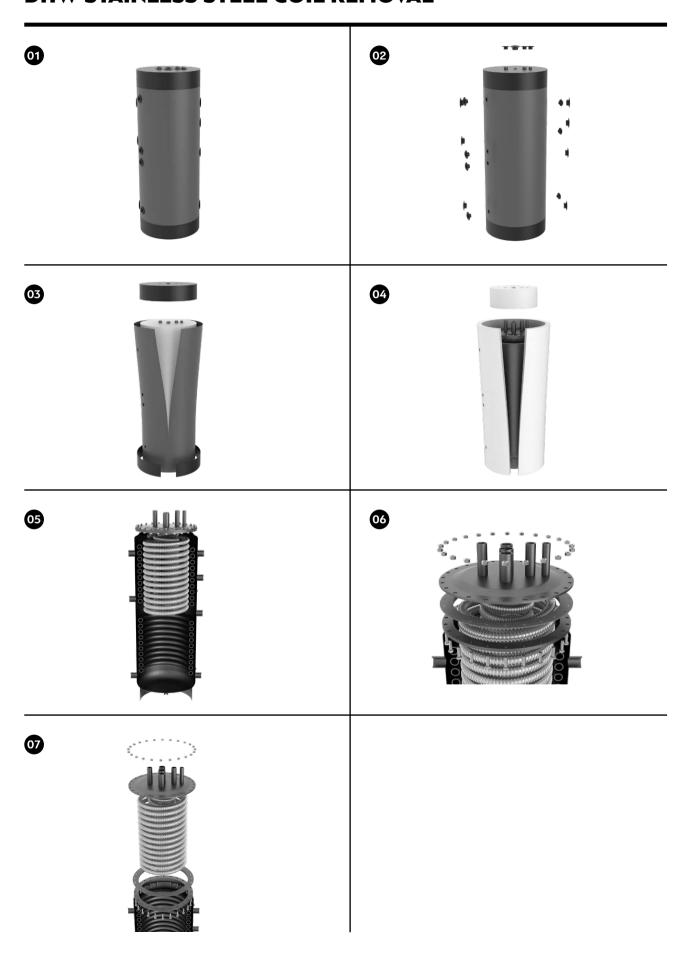
BOILER DAMAGE from frost.

 The installation area must be dry and protected from freezing.

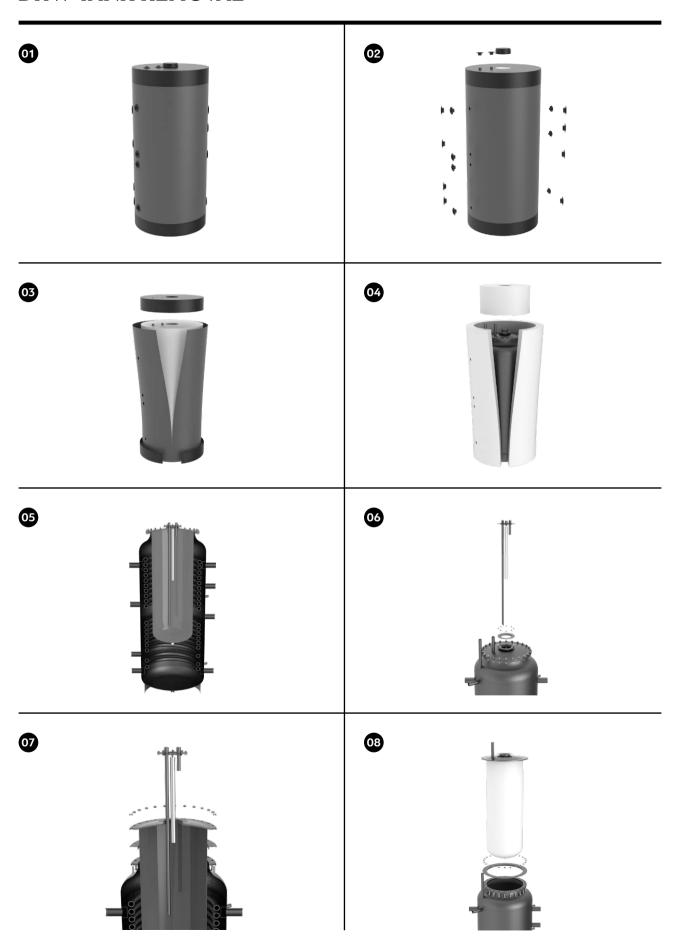
BOILER DAMAGE from corrosion.

- Use the combi tank in closed loop systems only.
- Do not use open expansion vessels.

DHW STAINLESS STEEL COIL REMOVAL



DHW TANK REMOVAL



INITIAL START OF COMBITANK

Before putting the combi tank into operation, check its impermeability to avoid leaks during operation.

- Vent the combi tank by opening the vent/bleed valve or the highest faucet.
- Before heating up, check that the combi tank and piping are completely filled with water by opening the vent / bleed valve.
- Check all connections, piping and the cleaning port for leaks.

CAUTION!



Concerning the Tank in Tank unit first the inner tank (domestic water tank) shall be filled in and then the outer tank (closed circuit). If the opposite happens the inner tank may be destroyed because of the pressure difference. During the filling of the outer tank (closed circuit) the inner tank (open circuit, domestic water) shall be already filled and connected to the network supply so as the outer pressure shall not crush the inner tank.

LEAK TEST

USER NOTE



Carry out the combi tank leak test with potable water only. The maximum test pressure must not exceed 6 bars.

SAFETY RELIEF VALVE



(supplied by the customer)

- Place a sign with the following indication on the safety relief valve: "Don't close the blow-off line.
 Water leakage may occur during heating for security reasons."
- The blow-off line cross-section should be at least equal to the output cross-section of the safety relief valve.
- Check regularly the operational readiness of the safety relief valve with manual test.

OPERATING TIPS

Inform the facility owner that

- the relief valve blow-off line always needs to be kept clear.
- the proper functioning of the relief valve should be checked at regular intervals with manual test.
- the local heating contractor should be notified if the thermal safety cut-out on the boiler is triggered repeatedly.

SHUTDOWN TIPS

In the case of long periods of absence of the facility owner we recommend the following: Keep the hot water tank in operation. If you ever need to shut down the hot water tank, when you start using it again, observe the hygiene and potable water requirements applicable in your country

CAUTION!



BOILER DAMAGE

The combi tank can be permanently damaged by excessive pressure if the safety relief valve is blocked.

 Always keep the blow-off line of the safety relief valve open.

CAUTION!



BOILER DAMAGE

If the combi tank ever has to remain empty for several days, signs of corrosion may appear due to residual moisture.

 Thoroughly dry the inside of the tank (e.g. with hot air) and keep the cleaning port cover open.

MAINTENANCE

It is recommended to have the tank checked by a specialized technician after the end of the first operational year. The findings (e.g. high precipitate concentration, security valve losses, anode consumption) shall determine the tank's maintenance periodicity.

Preparing the combi tank for cleaning

- Disconnect the power supply of the heating system and disconnect all electrical power supply to the resistor, if present in the tank.
- Empty the combi tank by closing the fresh water supply valve and drain the tank. For ventilation, open the vent/bleed valve or the highest faucet.
- Remove the casing lid and the thermal insulating element from the combi tank.
- Unscrew the screws from the cleaning port cover.
- Remove the cleaning port cover.
- Unscrew the hex screws; remove the cleaning port gasket and the sealing gasket.

Tank in Tank preparation for cleaning/maintenance

ATTENTION: First of all we empty the closed circuit tank and then the open circuit tank, never the opposite.

Closed circuit tank empty process:

- Remove the supply of the heating system and disconnect the heating element (if available).
- Empty the tank by closing the water supply valve.
 Drain the tank, if there would be a maintenance in the same tank. For ventilation open the valve or the top socket.

Open circuit tank empty process:

- Remove the supply and disconnect the heating element (if available).
- Remove the cover lid and the insulation.
- Unscrew the hexagonal screws, remove the flange and the sealant flange.
- Drain the tank.

SAFETY AND HYGIENE RECOMMENDATION

During the system's use there might be gathered precipitates, other materials and Biofilm in the tank. This is mainly due to the bad water quality, to the water supply network, to the water pipes and to the water heating exchanger inside the tank. The for mentioned phenomenon might deteriorate the water quality so it is recommended apart from the scheduled tank cleaning also a filter placement to the water inlet from the water network.

Check the hot water tank interior for scale (salt) deposits. If there are scale deposits inside the hot

water tank, these should be removed. You can increase the cleaning effect by heating up the empty hot tank; the thermo-shock effect releases scale deposits more easily from the heat exchanger coil. Remove the residues with a wet & dry vacuum cleaner with plastic suction tube. If the deposits inside the hot water tank are too hard, you can remove them with chemical cleaning. It is recommended to employ a specialised technical company for the chemical cleaning

CAUTION!



DAMAGE OF THE INSTALLATION from damaged surface finish.

- Never use hard objects or objects with sharp edges to clean the interior walls of the hot water tank.
- If you observe or notice damage or destruction of the tank's finish, you should contact with the supplier from which it was bought to carry out the planned actions

CAUTION!



PREVENT LEGIONELLA RISK IN THE HOT WATER TANK

The primary method used to control the risk from Legionella is water temperature control.

The water temperature at the bottom of the tank shall at least once per week, depending on the use and the water quality, reach or overpass 60°C for at least 30 minutes. This period shall be adjusted by the installer.



CAUTION!



The sealing gasket feature must have at least the same technical specification with the one provided by the tank producer.

Under no circumstances should you exercise any welding on the tank's metal structure. You risk to deteriorate or destroy the tank. If there is such a need it should be effected only by specialized personnel.

CAUTION!



BOILER DAMAGE due to unsatisfactory cleaning and maintenance.

- Carry out cleaning and maintenance of the combitank at least every two years.
- Immediately restore all faults to prevent damages!



During maintanance, manhole sealing and heat exchanger flange should be removed.





MAGNESIUM ANODE CHECK

Check the magnesium anode for decay. Replace the magnesium anode if its diameter has been reduced by more than 50%.

USER NOTE



Do not allow the contact of the magnesium anode rode with oil or other lubricants. Make sure that the rod is clean.

The magnesium anode is a protective anode, which is consumed during the operation of the combi tank. The magnesium anode should be visually checked at least every year an replaced in case it is necessary. During magnesium anode check the elastic flange shall also be checked for any damages and it shall be replaced if necessary.

MAINTENANCE BOOK

DATE OF PUR	CHASE:		OWNER DATA:		
RETAILER:					
INSTALLER IN	IFORMATION:				••••••
MAINTENANCE DATE	MAINTAINER INFORMATION	REASON OF VISIT	EXECUTED OPERATIONS	SPARE PARTS USED	