HEL

ENRICHING YOUR LIFE

SOLAR WATER HEATER

A Hindustan Energy Product

INDIA'S TRUSTED BRAND

HEL

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Hindustan Energy founded in 1998, not only formulated a comprehensive development plan, defined the high demand, high-quality product standards, contributed itself in leading a enterprise standard of the same trade or occupation, reached a national standards in the management system in integration, but also greatly improved the product performance since the very beginning of foundation, these indicate HEL can proceed to provide the customers expectations and satisfaction with the high-quality products.

Our company will keep on exploring overseas markets, creating a foreign production base designedly; making energy saving environmental protection bigger and stronger. Meanwhile, we will actively develop cutting-edge green products; integrating solar, energy-efficient and building design; constructing a major solar-energy, full-featured, comfortable, environmentally sustainable living environment. HEL leaves that this sunrise industry is certain to enter the glory in 21st century and make an important contribution to the living environment of the whole mankind.

There is no better choice than H E L.

Non-Pressure Solar Water Heater

DGX

Technical Data

- Inner tank: Stainless steel SUS304-2B, Thickness>0.41mm
- Outer tank: Stainless steel SUS430, Thickness>0.4mm
- Vacuum tube: Three layer Cu coated 58*1800mm
- Frame: Aluminum/Stainless steel/GI
- Tank diameter: 460mm
- The material of insulation: 50mm high density polyurethane
- Frame angle: 27 degree
- Heat preservation: 48-72 hours
- Cleaning provision: optional
- Mg anode: optional
- Electrical heating Coil: optional

Features

This type uses the all-glass evacuated solar collector tubes as the heat-absorbing element. The high vacuum degree of the clearance between the outer and inner tube reduces the heat emission which is caused by convection and conduction. The layer films (coating) of the all-glass evacuated tubes transfer the sun energy into heat energy. The high absorption and low emittance rate of HEL layer film is unique.

Using thermosiphon system-Depending on the different density between hot water and cold water, a water flowing cycle is created in the tubes. Hot water flows automatically upwards while the cold water flows down. The water in the storage tank will be heated from the natural circulation.

PARAMETER TABLE

Model	Solar vacuum Tube		Capacity of water tank Lit	Area sq.m	Bath
	Qty	size/mm			People/day
DGX-R	10	58*1800	100	0.94	2-3
DGX-S	15	58*1800	150	1.13	3-4
DGX-T	20	58*1800	200	1.89	4-5
DGX-U	30	58*1800	300	2.83	5-6
DGX-V	50	58*1800	500	3.95	7-8

DGL

Technical Data

- Inner tank: Stainless steel SUS304-2B, Thickness>0.41mm
- Outer tank: Stainless steel SUS430, Thickness>0.4mm
- Assistant tank for automatic water loading
- Vacuum tube: Three layer coated 58*1800mm
- Frame: Aluminum/Stainless steel/GI
- Tank diameter: 460mm
- The material of insulation: 50mm high density polyurethane
- Frame angle: 27 degree
- Heat preservation: 48-72 hours
- Cleaning provision: optional
- Mg anode: optional.
- Electrical heating Coil: optional

Features

This type uses the all-glass evacuated solar collector tubes as the heat-absorbing element. The high vacuum degree of the clearance between the outer and inner tube reduces the heat emission which is caused by convection and conduction. The layer films (coating) of the all-glass evacuated tubes transfer the sun energy into heat energy. The high absorption and low emittance rate of HEL layer film is unique.

Auxillary tank removes the need for an air pipe in the system which makes it easier for installation and improves the aesthetics of the system. Using thermosiphon system-Depending on the different density between hot water and cold water, a water flowing cycle is created in the tubes. Hot water flows automatically upwards while the cold water flows down. The water in the storage tank will be heated from the natural circulation

PARAMETER TABLE

Model	Solar vacuum Tube		Capacity of water tank Lit	Area sq.m	Bath
	Qty	size/mm			People/day
DGL-R	10	58*1800	100	0.94	2-3
DGL-S	15	58*1800	150	1.13	3-4
DGL-T	20	58*1800	200	1.89	4-5
DGL-U	30	58*1800	300	2.83	5-6
DGL-V	50	58*1800	500	3.95	7-8

DGB

Technical Data (SLOPE TYPE)

- Inner tank: Stainless steel SUS304-2B, Thickness>0.41mm
- Outer tank: Stainless steel SUS430, Thickness>0.4mm
- Vacuum tube: Three layer Cu coated 58*1800mm
- Frame: Aluminum/Stainless steel/GI
- Tank diameter: 460mm
- The material of insulation:50mm high density polyurethane
- Frame angle: 27 degree
- Heat preservation: 48-72 hours
- Mg anode: optional
- Electrical heating Coil: optional

Features

This type uses the all-glass evacuated solar collector tubes as the heat-absorbing element. The high vacuum degree of the clearance between the outer and inner tube reduces the heat emission which is caused by convection and conduction. The layer films (coating) of the all-glass evacuated tubes transfer the sun energy into heat energy. The high absorption and low emittance rate of HEL layer film is unique.

This model can be installed in slope roofs where flat surface is unavailable. Low height of the system reduces the need of Increasing the height of cold water storage tank. Using thermosiphon system-Depending on the different density between hot water and cold water, a water flowing cycle is created in the tubes. Hot water flows automatically upwards while the cold water flows down. The water in the storage tank will be heated from the natural circulation

PARAMETER TABLE

Model	Solar vacuum Tube		Capacity of water tank Lit	Area sq.m	Bath
	Qty	size/mm			People/day
DGB-R	10	58*1800	100	0.94	2-3
DGB-S	15	58*1800	150	1.13	3-4
DGB-T	20	58*1800	200	1.89	4-5
DGB-U	30	58*1800	300	2.83	5-6
DGB-V	50	58*1800	500	3.95	7-8

DNX

Technical Data

- Inner tank: Stainless steel SUS304-2B, Thickness>0.41mm
- Outer tank: Powder coated GI sheet
- Vacuum tube: Three layer Cu coated 58*1800mm
- Frame: Aluminum/Stainless steel/GI
- Tank diameter: 460mm
- The material of insulation: 50mm high density polyurethane
- Frame angle: 27 degree
- Heat preservation: 48-72 hours
- Cleaning provision: optional
- Mg anode: optional
- Electrical heating Coil: optional

Features

This type uses the all-glass evacuated solar collector tubes as the heat-absorbing element. The high vacuum degree of the clearance between the outer and inner tube reduces the heat emission which is caused by convection and conduction. The layer films (coating) of the all-glass evacuated tubes transfer the sun energy into heat energy. The high absorption and low emittance rate of HEL layer film is unique.

Using thermosiphon system-Depending on the different density between hot water and cold water, a water flowing cycle is created in the tubes. Hot water flows automatically upwards while the cold water flows down. The water in the storage tank will be heated from the natural circulation.

PARAMETER TABLE

Model	Solar vacuum Tube		Capacity of water tank Lit	Area sq.m	Bath
	Qty	size/mm			People/day
DNX-R	10	58*1800	100	0.94	2-3
DNX-S	15	58*1800	150	1.13	3-4
DNX-T	20	58*1800	200	1.89	4-5
DNX-U	30	58*1800	300	2.83	5-6
DNX-V	50	58*1800	500	3.95	7-8

DNL

Technical Data

- Inner tank: Stainless steel SUS304-2B, Thickness>0.41mm
- Outer tank: Powder coated GI sheet
- Assistant tank for automatic water loading
- Vacuum tube: Three layer Cu coated 58*1800mm
- Frame: Aluminum/Stainless steel/GI
- Tank diameter: 460mm
- The material of insulation: 50mm high density polyurethane
- Frame angle: 27 degree
- Heat preservation: 48-72 hours
- Cleaning provision: optional
- Mg anode: optional
- Electrical heating Coil: optional

Features

This type uses the all-glass evacuated solar collector tubes as the heat-absorbing element. The high vacuum degree of the clearance between the outer and inner tube reduces the heat emission which is caused by convection and conduction. The layer films (coating) of the all-glass evacuated tubes transfer the sun energy into heat energy. The high absorption and low emittance rate of HEL layer film is unique.

Auxillary tank removes the need for an air pipe in the system which makes it easier for installation and improves the aesthetics of the system. Using thermosiphon system-Depending on the different density between hot water and cold water, a water flowing cycle is created in the tubes. Hot water flows automatically upwards while the cold water flows down. The water in the storage tank will be heated from the natural circulation.

PARAMETER TABLE

Model	Solar vacuum Tube		Capacity of water tank Lit	Area sq.m	Bath
	Qty	size/mm			People/day
DNL-R	10	58*1800	100	0.94	2-3
DNL-S	15	58*1800	150	1.13	3-4
DNL-T	20	58*1800	200	1.89	4-5
DNL-U	30	58*1800	300	2.83	5-6
DNL-V	50	58*1800	500	3.95	7-8

Pressurized Solar Water Heater

DTSX

Technical Data (TUBE TYPE)

- Inner tank: Stainless steel SUS304-2B, Thickness>0.41mm
- Outer tank: Stainless steel SUS430, Thickness>0.4mm
- Vacuum tube: HEL Heat pipe 58*1800mm
- Frame : Aluminum/Stainless steel/GI
- Working pressure: 6 bar
- The material of insulation:50mm high density polyurethane
- Frame angle:27 degree
- Heat preservation:48-72 hours
- Cleaning provision: optional
- Electrical heating Coil: optional
- Mg anode - inbuilt

Features

This type uses the all-glass evacuated solar collector tubes as the heat-absorbing element. The high vacuum degree of the clearance between the outer and inner tube reduces the heat emission which is caused by convection and conduction. The layer films (coating) of the all-glass evacuated tubes transfer the sun energy into heat energy. The high absorption and low emittance rate of HEL layer film is unique.

In this model heating start up quickly, heat pipe transfer the heat energy into the storage tank in one direction. No water enters the evacuated tubes therefore the solar water heater can still be in service even with several tubes breakage. Simple structure amd is easy to assembly and install can also be used together with auxillary electric boost. Heat transfer occurs even after sunset as the Cu rod and foil inside the evacuated tubes also traps certain amount of heat.

PARAMETER TABLE

Model	Solar vacuum Tube		Capacity of water tank Lit	Area sq.m	Bath
	Qty	size/mm			People/day
DTSX-R	10	58*1800	100	0.94	2-3
DTSX-S	15	58*1800	150	1.13	3-4
DTSX-T	20	58*1800	200	1.89	4-5
DTSX-U	30	58*1800	300	2.83	5-6
DTSX-V	50	58*1800	500	3.95	7-8

DFSX

Technical Data (FLAT TYPE)

- Inner tank: Stainless steel SUS304-2B, Thickness>1.2mm
- Outer tank: Stainless steel SUS430, Thickness>0.5mm
- Collector dimension: 1pcs/2pcs/3pcs
- Frame: Aluminum/Stainless steel/GI
- Working pressure: 6 bar
- The material of insulation: 55mm high density polyurethane
- Frame angle: 27 degree
- Heat preservation: 48-72 hours
- Electrical heating Coil: optional
- Mg anode - inbuilt

Features

Flat panel Solar Water Heating System uses the thermosyphon principal to transfer heat from collector to water inside the tank. The collectors are coated with a heat absorbent surface which absorbs the sun rays and heats fluid in the collector. As the fluid is heated it rises to the top of the collector panel and into the tank where it displaces cooler fluid which flows into the bottom of the collector panel were the process is repeated . The more temperature difference between the fluid in the collector panel and water in the tank the faster flow and heat exchange.

Using thermosiphon system-Depending on the different density between hot water and cold water, a water flowing cycle is created in the tubes. Hot water flows automatically upwards while the cold water flows down. The water in the storage tank will be heated from the natural circulation

PARAMETER TABLE

Model	Solar flat Plate		Capacity of water tank Lit	Area sq.m	Bath
	Qty	size/mm			People/day
DFSX-R	1	80*1000*2000	100	2.0	2-3
DFSX-T	2	80*1000*2000	200	2.0	4-5
DFSX-U	3	80*1000*2000	300	2.0	5-6
DFSX-V	4	80*1000*2000	500	2.0	7-8

SOLAR ENERGY ACCESSORIES

Electromagnetic valve signal line

Intelligent controller

Lever valve

Magnesium rod

Silicon seal

Sliding adjustable pipe bracket

TP valve

Expansion vessel

Assistant tank

Circulation pump

Copper connector

Electric heating

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