

## EH51 – Fuel Cell Stack

Electrical Specs	EH51 - 5kW	EH51 - 10kW	EH51-15kW
Nominal Power [kWe]	5.0	10.0	15.0
Peak Power [kWe]	5.5	11.0	16.5
Current Range [A]		0-300	
Voltage Range [V]	17 – 37	33 – 74	50-110

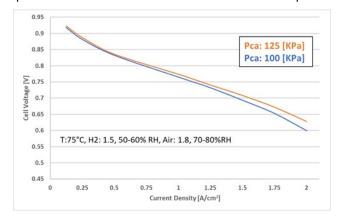
Mechanical Specs			
Dimensions [mm] (with manifolds and connection ports) <sup>1</sup>	280 x 120 x 130	280 x 120 x 180	280 x 120 x 230
Weight [kg] (with manifolds and connection ports)	~ 11.0	~16.0	~20.0

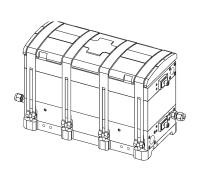
Operating Conditions - Cathode side	
Quality	Filtered, no impurities
Inlet Temp. [°C]	65 – 70
Outlet Temp. [°C]	76 – 80 (85 short run)
RH [%] – No condensation	35-80
Stoichiometry [λ]	1.5 – 2.0
Pressure level [kPa g]	<150
Pressure drop [kPa] (@ 0.6V operation)	< 30

Operating Conditions - Anode side	
Quality	>99.995 (SAE J2719 or ISO 14687:2019 grade D)
Inlet Temp. [°C]	65 – 70
RH [%] – No condensation	< 40
Stoichiometry [λ]	1.2-1.8
Pressure level [kPa g]	< 150
Pressure drop [kPa] (@ 0.6V operation)	<20

water, DI + anti-freeze 65 – 70
65 – 70
8-10
3.5 (max)
< 60
30
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## Example of Performance Curves – Normalised per Cell





- 1 Stacks delivered with integrated gas manifolds
- Performance curves derived using standard MEA from the market
- Values achieved at EH Group test conditions at beginning of life
- Addition of customised CVM is possible

- Connection port of Hydrogen side: Swagelok fitting
- Connection port on Cathode side: Hose or Swagelok fitting
- Connection port of Cooling side: Hose or Swagelok fitting
- Please contact us directly for any customisation

https://www.ehgroup.ch