

# Fuel Cell Inspection and Assessment Testing Service Station

## Fuel Cell Inspection and Assessment Testing Service

Let us know your requests for evaluation items. We will propose the optimal test profile.

- Fuel cell size
- Selection of measurements for power generation, gas control, and electrochemical conditions
- Test period shortening and price reduction

- ★ Two testing facilities in Chubu and Kanto
- ★ Support from spot evaluation to endurance testing
- ★ Testing jigs compatible for proposal and design are also available

Testing jig ▶



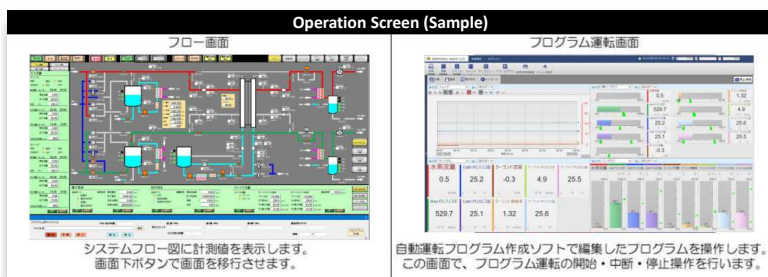
Fuel Cell Size					
Testing Method	Single Cell			Stack	
	Small	Full	Short	Full	Full
	1 cell	1 cell	2~20 cells	1 stack	1 system
Performance Assessment	○	○	○	—	—
Endurance Assessment	○	○	○	○	○
Quality Assessment	—	—	○	○	○

Fuel Cell Size and Testing Service Station Compatibility Table						
Congruent Size	Single Cell			Stack		
	Small	Full	Short	Full	Full	
Capacity	~100W	~1kW	~10kW	~100kW	~200kW	
Model	FCT-01	FCT-10	FCT-100	FCT-1000	FCT-2000	
External Appearance						
Power Ranger	0~100W	0~1kW (OP:~6kW)	0~12kW	0~100kW	0~200kW	
Standard Gas Flow (NLPm)	Anode	0.01~0.5 (max2)	0.3~15 (max100)	1.25~250 (max750)	10~2000 (max3000)	25~5000 (max6000)
	Cathode	0.04~2 (max5)	0.8~40 (max300)	3.75~750 (max1250)	25~5000 (max7500)	50~7500 (max10000)
Humidification Method	Bubbler (circulating type)	Circulating bubbler	←	←	←	
Dew Point (°C)	Room+15~95 (OP:150)	←	←	Room+10~80	←	
Gas Temperature (°C)	Room+15~120 (OP:200)	←	←	←	←	
FC Temperature (°C)	Room+15~120 (OP:200)	←	←	←	←	
FC Temperature Control Method	Endplate heater/coolant	Coolant	←	←	←	
Coolant Pressure	(OP)	Automatic	←	←	←	
Back Pressure Control (kPa.G)	0 又は 5~300	←	←	←	←	
Electric Load	600W, 150A, ~150V	~5kW, 1000A, ~150V	12kW, 1000A, 400V	100kW (回生式)	200kW (回生式)	
Cell Voltage Monitoring	1ch	10ch	32ch (OP:800ch)	64ch (OP:800ch)	別途ご相談	
Dimensions (W×D×Hmm)	1250×800×2100	2200×950×2100	1200×2900×2300	1600×3500×2300	別途ご相談	
Safety Features	Hard wiring, nitrogen purge, manual emergency stop, Fuel Cell Cover, dtec.					

## Producing custom evaluation equipment to match the size of your fuel cell.

Enoah has developed and manufactured an inspection and assessment testing station to back up previously achieved deliveries to automotive companies, material manufacturers, and research laboratories.

- All-in-one, compact design
- Excellent stability and compliance (back pressure, flow rate, temperature, dew point)
- Fully automatic, unattended operation
- AC impedance resistance measuring
- Easy to edit test program
- Automatic leak check function device



Please note that the technical specifications for this device, as provided by the manufacturer in Japan, may differ depending on the country in which you plan to use the device. Please consult the relevant documentation or seek expert advice if you have any concerns or questions about using this device in a particular location.