

# SUNSCAN<sup>TM</sup>

SOLAR ENERGY TECHNOLOGIES  
SINCE 2008

## SUNSMART

### Air to Water **Heat Pump** **Installation & Operation Manual**



Model Number :SSD-0360410A  
SSD-0540410A  
SSD-0900410A  
SSD-0132410A

**A Guide to the installation and operation of SunScan SunSmart Air to water Heat pumps.**  
**Please read this manual carefully before installing and operating the Heat pump**  
**Retain this document for future reference.**



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## **Introduction**

**Congratulations on purchasing a SunScan SunSmart Heat pump, our Heat pumps use cutting edge technology and attractive design to bring you a high quality product. This manual must be read thoroughly and understood before undertaking to install any of the SunScan range of heat pumps, please note that this manual is specific to the product/s listed or described on the cover page. If after reading this manual any aspect of the installation process remains unclear contact a SunScan representative prior to installation.**

**This manual serves only as a guide to the correct installation of SunScan components; it does not seek to defy logic and or the experience of suitably trained installers, use discretion within the parameters of the below standards.**

**SunScan water heating apparatus must be installed in compliance with the following:**

**SANS 198, SANS 10252 -1, SANS 10254, SANS 1352, SANS 60335-2-21**

**SANS 10400 – parts A, B, L, XA, SANS 10142-1**

**No modifications from these standards are allowed. All local bylaws and estate laws must also be adhered to. Failure to comply with any or all of these standards may result in injury or death and may void the warranty. Any attachment, connection, integration or general association of parts or components that directly or indirectly affect the operation or performance of a SunScan product could void the warranty. Such parts not supplied by SunScan must be authorised by SunScan in writing in order to retain the benefits of the warranty.**


**SunScan does not accept responsibility for the final fitness of the water for consumption, as the water quality is not affected by the heat pump.**

# IMPORTANT SAFETY PRECAUTIONS

## Important Notice:

**Attention Installer:** This guide contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment after installation.

**Attention User:** This manual contains important information that will help you in operating and maintaining this product. Please retain document for future reference.

 **WARNING** - This manual must be read thoroughly and understood before undertaking to install any of the SunScan range of heat pumps. Failure to follow safety warnings and instructions may result in severe injury, death, or property damage.

## Codes and Standards

SunScan water heating apparatus must be installed in compliance with the following: SANS 198, SANS 10252 -1, SANS 10254, SANS 1352, SANS 60335-2-21  
SANS 10400 – parts A, B, L, XA, SANS 10142-1

No modifications from these standards are allowed. All local bylaws and estate laws must also be adhered to. Failure to comply with any or all of these standards may void the warranty.

### **DANGER**

#### **— Risk of electric shock**



The electrical supply to this product must be installed by a licensed and certified electrician in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to heat pump users, installers or others due to electrical shock, and may also cause damage to property. Read and follow the instructions inside this guide.



**WARNING** - This water heater is not intended to be operated or adjusted by young children, the elderly, infirmed or physically/mentally handicapped persons.

### What's in the box?

No.	Name	Qty.
1	Installation & Operation Manual	1
2	Wire-controller	1
3	Wire-controller sensor wire	1
4	Wire controller box & pad (plastic)	1
5	Power cable (selected models)	1
6	Drain-pipe	1
7	Drain-pipe connector	1
8	Rubber shock absorber	4
9	Heat Pump Unit	1

Please read the manual carefully before operation and keep it for future reference.

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## General Safety

### Range of application:

1. Power supply: 230V/1N~50Hz.
2. Environment temperature:  $-7^{\circ}\text{C}\sim 43^{\circ}\text{C}$  :

### NOTICE

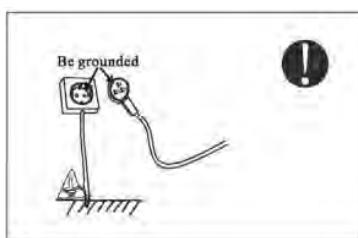
The heat pump has a anti-freezing operation. In winter when the ambient is below  $0^{\circ}\text{C}$ , the unit will start automatically to keep water from freezing, this protects the unit and water piping system. **DO NOT** switch the unit off or disconnect it from the power supply during low ambient ( $0^{\circ}\text{C}$ ) times.

If the unit is not in use for extended periods in winter when the ambient temperature is below  $0^{\circ}\text{C}$ , the user can switch off the unit and disconnect it from the power supply, if all water is discharged from the heat pump and piping system. Failure to discharge water from the heat pump before switching off or disconnecting the power supply may result in damage to the unit or piping system.

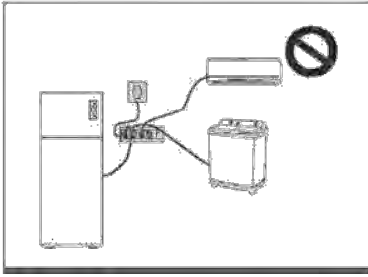
**Please read the below precautions carefully to avoid damage to the unit and/or harm to the user**



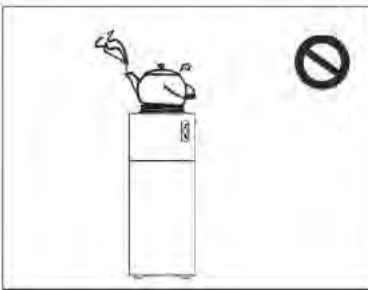
**The installation, dismantlement and maintenance of the unit must be performed by qualified personnel. DO NOT make any changes to the structure of the unit.**



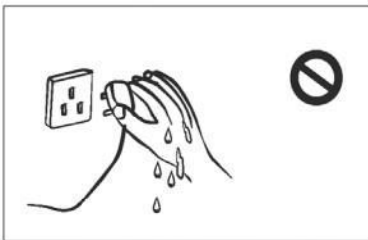
**The power supply to the unit must be grounded.**



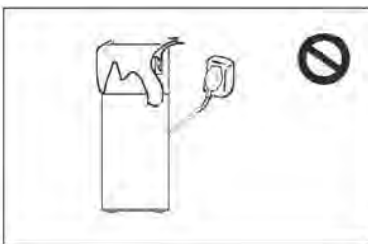
**Use a dedicated socket outlet / circuit for this unit.**



**Keep the unit away from other home appliance or heat sources, this prevents any possible magnetic interference and ensures the unit's performance.**



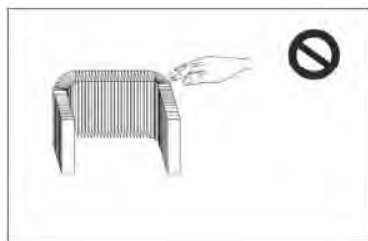
**Do not touch the power plug or any electrical components with wet hands. Never pull the plug out by pulling on the power-cable.**



**Never cover the unit with clothes, plastic or any other material that may block ventilation of the unit, this will lead to low efficiency or non-operation of this unit.**

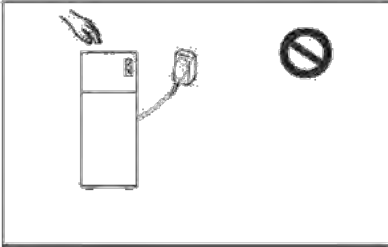


**Never pour water or liquid into or over the unit.**

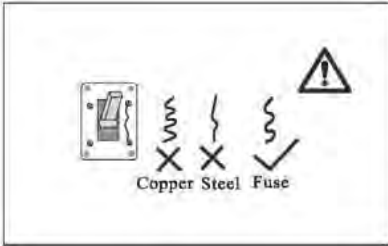


**Coil fins are sharp and may cut fingers**

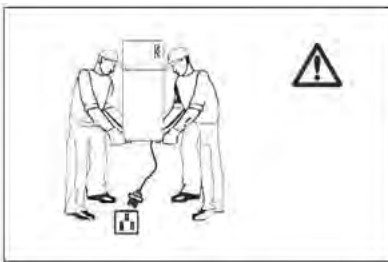




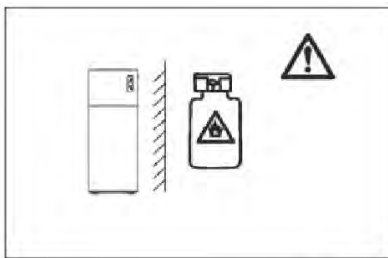
**Do not touch the air outlet grill when fan motor is running**



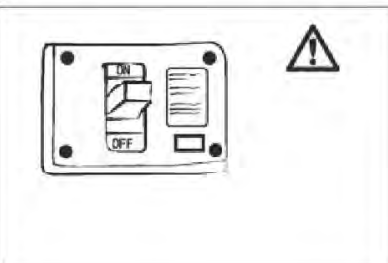
**Always select the correct fuse or breaker. Steel wire or copper wire cannot be used as a substitute for fuse or breaker.**



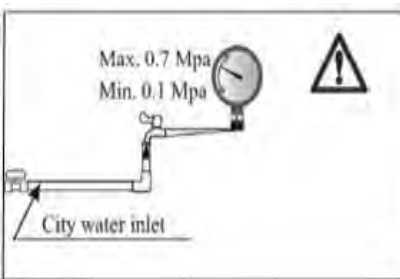
**Please ensure the power supply is switched off before any maintenance / cleaning works.**



**Keep the unit away from combustible or corrosive environment.**



**It is mandatory to use a suitable circuit breaker for the heat pump and make sure the power supply to the heater corresponds to the specifications.**



**The minimum inlet water pressure should be 0.1MPa and maximum pressure 0.7MPa.**

# How heat Pumps work

## 1. Heat pump process

Heat pumps transfer heat by circulating refrigerant through a cycle of evaporation and condensation. A compressor pumps the refrigerant between two heat exchanger coils. In one coil, the refrigerant is evaporated at low pressure and absorbs heat from its surroundings. The refrigerant is then compressed en route to the other coil, where it condenses at high pressure. At this point, it releases the heat it absorbed earlier in the cycle.

## 2. Air source heat pump diagram

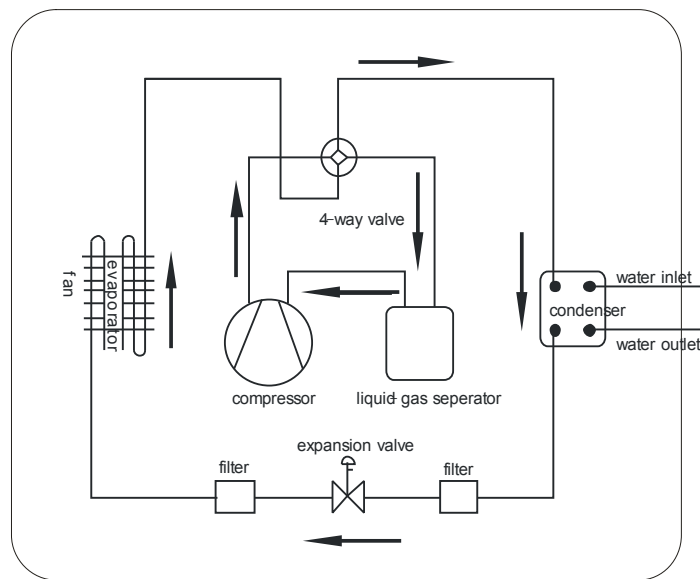


Figure 1

$$Q_c \text{ (Heat energy get)} = Q_a \text{ (Compressor consumption)} + Q_b \text{ (Heat energy absorbed from ambient environment)}$$

## Installing The Unit

### 1. Installation check

- Ensure the model number, name etc corresponds to this manual to avoid incorrect installation.
- Ensure adequate space for installation and maintenance.
- Ensure there are no obstructions to the air inlet and outlet.
- Ensure that the mounting surface can bear the weight of the unit.
- The power supply, capacity and the wire diameter should be in accordance with the electrical installation requirements.
- The electrical installation must comply with the relevant technical standards for electrical equipment.
- There shall be no obstacles within 1.5 meters in front & 0.25 meters of the back of the heat pump.

### 2. Heat pump unit size

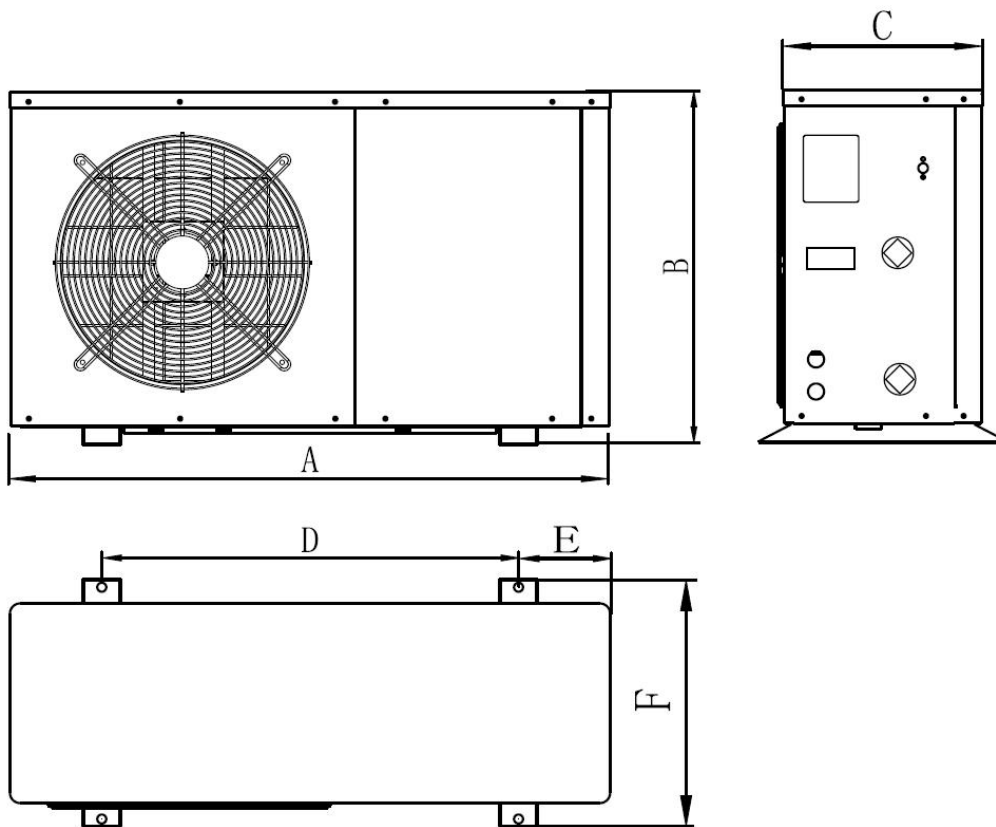


Figure 2 Horizontal type heat pump size, side air outlet

Size (mm) Model No.	A	B	C	D	E	F
SSD-0360410A	936	550	311	650	143	385
SSD-0540410A	936	550	311	650	143	385
SSD-0132410A	986	798	380	680	183	420

### 3. Hoisting

- Use four or more soft lifting belts to move the unit .
- Use protective plates on the surface of the unit when moving, this will avoid scratches and deformation.
- Check that the mounting structure is suitable before hoisting the unit.
- The heat pump will produce condensate (water), consider drainage when installing the unit.
- Use the rubber pads provided to absorb shocks and vibration.

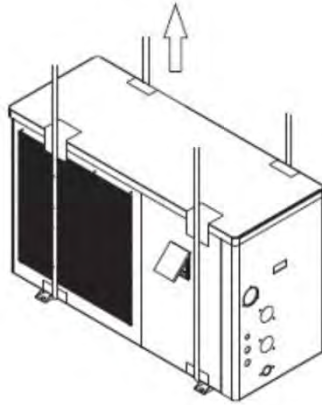


Figure 3 Hoisting diagram

## Installing The Water Pipes

### 1. Attention

- Ensure the intended pipework is free from dirt and debris.
- Install / Mount the Heat pump unit before connecting any of the water pipes.
- Water inlet and outlet pipes shall be protected by insulation.
- Stable water flow and velocity shall be ensured, so that excessive throttling can be avoided.
- Never use the water pipes or connections to the unit to move or lift the heat pump.
- Two pipe wrenches must be used when tightening or loosening the inlet and outlet water connections.

Refer to the Figure 4.

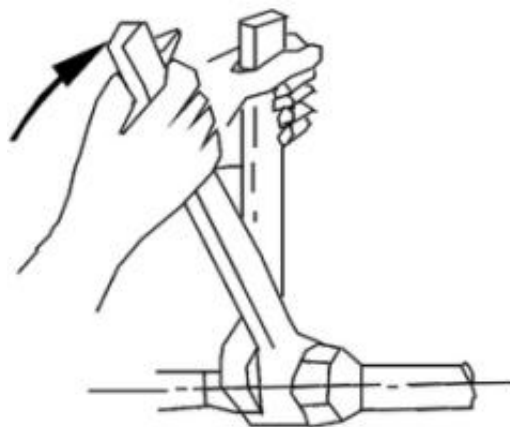


Figure 4

## 2. Instruction

### (1) Water pipe installation diagram

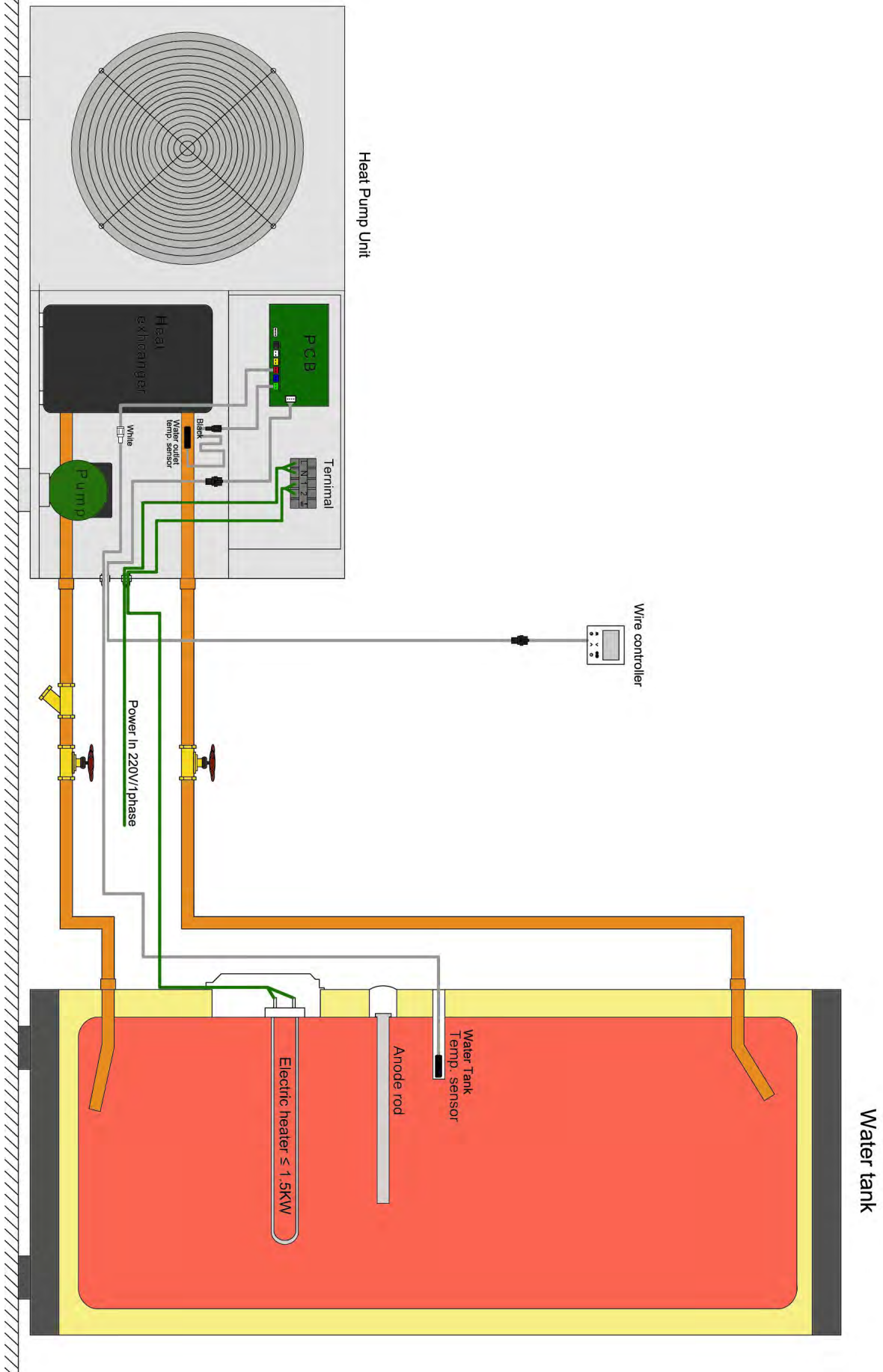


Figure 5 Diagram

(2) Selection of the water pipes

Model No.	Inlet	Outlet
SSD-0360410A	DN20	DN20
SSD-0540410A	DN20	DN20
SSD-0132410A	DN20	DN20

- Poor water quality or water with a higher mineral concentration will produce more scale and sediment.
- Water quality should be analysed before running the system, measure the PH value, conductivity, Chloride ion concentration and sulphate ion concentration, and install suitable filtration if required.

## Installing Electrical Components

### 1. Electrical wiring

- The unit shall use a dedicated power supply, with rated voltage.
- The power supply to the unit must be grounded.
- Wiring must be done by a qualified electrician in accordance with the circuit diagram.
- After all wiring is completed, re-check all connections before switching on power to the unit.
- Refer to the below table for wiring specifications.

### 2. Electrical Wiring Specification

Model No.	Electrical Wiring Specification
SSD-0360410A	3*2.5mm <sup>2</sup>
SSD-0540410A	3*2.5mm <sup>2</sup>
SSD-0132410A	3*2.5mm <sup>2</sup>

### 3. Electrical wiring diagram

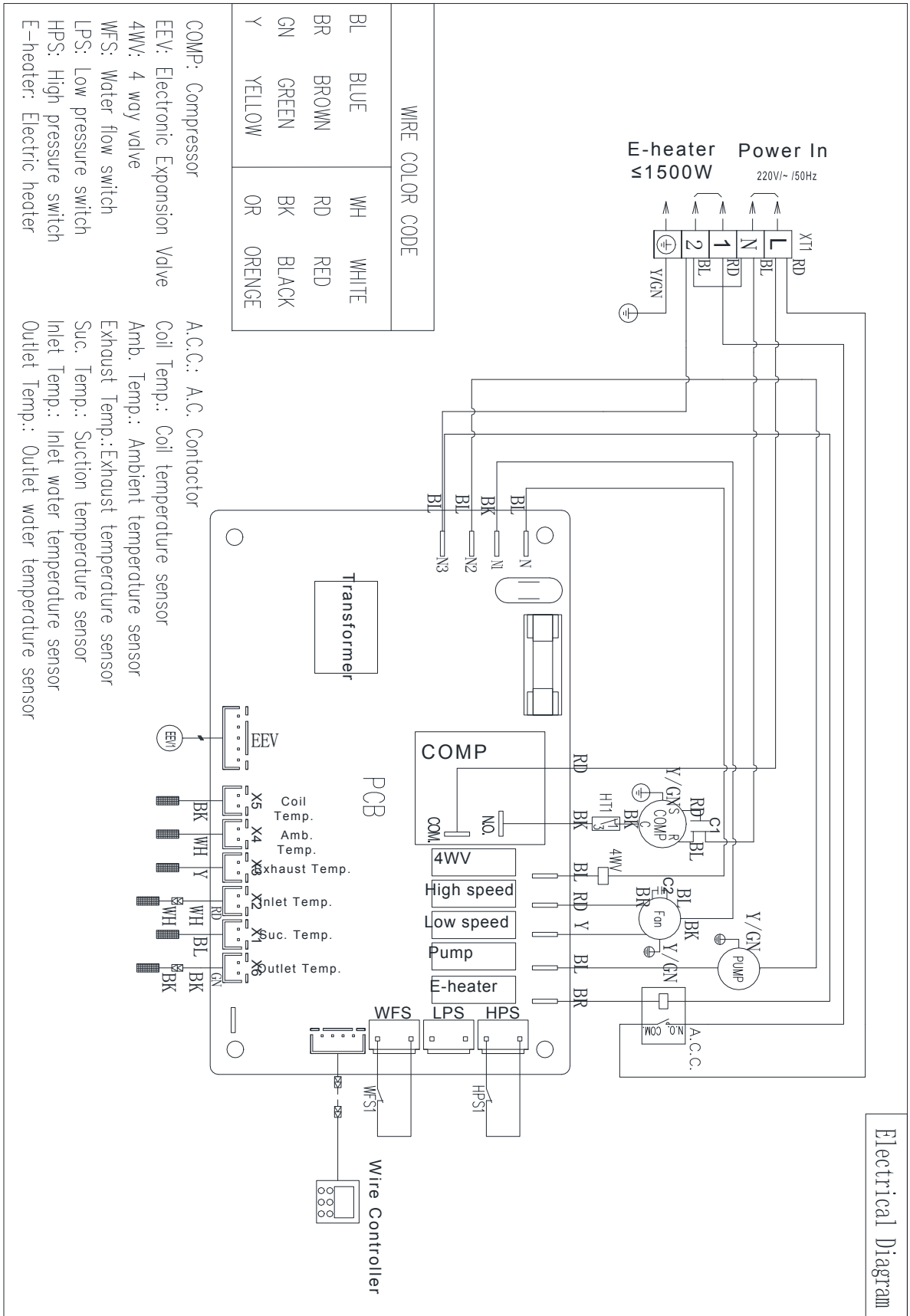


Figure 6 Electrical Diagram

# Operating Instructions

## 1. Control system specifications

### (1) Operating condition

- Voltage: 230V $\sim$  $\pm$ 10%, 50Hz $\pm$ 1Hz.
- Ambient temperature: -7 $\sim$ +43 $^{\circ}$ C
- Temperature accuracy:  $\pm$ 1 $^{\circ}$ C

### (2) Main function

- Display the storage tank temperature, setting temperature and monitoring coil, ambient and exhaust temperatures etc.
- Power outage memory function.
- When power outage occurs, the clock retains memory.
- Timing on/off.
- Automatic defrost.
- Large LCD display.
- Error code display and query
- Key-Lock Function
- Anti-freezing function
- When the wire controller is removed, the system recognizes it, and controls the heat pump automatically



## 2. Wire controller settings and operation

### (1) Interface Display and icons



Symbol	Status	Meaning
	Constantly bright	Heat pump is on
	Extinguished	Heat pump is off
	Constantly display	Cooling mode on
	Constantly display	Heating mode on
	Constantly display	Fault needs repair
	Constantly display	AUTO mode on
	Extinguished	Currently in the manual set temperature state
	Constantly bright	This unit is a water connection heat pump
	Extinguished	This unit is a refrigerant connection heat pump
	Constantly bright	Heat pump is on and defrosting
	Flashing	Heat pump is on and at defrost delay
	Flashing	Heat pump is off and at refrigerant recovery status
	Constantly display	Electric heater is on for quick heating
	Flashing	Electric heater is on for disinfection
	Constantly display	Current water temperature in the tank
	Constantly display	Set water temperature in the tank
	Constantly display	Current outlet water temperature
	Constantly display	Current inlet water temperature
	Display	Actual water temperature, set water temperature and display fault code
	Constantly display	Show Current Celsius temperature

	display	Show real time
	display	Timer function is on
	display	On-time "heating" hours
	Flashing	Set start time for "heating" hours
	display	Show boot time, non-heating time
	Flashing	End time of current set "heating" time
	Constantly display	The button is locked
	Constantly display	The controller is connected to the router

### 3. Operating Instructions

#### (1) Turn Heat pump ON/OFF

When the controller is in the normal display state, press “” button for more than 1 second to switch the power to the controller ON or OFF. When the heat pump is ON, “” lights up and is normally controlled. When heat pump is off, “” does not light up and the controller stops controlling output. The controller can display and operate normally in the power ON and OFF mode. When the controller is powered ON for the first time, it will be in the OFF mode. Thereafter, the mode will be the same as last time before power off.

#### (2) Set the Temperature Control Mode

When the controller is in normal display mode, press the “M” key to switch between manual temperature control mode and automatic temperature control mode;

The “AUTO” symbol lights up in the automatic temperature control mode and the “AUTO” symbol does not light up in the manual temperature control mode;

In the manual mode, the heating/cooling water temperature is controlled according to the manual temperature setting value;

In the automatic mode, the hot water temperature is automatically adjusted according to the ambient temperature for control;



#### (3) Set the water temperature


In manual mode, press “^” or “v” key to enter the water temperature setting state. Press the “^” or “v” button to increase or decrease the water temperature setting value; Press and hold the “^” or “v” button for more than 1 second to quickly increase or decrease the water temperature setting. Press and release the “” button immediately or if no button is pressed after 5 seconds, controller exits the modification and returns to the normal display state. When the parameter value is modified, it will flash for 2 seconds and then return to the normal display state.

In the automatic mode, press the “^” or “v” key to enter the automatic temperature adjustable parameter deviation setting state. Press “^” or “v” to increase or decrease the deviation setting value; press “^” or “v” for more than 1 second to quickly adjust or decrease the deviation setting value; press and immediately release the “” button or if no button is pressed after 5 seconds, controller exits the modification and returns to the normal display state. When the parameter value is modified, it flashes for 2 seconds and then returns to the normal display state.



#### (4) Real time clock settings

In the main interface, press the “” button to enter the real-time clock setting interface; In the real-time clock


interface, press the “” button, the hour flashes, press “^” or “v”, you can set the hour of the clock; when the hour part is set, press the “clock” button again, the minutes will flash, press “^” or “v” to set the minute of the real time clock; After the minute part is set, press the “” button again to confirm the real-time clock setting and return to the main interface;

In the real-time clock setting interface, if there is no button operation for 5 seconds, the current real-time clock setting value is confirmed and returns to the main interface; in the real-time clock setting interface, press the “” button to confirm the current real-time clock setting value and return to the main interface.

### **(5) Heating Time Settings**

Press and hold the “” button for 3 seconds in the main interface to enable or disable the timed heating mode. When the timed heating mode is enabled, enter the time period setting. Press and release “” to set the hour and minute of the start time and end time of the three time slots in sequence., The adjustable value flashes when switching to the corresponding value of the certain time slot. At the same time, “ON” or “OFF” symbol flashes, Press “^” or “v” to increase or decrease the corresponding value. After setting the time period, press and immediately release the “ON/OFF” button or if no button is pressed after 15 seconds, the changes will be saved and the controller returns to the normal display state. When the timed heating mode is enabled, the corresponding symbols are displayed during the working period (ON) and the non-working period (OFF) respectively. In the power-on mode, heating/cooling is performed only during the set working period. When the start time and end time of a heating period are the same, that time slot is discarded. When all timed periods are canceled, it is considered to be in working hours throughout the day. If the start time of a certain working period is greater than the end time, the end time is considered to be the next day. The three time period default settings are 05:00~07:00, 16:00~18:00, 20:00~00:00.

### **(6) Set the cooling/heating mode**

when the controller is in normal display, press “” to switch between cooling or heating mode. When switching to the cooling or heating mode, the cooling or heating symbol flashes quickly for 3 seconds and then returns to the normal display state. When switching to the cooling mode, the temperature adjusts automatically and selects “manual mode”, and the water temperature can be set at this time. When the cooling/heating mode is switched, the compressor will only start running after 3 minutes.

### **(7) Forced electrical quick heating**

When the following conditions are met at the same time: the controller is in the normal display state and heat pump is in the power-on state.

The heat pump needs to be in a timed heating period and timed heating enabled.

The current heating mode is met and the temperature condition for continuing heating is satisfied, without error "quick heating" may occur.

Press “M” + “^” button at the same time for more than 5 seconds, the “quick heating” function can be activated or deactivated. When the “quick heating” is running, the symbol lights up. If the heat pump is in cooling mode, “quick heat” is not allowed.

### **(8) Forced defrosting**

When the following conditions are met at the same time: the controller is in the normal display state and heat pump is in the power-on state.

The heat pump needs to be in the working period after the timed control is enabled.

The current heating mode is set and the set defrosting time is not zero and the temperature condition for defrosting is continued, without error "defrost" may occur.

Press “M” + “v” button at the same time for more than 5 seconds to activate or deactivate the "Defrost"

function. The symbol is illuminated when "Defrost" is running. If the heat pump is in cooling mode, "defrost" operation is not allowed.

**(9) Key lock**

When the controller is in the normal display state, the keypad is locked when there is no button operation for more than 60 seconds. Press any button at this time to unlock.

**4. Trouble shoot Error Code**

Error code	Error Description	Possible Causes	Solution
01E	Water flow switch disconnected	Water flow switch is broken/water flow switch connection is loose /No water flow switch	<b>Contact Qualified Installer</b>
02E	Exhaust temperature too high	Lack of refrigerant/Fluorine system leak	
03E	High pressure protection	Water flow rate is low/Debris or blockage in water pipe system/Circulation pump failure /Excessive scale build up in heat exchanger/High pressure switch faulty/Loose connection	
04E	Low pressure protection	Lack of refrigerant/Fluorine system leak/Defrost function is disabled/high pressure switch fault/Loose connection	
09E	Communication failure	Signal wire connection loose/There is Strong magnetic field/PCB is broken/Signal wire loose or broken	
11E	Evaporator coil temperature sensor failure	Sensor failure/Connection is loose	
12E	Ambient temperature sensor failure	Sensor failure/Connection is loose	
13E	Exhaust temperature sensor failure	Sensor failure/Connection is loose	
14E	Water inlet temperature sensor failure	Sensor failure/Connection is loose	
15E	Tank temperature sensor failure	Sensor failure/Connection is loose	
17E	Absorb temperature sensor failure	Sensor failure/Connection is loose	
18E	Water outlet temperature sensor failure	Sensor failure/Connection is loose	
19E	Return water temperature sensor failure	Sensor failure/Connection is loose	
20E	Outlet water temperature too high protection	Set too high target temperature, exceed heat pump max. operating temperature	
21E	Outlet water temperature too low protection	Set too low target temperature, heat pump will protect it from freezing	

## Initial Operation

### 1. Attention

- Fill the hot water storage tank, open shutoff valves to and from the heat pump and ensure that all air has been purged from the system before start up.
- After the power is switched on, ensure that the heat pump is functioning correctly and that no errors occur.
- Forced operation is forbidden.

### 2. Preparations before Starting the Heat Pump

- The system is installed correctly.
- Water pipes to and from the heat pump are secure insulated and not leaking.
- Shut off valves and "Y" strainer are installed as per SANS 1352
- Drainage of condensate has been tubed away from the heat pump.
- There is water
- Ground wire has been installed correctly
- The supply voltage meets the requirement of rated voltage.
- There are no obstructions in the air outlet (fan).
- Ensure the electrical leakage protector is working.
- Check if the water outlet temperature is acceptable.
- Check that the unit is secure and that any noise from vibration will be limited
- Check that any condensate from the unit does not cause a nuisance where it discharges.
- If a fault or error occurs on start up, refer to the trouble shoot page in this manual.

## Operation And Maintenance

**1. To ensure the longevity of your heat pump it should be checked and maintained Anually (every 12 months). Maintenance may only be carried out by SunScan authorised technician. During the maintenance, please pay attention to the following points:**

- Do not adjust user heating settings unless requested or advised, ensure the clock is set correctly
- Check all parameter settings to ensure safe and normal operation.
- Examine all electrical connections for dry joint and loose connections.
- Ensure all electrical components are functioning correctly, fan and compressor etc.
- Clean and examine all inline strainers/filters and replace if necessary, clean and remove any dirt and debris from evaporator coil, using suitable cleaning agents. Contact SunScan for further instructions.
- If parts require replacement, only original parts may be used.

### **2. Refrigerant filling**

**Note: Refrigerant filling may only be carried out by qualifed persons**

Examine the refrigerant guage, smaller units may require guage to be connected , check the exuast pressure and identify any possible leaks.

### **3. Leak detection safety:**

Never use oxygen, ethane or any other flammable or harmful gas to test for leaks.

### **4. To remove the compressor, please follow the following steps**

- Turn off the power supply
- Exhaust the refrigerant from the low pressure end, ensure to reduce the exhaust speed and avoid frozen oil leakage.
- Remove the compressor air suction and exhausting pipe.
- Remove the compressor power cables.
- Remove the compressor fixing screws.
- Remove the compressor.

### **5. Always retain proof of service history in order to retain any warranty benefits.**

•Fire prevention: if there is a fire, turn off the power to the unit immediately and extinguish the fire using fire extinguisher.

•The unit should be kept away from flammable liquids and materials.

• **Malfunction: if malfunction occurs, use trouble shoot to identify, eliminate the fault if possible and then restart the unit. Never force operation if the malfunction has not been eliminated, if refrigerant leakage or frozen liquid leakage occurs, turn off power to the unit and contact a qualified installer.**

## Technical Parameter

Model No.	SSD-0360410A	SSD-0540410A	SSD-0132410A
Power Supply	220V/50Hz	220V/50Hz	220V/50Hz
Heating Capacity at Air 20°C/15°C, Water Temperature from 15°C to 55°C			
Heating Capacity(W)	3602	5400	12000
Power Input(W) 876 1230			1754
COP	4.18	4.15	4.16
Max Power Input (W)	1350	2000	4680
Max Current(A)	6.8	9.0	23.0
Rated Hot Water(L/h)	80	120	285
Expansion Valve	R410A	R410A	R410A
Air Flow Direction	Electronic	Electronic	Electronic
Water Pump inside	Yes	Yes	Yes
Pressure Drop(kPa)	35	35	40
Net Dimensions(L*W*H) (mm)	936×385×550	936×385×550	986×420×798
Package Dimensions(L*W*H)(mm)	1100×520×740	1100×520×740	1180×560×815
Working temperature range(°C)	-7~43	-7~43	-7~43
Noise(dB)	53	49	53
Net Weight(kg)	50	54	70
Water connection(mm)	female 20	female 20	female 20

## Warranty

# PRODUCT WARRANTY

Solar Lifestyle cc T/a SunScan™ warrants this Product as follows:

PRODUCT:	WARRANTY PERIOD
SunScan Heat Pump	One (1) Year
Heat Exchanger	*LIMITED Five (5) Year
Compressor	*LIMITED Two (2) Year

**The product is covered for the indicated period from the date of purchase and is provided under the following conditions:**

• Heat pumps manufactured for and under the SunScan brand are warranted to the original user only to be free of defects in material and workmanship for a period of Twelve (12) months from date of sale. SunScans' liability under this warranty shall be limited to repairing or replacing at SunScans' option, without charge, F.O.B. SunScans' Warehouse or authorized service station, any Heat pump. SunScan will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured for or under the SunScan brand are subject to the warranty provided by the manufacturer of said products if any and not by SunScans' warranty. SunScan will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed by a suitably trained, registered installer in accordance with SunScans' printed installation and operation instructions. To obtain service under this warranty, the defective product must be returned to SunScan or a dealer of SunScan products from which it was purchased together with proof of purchase, serial number, Photographs of installation, installation date, failure date, and supporting installation data. Unless otherwise provided, the distributor or dealer will contact SunScan for instructions. Any defective product to be returned to SunScan must be sent freight prepaid; documentation supporting the warranty claim and/or a Return Authorization must be included if so instructed.

**Should the product require replacement or repair during this warranty period only the balance of the original warranty period will remain effective.**

**\*LIMITED Warranty**

The limited warranty carries a parts only limitation and in the event that within the limited warranty period such parts listed above require replacement. SunScans' liability under this warranty shall be limited to supply only without charge, F.O.B. SunScans' Warehouse or authorized service station. SunScan will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim.

Sunscan provides this limited warranty under the following conditions:

All Installation instructions provided by SunScan and all South African National Standards regarding the installation and maintenance of air source Heat pumps are adhered to

The Heat pump is serviced annually in accordance with the manufacturers recommendations by persons authorized to do so, and proof of service can be produced upon request.

**Warranty claims will not be considered if the defect in the product arises from:**

- Corrosion (An anti-corrosion treatment is recommended for all coastal installations)
- Installation Error
- inadequate service intervals
- Installation not compliant with South African National Standards 1352, 10254, 10252-1, 10142-1
- Electrical over-loading.
- Use of any unsuitable material that may cause or speed up the effects of chemical or electrolytic action.

**Register Warranty**

Product Serial: \_\_\_\_\_ Installation Date: \_\_\_\_\_ 2019

Installer: \_\_\_\_\_ Tel: \_\_\_\_\_ Sign: \_\_\_\_\_

Name and Surname: \_\_\_\_\_ Sign: \_\_\_\_\_

Please complete the above and email to [info@sunscan.co.za](mailto:info@sunscan.co.za) in order to retain the benefit of this warranty