

# FREEZER 196

## Industrial Freezers

- FREEZER 445
- FREEZER 666

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FREEZER

## FEATURES OF AUTOMATIC TEMPERATURE CONTROL TYPE

- Capable of refrigerating and holding the cooling objects within a range of the constant temperature to  $-70^{\circ}\text{C}$  or  $-190^{\circ}\text{C}$ .
- Both interior and exterior of the freezers are made of stainless steel to ensure durability. Use of high-density foaming polyurethane provides excellent heat insulation.
- Two standard types are available; Type 445(inner size: 40 x 40 x 50 cm) and Type 666(inner size: 60 x 60 x 60 cm).

## SPECIFICATION OF FREEZERS

Type		FREEZER 445	FREEZER 666
Power source		Single phase 100 V AC, 50/60 Hz	
Dimensions	Inside	400 x 400 x 500	600 x 600 x 600
	(WxDxH)(mm) Outside	910 x 600 x 910	1110 x 810 x 1050
Materials	Interior?	SUS-304	
	Exterior	SUS-304	
	Heat insulator / Body	Hard foaming polyurethane	
	Heat insulator / Lid	Filled with styrene particles	
Temperature regulator	Type	NB221 (Chiba Factory)	
	Scale	$-200 \sim +50^{\circ}\text{C}$	
Solenoid valve		ASCO	
Pressure gauge		0 ~ 150kg/cm <sup>2</sup>	
Casters		Φ100 Frubber casters (One direction wheel with stopper)	

### Precautions for Handling the Freezers

- Use gloves to handle the cooling objects.
- Fix the cylinder so that it will not fall down.
- When connecting the cylinder to FREEZER 196, clean and check the conduit joint for foreign substances.
- Use a siphon attached cylinder for liquefied carbonic acid gas.
- Operate(open/close) a cylinder valve safety and securely.

## OVERVIEW OF FREEZERS

FREEZER 196 is designed to quickly refrigerate the cooling objects by using a refrigerant such as liquefied carbon dioxide (L-CO<sub>2</sub>,  $-78^{\circ}\text{C}$ ), liquid nitrogen(L-N<sub>2</sub>,  $-196^{\circ}\text{C}$ ). Use of FREEZER 196 allows sub-zero treatment, cooling fit, low-temperature material test efficiently and economically.

## FEATURES OF FREEZERS

- **Customer Specification**  
Based on the standard specification, FREEZER 196 is designed with the specification meeting the customer's needs.
- **Quick Cooling**  
Capable of quickly cooling from normal temperature to  $-180^{\circ}\text{C}$  in a short time.
- **Automatic Hold of Desired Low Temperature**  
A built-in automatic refrigerant blaster holds your desired low temperature. It allows economical and swift work, considering low-temperature fragility of the cooling objects.
- **Inexpensive Installation Cost**  
Easy installation compared with conventional refrigerators and high area efficiency, allowing installation at about one tenth the conventional cost.
- **Automatically Adjustable Refrigerant**  
The gas(refrigerant) automatically stops when reaching your desired set temperature, and is automatically fed in when the temperature increases, thus saving consumption of the gas(refrigerant).
- **Low Material Failure Rate and High Safety**  
When used in cooling fit work, etc., the Freezer prevents physical damage on the materials and ensures extremely high work safety, compared with other fitting works, thus greatly reducing the cost.
- **High Work Efficiency**  
Easy cooling process hardly requires manpower to provide extremely high work efficiency. FREEZER 196, equipped with a cooling object automatic unloading mechanism, further improves work efficiency.