

NOVA-PRO290 FULL INVERTER SWIMMING POOL HEAT PUMP

Installation and Instruction Manual





1300 787 978

supremeheating.com.au



Please read this manual carefully before installation, operation or maintenance.

CONTENTS

1. PREFACE ······	1
1.1. Symbol ······	1
1.2. Safety	1
1.3. Warning ·····	2
1.4. Attention	3
2. OVER VIEW OF THE HEAT PUMP	4
2.1. Transportation	4
2.2. Accessories ······	4
2.3. Technical Parameter ······	5
2.4. Dimension ·····	7
3. INSTALLATION INSTRUCTION	8
3.1. Installation Distance	8
3.2. Installation of Drain Hose ······	8
3.3. Installation of Water Connection	8
3.4. Installation of Water Pipe	9
3.5. Layout of Water System·····	9
3.6. Electric Installation ······	9
4. TESTING	11
4.1. Inspection ······	11
4.2. Trial Running	11
5. OPERATION ······	12
5.1. Icon and Key Description of Wire Controller	12
5.2. Operation Instruction of Wire Controller	14
5.3. Operation Instruction of Wi-Fi Function	20
6. MAINTENANCE AND WINTERIZING	
6.1. Maintenance	
6.2. Winterizing ······	31

1. PREFACE

Thank you very much for purchasing our heat pump. We sincerely hope that the product can provide you with a comfortable user experience. by starting, please read this manual thoroughly and keep it carefully for future usage and maintenance.

1.1. Symbol

Listed below are some important symbols that should be strictly followed.

	The refrigerant used in this equipment is flammable. Refrigerant exposure to an external source of ignition is possible to cause a fire hazard.
	Carefully read this manual before any operation.
i	This manual comes with critical information on installation, operation, and maintenance.
	Service personnel should refer strictly to this manual for the installation, operation, or maintenance of the equipment.

1.2. Safety

- a. Please keep the main power switch away from children and avoid children's contact.
- b. Please turn off the main power in thunderstorm weather to avoid equipment damage or short circuit.
- c. It is forbidden to light an ignition source near the equipment during its operation.
- d. If the refrigerant leakage occurs during installation or usage, any operation should be stopped immediately and a service man should be called for inspection.
- e. Do not put your fingers into the air vent. The fan running at high speed will cause serious injury.
- f. Do not touch the edges and fins to prevent from being cut.
- g. Do not operate this equipment with wet hands to prevent electric shock.
- h. For the safety of the user, it must be properly connected to the ground to prevent the risk of electric shock in case of leakage of electricity.
- i. Do not touch the refrigerant pipeline with your hands to avoid scald.

- j. If high-temperature work is to be performed on this product, appropriate fire extinguishing device, such as dry powder or carbon dioxide fire extinguishers, should be available.
- k. Do not clean the machine while the power is on. Please turn off the power before cleaning. Otherwise, it may cause injury due to the high-speed fan or electric shock.

1.3. Warning

- a. When welding is required for maintenance, make sure that the refrigerant is discharged from the refrigeration system before welding is carried out. Discharge and charging of refrigerant should be done in a ventilated environment.
- b. For repairs please contact a service man. The repair process must be done in strict accordance with this manual. All maintenance operations by non-professional personnel are prohibited.
- c. Misoperation may result in injury to personnel or damage to equipment.
- d. Please make sure that water flow is built up before starting the unit. It is forbidden to start this equipment before the water flow has been established. Otherwise, there is a risk of damage to this equipment.
- e. In winter or when the ambient temperature drops below 0°C, be sure to empty the water from the heat pump if it is not in use. Otherwise, the unit will be damaged by freezing, in which case your warranty will be voided.
- f. When there is a need to cut the power for repair, wait for 1 minute after power is off before touching the circuit board, to avoid capacitor discharge resulting in electric shock.
- g. The heat pump must be stored and transferred vertically in its original packaging. If this is not feasible, it cannot be operated immediately after it has been properly placed and must wait at least 24 hours before being powered on.
- h. This equipment is not intended for direct use by children. Children must be supervised by an adult while using it to ensure their safety.
- i. The correct power supply, voltage, and frequency must be confirmed before installation.
- j. Please connect the power cord accurately according to the wiring diagram in this manual to avoid burning the unit or catching fire.
- k. Improper installation may result in fire, electric shock, equipment falling, or water leakage.
- I. Make sure no water penetrates the electrical components.
- m. It is forbidden to store flammable, explosive, and toxic substances in the place where the unit is used to prevent accidents such as fire or explosion.
- n. Please do not place objects that will obstruct the airflow near the air inlet and outlet. Otherwise, it will affect the efficiency of the equipment and even cause the equipment to report malfunction and stop operation.
- o. Do not use any method to speed up the defrosting process or to clean the frosted parts, as this will cause risk of damage to the unit.

1.4. Attention

- a. Please examine the heat pump carefully and confirm whether the product has arrived in a good shape, with fixed screws, and a full range of accessories after you receive the product.
- b. Unpack the heat pump before formally installation by cutting the packing tape, taking off the packaging, and removing the bottom wooden pallet. Plastic packing bags and tapes should be properly handled, and do not let children play with them.
- c. If you suspect a refrigerant leakage, remove or extinguish all open flames around the equipment.
- d. Installation and maintenance of this product must be carried out in a well-ventilated area.
- e. Please install this equipment under local laws, regulations and standards.
- f. A circuit breaker must be installed between the equipment and the user's power supply.
- g. Check the surroundings of the cable to ensure that it is not exposed to abrasion, corrosion, crushing, sharp edges or any other adverse environment. The cable needs to be firmly connected to avoid loosening from constant vibration of compressor or fan, etc.
- h. It should be ensured that the equipment is firmly installed.
- i. If a leakage is found in the pipeline connected to the water inlet and outlet, the equipment needs to be shut down immediately.
- j. Set the proper temperature for a comfortable experience, either overheating or overcooling shall be avoided.
- k. To optimize the heating effect, please install thermal insulation on the water pipes.
- I. A pool insulation cover can be used during the heat pump heating process, which can help improve the heating efficiency of the heat pump.
- m. If a power failure occurs during operation, the heat pump will automatically restart when power is restored.
- n. When the heat pump does not operate properly or reports a fault code, stop operation and contact service personnel.
- o. Only use manufacturer-specified parts for replacement of components.

2. OVERVIEW OF THE HEAT PUMP

2.1. Transportation

a. When storing or moving the heat pump, always keep it in an upright position.



b. Do not lift up the water union when there is a need to move the heat pump, as it will damage the internal titanium heat exchanger.



2.2. Accessories

After opening the package, please check that you have all of the following accessories.



2.3. Technical Parameter

Table 1

Model No.		Novapro290-09 Novapro290-15		Novapro290-18
Advised Pool Volume	m³	20~45 40~70		40~80
Performance Condition: Air Temperature: 27°C, Inlet / Outlet Water Temperature: 26°C / 28°C, Humidity 80%				
Heating Capacity	kW	2.60~9.12 4.26~15.15 5.07~18.07		
Power Consumption	kW	0.16~1.49	0.26~2.46	0.31~2.98
СОР	w/w	16.25~6.12	16.38~6.15	16.35~6.06
Performance Condition: Air Temperature: 15°C, Inlet Water Temperature: 26°C, Humidity 70%			lumidity 70%	
Heating Capacity	kW	1.83~6.84	3.09~11.28	4.06~13.33
Power Consumption	kW	0.28~1.48	0.48~2.49	0.64~2.97
СОР	w/w	6.54~4.62	6.43~4.53	6.34~4.48
Power Supply	/	220-240V~/50Hz		
Operating Air Temperature	°C		-25~43	
Refrigerant	/		R290	
Fan Motor Type	/		DC	
Water Connection	mm		48.3	
Noise Level (1m)	dB(A)	34~44.5	38~47.5	38.5~49
Max. Power Input	kW	2.3	3.9	5
Max. Current	А	10.5 18.0 22.6		22.6
Advised Water Flow	m³/h	4.0 6.5 8.0		8.0
Water Pressure Drop	kPa	13	18	20

Table 2

Model No.	Model No. Novapro290-21 No		Novapro290-21 Novapro290-25	
Advised Pool Volume	m³	50~95 55~110		65~120
Performance Condition: Air Temperature: 27°C, Inlet / Outlet Water Temperature: 26°C / 28°C, Humidity 80%				
Heating Capacity	kW	6.05~21.18	7.30~25.11	7.79~28.03
Power Consumption	kW	0.37~3.44	0.45~4.15	0.48~4.59
СОР	w/w	16.35~6.16	16.22~6.05	16.22~6.11
Performance Condition: Air Temperature: 15°C, Inlet Water Temperature: 26°C, Humidity 70%			lumidity 70%	
Heating Capacity	kW	4.19~14.40	5.04- 17.13	5.19~18.53
Power Consumption	kW	0.65~3.20	0.79~3.79	0.80~4.05
СОР	w/w	6.44~4.50	6.38~4.52	6.49~4.57
Power Supply	/	220-240V~/50Hz 380-415V		380-415V/3N~/50Hz
Operating Air Temperature	°C		-25~43	
Refrigerant	/		R290	
Fan Motor Type	/		DC	
Water Connection	mm		48.3	
Noise Level (1m)	dB(A)	39~49.5	40~50	41~51
Max. Power Input	kW	5.5	5.8	6.9
Max. Current	А	25.8	26.7	22.0
Advised Water Flow	m³/h	9.5 11.0 12.0		12.0
Water Pressure Drop	kPa	35	35	38

2.4. Dimension



Dimension Indication (unit: mm)

Model	Α	В	С	D	E	F	G
Novapro290-09	1000	460	656	752	436	300	97
Novapro290-15	1055	490	750	819	466	430	97
Novapro290-18	1110	520	800	074	510	520	107
Novapro290-21	1110	530	800	874	510	520	107
Novapro290-25	1020	550	1200	704	520	620	107
Novapro290-28T	1030	550	1200	794	530	020	107

3. INSTALLATION INSTRUCTION

3.1. Installation Distance

The heat pump should be installed in a well-ventilated area. It should be installed in the place greater than the following distances:



3.2. Installation of Drain Hose

The drain hose needs to be installed in the following manner to the location of the corresponding drainage outlet at the bottom of the heat pump.



3.3. Installation of Water Connection



3.4. Installation of Water Pipe

Use hard pipes rather than soft pipes to connect the water union. Soft pipes will increase the resistance of the pipeline.



3.5. Layout of Water System

The filter must be routinely cleansed to keep the water in the system clean and to avoid filter clogging. If the operating ambient temperature is below 0° , please keep the water pump running.

The installation schematic is shown below:



3.6. Electric Installation

a. Attention

For safe operation and to maintain the integrity of the electrical system, the equipment must be connected to a common power supply in accordance with the following provisions:

① The heat pump must be connected to a suitable circuit breaker according to the standards and regulations in force in the country/region where the system is installed.

② The supply cable must be adapted to the rated power of the equipment and the wiring length required for the installation. The cable must be suitable for outdoor use.

③ For three-phase systems, the phases must be connected in the correct sequence. If the phases are reversed, the compressor of the heat pump will not work.

④ In places open to the public, an emergency stop switch must be installed near the heat pump.

Model	Power Supply	Cable Specification
Novapro290-09	220-240V~/ 50Hz	3G 1.5mm²
Novapro290-11		3G 1.5mm²
Novapro290-15		3G 2.5mm²
Novapro290-18		3G 2.5mm²
Novapro290-21		3G 4.0mm²
Novapro290-25		3G 4.0mm²
Novapro290-28T	380-415V/3N~/50Hz	5G 2.5mm²

b. Electricity Connection

WARNING: The heat pump must be disconnected from the power supply before any operation. Please follow the instructions below to connect the heat pump.

Step 1: Remove the side panel of the equipment with a screw driver for wire connection.

Step 2: Connect the cable wires to the corresponding ports of the heat pump according to the diagram below.



4. TESTING

WARNING: Check all wiring carefully before turning on the heat pump.

4.1. Inspection

Before trial running, verify that the following items are complied with.

- a. The heat pump is installed properly.
- b. The power supply voltage is the same as the rated voltage of the unit.
- c. Leakage protector is working normally.
- d. Piping and Wiring are connected correctly.
- e. The ground wire is connected correctly.
- f. The air inlet and outlet of the unit are unobstructed.
- g. Smooth drainage and no water leakage.
- h. Pipe insulation is completed.
- i. Air in the pipe has been evacuated.

4.2. Trial Running

Step 1: The user must turn on the water pump first and then turn on the heat pump. Turn off the heat pump first, and then turn off the water pump. Otherwise the machine will be damaged.

Step 2: Before starting the heat pump, check for any leaks of water and set the proper temperature, then turn on the power.

- Step 3: Items to check during trial running.
- 1 Whether the electric current is normal.
- ② Whether there's leakage of the whole gas system.
- ③ Whether the buttons of the controller are normal.
- ④ Whether the display screen is normal.
- ⑤ Whether there is abnormal noise or vibrations during operation.
- ⁽⁶⁾ Whether the condensate drainage is normal.

5. OPERATION

5.1. Icon and Key Description of Wire Controller



5.1.1. Icon Description

No.	lcon	Meaning of Icon Function Description	
1		Smart Mode It will display under Smart M	
2		Silent Mode It will display under Silent	
3		Boost Mode	It will display under Boost Mode.
4	×	Heating Mode	It will display under Heating Mode.
5	举	Cooling Mode	It will display under Cooling Mode.
6	ALK ALK	Defrosting Mode	It will display under Defrosting Mode.
7	\bigcirc	Auto Mode	It will display under Auto Mode.
8)_()_()_()_()_()_()_()_()_()_()_()_()_()	Clock/Timer/Parameter	Clock Display/Timing On- Off/Parameter
9	(!)	Fault Display	It will display when faults occur.

10	\$ \$ \$ [0000]	Electric Heater Icon	It will display when electric heating is on.
11	(((•	Wi-Fi Connection	It will flash during Wi-Fi connecting and display after successfully connected.
12	f	Locked	It will display if the wire controller is locked.
13	Ĵ	Degree Celsius	It will display when the temperature is set to be in Degree Celsius.
14	°F	Degree Fahrenheit	It will display when the temperature is set to in Degree Fahrenheit.

5.1.2. Key Description

No.	Кеу	Key Meaning Function Description	
1	M	Mode 1	Short press to switch between auto/cooling/heating modes when the
2	*	Mode 2	Switch to Smart/Silent/Boost Mode
3		Up	Increase the Setting Value
4		Down	Decrease the Setting Value
			Short press to turn On/Off the heat
5	((1))	Power	pump. Long press 3 seconds to
			lock/unlock the wire controller.

5.1.3. Combination Keys Description

No.	Combination Keys	Function Description
1	Long Press "M" and " " for 2 Seconds	Enter Parameter Checking Interface
2	Long Press " 📀 " and " 文 " for 2 Seconds	Enter Timer Setting Interface
3	Long Press" M " and " * "for 3 Seconds	Search for a Wi-Fi Signal and Connect to Wi-Fi

5.2. Operation Instruction of Wire Controller

5.2.1. Power



mode, " C " and " 🔆 " will be displayed.

b. Smart/Silent/Boost



When the heat pump is on, short press " " or " " keys to adjust the setting temperature under current mode. Press " " or " " v " keys and hold longer than 0.5 seconds for rapid adjustment.

5.2.4. Wi-Fi Connection



5.2.5. Check Operating Parameters

(1) Enter Parameter Checking Interface: Long press "M" and "V" together for 2 seconds to enter the parameter checking interface. Parameter code is shown in the timing display area, and parameter content is shown in the temperature display area.

(2) Parameter Checking Method: After entering the parameter interface, short press " " or " " to check the operating parameters. Short Press " " to exit the interface, or it exits automatically if no operation for 60 seconds.

Operating Parameter List

Code	Parameter Name	Unit	Scope	Remark
01	Practical frequency of inverter compressor	Hz	0~150	
02	AC current	А	0~50	
03	AC voltage	V	0~300	
04	DC voltage	V	0~500	
05	Inlet water temperature	°C	-30~150	
06	Outlet water temperature	°C	-30~150	
07	Water tank temperature	°C	-30~150	Not for pool heat pump
08	Tube in shell heat exchanger temperature	°C	-30~150	Not for pool heat pump
09	Outdoor coil temperature	°C	-30~150	
10	Outdoor ambient temperature	°C	-30~150	
11	Gas suction temperature	°C	-30~150	
12	Gas exhaust temperature	°C	0~150	
13	Water inlet temperature of plate heat exchanger	°C	-30~150	Not for pool heat pump
14	Outlet water temperature of titanium heat exchanger	°C	-30~150	Not for pool heat pump
15	Step of electronic expansion valve in main circuit	Р	0~500	Number of pulses
16	Step of electronic expansion valve in auxiliary circuit	Р	0~500	Not for pool heat pump
17	IPM (driver module) temperature	°C	0~150	Reserved (default value: -30)
18	DC fan motor speed	RPM	0~900	

5.2.6. Faults Display

When the fault occurs, the corresponding fault codes flash in the timing area and the icon



appears. After the fault is eliminated, the fault codes and icon "



16

Fault Code List

Fault code	Description	Remark
E01	IPM (driver module) protection	
E02	AC voltage over/shortage protection	Input voltage inspection
E03	AC current over high protection	
E04	Gas exhaust temperature over high protection	
E05	Outside coil temperature over high protection	
E06	Compressor drive protection	
E07	Ambient temperature sensor fault	
E08	Outside coil temperature sensor fault	
E09	Gas exhaust temperature sensor fault	
E10	Bus voltage over/shortage protection	Voltage protection after rectification
E11	Current sensor fault	
E12	Compressor driver communication fault	
E13	DC fan motor fault	
E14	Gas suction temperature sensor fault	
E15	Driver's EE fault	
E16	Main control board's EE fault	
E17	Low pressure protection	
E18	High pressure protection	
E19	IPM temperature over high protection	
E20	Power off suddenly	Automatic power on after recovery
E21	Evaporation temperature (T2) over low protection	
E22	Communication error between wired controller and main control board	
E23	Phase-shortage protection	
E24	Inlet water temperature sensor fault	

E25	Outlet water temperature sensor fault	
E26	Water flow switch fault	
E27	Inadequate water flow protection	
E28	Outlet water temperature over high protection at heating mode	
E29	Outlet water temperature over low protection at cooling mode	
E30	Evaporation temperature sensor (T2) fault	
E33	PFC hardware F0 error	Driver error
E34	PFC software over current protection	Driver error
E35	Compressor step-lost	
E37	Compressor startup failure	

5.2.7. Clock Setting

(1) Enter Clock Setting: Long press the " 💽 " key for 3 seconds till the digit in hour part flashes,

and then it will enter the clock setting interface.

(2) Clock Setting Method: Flashing means adjustable. When the digit in hour area is flashing, press



interface.

5.2.8. Power ON/OFF Timer Setting

(1) Users can set up two groups of ON/OFF timers with adjustable ON and OFF time respectively. If the timer of power ON and OFF are set to the same, the setting will become invalid.

(2) Power ON/OFF Timer Setting Method



(5) Cancel Timing ON/OFF Setting: When entering timer group no.1(or no.2) setting interface, long press " (())" for 3 seconds to cancel the timer group no.1(or no.2).

5.3. Operation Instruction of Wi-Fi Function

5.3.1. APP Download

Search "Smart Life" or directly scan below QR code to download.



Note: For Android mobiles, "Download apps from external sources" should be activated, as below shows:

	← More settings
	Set up SIM lock
	Show passwords
	Show characters briefly as you type passwords.
	Device administrators
	Encryption and credentials
	Download apps from external ources
	Install apps from external sources
	Allow connection via HDB HDB lets you manage your device from a computer without turning on USB
Open the APP and enable the authorization of its positioning.	Note Using apps from unknown sources will leave your device and personal data more vulnerable to security threats.
	CANCEL

5.3.2. User Registration

(1). New users need to register at the first time use.

(2). Finish your registration according to the instruction.



5.3.3. User Login

Select your location, enter the account name and PIN, and need to agree the Privacy Policy.

China	
China	User Agreement and Privacy Policy
	We understand the importance
Please enter your account	of privacy. In order to more fully
	present our collection and use of
Dessured	your personal information, we have
Password	agreement in detail in accordance
	with the latest laws and regulations.
	When you click [Agree], you have full
	read, understood and accepted all of
	Agreement. Please take some time
Forgot Password	to become familiar with our privacy
	policy, and if you have any questions,
	please feel free to contact us.
	Privacy Policy and User Agreement

Connect your smartphone to the available Wi-Fi (the same Wi-Fi source as the heat pump device connects). And also keep your smartphone Bluetooth open in the meanwhile.



Ensure your smartphone Location Services remain "On" and also turn on "Allow Apps to Request to Track" :

		10:35	лI 🕈 🖬
		Privacy Location Service	vices
		Location Services	
		Location Alerts	>
35 ettings Privacy	.ul 🕈 🗺	Location Services uses GPS, Blue sourced WLAN hotspot and mobil locations to determine your appro Location Services & Privacy	tooth, and crowd- e phone mast ximate location. About
Location Services		Share My Location	>
Tracking			
Tacking		App Clips	>
ontacts	>		
endars	>	10:41	.ul 🕈 🖬
minders	>	Privacy Tracking	I
tos	>		
etooth	>	Allow Apps to Request to T	rack
al Network	>	Allow apps to ask permission to tr and websites owned by other com don't ask permission may still true	ack you across apps panies. Apps that to track you Learn
icrophone	>	more	to track you. confi
		NatEase Music	

5.3.4. Add Device

Tap "+" at the right upper corner, or tap "Add device" button to add the smart devices you want to connect.



Select "Others" to enter the "Add Manually" interface. And then select "Others (Wi-Fi)".

- II ?	14:0	09	2 97% 2		- II ?	14:0	09	2 97% 5
<	Add Manually	Auto Scan	3		<	Add Manually	Auto Scan	Ξ
Electrician					Electrician			
Lighting	Gateway	Gateway	Others		Lighting	Gateway	Gateway	Others
Large Home Ap	24.9	••	1 1		Large Home Ap	**		11
Small Home Ap	Gateway (Bluetooth)	Wireless Gateway	Smart Home Automation Hub		Small Home Ap	Gateway (Bluetooth)	Wireless Gateway	Smart Home Automation Hub
Kitchen Appliances	Connecor (Wi-Fi)	Story Machine	Plant Grower		Kitchen Appliances	Connecor (Wi-Fi)	Story Machine	Plant Grower
Security & Sensors				V	Security & Sensors			
Exercise & Health	Universal Remote Control	Others(Wi-Fi)	Others (ZigBee)		Exercise & Health	Universal Remote Control	Others(Wi-Fi)	Others (ZigBee)
Others				1	Others			
	Others (NB)	Others (Bluetooth)	Smart Speaker (Bluetooth)			Others (NB)	Others (Bluetooth)	Smart Speaker (Bluetooth)

Then enter this below interface and need to input Wi-Fi account & Wi-Fi password (the same Wi-Fi source as the heat pump device connects):

After inputting above information , tap the "Next" button.

11:18 - Cancel	al ≎ ■	
Select 2.4 and en If your Wi-Fi is 2.4GHz. Common roo	uter setting method	
× Wi-Fi - 5Ghz ✓ Wi-Fi - 2.4Ghz	a 🗢 🛈	
🔶 WiFi	4	
₿ ******	ø	
Ne	xt	

5.3.5. Connection

When you enter this interface , please tap button below.



Then, operate the controller of heat pump like this below :

Using your fingers to press on these two buttons M and at the same time until the "Wi-Fi" icon starts flashing.



Scene 1:

If the icon of Wi-Fi flashes <u>slowly</u> on heat pump controller, please tap the "Blink Slowly" button on your mobile phone.



Enter into this interface and then tap the button below.

22:31	9	.∥ © ∎)
Conr the c	nect your mobile p levice's hotspot	phone to
O Conr below:	nect your phone to the hots	pot shown
	WLAN	
	✓ SmartLife-XXXX	
	✓ SL-XXXX	
🛛 Go b	ack and add devices.	
	Go to Connect	
-		

Select the WLAN source of "SmartLife-XXXX" ("XXXX" will be random combination of letters and numbers). And then get back to the Smart Life app.

22:31 🕇	📲 5G 🔳
Settings WLAN	
WLAN	
SmartLife-CC26 Unsecured Network	? (j)
MY NETWORKS	
0759	ê @ 🚺
WiFi	ê 🗟 i
OTHER NETWORKS	
ChinaNet-3dG7	🔒 🗢 i
ChinaNet-ea9J	l
ChinaNet-f4dF	🔒 🤶 🚺
ChinaNet-hD3k	ê 🤶 🚺
GNC789	🔒 🗢 🚺
GNC7895G	🔒 🗢 i
WiFi_5G	ê (j)
Other	
Appellising Wilder	_
76	- /

When below page comes up, it means your mobile phone is searching the hot spot signal from heat pump controller.



When this page comes up, it means the connection is successful. Then tap the "done" button to enter the Wi-Fi control interface.



Scene 2:

If the icon of Wi-Fi flashes <u>rapidly</u> on heat pump controller, please tap the "Blink Quickly" button on your mobile phone.



Enter into this interface and then tap the following "+" button. After the connection is successful, tap the "done" button to enter the Wi-Fi control interface.

21:33 🕈				21:33 🕫		al 🗟 🗖			21:35 🖈		al 🕈	•
A	dd Device	Done			Add Device	Do	ne			Add Device		Done
1 device(s) being added				1 device(s) be	ing added				1 device(s) added succ	cessfully		
Swimmi Tap to add	ng Pool Heat Pump d this device	•		•	Swimming Pool Heat Po Being added	ump			Swim	ming Pool Heat Pun successfully	qr	Ζ.
			N					N				
			r					V				





5.3.7. Share Device to Your Family Members

After connection, if your family members also want to control the heat pump, please let them register "Smart Life" first, and then the administrator can operate as below to share the device:

21:36 🕫 💼	21:36 1		21:36 🕈	al 🕈 🔳
< Swimming Pool Heat Pump	<		< Sha	re Device
	Swimming Pool Heat Pump		When the device is not co person with whom you ha able to control the device	onnected to the network, the ve shared the device may not be
•	Device Information >		Swimming Pool Heat Pur	p has not been shared
	Tap-to-Run and Automation			
	Others	N		
	Share Device >			
Current Temp. 26.4°C	Create Group	\neg		
	FAQ & Feedback			
	Add to Home Screen			
- Set Temperature +	Check Device Network Check Now >			
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Remark: The app is subject to updates without notice.

6. MAINTENANCE AND WINTERIZING

6.1. Maintenance

WARNING: Make sure the power supply is cut off before any maintenance work is performed on the unit.

1 Cleaning

a. Please clean the machine with household cleaners or water. Do not use gasoline, thinner or any similar fuel.

b. The finned-tube heat exchanger at the rear of the heat pump must be carefully cleaned using a vacuum cleaner and soft brush.

(2) Annual Maintenance

The following operations must be performed by qualified personnel at least once a year. Do not attempt to work on the equipment by yourself. Improper operation may cause danger.

- a. Conduct safety checks.
- b. Check the connection and integrity of the wires.
- c. Check the bolts and screws for looseness.
- d. Check the ground connection.
- e. Monitor for refrigerant leaks.

6.2. Winterizing

WARNING: Cut off the power supply of the heat pump before cleaning, inspecting and repairing.

In winter when you don't swim:

a. Cut off the power supply to prevent any damage to the unit.

b. Drain the water from the machine. Unscrew the water connection of the inlet pipe and let the water flow out. When water freezes in the machine in winter, it may damage the titanium heat exchanger.

c. Cover the heat pump with a winter cover when not in use.





OPERATION & INSTALLATION INSTRUCTIONS



Heatseeker NovaS & Heatseeker NovaPro series heat pumps use a 240V relay and are compatable with NovaSwitch & NovaLink accessories only. These are to be installed by a qualified electrician. Previous generation VortexSwitch & VortexLink controllers are NOT compatable.

DESCRIPTION

A plug and play option for heat pump systems with independent circulation pumps. Can be fitted during the installation of the heat pump.

OPERATION

The NovaSwitch is designed to switch a 240Vac pump maximum rated to 10 Amps 2400 watts from the switch inputs. This unit is designed to be plugged into a general power outlet and the heating priority connections on the heat pump.

HEATING PRIORITY

The heat pump is designed to heat or cool the water of the pool only when the water circulates through it. By connecting the NovaSwitch to the heat pump, and then the circulation pump to the NovaSwitch, the heat pump will control when the circulation pump is run. This system allows the heat pump to maintain the set-point temperature in either heating or cooling mode.

Every 30 minutes, the circulation pump is started for 2 minutes to sample the water temperature. If after 2 minutes, the temperature of the water is below/ above the required set-point temperature (depending if in heating or cooling mode), the circulation pump will be turned off for a further 30 minutes before sampling the water temperature again.

If the heat pump senses that the water has cooled/heated below/above the temperature set-point, the circulation pump and the heat pump will continue to operate until the desired set-point temperature is reached.

By following the instructions in the heat pump instruction manual, setting a start and stop time will ensure that the heat pump is not sampling the water temperature and running throughout the night.



INSTALLATION INSTRUCTIONS

Mounting

Find a suitable location to mount the NovaSwitch box. Ideally as with all pool equipment it should be installed out of direct weather and no closer than 3m from the water's edge and a minimum of 600mm above ground. Lift up the two mounting tabs and use two appropriate screws to mount the NovaSwitch box to the wall, keeping in mind that the power cable is 1.8m long and should be plugged directly into a general power outlet, not into an extension lead.

Pump

The circulation pump plugs into the 240V outlet beneath the NovaSwitch.

Heating Priority



Must be installed by an electrician.

Connect the heat pump control cable from the NovaSwitch to the heat pump, refer to the heat pump manufacturer's instructions and the below diagram for the appropriate connection and note that damage caused by incorrect connections will void warranties.



WARRANTY

This range of product is covered by a limited 2 year warranty against component failure or faulty workmanship from the date of installation.

Faulty units should be returned in the first instance to the dealer from which the unit was purchased.

Damage to the unit due to misuse, power surges, lightning strikes or installation that is not in accordance with the manufacturer's instruction may void the warranty. Warranty does not include on-site labour or travel costs to or from installation site.

Customer Record. (To be retained by the customer)

Dealer/Installer Name	 	
Serial Number	 	
Date Installed	 	



OPERATION & INSTALLATION INSTRUCTIONS



Heatseeker NovaS & Heatseeker NovaPro series heat pumps use a 240V relay and are compatable with NovaSwitch & NovaLink accessories only. These are to be installed by a qualified electrician. Previous generation VortexSwitch & VortexLink controllers are NOT compatable.

DESCRIPTION

An all in one system for autonomous control of heat pumps in line with the filtration system. This unit permits the heat pump to run outside of filtration hours set by sanitation timers allowing for full automatic heat demand.

OPERATION

The NovaLink is designed to switch a 240Vac pump rated to 10 Amps 2400 watts from the switch inputs. This unit is designed to be connected to a chlorinator and the outputs from heat pumps. NovaLink is fitted with an LCD screen which displays whether the pump is on and whether the chlorinator or heat pump is demanding the pump to be operating.

HEAT DEMAND

A heating device, whatever it is, is designed to heat the pool water only when the water circulates. Most of the time, a pool is filtered between 4 and 8 hours a day. But such a time sometimes is not sufficient to maintain the water at the desired temperature, depending on the seasons. This is the reason why the heat pump is equipped with the "sample" function that will manage the temperature of the pool. Every hour (times vary depending on the heat pump model) the filtration pump is started for 5 minutes. If after 5 minutes, the temperature of the water is above the required temperature, the filtration turns off for one more hour. Otherwise, the filtration and the heat pump are going to keep operating until the desired temperature is reached.



INSTALLATION INSTRUCTIONS

Mounting

Find a suitable location to mount the NovaLink box. Ideally, as with all pool equipment, it should be installed out of direct weather and no closer than 3m from the water's edge and a minimum 600mm above ground. Fix the mounting bracket to a solid structure and slide the NovaLink on, keeping in mind that the power cable is 1.8m long and should be plugged directly into a general power outlet, not into an extension lead.

Pump

The filtration pump plugs into the 240V outlet beneath the NovaLink. (Marked pump on the controller face).

Heat Demand



Must be installed by an electrician.

Connect the Heat Control cable from the controller to the following points for the appropriate heat pump. The relay must be enclosed within the heater. Damage caused by incorrect connections will void warranties.

Connections for compatible Nova heat pumps are:



WARRANTY

This range of product is covered by a limited 2 year warranty against component failure or faulty workmanship from the date of installation.

Faulty units should be returned in the first instance to the dealer from which the unit was purchased.

Damage to the unit due to misuse, power surges, lightning strikes or installation that is not in accordance with the manufacturer's instruction may void the warranty. Warranty does not include on-site labour or travel, freight/postage costs to or from installation site.

Customer Record. (To be retained by the customer)

Dealer/Installer Name _	
Serial Number	
Date Installed _	



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