

## Technical Specification

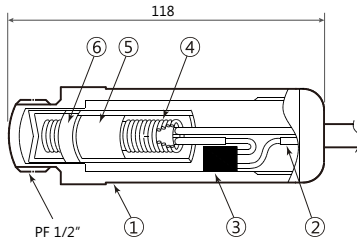
Basic Data	
Applicable temperature	-60(°C)
Switching temperature	20 ~ 60(°C)
Weight	400g
Connection	G1/2"
Cable length	3m
Operating pressure	30bar(max)
Electrical specification	
Rated voltage	230VAC
Rated frequency	50/60 Hz
Power consumption	120W/h
Cross section for connection	VCT 1.5SQ 2P
IP grade	IP×5

**Option** : 115VAC, 24VDC, NPT thread on request

Heater pressure design conditions (not operating conditions) :  
Maximum allowable pressure (bar): 40  
Maximum allowable temperature (°C): 120

## Inside diagram

No	Name	Material
1	Body	Brass(nickel coated)
2	Terminal	Nockel
3	Bi-metal	Shape memory alloy
4	Heating wire	Nichrome wire
5	Insulator	Magnesium oxide
6	Pipe	SUS304



## HEATER

for Ace Drains

ATM C2000-11

## USER'S GUIDE

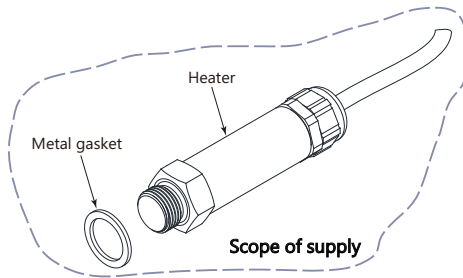
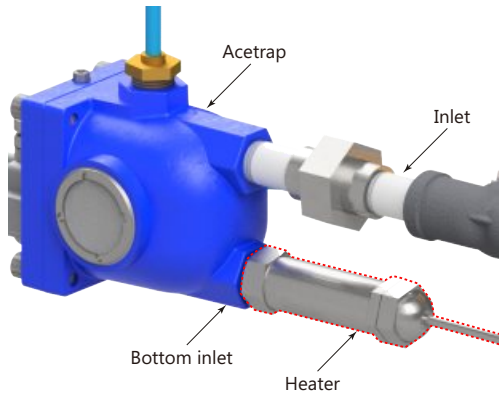
- Be sure to read the user guide before installation and use.
- The product warranty is included in the user guide.



**-This manual is intended to protect users' safety and prevent property damage.-**  
Be sure to read it and use it correctly

- Thank you very much for purchasing this product.
- Please read this manual thoroughly before using the product and keep it in an easy-to-find place.
- In order to fully demonstrate the performance of this product, please observe the operation method and precautions for use.

## Installation



Connect to the inlet at the bottom of the housing using a metal gasket. If the inlet is on the underside of the housing, connect it using an additional "tee" to the inlet.

Do not connect the heater to the upper inlet. Since there is no condensate here, the performance of the heater may be reduced.

Please connect the switch to operate only in the winter season.

### Warning

When the switch is turned on for the first time, the temperature of the heater rises by approximately 80 degrees. After that, the bimetal works and the stable operation is achieved between 20 and 60 degrees. Be careful as it may cause burns if you hold the heater with your bare hands.

### Caution

Be sure to check the rated voltage when connecting the power. The front inlet of the drain may freeze. At this time, the inlet line must be insulated to prevent freezing. The heater must be installed by a qualified electrician and manipulation by unauthorized persons is prohibited. It is recommended for use in earth leakage breaker. The electric heating wire must not be wrapped around the heater body. Do not disassemble the heater.

## Trouble shooting

Problem	Causes	Solutions
Drain is frozen	No Power supply	Turn on the power
	Heater does not work	Contact us
	Heater is damaged or worn out	Contact us
Keeping high temperature	Worn out	Contact us

### Warranty

We are responsible for product defects within 16 months of delivery or less than 12 months from the date of installation. In case of occurrence, the period that occurred earlier is applied to the two periods to prevent defective parts or incorrect production.

We guarantee free replacement of parts for any functional defects that occur. However, at the customer's negligence Defects caused by this are excluded from the warranty.

Manufacturer and after-sales center : Ace Co., Ltd.

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