

# Solid Oxide Fuel Cells and Electrolysis from the largest stack production facility in Europe

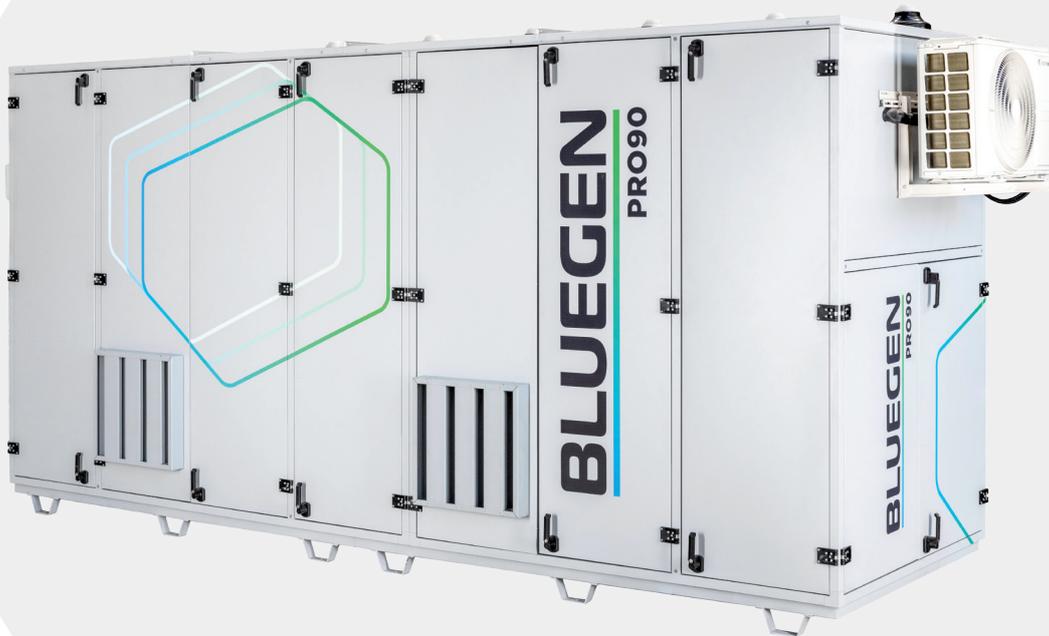
SolydEra

SolydEra is a key world player in the market of Solid Oxide Cells, Stacks and Systems, with a production capacity of 25MW on its industrial site in Pergine, Italy. Our Solid Oxide Technology has a proven track record in the field and delivers top in class performance and durability in both fuel cell and electrolysis mode. Our highly efficient solid oxide stacks can be integrated into systems from a few kW to MW sizes.

**Would you like to know more? Please contact us!**



## SolydEra BLUEGEN PRO



**We stack it.**

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## Technical data

	BLUEGEN Pro78	BLUEGEN Pro90
Operating mode	Continuous Power	Power Modulation
Fuel Cell Type	SOFC	SOFC
Service interval	yearly	yearly
Monitoring	24/7	24/7
Customer interface	BLUEGEN-net via Web and Mobile application, ModBus	BLUEGEN-net via Web and Mobile application, ModBus
Output	BLUEGEN Pro78	BLUEGEN Pro90
Electrical AC power output	kW <sub>el</sub> 7,8	kW <sub>el</sub> 3,0 – 9,0
Thermal power	kW <sub>th</sub> 4,5	kW <sub>th</sub> 4,5
Electrical energy (annual amount) - up to	kWh <sub>el</sub> 67.000	kWh <sub>el</sub> 78.000
Thermal energy (annual amount) - up to	kWh <sub>th</sub> 39.000	kWh <sub>th</sub> 39.000
Efficiency & Performance	BLUEGEN Pro78	BLUEGEN Pro90
Electrical efficiency up to <sup>1</sup>	57 %	57 %
Thermal efficiency up to <sup>1</sup>	32 %	33 %
Overall efficiency up to <sup>1</sup>	89 %	89 %
Operating media gas	BLUEGEN Pro78	BLUEGEN Pro90
fuel	Natural gas, natural gas with up to 20% H <sub>2</sub> , bio-methane, synthetic natural gas	
Installation	BLUEGEN Pro78	BLUEGEN Pro90
Ambient temperature	-20 to 45°C	-20 to 45°C
Installation location	Outdoor	Outdoor
Dimensions and weight	BLUEGEN Pro78	BLUEGEN Pro90
Weight in total	3000 kg	3000 kg
Weight as delivered	1450 kg	1450 kg
Height	2345 mm	2345 mm
Depth	1650 mm	1650 mm
Wide	5450 mm	5450 mm

## Benefits

- High efficiency, less CO<sub>2</sub>, no emissions, Modulation, wide power range, fuel flexibility, easy to cascade, high availability
- Easy to install
  - Container ready to connect
  - short installation time
  - Tested connection

## Application Areas

Suitable for small-scale commercial buildings, business and more

- Restaurants, hotels, stores, office buildings, workshops, supermarket
- Electrical energy: > 80,000 kWh
- Constant energy supply (base load)
- No space in the building but outside / on the roof
- Cascade of containers limited by the space

## Installation Requirements

- Continuous supply of gas
- Continuous supply of water
- Uninterrupted connection to el. grid
- Uninterrupted connection to internet
- Plain and stable ground with good access