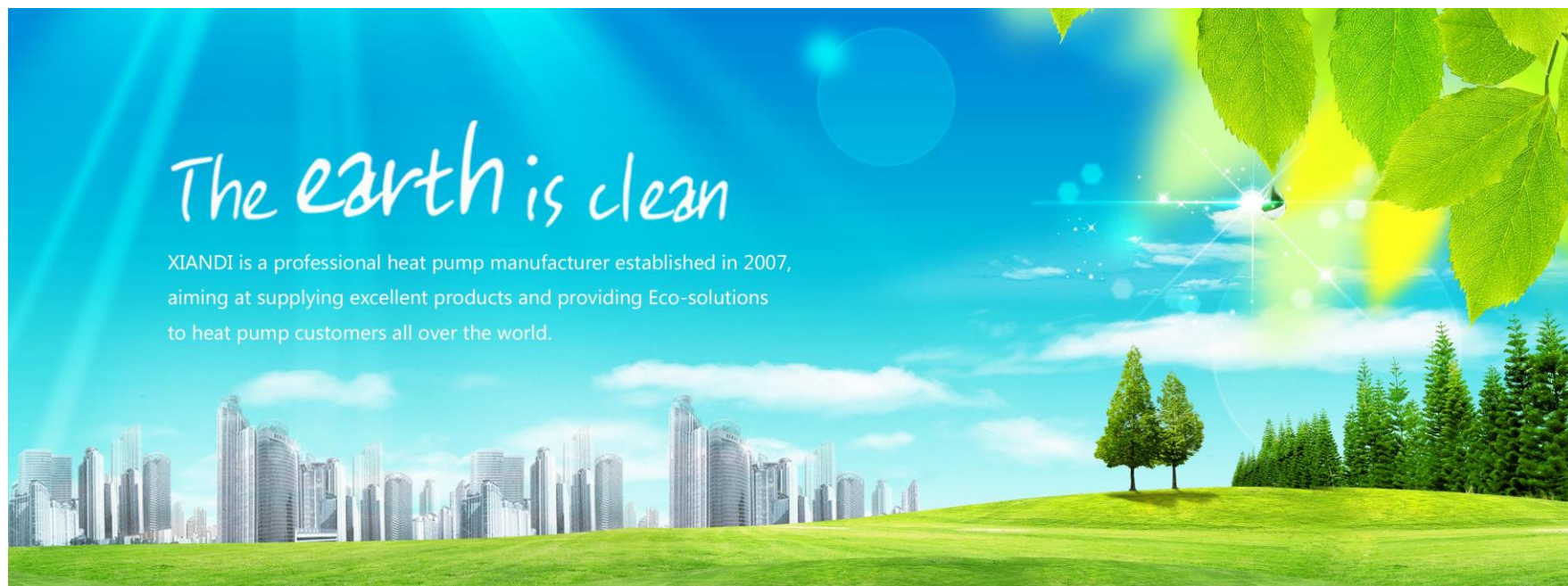


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*Eco-energy Solution*

**Product Catalog Range** *Providing Eco-energy Solution for Heating and Cooling Application!*



*The earth is clean*

XIANDI is a professional heat pump manufacturer established in 2007, aiming at supplying excellent products and providing Eco-solutions to heat pump customers all over the world.

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## Water to Water (Ground Source) Heat Pump

### 1. Heating/cooling

Heating in winter, cooling in summer.

Floating system designed to isolate vibration thus reduce noise largely.

### 2. Heating+hot water

Supply central heating and hot water, with timer setting for hot water, with water temp. set value.

Available hot water all year round, even when heating is not required in spring or autumn.

Floating system design to isolate vibration and reduce noise.

### 3. Heating/cooling+hot water

Supply central heating and hot water, with priority timer setting for hot water, with water temp. set value.

Cooling and hot water at the same time in summer.

Available hot water all year round, even when heating/cooling is not required.

Floating system design to isolate vibration and reduce noise.

**You can easily find a suitable model for your house heating system!**

**(Please refer to the Parameter Table)**



**High efficiency Plate Type Heat Exchanger**



**Thermal Expansion Valve**



**Sanyo Hi-COP Compressor**



**WILO Pump**

## 1. Water to Water (Ground Source) Heat Pump- Heating/Cooling

Model		SDWW-100	SDWW-160-S	SDWW-260-S	SDWW-320-S	SDWW-500-S	SDWW-600-S
Cooling Capacity	kw (W30/W7)	8.1	13.8	21	27.6	42	50
Cooling Power Input	kw (W30/W7)	1.8	3.0	4.6	6.1	9.2	11.1
Heating Capacity	kw (W10/W45)	10.2	16	25.6	32	51	61
Heating Power Input	kw (W10/W45)	2.2	3.5	5.6	7.1	11.3	13.5
Heating Capacity	kw (W10/W35)	10.6	16.6	26.6	33.2	53.2	62.4
Heating Power Input	kw (W10/W35)	2.0	3.1	5.1	6.2	10.2	12.0
Heating Capacity	kw (B0/W35)	8.5	13.3	21.3	26.6	42.6	50.0
Heating Power Input	kw (B0/W35)	1.88	2.95	4.73	5.95	9.6	11.26
Power Supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Cooling Start Current	A	65	35	55	68	55	64
Cooling Running Current	A	8.1	7.3	10.5	14.6	20.2	22.8
Heating Start Current	A	68	41	60	41	60	69.5
Heating Running Current	A	9.6	7.7	12.1	15.7	24.2	27.4
Refrigerant		R410a	R410a	R410a	R410a	R410a	R410a
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor Quantity		1	1	1	1	2	2
DHW Output	L/h $\Delta$ 35°C	245	390	625	780	625	780
Water Source Flow	Ton/hour	1.4	2.4	3.8	5	7.6	10
Air Condition Water Flow	Ton/hour	1.7	2.7	4.4	5.5	8.8	11
DHW Flow	Ton/hour	1.7	2.8	4.6	5.8	4.6	5.8

Air Condition Water Pressure Drop	kPa	10	10	10	15	15	15
Circulation Pump		Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO
Air Condition/Water Source Pipe Connection		1-1/4" F	1-1/4" F	1-1/2" F	1-1/2" F	2" F	2" f
Noise Level	dB(A)	32	34	38	40	43	45
Water Source Inlet Water Temp. Range (Heating)	°C		-5 to +25	-5 to +25	-5 to +25	-5 to +25	-5 to +25
Maximum Hot Water Outlet Temp. (Heating)	°C		55	55	55	55	55
Weight	kg	100	130	250	280	330	350
Net Dimension (Depth*Width*Height)	mm	703x611x1340	703x611x1340	703x611x1340	703x611x1340	1100x800x1000	1100x800x1000

<b>Test Condition</b>	Cooling: W30/W7: Ground Source inlet/outlet 30°C/25°C, water inlet/outlet 12°C/7°C.
	Heating: W10/W45: Ground Source inlet/outlet Temp.10°C/-, water inlet/outlet 40°C/45°C
	Heating: W10/W35: Ground Source inlet/outlet Temp.10°C/-, water inlet/outlet 30°C/35°C.
	Heating: B0/W35: Ground Source inlet/outlet Temp.0°C/-3°C, water inlet/outlet 30°C/35°C.

## 2. Water to Water (Ground Source) Heat Pump- Heating+Hot Water

Model		SDWW-100-W	SDWW-160-SW	SDWW-260-SW	SDWW-320-SW	SDWW-500-SW	SDWW-600-SW
Heating Capacity	kw (W10/W45)	10.2	16	25.6	32	51	61
Heating Power Input	kw (W10/W45)	2.2	3.5	5.6	7.1	11.3	13.5
Heating Capacity	kw (W10/W35)	10.6	16.6	26.6	33.2	53.2	62.4
Heating Power Input	kw (W10/W35)	2.0	3.1	5.1	6.2	10.2	12.0
Heating Capacity	kw (B0/W35)	8.5	13.3	21.3	26.6	42.6	50.0
Heating Power Input	kw (B0/W35)	1.88	2.95	4.73	5.95	9.6	11.26
Power Supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Heating Start Current	A	68	41	60	41	60	69.5
Heating Running Current	A	9.6	7.7	12.1	15.7	24.2	27.4
Refrigerant		R410a	R410a	R410a	R410a	R410a	R410a
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor Quantity		1	1	1	2	2	2
Water Source Flow	Ton/hour	1.4	2.4	3.8	5	7.6	10
Air Condition Water Flow	Ton/hour	1.7	2.7	4.4	5.5	8.8	11
DHW Flow	Ton/hour	1.7	2.8	4.6	5.8	4.6	5.8
Air Condition Water Pressure Drop	KPa	10	10	10	15	15	15
Circulation Pump		Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO

Air Condition/Water Source Pipe Connection		1-1/4" F	1-1/4" F	1-1/2" F	1-1/2" F	2" F	2" F
Noise Level	dB(A)	32	34	38	40	43	45
Water Source Inlet Water Temp. Range (Heating)		°C	-5 to +25	-5 to +25	-5 to +25	-5 to +25	-5 to +25
Maximum Hot Water Outlet Temp. (Heating)		°C	55	55	55	55	55
Weight	kg	100	130	250	280	330	350
Net Dimension (Depth*Width*Height)	mm	703x611x1340	703x611x1340	703x611x1340	703x611x1340	1100x800x1000	1100x800x1000

Test Condition	Heating: W10/W45: Ground Source inlet/outlet Temp.10°C/-, water inlet/outlet 40°C/45°C
	Heating: W10/W35: Ground Source inlet/outlet Temp.10°C/-, water inlet/outlet 30°C/35°C.
	Heating: B0/W35: Ground Source inlet/outlet Temp.0°C/-3°C, water inlet/outlet 30°C/35°C.

### 3. Water to Water (Ground Source) Heat Pump- WR Series Cooling/Heating+Hot Water

Model		SDWW-100-WR	SDWW-160-SWR	SDWW-260-SWR	SDWW-320-SWR	SDWW-500-SWR	SDWW-600-SWR
Cooling Capacity	kw (W30/W7)	8.1	13.8	21	27.6	42	50
Cooling Power Input	kw (W30/W7)	1.8	3.0	4.6	6.1	9.2	11.1
Heating Capacity	kw (W10/W45)	10.2	16	25.6	32	51	61
Heating Power Input	kw (W10/W45)	2.2	3.5	5.6	7.1	11.3	13.5
Heating Capacity	kw (W10/W35)	10.6	16.6	26.6	33.2	53.2	62.4
Heating Power Input	kw (W10/W35)	2.0	3.1	5.1	6.2	10.2	12.0
Heating Capacity	kw (B0/W35)	8.5	13.3	21.3	26.6	42.6	50.0
Heating Power Input	kw (B0/W35)	1.88	2.95	4.73	5.95	9.6	11.26
Power Supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Cooling Start Current	A	40	35	55	35	55	64
Cooling Running Current	A	8.1	7.3	10.5	14.6	20.2	22.8
Heating Start Current	A	45	41	60	41	60	69.5
Heating Running Current	A	9.6	7.7	12.1	15.7	24.2	27.4
Refrigerant		R410a	R410a	R410a	R410a	R410a	R410a
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor Quantity		1	1	1	2	2	2
DHW Output	L/h $\Delta 35^{\circ}\text{C}$	245	390	625	780	625	780
Water Source Flow	Ton/hour	1.4	2.4	3.8	5	7.6	10

Air Condition Water Flow	Ton/hour	1.7	2.7	4.4	5.5	8.8	11
DHW Flow	Ton/hour	1.7	2.8	4.6	5.8	4.6	5.8
Air Condition Water Pressure Drop	kPa	10	10	10	15	15	15
Circulation Pump		Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO	Built-in WILO
Air Condition/Water Source Pipe Connection		1-1/4" F	1-1/4" F	1-1/2" F	1-1/2" F	2" F	2" f
Noise Level	dB(A)	32	34	38	40	43	45
Water Source Inlet Water Temp. Range (Heating)		°C	-5 to +25	-5 to +25	-5 to +25	-5 to +25	-5 to +25
Maximum Hot Water Outlet Temp. (Heating)		°C	55	55	55	55	55
Weight	kg	90	130	140	200	210	160
Net Dimension (Depth*Width*Height)	mm	703×611×1340	703×611×1340	703×611×1340	703×611×1340	1100×800×1000	1100×800×1000

<b>Test Condition</b>	Cooling: W30/W7: Ground Source inlet/outlet 30°C/25°C, water inlet/outlet 12°C/7°C.
	Heating: W10/W45: Ground Source inlet/outlet Temp.10°C/-, water inlet/outlet 40°C/45°C
	Heating: W10/W35: Ground Source inlet/outlet Temp.10°C/-, water inlet/outlet 30°C/35°C.
	Heating: B0/W35: Ground Source inlet/outlet Temp.0°C/-3°C, water inlet/outlet 30°C/35°C.



## 4. Water to Water (Ground Source) Heat Pump- INSTALLATION Scheme

Ground source heat pumps use pipes buried in the garden to extract heat from the ground. This is usually used to warm water for radiators or underfloor heating systems. It can also be used to pre-heat water before it goes into a more conventional boiler

