

USE CASE

Stationary

PM Cube

Repowering Unit – Indoor use



Proton Motor is a ForOxiE² Industry partner

Nine enterprises and eight research institutes from Bavaria participate in the ForOxiE² research consortium. This is where the next generation of fuel cells is being researched. For the purpose of stress testing, Proton Motor provided Coburg University with one of its Indoor Cubes.

HOCHSCHULE COBURG
university of applied sciences



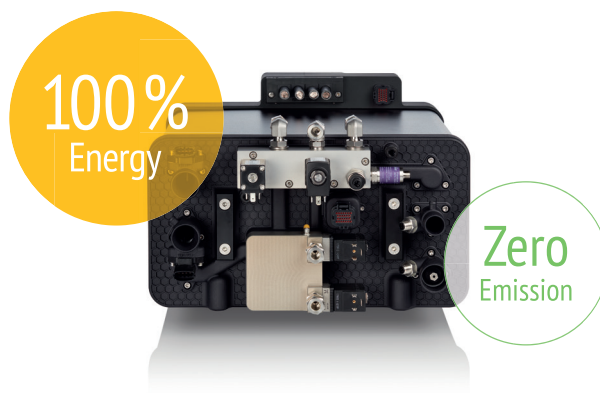
Main benefits

- Combination with battery package possible
- Zero Emission
- Silent operation
- Positive Image
- Customisable
- High Efficiency
- Short Refuelling Time
- Long Life Time
- High Reliability

PM Cube Indoor Use Case

Electrical System	
Nominal Power [kW]	4.2
Output Voltage [V AC, Hz]	230; 50
Supply Voltage [V AC, Hz]	230; 50
Consumption of auxiliaries [W]	400
Hydrogen System	
Hydrogen Quality	ISO 14687-2 / SAE J2719
H2 Supply Pressure [bar _a]	2.2-7.0
Cooling System	
Coolant	Liquid
Coolant inlet temperature [°C]	< 45
Environmental Conditions	
Ambient Temperature [°C]	5 to 40
Dimensions / Others	
LxWxH [mm x mm x mm]	1,000 x 800 x 2,000
Installation Site	Indoor
Options	
Air cooler	
Hydrogen Detector	
Heat Extraction	
Hydrogen Pressure Regulator Station	

Errors excepted, technical changes reserved
 Product specifications are subject to change without further notification



PM 200 Stack Module inside
 Fuel Cell Stack Module 2-16



Repowering Unit – Indoor use

Turnkey system for the direct reconversion of stored hydrogen. Heat extraction via water cooling is easily feasible. Connection possible with LOHC, metal hybrid and classic gas storage options.

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Stationary

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