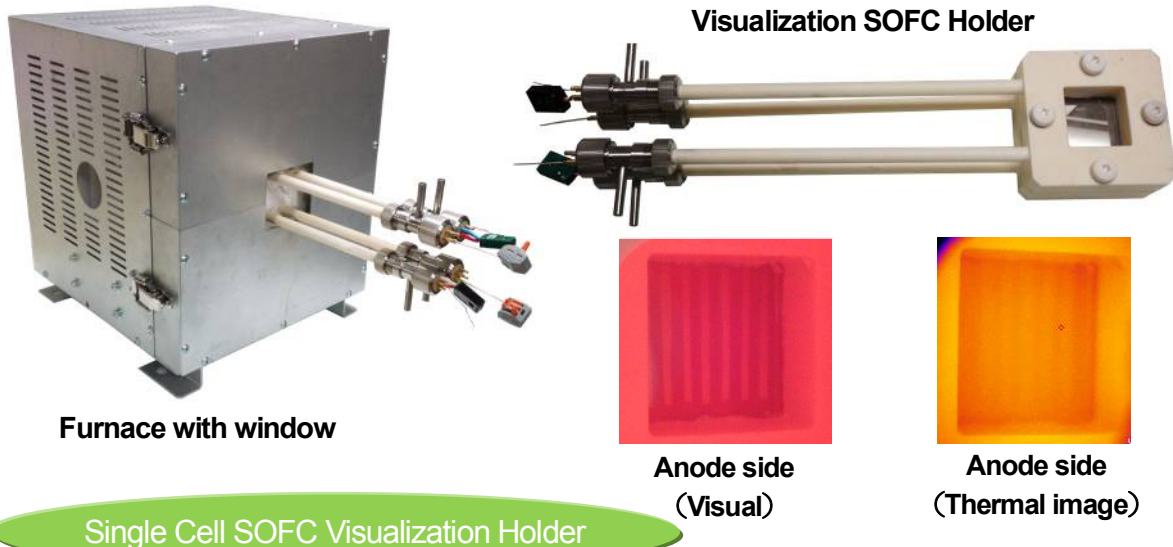


Support cell & gas flow design and degrade investigation !

## New SOFC (Single Cell) **Visualization** Holder (50mm square cell compatible, with furnace)



Single Cell SOFC Visualization Holder

This 50mm square cell SOFC **visualization** holder **visualizes the back side of the cell (anode side) temperature distribution by thermal image, while controlling the environment and current.** Since it is all ceramics, it is suitable for cell performance evaluation without metal pollution. Achieve to keep gas seal by high temperature spring structure while escaping thermal stress. By this cell temperature distribution visualization, it will **contribute to your cell & gas flow design and degrade evaluation.**

### Features

- Window at both electrode reactive areas to monitor them **at cell operation temperature at the same time.** (Camera option).
- Sapphire is used for window glass to achieve **enough sealing at high temperature** which was difficult in the past.
- **No pollution** because everything made by ceramics.
- Gas sealed by high temperature spring structure compression.
- Easy to attach and replace the cell and **easy to install to the furnace.**
- Fully equipped with current, voltage, T/C terminals, gas inlet/outlet.

### Specification

Cell Size	Flat Type 50mm <sup>*A</sup>
Dimensions	W90×D90×H46mm
Window Size	40×40mm
Weight	Approx. 1.7 kg
Max Temp	Max 900 °C
Max Flow rate	Max 2L/min
Connection (Both Sides Common)	Gas Inlet / Outlet φ1/4" Pt Voltage Wire (φ0.5mm) Current wire (One, φ1.5mm) (With exclusive connector attached) R Type Thermocouple (With exclusive connector attached)

<sup>\*A</sup>Contact Chino for other sizes

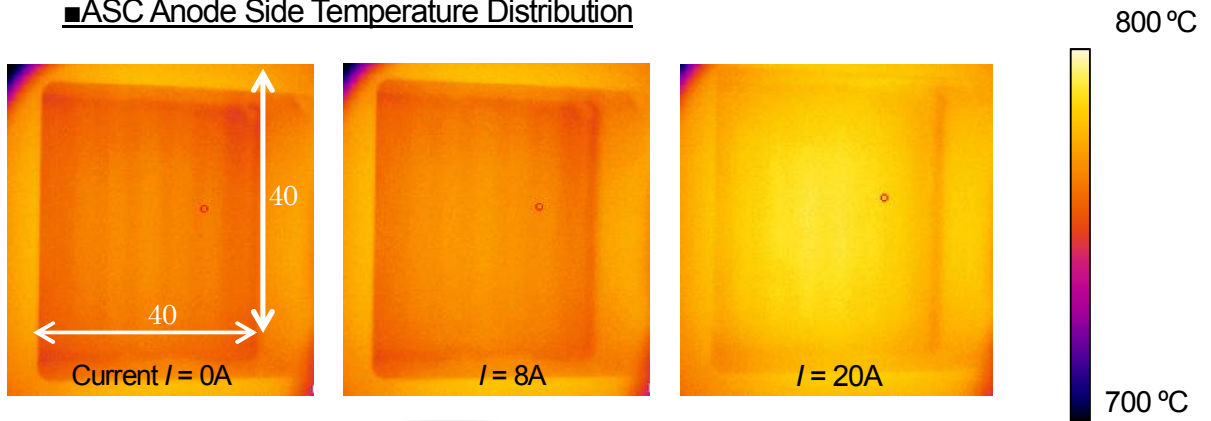
**Furnace**

Specifications

Outer Dimension	W280×H340×D310mm
Inner Dimension	W120×H150×D150mm
Inspection Window	φ45mm (Provisional)
Camera Angle	Approx. 25°(Provisional)
Weight	Approx. 11kg
Temperature	Less than 1000 °C
Heater	Tetrahedral Heater (KANTHAL)
Thermocouple	K Type Thermocouple

**Sample Image (By Thermal Image Camera CPA-RS)**

**■ASC Anode Side Temperature Distribution**



**Recommended Temp. Control Unit : CHINO SY Series**

Specification

Controller	KP1000 Series
Control	Programmable Controller
Device	SSR
Current Out	30A
Power	100V, 200V AC, 50/60Hz (Auto)
Outer Dimension	W131×H273×D268mm ( SSR Model )
Weight	Approx. 4.2 kg



Model : SY2002-00

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