

# FutureE FC-HCHP – Sustainable Heat & Power Supply

Provide. Secure. Economize.



FutureE FC-HCHP

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## Fuel Cell System for a Sustainable & Productive Society

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FutureE's energy converter system, with its modular-expandable performance, provides a convincing solution for local, sustainable, and secure heat and power supply across residential, industrial, and commercial sectors.

### Your advantages at a glance:

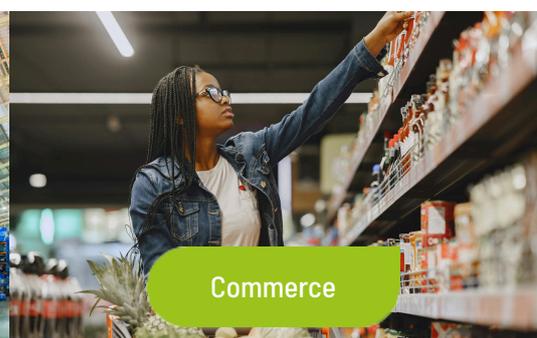
- **Efficient conversion:** Electricity and heat are provided by converting hydrogen.
- **Savings:** Financial advantages can be achieved through peak shaving and reduced CO<sub>2</sub> duties.
- **Revenue:** The provision of balancing energy enables additional revenue streams.
- **Resilience:** Even in the event of power grid failures, the energy supply and thus normal operation can be ensured, reducing the risk of productivity and security loss.
- **Increased efficiency:** The flexible and efficient operation of the FutureE FC-HCHP system supports the implementation of your local energy management.



Residential Areas



Industry



Commerce

# FutureE FC-HCHP

## ELECTRICAL

Output power	80 kW (modular expandable)
Output power (peak)	92 kW
Electrical efficiency	46 %
Voltage	400 V AC / 3P 50 Hz
Operating mode	connected / off-grid / emergency power



## THERMAL

Thermal power	63 kW (BOL) 120 kW (EOL)
Operating temperature	65 °C
Heat temperature	ca. 48 °C
System cooling	combined recooling and heat extraction

## CONNECTIONS & INTERFACES

Communication interface	Modbus TCP/IP
Heat extraction	flow: R2" external thread return: R2" external thread
Wastewater drain	DN50 (in container ground)

## HYDROGEN SUPPLY

Inlet pressure	7 - 14 bar
Quality	99.95 %
Consumption	up to 5.4 kg/h (BOL) up to 7.5 kg/h (EOL)

## DIMENSIONS

Length / width / height	2,991 / 2,438 / 4,937 mm (incl. blower)
Total weight	3,500 kg

## MISCELLANEOUS

Technology	PEM
System integration	turnkey solution
Life expectancy (FC-stack)	> 20,000 h
Modularity	expandable

### FutureE GmbH

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