



SONHA INTERNATIONAL CORPORATION

🏠 | No 2 Thanh Lam, Tu Liem Industrial Zone, Minh Khai Ward, Bac Tu Liem Dist., Hanoi, Vietnam
☎ | +84 24 62 65 65 66 | Ext: 1215
✉ | export@sonha.com.vn
🌐 | www.sonha.com.vn

SONHA ELECTRIC WATER HEATER

INTRODUCTION

“ SonHa Group is proud of being a Vietnamese Leading Multidisciplinary business which manufactures and distributes household and industrial products, exploits, processes water treatment and supplies clean water, develops clean energy

Being established in 1998, SonHa Group has consolidated Vietnamese market leadership and exported its products to more than 30 countries in the world. SonHa Group's Products are manufactured following the highest quality standards according to the globally recognized ISO 9001:2015. Besides, SonHa is recognized as National Brand and the unique Vietnamese company being certified to PED standards by TUV (German)

SonHa Group now has 9 factories in Vietnam and 1 factory in Myanmar with total area over 250.000 m2. All factories are received investment to operate in large scale, advanced technology that meet the production and business requirement. SonHa Group now becomes the ideal partner for both end users and professionals in not only Vietnam but many countries in the world as well.



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ELECTRIC WATER HEATER

ECO MODEL

FEATURES



- ✔ Two single protection relays for double safety.
- ✔ Enamel coating inner tank for the warranty of 8 years.
- ✔ ELCB anti-electric shock protection for absolute safety.
- ✔ Heating element made of stainless INOX 316L - highly resistant to corrosion even in high temperature conditions.
- ✔ High pressure-resistant safety valve.
- ✔ Compact and delicate design.



SPECIFICATIONS

ECO MODEL

SLIM TYPE				SQUARE TYPE			
MODEL		ECO15N	ECO20N	ECO30N	ECO15V	ECO20V	ECO30V
Capacity (L)		15L	20L	30L	15L	20L	30L
Product Size (mm)	Length	603	690	730	440	440	505
	Width	340	350	380	435	435	505
	Thickness	355	375	410	410	450	430
Weight (Kg)		9	11.5	14	9	10	12
Power (W)		1500W	2500W	2500W	2500W	2500W	1500W
Voltage/Frequency (V/Hz)		220V/50Hz					
Inner Tank		Steel + Enamel Coating					
Max Rated Pressure (Mpa)		0.75 (7.5 bar)					
Signal Light		Red Light: Heating Green Light: Warming					
Heating Element		S/S 316					
Thermostat		02 single relays					
Pressure Safety Valve		Yes					
ELCB		Yes					
Plug Type		2 pins					
Installation		On wall					
Water Proof Degree		Water-proof standard					

ELECTRIC WATER HEATER

OCEAN MODEL

FEATURES

- ✓

ITALIAN DESIGN

Luxury, modern, smart, elegant.
- ✓

QUICK HEATING, ENERGY SAVING

Using 316L super-durable heating element, with super-fast heating, more energy-saving.
- ✓

LONG HEAT KEEP

Thick layer of Polyurethane (PU) insulation keeps heat for a long time.



- ✓

SAFE TO USE

Built-in anti-electric shock safety control system according to European standards (ELCB), automatically cut off when the electricity current is greater than or equal to 30mA , cut off when having leakage accident time < 0.32 ms.
- ✓

HIGH DURABILITY, HIGH-QUALITY MATERIAL

Using high-grade material for inner tank, designed to withstand high pressure.
- ✓

ANTI-CORROSION MAGNESIUM ROD

European technology magnesium rod, anti-residue and reducing tank corrosion.
- ✓

TITANIUM ENAMELED INNER TANK, ECO-FRIENDLY

Increase the resistance of inner tank at high temperatures and pressures; prevent peeling; anti-corrosion for all water sources which ensure the maximum durability for the product.

Especially, This eco-friendly Titanium enamel coating also helps to keep heat in the inner tank longer, prevent electricity leakage, improve water quality and safe for users.

✓

WARRANTY

8 YEARS



SPECIFICATIONS

OCEAN MODEL

		SLIM TYPE			SQUARE TYPE		
MODEL		OCE15N	OCE20N	OCE30N	OCE15V	OCE20V	OCE30V
Capacity (L)		15L	20L	30L	15L	20L	30L
Product Size (mm)	Length	603	690	730	440	440	505
	Width	340	350	380	435	435	505
	Thickness	355	375	410	410	450	430
Weight (Kg)		9	11.5	14	9	10	12
Power (W)		2500W					
Voltage/Frequency (V/Hz)		220V/50Hz					
Inner Tank		Steel + Enamel Coating					
Max Rated Pressure (Mpa)		0.75 (7.5 bar)					
Signal Light		Red Light: Heating Green Light: Warming					
Heating Element		S/S 316					
Thermostat		02 single relays					
Pressure Safety Valve		Yes					
ELCB		Yes					
Plug Type		2 pins					
Installation		On wall					
Water-Proof Standard		IPX1					

ELECTRIC WATER HEATER

DARIA DIGITAL MODEL

SONHA DARIA DIGITAL electric water heater has a meticulous design to every detail that brings elegance, luxury to the product and convenience to modern life.

HIGHLIGHT FEATURES

OF SONHA DARIA DIGITAL ELECTRIC WATER HEATER

- ✔ **DIGITAL TEMPERATURE DISPLAY**
Display water temperature inside so that user can easily see and adjust temperature to suit with their demand.

✔ **ELCB ANTI-ELECTRIC SHOCK SYSTEM FOR ABSOLUTE SAFETY**
This system cut off the power automatically when it detects any electricity leakage current to the ground.

✔ **LONG HEAT KEEP**
With a thick Polyurethane insulation (PU) density according to international standards (American standards) helps prevent heat loss well.

✔ **ELEGANT DESIGN**
DARIA electric water heater has harmonious and delicate design following Italian style, that bring elegance, luxury and convenience to life.

✔ **SAFETY VALVE TO ANTI-HIGH PRESSURE**
Ensure the pressure in the tank does not exceed the allowed pressure, protect product lifespan and bring safety to users.

✔ **DOUBLE THERMAL PROTECTION**

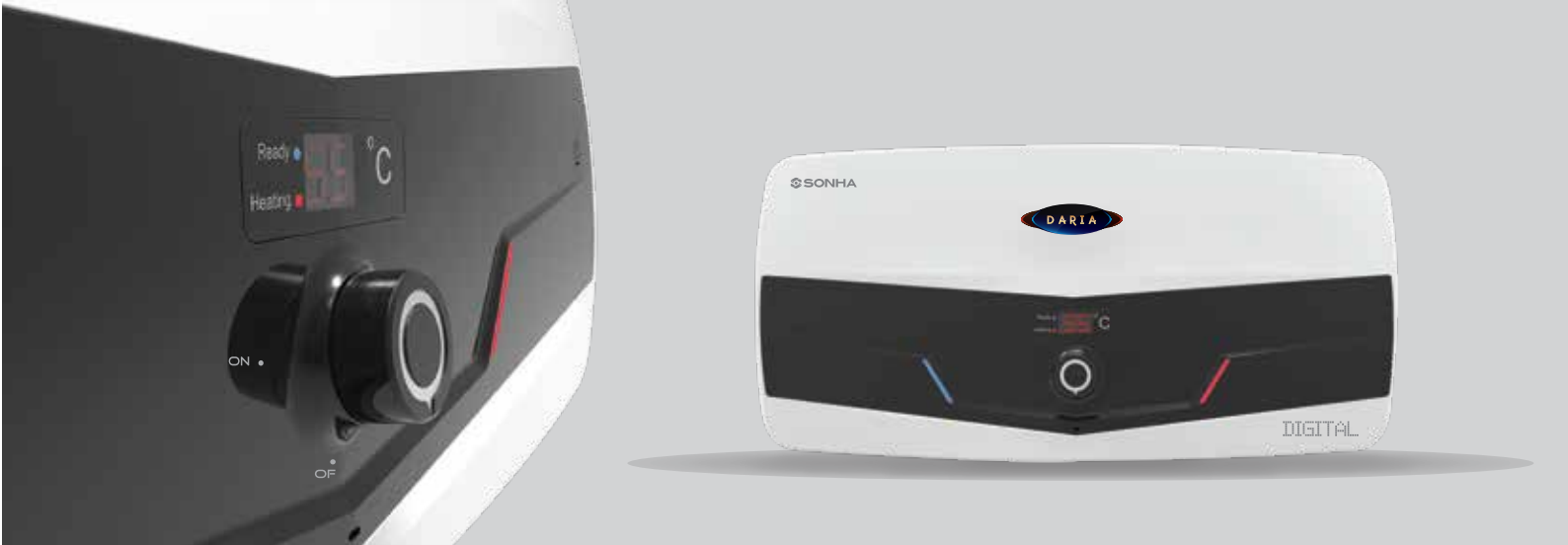
 - ✔ Auto switch off when reaching the set temperature
 - ✔ Safety cut-off mode when overheating
 - ✔ Help improve the safety for users
- ✔ **ANTI-CORROSION MAGNESIUM ROD**
European standard magnesium to prevent residues and reduce corrosion of the inner tank, heating elements, which helps to increase inner tank life span.

✔ **STANDARDS INTERNATIONAL WATER RESISTANT**
DARIA electric water heater has IPX1 waterproof standard, which can protect the internal spare parts. Ensure user safety in damp bathroom condition.

✔ **SUPERIOR TECHNOLOGY**

 - ✔ Single weld seam technology helps the product to increase its aesthetics, and minimize water leakage in the inner tank.
 - ✔ Inner tank go through 2 stages of leakage testing before coming to the market.
- WARRANTY**

10 YEARS



SPECIFICATIONS

DARIA DIGITAL MODEL

SLIM TYPE			SQUARE TYPE			
MODEL		DAR20N	DAR30N	DAR15V	DAR20V	DAR30V
Capacity (L)		20L	30L	15L	20L	30L
Product Size (mm)	Length	620	670	388	388	456
	Width	307	350	418	418	488
	Thickness	319	360	330	368	378
Weight (Kg)		11.5	14	9	10	12
Power (W)		2500W	2500W	2500W	2500W	1500W
Voltage/Frequency (V/Hz)		220V - 50/60Hz				
Inner Tank		Steel + Enamel Coating				
Max Rated Pressure (Mpa)		0.75 (7.5 bar)				
Maximum Water Temperature		78°C				
Heating Element		Incoloy 840 with enamel coating				
Thermostat		02 single relays				
Thermal Insulation		PolyUrethane				
High pressure protection valve		0.8MPa				
ELCB		Yes				
Standard		QCVN 4:2009 BKHCN & amendment no. 1:2016				

ELECTRIC WATER HEATER

SMART WIFI MODEL

FEATURES

- ✓ REMOTE CONTROL BY SMART WIFI TECHNOLOGY
- ✓ HEATING BASED ON SET TEMPERATURE
- ✓ ON/OFF FEATURES BY APPLICATION, WITH AUTO TIMER
- ✓ INTELLIGENT CONTROL PANEL CAN BE INTEGRATED WITH TWO OTHER SWITCHES SUCH AS LIGHT, BATHROOM HOOD
- ✓ ERROR WARNING FOR USERS



OUR SMART WIFI WATER HEATER HAS ADVANTAGES IN THE MARKET BECAUSE WE UNDERSTAND OUR USERS

- ✓ Turn on/off and adjust temperature using mobile application and wall mount control panel.
- ✓ Notify users when it's time to replace the magnesium rod (*) and have periodic maintenance via the phone application.
- ✓ Detect dry heating (heating when there is no water inside) and will cut off electricity to the water heater, then automatically report to user via the control panel and the phone application.
- ✓ Heating element error warning when abnormal heating is detected.
- ✓ Integrated control switch for two other loads: make use of the old bathroom control panel to install a new one without drilling any other hole on wall.
- ✓ Set time for on and off status of the water heater and two loads.
- ✓ Report power consumption, on-off time by week, by month.
- ✓ Child safety lock function.
- ✓ Context settings according to user demand.

(*) The magnesium rod in water heater has the function of protecting slits, area that are not fully covered by enamel in the inner tank, preventing the process of rusting at the slit, therefore the magnesium rod helps to protect the inner tank from having damage.



- ✓ Trendy black and red control panel, making your home more classy and elegance.
- ✓ 3mm tempered glass panel with touch keys.
- ✓ Wireless connection to the water heater via wifi, make it easy for replacement and installation.
- ✓ Display temperature parameters by 7 -bar Led screen.
- ✓ Warning by buzzer and displaying on 7-bar Led screen when having any problems (temperature sensor error, heating element error, water level error, wifi connection error, ...).
- ✓ Support 2 more switches on the control panel (bathroom hood, lights, ...).
- ✓ Easy remote control through a Smartphone.
- ✓ Hot water available when you get home.

SPECIFICATIONS

SMART WIFI MODEL

MODEL	SLIM TYPE		SQUARE TYPE		
	DAR15NWF	DAR20NWF	DAR15VWF	DAR20VWF	DAR30VWF
Rated capacity (L)	15L	20L	15L	20L	30L
Rated power (W)	2500 1500	2500	2500	2500	2500 1500
External dimensions (mm)	603 x 340 x 355	690 x 350 x 375	440x 435x 450	505x 505x 430	440x 435x 410
Net weight (kg)	9	11.5	10	12	9
Rated voltage (V/Hz)	220V/50Hz				
Maximum pressure of inner tank (Mpa)	0.8				
Installation method	Wall hanging				

The capacity of the heating element is different depending on the model

ELECTRIC WATER HEATER

INSTANT WATER HEATER MODEL

SON HA INSTANT WATER HEATER has many features to ensure user safety, providing hot water extremely fast with high-efficiency heating element, minimizing power consumption and saving costs. Superior direct water heating technology, heating water to 55°C in just 10 seconds.

HIGHLIGHT FEATURES OF SONHA INSTANT WATER HEATER

- ✔

SAFE TO USE
Electric shock intergrated with ELCB inside, protected by a waterproof cover, which make it absolutely safe when using electricity directly.
- ✔

**OVER-HEATING PREVENTION SYSTEM USING INTELLI-
GENT ALGORITHM AND MECHANICAL STRUCTURE**
Make sure the temperature cannot exceed the safe temperature.
- ✔

**STOP THE OPERATION OF THE WATER HEATER WHEN
THERE IS NO WATER FLOWING IN**
Ensure to cut off electricity when detecting dry heating using flow sensor at the Flow valve.
- ✔

**CUT OFF BOTH PHASES OF ELECTRICITY WHEN THERE
IS ANY ACCIDENTS**
Equipped with 2 high-power capacity relays, they will cut off both hot and cold phases of the power source at the same time even when these two phases was installed in reverse, therefore ensure safety for users.
- ✔

**INDIRECT HEATING TECHNOLOGY
(LATEST TECHNOLOGY IN VIETNAM)**
 - ✔ Anticorrosion
 - ✔ Anti-fouling
 - ✔ Safe when electricity is not in direct contact with water
 - ✔ Ensure Safety when the heating element has problem



SPECIFICATIONS

INSTANT WATER HEATER MODEL

MODEL		SH-1051	SH-1061	SH-1031	SH-1041
With/Without Pump		With pump	Without pump	With pump	Without pump
Digital water temperature display		Led light	Led light	No	No
Knob		Encoder	Encoder	Potentiometer	Without pump
Signal light		Yes	Yes	Yes	Yes
Heating part		Heating plate	Heating plate	Inox tank	Inox tank
Control Buttons		Touch buttons	Touch buttons	Touch buttons	Touch buttons
Product size (mm)	Length	344	344	332	332
	Width	230	230	219	219
	Thickness	82.5	82.5	97.5	97.5
Weight (kg)		2.3	2.1	1.8	1.6
Power (W)		4500W			
Voltage/Frequency (V/Hz)		220V – 50/60Hz			
Max rated pressure (Mpa)		0.6 Mpa			
Thermostat		Automatic two-phase relay			
ELCB		ELCB intergrated to the electrical circuit			
Water temperature sensor		Yes			
Water flow sensor		Yes			
Water-proof standard		IPX4			
Accessories	Shower head	Chrome plated plastic shower head, 3 water mode		White plastic shower head, 3 water mode	
	Hose	Chrome plated plastic shower head, 3 water mode		White plastic shower head, 3 water mode	
	Shower bar	Shine inox: 48cm long		Shine inox: 48cm long	
	Inlet pipe	40 cm long		40 cm long	



ELECTRIC WATER HEATER

LARGE CAPACITY MODEL

Perfect solution for large apartment, hotel, spa...
Meet high demand for hot water .



HIGHLIGHT FEATURES

OF SONHA LARGE CAPACITY WATER HEATER

- ✔ **LARGE CAPACITY**
Large capacity up to 100L suitable for spa centers, gyms, saunas...
- ✔ **POWER SAVING**
Heating element made of Incoloy 840, copper and stainless steel 316 are super durable, fast heating.
- ✔ **SAFE TO USE**
The electric shock protection system integrated with ELCB will cut off the power supply when there is a leakage current bigger than 30mA.
Thermostat and thermal cut off system: adjust temperature, prevent over-heating and dry heating.
- ✔ **LUXURY DESIGN**
Elegant colors, friendly design for users.
- ✔ **DURABLE THROUGH TIME**
High density Polyurethane (PU) insulation layer, will keep heat for a long time, and prevent temperature loss.



SPECIFICATIONS

LARGE CAPACITY MODEL

MODEL	DTL-1110	DTL-1120	DTL-1130
Capacity (L)	50L	80L	100L
Product dimensions	460x440x735mm	515x515x795mm	515x515x935mm
Voltage (V)	250V		
Power capacity (W)	2.500 – 1.200W		
Maximum temperature	78°C		
Inner tank	Fe + enameled		
Pressure resistant	Mpa: 0,75 (7,5bar)		