Product name:	Product code:
Fuel Cell System	NEECHL0258



Description

Fuel Cell System

Technical specification

- voltage (stack): 20...40V
- current (stack): 0,1...20A LxWxH: 1750x780x1770mm

Weight: approx. 180kg

Installation & Basic operational training included

[1] investigation of a polymer-membrane fuel cell
[2] water cooled system in combined heat and power
[3] hydrogen supplied via standard pressure vessel
[4] high-pressure reducing valve for hydrogen pressure vessel supplied
[5] oxygen supplies directly from the ambient air
[6] precise adjustment of the operating points via electronic load
[7] regulation of moisture without external humidification
[8] sensors for flow rate, pressure, temperature, voltage and current strength
[9] complete operation and evaluation via a PC
[10] software for data acquisition via USB under Windows Vista or Windows 7

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Technical Data

Nominal output: 360W

Nominal operating point: 15A / 24V

Thermal power: approx. 480W depending on ambient conditions

Required ambient temperature: 5...30°C Required inlet pressure: 1...200bar Measuring ranges

- flow rate (cooling water): 0,6...0,7L/min
- flow rate (hydrogen): 1...5L/min
- pressure in the system (hydrogen): 250...350mbar
- temperatures: 5...55°C