

Hybrid heating and 25% faster heat-up with the new Truma Combi



Designed to provide both hot water and blown air space heating from a compact package weighing in at just 15.5 kg, Truma's hybrid Combi heaters use electricity as well as gas to boost their overall performance.

Words Terry Owen

Electric power is provided by two 900-watt elements embedded into the heat exchanger. These are independently switched, allowing one or both to be in operation at any given time and providing up to 1800 watts of electric power. This results in a whole host of benefits and offers maximum flexibility.

Mixed mode

In mixed mode, end users decide whether they want to heat with gas and one (900 watts) or two (1,800 watts) electric heating elements. The priority is always on electric operation. Only if the target temperature cannot be reached with electric power, the Combi additionally switches on its gas burn-

er. This results in significant savings of precious LPG resources.

Electric mode

The electric only mode has two big advantages: first, virtually silent operation. With no burner to run, the only noise comes from the air circulation fan. The fan has been designed to be extremely quiet, especially at low speeds, such as may be used during the night. Second, emissions are reduced to zero when heating 100% in electric mode.

Gas mode

Truma claims its hybrid gas heaters are approximately 98% percent fuel efficient. This is no doubt aided by three-stage burners



Truma CP plus



that ensure no more gas is used than is actually needed for any given heat demand. They also come with a low 12-volt battery usage making them good for use in off-grid situations.

More power for the new Combi

Never one to let the grass grow under its feet, Truma has recently upgraded its Combi 6 heater. Top on the list of changes are improved performance and enhanced functionality. The Combi 6 E version now has the ability to add 900 watts of electric heating to its maximum gas output of 6,000 watts to give a total heat output of 6.9 kW. As this feature is meant to heat-up cold RVs very quickly, this very high level of power is only available in boost mode where the temperature difference between the set point and inside of the vehicle is 10° C or more. Previously the maximum output of the Combi 6 E was just 6 kW. Adjustments have also been made to the hot water function to enable the water to reach a higher temperature before switching off. Previously this was 60°C, now it's 66°C. The result is more hot water for showering and other uses. The new model is a direct replacement for the old version so no wiring or piping modifications are needed by installers. However, where required, the new Combi 6 / 6 E models can also be installed with three warm air ducts instead of the previous four. This will be of particular help in situations where space is tight. The new Combi 6 entered production in June 2020 and will feature in Truma's ongoing dealer training programme organized by Technical Marketing. This is backed up by Truma's Technical Customer Service Department, which is dedicated to supporting Truma's OEMs.

Easy control from an LCD panel or smartphone app

All Truma's heaters can be controlled from the CP plus, an easy to use LCD panel or, with the addition of the iNet Box, from the Truma app. This allows the user to select the fuel type, the fan level as well as space or water heating. The smartphone app can be used via Bluetooth close to the RV and outside Bluetooth range anywhere there is

a phone signal via SMS. It does not need 3G or higher.

Diesel version available

For those markets where LPG may not be readily available, or where there may be little space for LPG storage, Truma produces a diesel hybrid version of the Combi 6 – the Combi D 6 E. It can also be used on a single fuel or in mixed mode. Once again, electricity can be prioritised to save diesel and reduce emissions. It too comes with a three-stage burner and an efficiency of approximately 90%.

Solid heritage

Truma's first combined water and space heater (the Trumatic C) launched in 1994, aimed at the fast-growing motorhome market. It's space saving design made it an instant hit and carried through until a major revamp in 2007. That's when the Truma Combi, as we know it today, was born. Smaller and lighter than the outgoing model, it won the coveted Red Dot design award even before its launch. It's a tribute to the 2007 design that it's still going strong today, but of course it has constantly been developed further, optimized and adjusted.

Conclusion

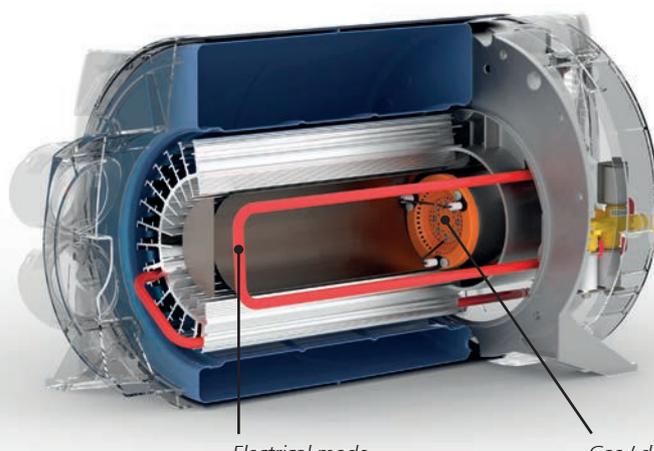
There's nothing worse than putting all your



Truma iNet System app to control Truma Combi E and other iNet-ready devices

eggs in one basket and relying on a single fuel for space heating and hot water is exactly that. Truma's hybrid Combi E range of heaters not only offer electricity as a second fuel but do so in such a way as to present significant benefits to the end user.

In addition, the new Combi 6 / 6E with its extra power, offers up to 25% faster heat-up as well as more hot water. Along with the other models, it is sure to keep Truma at the very top of its game in RV heating.



Truma Combi E cutaway

Models:	Truma Combi 4 E	Truma Combi 6 E	Truma Combi D 6 E
Consumption (gas / diesel):	160 / 335 g/h	160 / 335 / 460 g/h	220 / 452 / 630 ml/h
Power consumption 12 V:	1.2 A (0.2 – 6.5)	1.4 A (0.2 – 6.5)	1.8 A – 7 A
Water volume:	10 litres	10 litres	10 litres
Water cut off temp (Hot water mode)	66°C	66°C	60°C
Rated heat output:	2 / 4 kW	2 / 4 / 6 / 6.9 kW	2 / 4 / 6 kW
Heating time of water from 15°C to 60°C according to EN 15033			
Water heating time, gas / diesel – 2000 W:	approx. 23 min	approx. 23 min	approx. 20 min
Water heating time, electrical mode – 1800 W:	approx. 45 min	approx. 45 min	approx. 45 min
Rated heat output in electrical mode:	900 / 1800 W	900 / 1800 W	900 / 1800 W
Power consumption at 230 V:	3.9 A (900 W) / 7.8 A (1800 W)	3.9 A (900 W) / 7.8 A (1800 W)	3.9 A (900 W) / 7.8 A (1800 W)
Weight:	15.5 kg	15.5 kg	16.9 kg