Quick Reference Card

in.temp

A new way to regulate the water of your spa

Plug and play solution

Benefit from energy savings

A total flexibility that can also cool down water

GECKO®

Connections

Turn off power before connecting the in.temp to the spa control system.

System connection

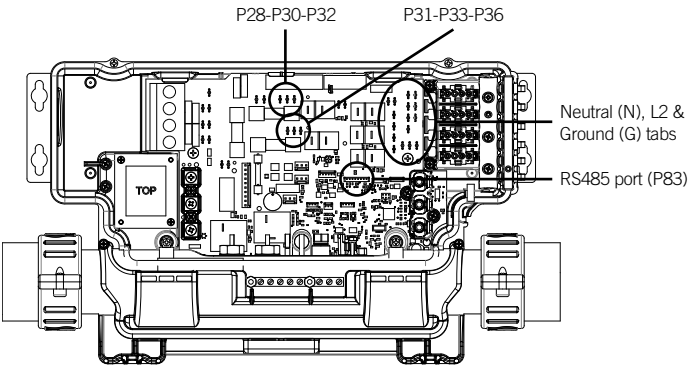
The communication cable provided with the heat pump must be connected to the RS485 communication port of the spa control.

The power cable connects to the spa control using 6,35 mm (0,250") quick connect female terminals. Ensure that all female terminals are correctly and completely seated on the printed circuit terminals for proper current ratings.

The connection must be done according to the following tables:

CE Model	
Brown	Main line P28, P30 or P32 tab (F2)
Blue	Any Neutral (N) tab
Green/Yellow	Any Ground (G) tab

NA* Model	
Black	Main line P31, P33 or P36 tab (F3)
White	Any Line 2 (L2) tab
Green	Any Ground (G) tab



in.ye control system

Terminal box

The terminal box is located behind the terminal cover and allows access to the communication and power connections.

Signal	220 V~240 V, 50 Hz			12V		RS-485	
Terminal ID	L	N	⏚	+	-	B	A
Wire color	Brown	Blue	Green/ Yellow	Red	Black	Green	White

Power cable (CE)
9920-401529 (5 m/16 ')
9920-401530 (10 m/33 ')

Communication cable
9920-401527 (5 m/16 ')
9920-401528 (10 m/33 ')

Signal	240 V ± 5%, 60 Hz			12V		RS-485	
Terminal ID	L	N	⏚	+	-	B	A
Wire color	Black	White	Green	Red	Black	Green	White

Power cable (NA*)
9920-401532 (5 m/16 ')
9920-401531 (10 m/33 ')

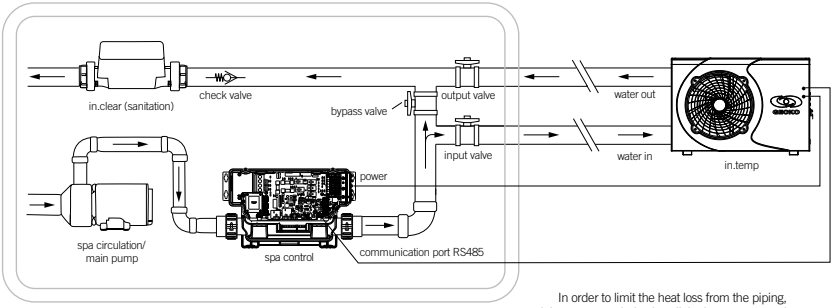
Communication cable
9920-401527 (5 m/16 ')
9920-401528 (10 m/33 ')

**North American*

Installation

Piping

A bypass, consisting of three valves, must be installed to adjust water flow to the in.temp and to isolate the apparatus for maintenance purpose. For a more stable flow in the heat exchanger, it is recommended to install the in.temp on the pressure side of the main pump.



spa equipment bay

In order to limit the heat loss from the piping, it is recommended to install the heat pump as close as possible to the spa. A 16 foot (5 m) cord is provided.

If your installation is equipped with a water treatment system (chlorine, bromine, salt, etc.) the bypass must be installed before the water treatment, with a check valve between the bypass and water treatment system

Valves location

If you are in a cold climate country and plan to shutdown the in.temp alone on the winter season, keeping your spa working, you should install all of the valves inside the spa skirt. If the valves are outside and no circulation of water occurs, the water in the pipes may freeze and break them.

Operating modes

Eco Heat (EcoH)

In this mode, the in.temp is used as the unique source of heating. The heating element is kept off and the in.temp is not used to cool the water should its temperature rise above the current set point.

Smart Heat (HEAT)

This mode uses the in.temp as the main heating source. The heating element is turned on only if there is a large temperature difference between the water and the set point. The in.temp is not used to cool the water in this mode.

Cool (COOL)

This mode uses the in.temp in cooling mode only. The in.temp is not used as a heating source and the heating element is never activated.

Eco Auto (AUTO)

This mode borrows functionality from both Eco Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is never activated in this mode.

Smart Auto (SMRT)

This mode borrows functionality from both Smart Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is activated only if there is a large temperature difference between the water and the set point.

Electric (ELEC)

This mode keeps the heat pump off and uses only the heating element to regulate water temperature.

Troubleshooting

Error codes

If a protection kicks in or if an error is detected in the heat pump, an error code will be reported on the spa keypad. If more than one error is detected, only the error with the highest priority will be displayed.

All error codes are listed below in priority order.

Error code	Error description
HP99	Communication error
HP05	Coil temperature sensor failure
HP18	Water outlet temperature sensor failure
HP42	Compressor high pressure protection
HP46	Compressor low pressure protection
HP41	Water flow protection
HP01	Compressor exhaust temperature sensor failure
HP19	Water inlet temperature sensor failure
HP09	Compressor return gas temperature failure
HP22	Ambient temperature sensor failure
HP65	Ambient temperature too low protection
HP55	Water inlet/outlet temperature difference protection
HP51	Compressor exhaust temperature too high protection
HP63	Water outlet temperature too low protection when defrosting
HP56	Water outlet too cold for cooling

Specifications

CE models	**5kW (Part # 0615-807002)**	**7.5kW (Part # 0615-807003)**
Best efficiency flow rate:	2,35 M³/h (10 GPM)	3,3 M³/h (15 GPM)
NA* models	**5kW (Part # 0615-807000)**	**7.5kW (Part # 0615-807001)**
Best efficiency flow rate:	2,35 M³/h (10 GPM)	3,3 M³/h (15 GPM)

**North American*

For complete TechBook or more information, see: www.geckointemp.com

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