

INTCARTEC

Circulating water direct heating mat boiler



1. Introduction of circulating water direct heating boiler



Advantages of circulating water direct heating boiler

- **POINT 01 The world's first electronic separate heating**
The world's first electronic separation heating technology controls the left/right temperature of the mat by 1 degree adjustment (up or down by 1 degree) Provides optimal sleep temperature for different users and improves sleep quality.
- **POINT 02 Circulating water direct heating method**
Heating circulating water ONLY offers to reach the set temperature within 10 MINUTES. Innovative approach that makes a quick heating, 95% more energy efficiency, and the higher accurate temperature control than others.
- **POINT 03 World's lowest noise design**
The system architecture allows blocking noises from the motor and other minor noises offering consumers a better sleep at night without any disruptive noises.
- **POINT 04 Long Life Water System**
The motor is designed to be located under the water tank and the circulating water direct heating method is applied. One can use the system for 3 months without adding the water once replenishment of the water, thanks to the architecture.
- **POINT 05 9-stage safety device**
Consumer safety and environmental reliability are the fundamentals of our technology, which allows the consumer to trust and passing all the compliance tests.

1. Introduction of circulating water direct heating boiler **INTERTEC**

A.O. SMITH
史密斯



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✓ Model for Chinese OEM

✓ Domestic OEM Production Models

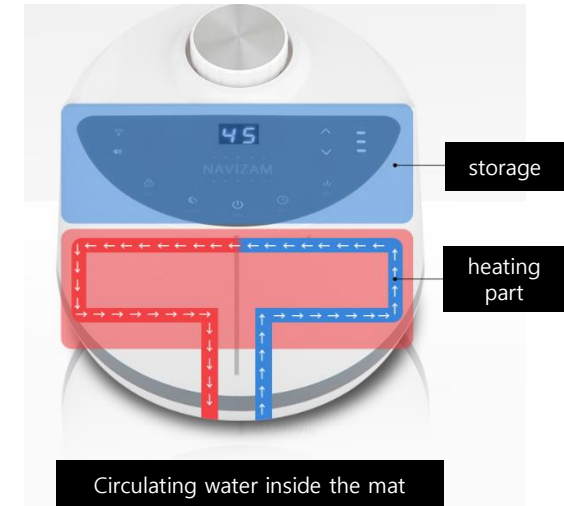
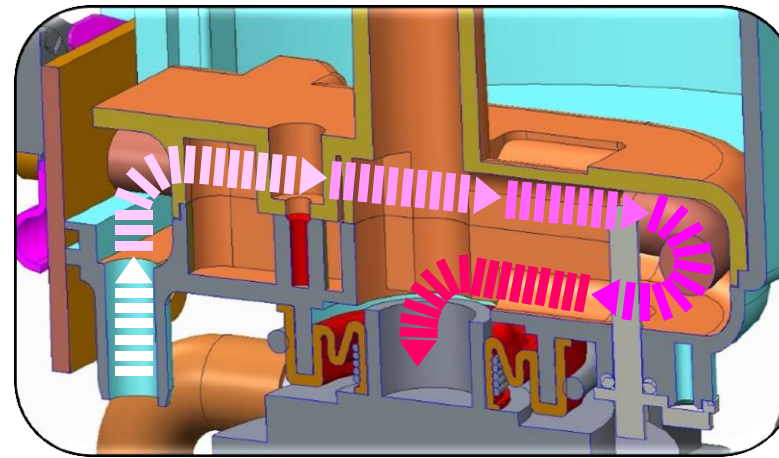
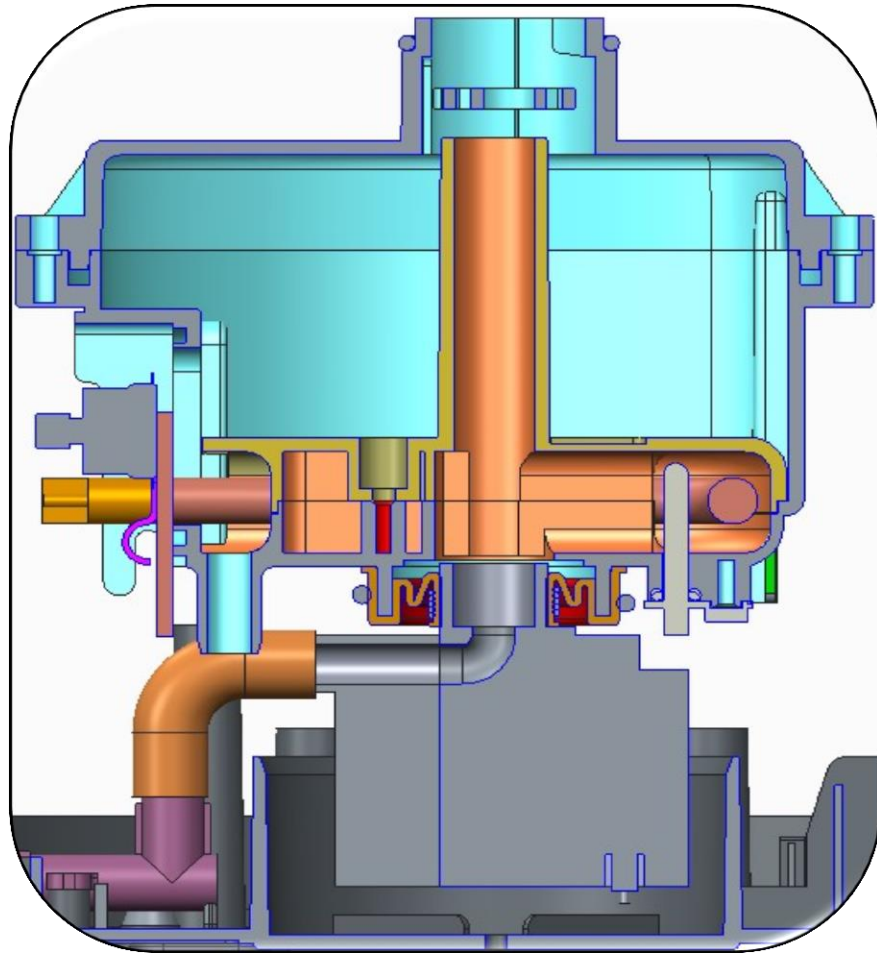
✓ NAVIZAM Model

1. Introduction of circulating water direct heating boiler **INTERTEC**



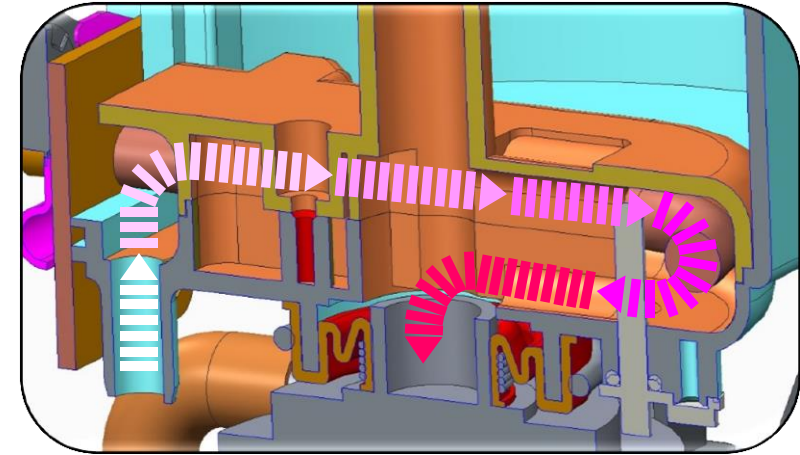
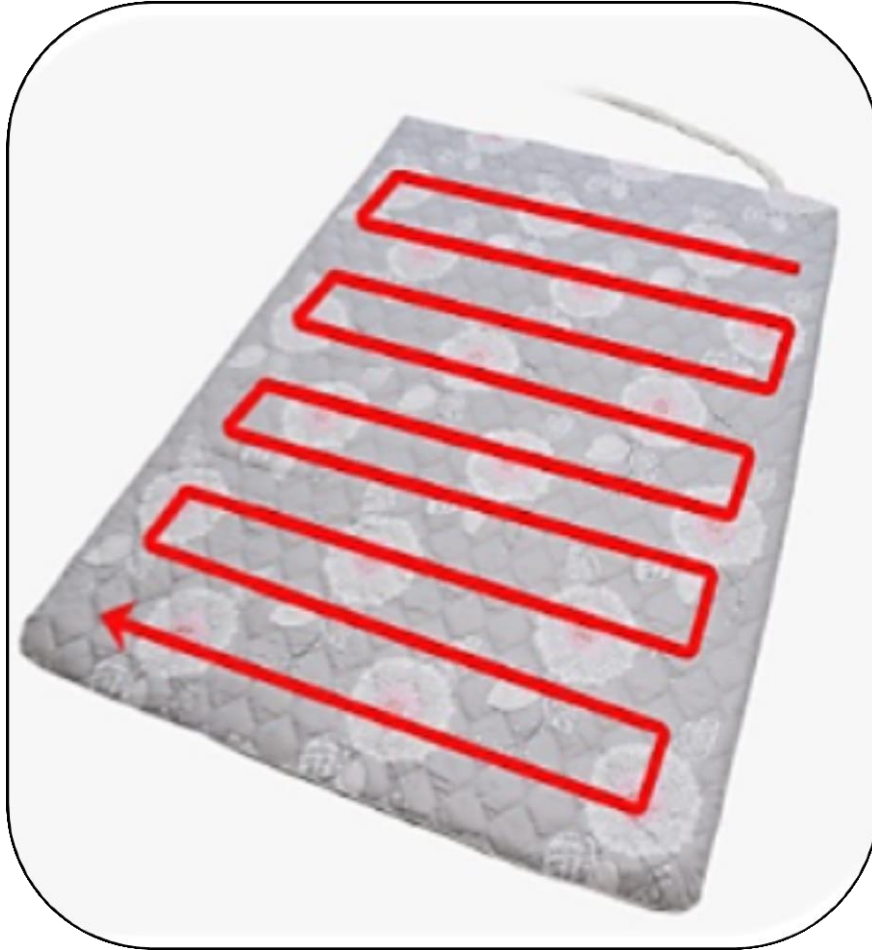
- ✓ Color can be determined as an option
- ✓ The default color is white, and if you choose other colors, a painting fee will be added.

2. [POINT 01] Energy efficiency more than 95%



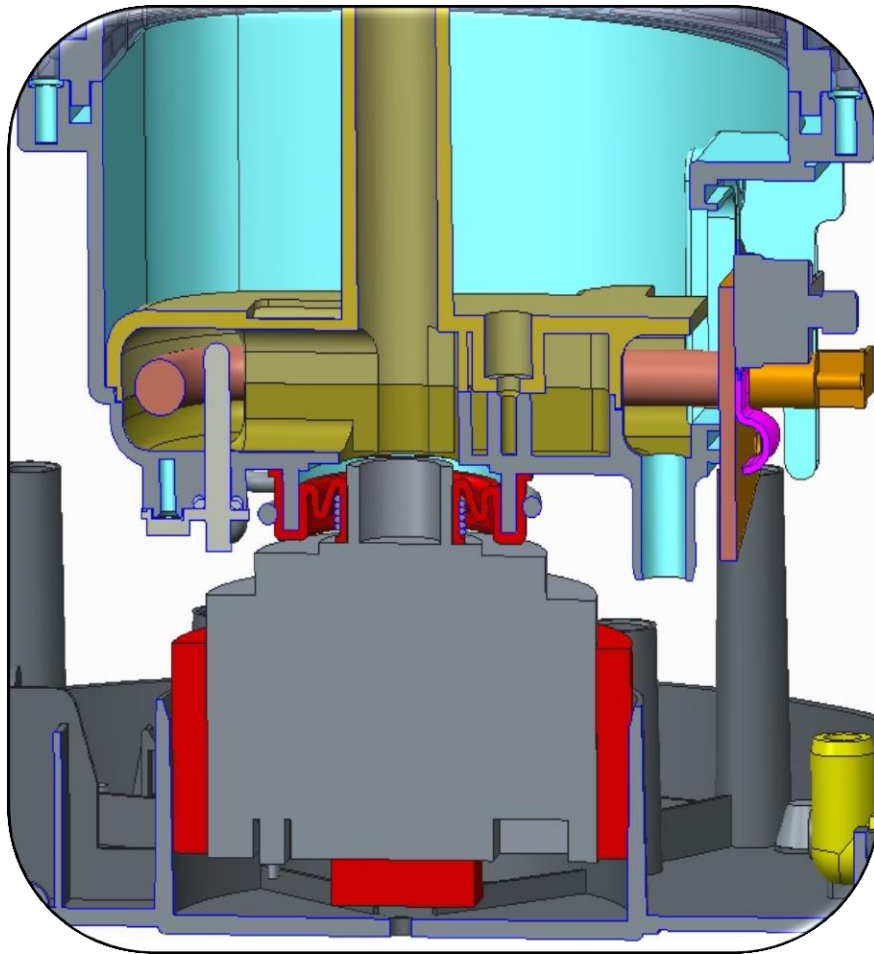
- ✓ Maximized energy efficiency with tank-separated circulating water direct heating method.
- ✓ A temperature sensor is placed in the circulation channel to control the water outlet temperature is controlled by $\pm 1^\circ\text{C}$ adjustment.
- ✓ Patent Pending Technology.

2. [POINT 02] Quick mat temperature rise



- ✓ Heating circulating water only to reach the maximum temperature within 10 minutes.
- ✓ High-performance BL/DC motor speeds up the flow rate and quickly increases the mat temperature.
- ✓ Rapid mat temperature rise with quick start algorithm.

2. [POINT 03] Achieving the world's lowest noise

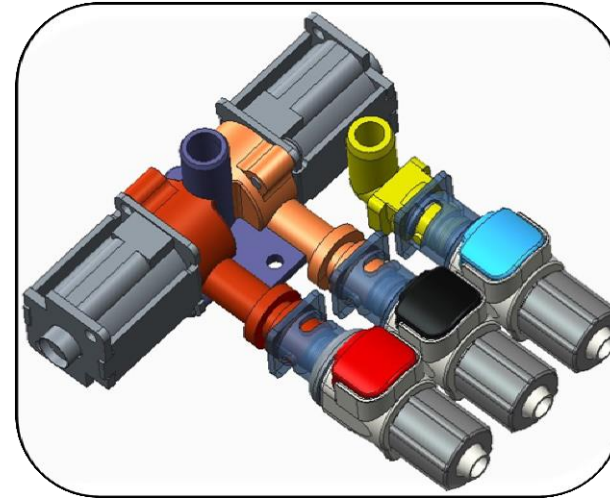
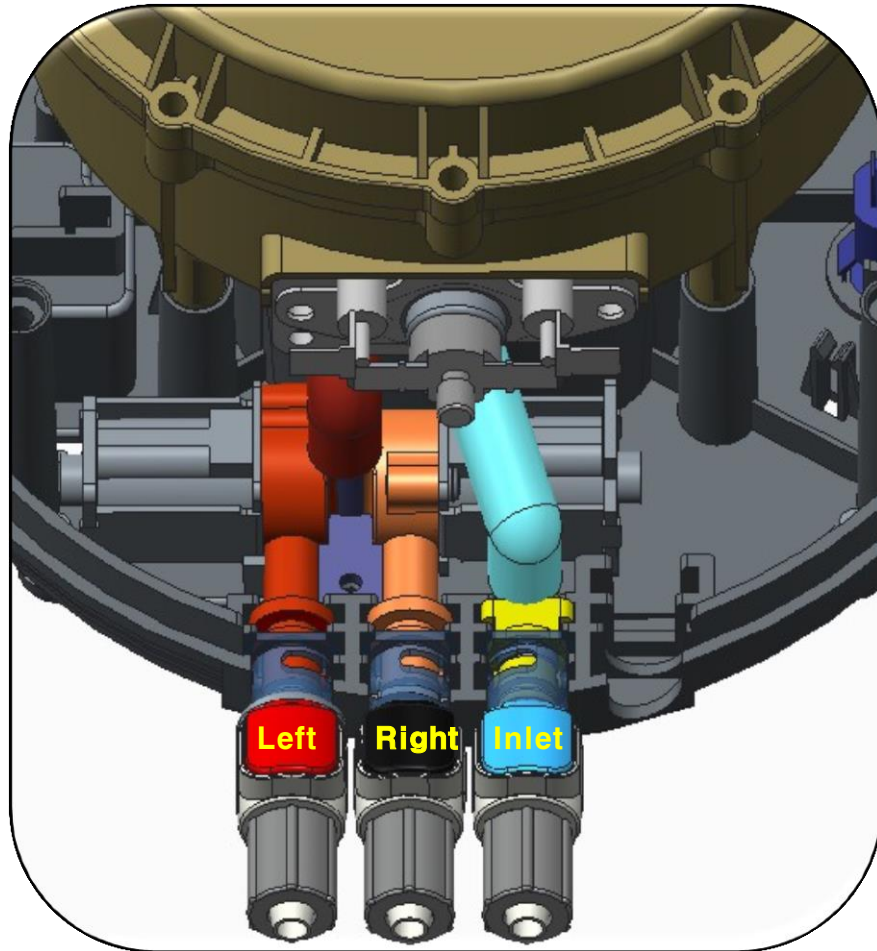


Joint development of a motor company
Low noise/low vibration
BLDC advanced motor application



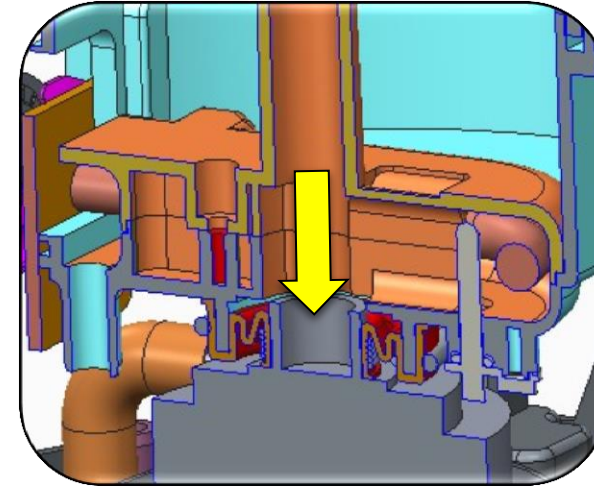
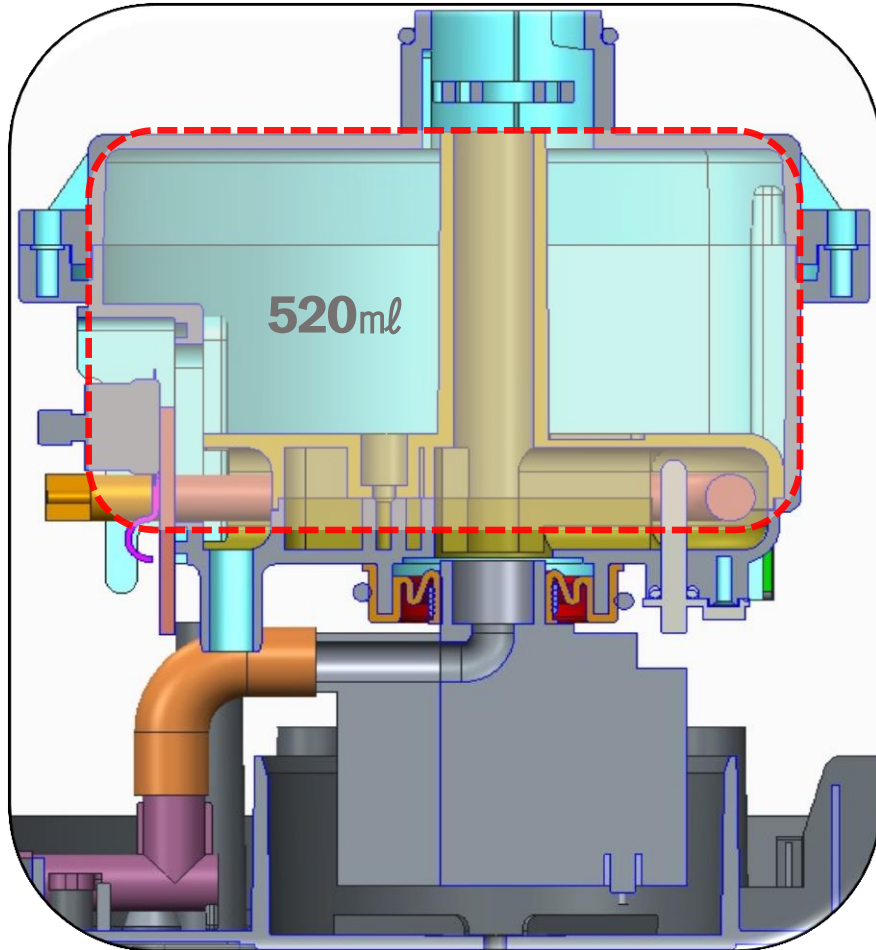
- ✓ Achieved the world's lowest noise 24dB
- ✓ Vibration is blocked by applying a vibration isolation system to the entire pump motor
- ✓ Designed to minimize noise with central arrangement of pump motors
- ✓ Low noise, high reliability BL/DC motor applied
- ✓ Patent Pending Technology.

2. [POINT 04] Electronic separate heating



- ✓ World's first electronic type left/right separate heating
- ✓ With only 1 water tank heater, adjust the left/right temperature of the mat by 1°C.
- ✓ Separated heating exclusive valve development

2. [POINT 05] Long Life Water System



- ✓ The water tank is designed with a large capacity of 520ml and can be used for more than 3 months.
- ✓ Design of a water outlet at the bottom of the water tank.
- ✓ The circulating water flow path is in the form of a cover type to minimize evaporation.
- ✓ Horizontal layout of heater makes 100% use of the water in the tank.

2. [POINT 06/07] Safety device/One-touch quick coupler



Overcurrent blocking fuse



Cutoff thermal fuse



Overheating blocking fuse



Hot water temperature sensor



Self check



Water shortage detector



Timer (for 12hours)



Freeze protection



Lock mode function



Tip-over switch

POINT 07 One-touch quick coupler

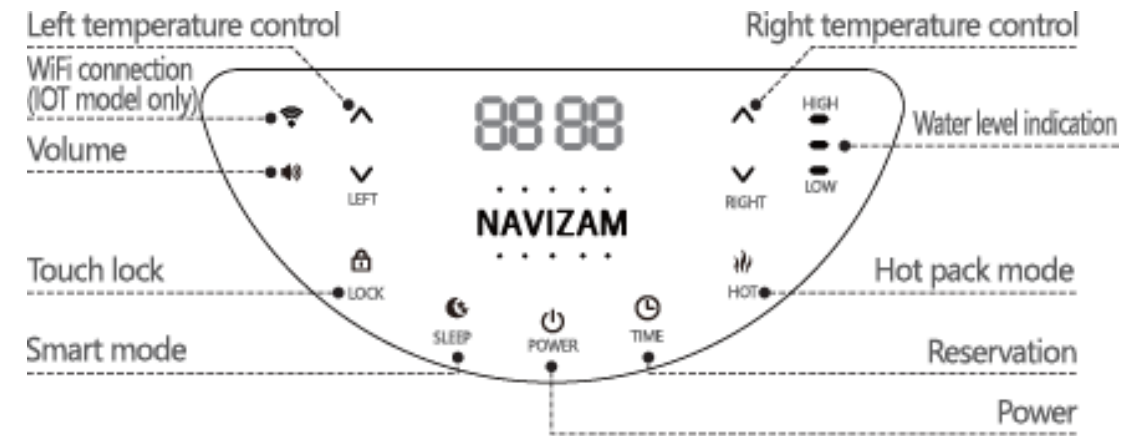
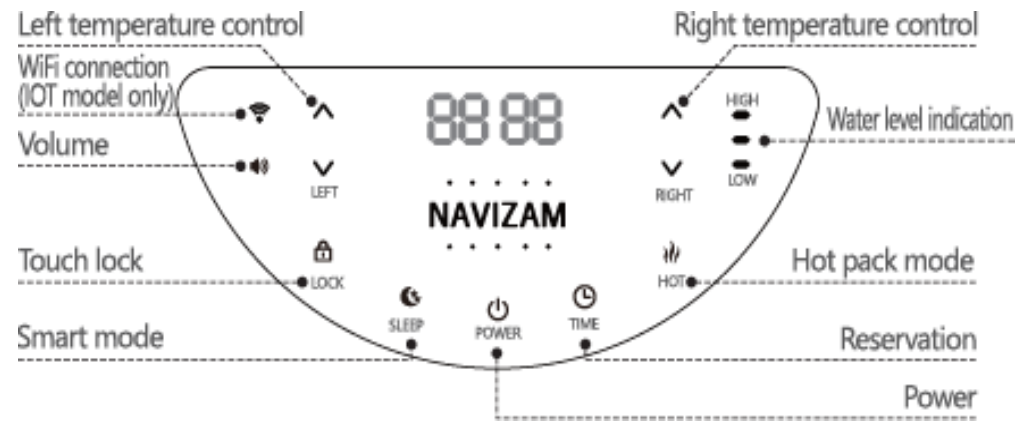


One-touch quick coupler



Easy-to-remove connector

2. [POINT 08] TOUCH DISPLAY



3. MAIN FUNCTIONS

Function	Function Display Description
Power	<ul style="list-style-type: none"> ▪ Power ON/OFF, Motion ON/OFF
water level display	<ul style="list-style-type: none"> ▪ 3-level LED indication ▪ 1Stage 1:180cc, Stage 2: 350cc, Stage 3: 520cc
temperature setting	<ul style="list-style-type: none"> ▪ TOUCH Type (25°C~60°C Setting)
Display	<ul style="list-style-type: none"> ▪ Set temperature (88FND) ▪ Power, operation ON.OFF (88FND, water level LED) ▪ Reserved (LED, 88FND) ▪ Water level indicator (LED) ▪ LED dimming (actuated after 3 minutes of operation)
Voice guidance	<ul style="list-style-type: none"> ▪ Voice guidance for all functions (4 level volume control)
Reservation	<ul style="list-style-type: none"> ▪ 9, 6, 3 hours reservation (automatic 12 hours operation if not set)
Sleep	<ul style="list-style-type: none"> ▪ Set the hot water temperature to 37 degrees
Hot pack mode	<ul style="list-style-type: none"> ▪ 2 hours operation at maximum temperature
KEY Switch	<ul style="list-style-type: none"> ▪ TOUCH SWITCH (all functions)
Separate heating	<ul style="list-style-type: none"> ▪ Set the left and right temperature differently (limited to the separate heating model)

4. PRODUCT SPECIFICATIONS

Product Specifications	Cushion pad model No.	IBM-410, IBM-415, IBM-415D			
	Slim pad model No.	IBM-410G, IBM-415G, IBM-415DG			
	Power Consumption	300W (AC220V, 50/60Hz)			
	Water tank Capacity	0.5L max			
	Heating unit(Boiler) size	(W)20cm x (L)25cm x (H)16cm			
	Heating unit weight	1.5kg			
	Pad size	410 Single heating	415 Queen heating	415D Queen separate heating	
		2,000mm x 1,000mm	2,000m x 1,450m	2,000m x 1,450m	
Pad weight	2.3kg	3.2kg	3.2kg		
Hose size	Inner 5.5mm x Outer 8mm				
Component	Heating unit (Boiler), Mattress Pad, User manual, Residual water removal kit Optional : Quick guide, Pad cover, Pump				

5. PATENT AND CERTIFICATION

