

combo max

COMBINED ELECTRIC BOILER
AND INSTANTANEOUS WATER HEATER
4.5 KW TO 29 KW



ULTRA



THE ULTIMATE COMBINATION

Get the best of both worlds with the **COMBOMAX ULTRA**. An electric boiler for hydronic heating combined with an instantaneous water heater, the **COMBOMAX ULTRA** is the ideal solution for all water heating needs. Almost maintenance-free, it can help to substantially save both in terms of space and installation-related costs.



Peak-performance
heating systems

combomax

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AND INSTANTANEOUS WATER HEATER
4.5 KW TO 29 KW

ULTRA



Precise and easy to configure, the *UltraSmart™* controller, with its backlit display, enables optimal management of the hot water temperature and saves on energy costs.

This controller also manages operation of the heating system pump when there is a demand from the thermostat. It offers the possibility to be installed in a dual-energy mode and ensures a priority on domestic hot water production.

A combination without compromise

As an electric boiler, the **COMBOMAX ULTRA** is compatible with any hydronic heating system. Its combined water heater system uses the stored heat transfer fluid to provide domestic hot water in less than 7 seconds. Potable water flows inside the independent copper coils, which are connected to the domestic hot water distribution system.

ALL THE POWER YOU EXPECT FROM AN ELECTRIC BOILER

Available in two sizes, the **COMBOMAX ULTRA** offers performance levels from 4.5 kW to 29 kW for either residential constructions or condominiums. It is just as efficient as conventional electric boilers and can easily heat large buildings of up to 4750 sq. ft.

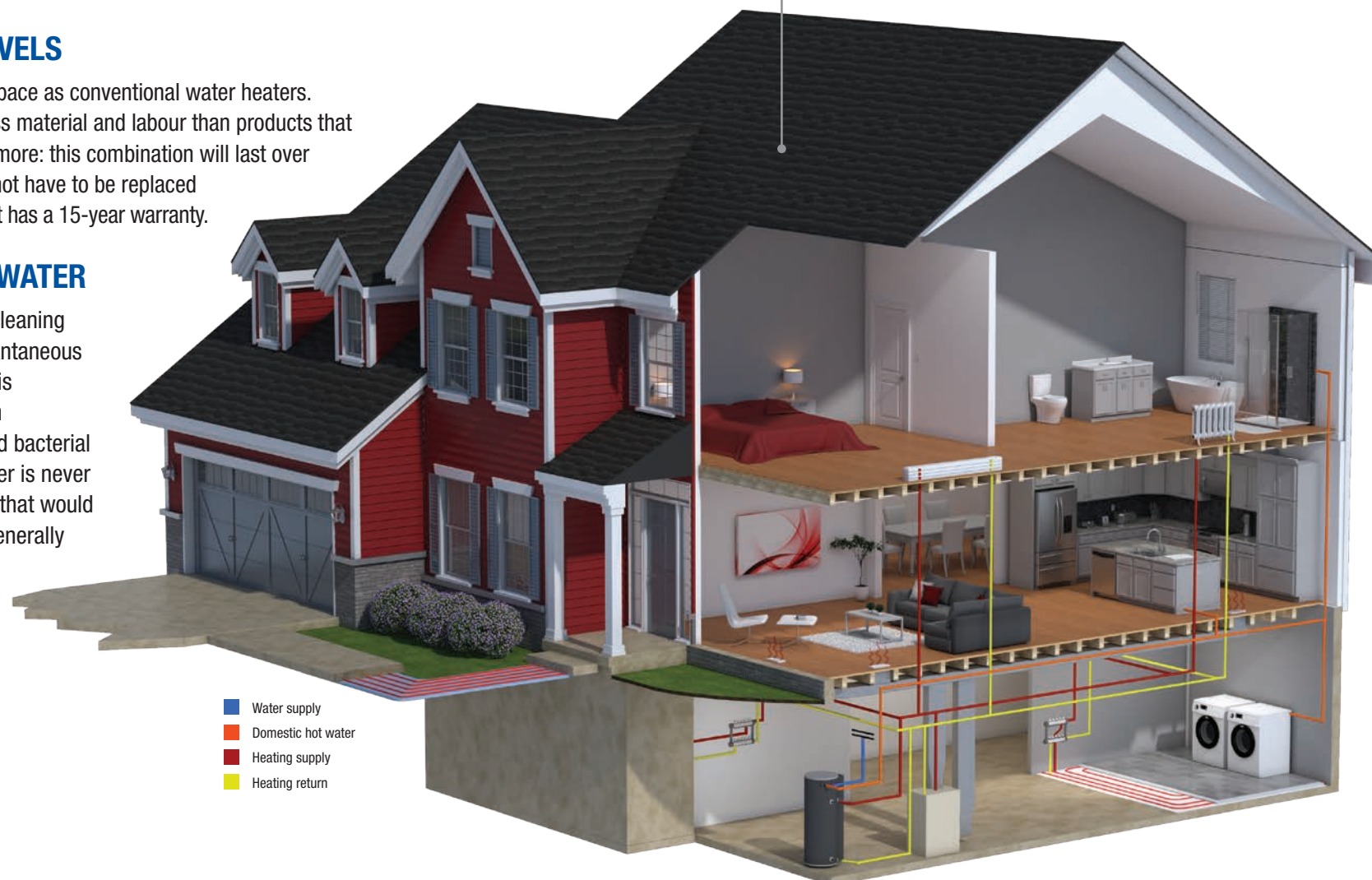
COMBINED SAVINGS AT ALL LEVELS

The **COMBOMAX ULTRA** takes up the same space as conventional water heaters. It is installed in one easy step and requires less material and labour than products that would have been installed separately. What's more: this combination will last over 30 years, which means the water heater will not have to be replaced every 7 to 10 years. Almost maintenance-free, it has a 15-year warranty.

HIGH-QUALITY DOMESTIC HOT WATER

The hot water used for showers, cooking or cleaning all comes from the **COMBOMAX ULTRA** instantaneous water heater system. Because the hot water is continuously renewed, users will benefit from exceptionally high-quality hot water and avoid bacterial growth, such as legionella. Domestic hot water is never stored and never in contact with any residue that would accumulate in conventional water heaters. Generally the **COMBOMAX ULTRA 50-24** can produce 60% more domestic hot water within an hour than a conventional electric water heater.

COMBOMAX ULTRA APPLICATIONS



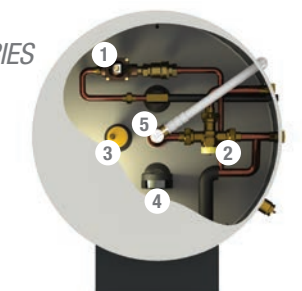
STANDARD EQUIPMENT

- 1- **ULTRASMART™** CONTROLLER
- 2- COLD WATER SUPPLY
- 3- DOMESTIC HOT WATER OUTLET
- 4- BOILER PRESSURE RELIEF VALVE
- 5- COPPER COILS
- 6- DRAIN VALVE
- 7- WATER HEATING INLET
- 8- WATER HEATING OUTLET



SIMPLIFIED INSTALLATION THANKS TO FACTORY PRE-ASSEMBLED ACCESSORIES

- 1- PRESSURE REGULATOR WITH BACK FLOW PREVENTER FOR BOILER WATER
- 2- DOMESTIC HOT WATER MIXING VALVE
- 3- AUTOMATIC AIR VENT
- 4- TEMPERATURE AND PRESSURE INDICATOR
- 5- DOMESTIC HOT WATER PRESSURE RELIEF VALVE



combomax ULTRA

Available in 2 sizes

MODEL	COMBOMAX ULTRA 50	COMBOMAX ULTRA 70
VOLUME	48 US gallons	71 US gallons
WEIGHT	310 lb	410 lb
MAXIMUM OPERATING PRESSURE	30 psi	30 psi
MAXIMUM OPERATING PRESSURE (DOMESTIC HOT WATER)	125 psi	125 psi
BOILER CONNECTIONS	1" male NPT	1 1/4" male NPT
POTABLE WATER CONNECTIONS	3/4" female NPT	3/4" female NPT
DIAMETER	22"	24"
HEIGHT	60"	70 1/2"

combomax ULTRA

240 VAC / 60 Hz / 1 phase¹

Power ²		Amps ³	Elements	Stages	Recommended electrical supply ⁴		
kW	BTU/h				Cu Wire	Al Wire	Breaker
4.5	15354	19	1 x 4.5 kW	1	10	10	30
7.5	25590	31	1 x 3 kW + 1 x 4.5 kW	2	8	6	40
9	30708	38	2 X 4.5 kW	2	8	6	50
12	40944	50	2 X 6 kW	2	6	4	70
15	51180	63	2 x 3 kW + 2 x 4.5 kW	4	6	4	80
18	61416	75	4 x 4.5 kW	4	4	2	100
20	68240	83	4 x 5 kW	4	3	2	110
24	81888	100	4 x 6 kW	4	2	0	125
27*	92124	113	6 x 4.5 kW	6	1	00	150
29*	98948	120	4 x 5 kW + 2 x 4.5 kW	6	1	00	175

¹ Electrical supply: 120/240V or 120/208V single-phase (L1 – N – L2) with three 90°C conductors, or two conductors L1 – L2 if the boiler does not require power to a 120 VAC pump or accessories.

² Multiply by .75 for a 208 VAC power supply.

³ Multiply by .867 for a 208 VAC power supply.

⁴ The wire gauges and breaker capacity must be in conformity with the standards of the National Electrical Code (NEC), Canadian Electrical Code (CEC) and local codes (if applicable).

* Not available in COMBOMAX ULTRA 50 size.

Domestic hot water production at 110°F* (US gallon)

POWER kW	COMBOMAX ULTRA 50		COMBOMAX ULTRA 70	
	10 min.	1 h	10 min.	1 h
4.5	50	72	73	95
7.5	53	90	76	113
9	55	99	78	122
12	58	116	81	139
15	61	134	84	157
18	64	152	87	175
20	66	163	89	186
24	69	187	92	210
27	–	–	95	228
29	–	–	97	239

* 40°F domestic cold water supply and 180°F boiler water temperature

MULTI-POSITION INSTALLATION



15-YEAR WARRANTY
ON THE TANK

2-YEAR WARRANTY
ON ELECTRICAL AND MECHANICAL PARTS



Thermo 2000 manufactures peak-performance heating systems for domestic hot water and hydronic heating systems. Since 1978, the company's innovations have provided sustainable solutions for residential, commercial and institutional applications.

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