

Product Name :
Fuel Cell System

Product Code :
NEECHL0258



Description :

Fuel Cell System

Technical Specification :

- [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

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- [5] oxygen supplies directly from the ambient air
 - [6] precise adjustment of all 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

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

Weight: approx. 180kg

Installation & Basic operational training included

Civil Mechanical India

Website: www.civilmechanicalindia.com, **Email:** export@civilmechanicalindia.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, +91-0171-2601773