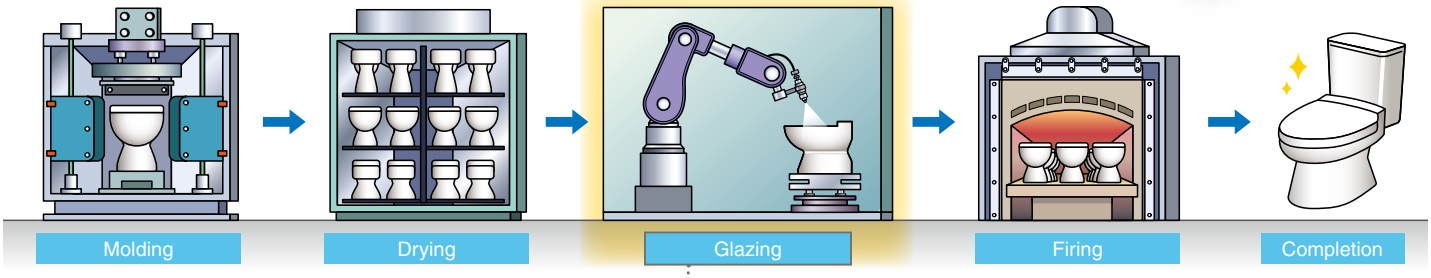
SMC-made chillers can be used in a wide range of applications!

Ceramics Manufacturing

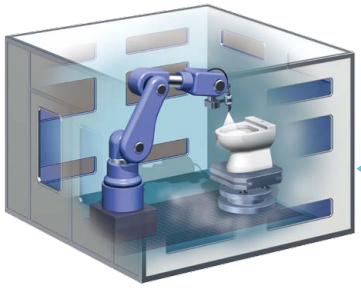
Benefits of glaze temperature control

- Reduces uneven glaze application
- Improves strength due to uniform coating thickness
- Improves glaze color stabilization
- Improves quality by improving yield

Sanitary ceramics manufacturing process



Glaze application



Painting booth

Process Pump

Transfer of glaze to painting machine

Glaze temperature control tank

Thermo-chiller

Control of glaze to constant temperature

Process Pump

Transfer of glaze to temperature control tank

Glaze vessel

What is glazing?

- It is when you apply a glaze (made of wood/straw ash and crushed earth/stones melted with water) to a ceramic's surface.
- The glaze is applied to the ceramic before firing to give it a glassy finish, while also strengthening it and improving stain resistance.

★The glazing process is an indispensable process for ceramics.

＊ Use within the product specification range defined in the catalog, operation manual, etc.
It is the customer's responsibility to determine workpiece and facility compatibility.

Series	Temperature range setting [°C]	Temperature stability	Cooling capacity [kW]														
			1.0	1.2	1.8	2.4	3	4	5	6	9	10	15	20	25	28	30
Standard type **HRS Series** 	0 — 5 to 40°C — 60	±0.1°C		●	●	●	●	●	●	●							
Environmentally resistant type Standard type **HRS-R Series** 	0 — 5 to 40°C — 60	±0.1°C			●		●		●								
Standard type **HRS090 Series** 	0 — 5 to 35°C — 60	±0.5°C									●						
Standard type **HRS100/150 Series** 	0 — 5 to 35°C — 60	±1.0°C										●	●				
Inverter type **HRSH090 Series** 	0 — 5 to 40°C — 60	±0.1°C									●						
Inverter type **HRSH Series** 	0 — 5 to 35°C — 60	±0.1°C										●	●	●	●	●	
Basic type **HRSE Series** 	0 — 10 to 30°C — 60	±2.0°C		● 1.2 kW	● 1.6 kW	● 2.2 kW											
Dual channel refrigerated **HRL Series** 	0 — [CH1] 15 to 25°C — [CH2] 20 to 40°C — 60	CH1 ±0.1°C									●			● 19 kW		● 26 kW	
		CH2 ±0.5°C	●														

Maintenance Network

Providing high-quality services anywhere in the world

Quick, careful response to customers' needs is possible thanks to a solid inventory of maintenance parts and an experienced chiller support team capable of conducting repairs and replacements.

Americas

Brazil/Mexico/
U.S.A.

Europe

Austria/Czech Republic/Denmark/Finland/France/Germany/Hungary/Ireland/
Italy/Latvia/Netherlands/Norway/Poland/Russia/Slovakia/Slovenia/Spain/
Portugal/Sweden/Switzerland/Turkey/U.K.

Asia/Oceania

Australia/China/Hong Kong/India/Indonesia/Japan/
Korea/Malaysia/New Zealand/Philippines/
Singapore/Taiwan/Thailand/Vietnam

∗ The names of countries and regions listed in each area are alphabetically indexed

Circulating Fluid/Glaze-line Components

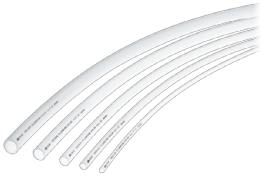
3-Screen Display
High-Precision Digital Pressure Switch
ZSE20C(F)/ISE20C(H) Series

3-Color Display
Digital Flow Switch for Water
PF3W-Z/L Series

Direct Operated/Pilot Operated
2-Port Solenoid Valve
JSX Series

S Couplers
Stainless Steel Type
KKA Series

2-Layer Soft Fluoropolymer Tubing
TQ Series



⚠ Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

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