OFTOB ENERGY Solar Water Heating Systems

Compact Non-Pressurized Solar Water Heater

Technical Specifications

Inner Tank: SUS304L food grade stainless steel 360mm - 0.4mm Standard

Outer Tank: Painted Galvanized steel - 460mm - 0.4mm Standard

Vacuum tube: ALN/ALN-SS/CU absorbing coating solar vacuum tube 58 x 1800mm - 1.6mm Standard

- Insulation Layer: High density polyurethane 50mm Standard
- Support Frame: Galvanized steel 1.5mm thickness Standard
- Optional Accessories: Reflector, Electric heater, Magnesium anode, Assistant tank, Controller

Model	Light Area (m^2)	Solar Vacuum Tube			Capacity (Liters)	20GP/40HQ Loading Qty
		Ø (mm)	L (mm)	No.		
OEJG 100	1.4	58	1800	10	100	71/172
OEJG 150	2.1	58	1800	15	150	52/125
OEJG 200	2.8	58	1800	20	200	39/96
OEJG 250	3.5	58	1800	25	250	33/80
OEJG 300	4.2	58	1800	30	300	28/68
OEJG 400	5.6	58	1800	40	400	21/52

Model	Light Area (m^2)	Solar Vacuum Tube			Capacity (Liters)	20GP/40HQ Loading Qty
		Ø (mm)	L (mm)	No.		
OEJG 80	1.12	58	1800	8	80	80/194
OEJG 120	1.68	58	1800	12	120	62/150
OEJG 160	2.24	58	1800	16	160	48/117
OEJG 180	2.52	58	1800	18	180	43/105
OEJG 240	3.36	58	1800	24	240	34/82
OEJG 360	5.04	58	1800	36	360	23/57

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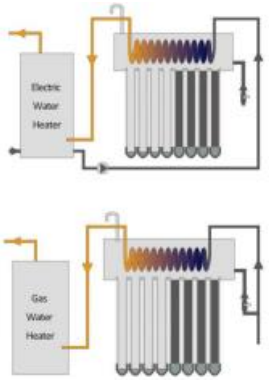
OFTOB ENERGY Solar Water Heating Systems

Compact Pre-Heated Copper Coil Pressurized Solar Water Heater



Technical Specifications

- **Inner Tank:** SUS304L food-grade stainless steel, 360 mm diameter, 0.4 mm thickness (standard)
- **Heat Exchanger – Copper Coil:** OD12 mm, thickness 0.8 mm, length 25 m
- **Outer Tank:** Painted galvanized steel, 460 mm diameter, 0.4 mm thickness (standard)
- **Vacuum Tube:** ALN/ALN-SS/CU absorbing coating, 58 × 1800 mm, 1.6 mm thickness (standard)
- **Insulation Layer:** High-density polyurethane, 50 mm (standard)
- **Support Frame:** Galvanized steel, 1.5 mm thickness (standard)
- **Optional Accessories:** Reflector, electric heater, magnesium anode, assistant tank, controller

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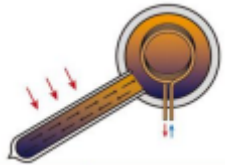
Features

- Lowest-cost pressurized hot water system, suitable for warm climates
- Copper coil heat exchanger ensures fast heat transfer for sanitary hot water
- Stable hot water output — safe and comfortable for bathing
- Reduces gas and electric water-heating bills by up to **80%**
- Standby electric heating and controller provide hot water **365 days a year**
- **5-year product warranty**, service life over **15 years**



Model	Light Area (m²)	Vacuum Tube			Capacity (Liters)	20GP/40HQ Loading
		Ø (mm)	L (mm)	NO		
OEZZ 150	2.1	58	1800	15	150	52/125
OEZZ 200	2.8	58	1800	20	200	39/96
OEZZ 250	3.5	58	1800	25	250	33/81
OEZZ 300	4.2	58	1800	30	300	28/68
OEZZ 160	2.24	58	1800	16	160	48/116
OEZZ 180	2.52	58	1800	18	180	43/105
OEZZ 240	3.36	58	1800	24	240	34/82
OEZZ 360	5.04	58	1800	36	360	23/57

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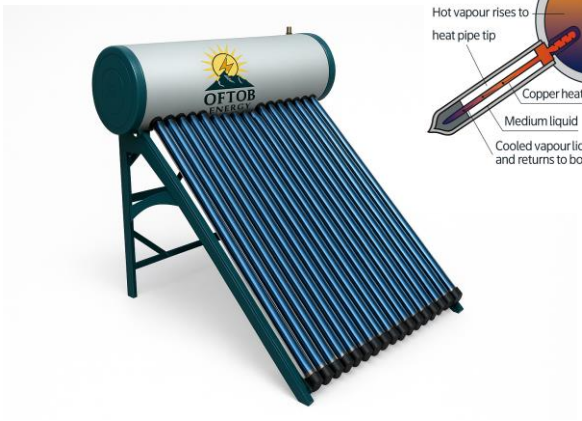
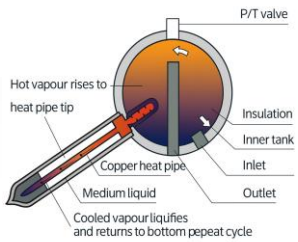
OFTOB ENERGY Solar Water Heating Systems

Compact Heat Pipe Vacuum Tube Pressurized Solar Water Heater





Main Specifications

- **Inner Tank:** SUS304L food-grade stainless steel, 365 mm diameter, 1.2 mm thickness (standard)
- **Outer Tank:** Painted galvanized steel, 470 mm diameter, 0.4 mm thickness (standard)
- **Vacuum Tube:** ALN/ALN-SS/CU absorbing coating, 58 × 1800 mm, 1.6 mm thickness (standard)
- **Heat Pipe:** T1 copper heat pipe with 14 mm condenser, length 1700 mm, 0.6 mm thickness (standard)
- **Insulation Layer:** High-density polyurethane, 52 mm (standard)
- **Support Frame:** Galvanized steel, 1.5 mm thickness (standard)
- **Working Pressure:** 600 kPa
- **Testing Pressure:** 1000 kPa
- **Included Standard Components:** P/T valve, check-reducing pressure valve, magnesium anode
- **Optional Accessories:** Reflector, electric heater, controller

Model	Light Area (m²)	Vacuum Tube			Capacity (Liters)	20GP/40HQ Loading
		Ø (mm)	L (mm)	NO		
OECB 100	1.4	58	1800	10	100 L	63/152
OECB 150	2.1	58	1800	15	150 L	47/114
OECB 200	2.8	58	1800	20	200 L	37/89
OECB 250	3.5	58	1800	25	250 L	31/75
OECB 300	4.2	58	1800	30	300 L	26/64
OECB 120	1.68	58	1800	12	120 L	55/135
OECB 160	2.24	58	1800	16	160 L	44/106
OECB 180	2.52	58	1800	18	180 L	40/97
OECB 240	3.38	58	1800	24	240 L	32/77

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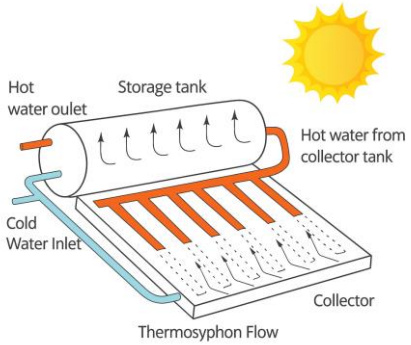
OFTOB ENERGY Solar Water Heating Systems

Compact Direct/Indirect Flat Plate Solar Water Heater

Main Specifications

Inner Tank: SUS304L food grade stainless steel 440mm - 1.2-1.5mm Standard
Closed loop system include Jacket type heat Exchanger
Outer Tank: Painted Galvanized steel - 540mm - 0.4mm Standard
Flat Panel Solar Collector: T2 copper manifold & flow channel 0.6mm, Aluminum & black chromium heat-absorbing plate
Insulation Layer: High density polyurethane 50mm Standard
Support Frame: Galvanized steel 1.5mm thickness Standard
Working Pressure 600Kpa, testing pressure 1000Kpa
P/T valve, Check-reducing pressure valve, Magnesium anode included Standard
Optional Accessories: Reflector, Electric heater, Controller, Safe valve

Model	Flat Plate Solar Collector			Capacity (Liters)	Loading Quantity (20GP/40HQ)
	Gross Area (m^2)	Unit Area (m^2)	No.		
OEFT 100	1.5 m^2	1.5 m^2	1	100	55/134
OEFT 120	2 m^2	2 m^2	1	120	46/111
OEFT 150	2 m^2	2 m^2	1	150	42/102
OEFT 200	2.5 m^2	2.5 m^2	1	200	31/75
OEFT 300	4 m^2	2 m^2	2	300	23/55



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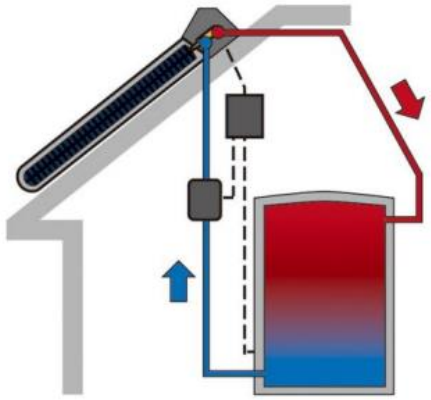
OFTOB ENERGY Solar Water Heating Systems

Split Active Heat Pipe Solar Water Heater System - Open Loop/Closed Loop

Features

- Domestic and commercial hot water, Radiant Floor Heating
- Can be configured for drain-back (end ports)
- Suitable for mains pressure (<800kPa)
- Suitable for potable water
- Ideal for commercial heating applications
- Caravan Parks, Hotels, Schools, Public Showers/Kitchens, Restaurants
- Installation on almost any wall or roof surface
- Operating costs are low because solar system needs very little maintenance
- Non-polluting, solar collectors reduce CO2 emissions
- Unlike limited resources, the sun will always be around and available for use

Model	Water Capacity	Solar Collector		Pump Station	Expansion Tank	Connections & Valves	20GP / 40HQ Loading Qty
		Type	Tubes Qty				
OESV150	150 L	Heat Pipe	15	SR881 Standard	8 L	22 mm fitting, Air Vent, Safe Valve, P/T Valve	33 / 79
OESV200	200 L		20		12 L		26 / 64
OESV300	300 L		30		19 L		18 / 44
OESV400	400 L		40		19 L		14 / 35
OESV500	500 L		50		24 L		12 / 19
OESV600	600 L		60		24 L		—
OESV800	800 L		80		36 L		—
OESV1000	1000 L		100		36 L		—



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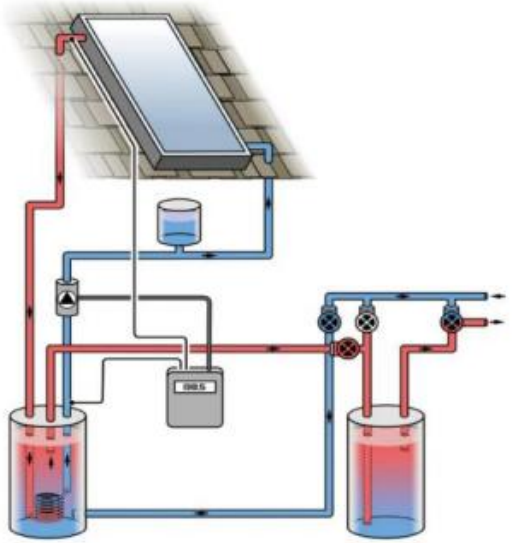
OFTOB ENERGY Solar Water Heating Systems

Split Active Flat Plate Solar Water Heater System - Open Loop/Closed Loop

Features

- Scientific and effective product design
- Forced operation minimizes maintenance
- Electric booster models available
- Stainless steel SUS316/SUS304/enamel inner tank
- Reliable, low maintenance operation
- Automatic control and operation with user friendly design
- Flexible solution with options of collector and tank
- Strong design to withstand the extreme weather
- Easy to mounting and installation
- Perfect combination with buildings
- Worklife over 15 years

Model	Water Capacity	Solar Collector		Pump Station	Expansion Tank	Connections & Valves	20GP / 40HQ Loading Q
		Type	Area (m²)				
OESF150	150 L	Flat Panel	2	SR881 Standard	8 L	22 mm fitting, Air Vent, Safe Valve, P/T Valve	33 / 79
OESF200	200 L		2.5		12 L		26 / 64
OESF300	300 L		4		19 L		18 / 44
OESF400	400 L		5		19 L		14 / 35
OESF500	500 L		6		24 L		12 / 19
OESF600	600 L		8		24 L		—
OESF800	800 L		10		36 L		—
OESF1000	1000 L		14		36 L		—



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OFTOB ENERGY Solar Water Heating Systems

58mm Vacuum Tube Heat Pipe Solar Collector

Main Specifications

Inner manifold: Copper header pipe (ASTM: C1100, DIN: ECu-58); Potable water rated. Maximum pressure: 800kPa
Vacuum tube: Borosilicate 3.3 twin wall all glass 58x1800mm, High efficient coating, Vacuum: P<5x10-3 Pa
Heat pipe: High purity "oxygen free" copper (ASTM: C10200, DIN: OF-Cu), Startup temperature: ~30 deg
Outer manifold: 5005-H16 Aluminium with Anodized or Powder Coated Finish or 304 stainless steel
Insulation: High quality Glass Wool (K = 0.043W/mK), Average >50mm
Frame: 202 Stainless Steel or 6005-T5 Aluminium Alloy
Connection: 22mm OD copper (Europe)
Rubber Components: HTV Silicone Rubber (UV stabilised)
Reflector: Aluminum component/stainless steel

Model	Light Area (m^2)	Vacuum Tube			Heating Capacity (Liters)	20GP/40HQ Loading Qty
		Ø (mm)	L (mm)	NO.		
OERB 581810	1.68	58	1800	10	85–100	174/423
OERB 581812	2.17	58	1800	12	100–120	153/372
OERB 581815	2.65	58	1800	15	125–150	128/311
OERB 581818	3.12	58	1800	18	150–180	102/251
OERB 581820	3.44	58	1800	20	170–200	95/230
OERB 581824	4.08	58	1800	24	200–240	82/200
OERB 581825	4.24	58	1800	25	210–250	79/192
OERB 581830	4.89	58	1800	30	250–300	67/163

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OFTOB ENERGY Solar Water Heating Systems

70mm Metal-Glass Vacuum Tube Heat Pipe Solar Collector

Main Specifications

Inner manifold: Copper header pipe (ASTM: C1100, DIN: ECu-58); Potable water rated. Maximum pressure: 800kPa
Vacuum tube: Borosilicate 3.3 single wall glass-metal 70x1800/1900mm, High efficient coating, Vacuum: P<5x10-3 Pa
Heat pipe: High purity "oxygen free" copper (ASTM: C10200, DIN: OF-Cu), Startup temperature: ~30 deg
Outer manifold: 5005-H16 Aluminium with Anodized or Powder Coated Finish or 304 stainless steel
Insulation: High quality Glass Wool (K= 0.043W/mK), Average >50mm
Frame: 202 Stainless Steel or 6005-T5 Aluminium Alloy
Connection Options: 22mm OD copper (Europe)
Rubber Components: HTV Silicone Rubber (UV stabilised)
Reflector: Aluminum component/stainless steel

Model	Light Area (m²)	Vacuum Tube			Heating Capacity (Liters)	20GP/40HQ Loading Qty
		Ø (mm)	L (mm)	NO.		
OERB C 701910	1.04	70	1900	10	100–120	81/217
OERB C 701915	1.56	70	1900	15	150–180	56/150
OERB C 701920	2.08	70	1900	20	200–240	43/115
OERB C 701710	0.95	70	1900	10	85–100	89/238
OERB C 7017150	1.425	70	1900	15	125–150	62/165
OERB C 701720	1.9	70	1900	20	170–200	48/126

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