



TechBook

in.yj

Small package, zero compromise!



Full-size heater

Field convertible 240 V to 120 V

Easy spa integration





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Warnings



WARNINGS:

Before installing or connecting the unit, please read the following.

- * FOR UNITS FOR USE IN OTHER THAN SINGLE-FAMILY DWELLINGS, A CLEARLY LABELED EMERGENCY SWITCH SHALL BE PROVIDED AS PART OF THE INSTALLATION. THE SWITCH SHALL BE READILY ACCESSIBLE TO THE OCCUPANTS AND SHALL BE INSTALLED AT LEAST 5' (1.52 M) AWAY, ADJACENT TO, AND WITHIN SIGHT OF THE UNIT.
- * ANY DAMAGED CABLE MUST BE IMMEDIATELY REPLACED BY QUALIFIED PERSONNEL.
- * TURN POWER OFF BEFORE SERVICING OR MODIFYING ANY CABLE CONNECTIONS IN THIS UNIT.
- * TO PREVENT ELECTRIC SHOCK HAZARD AND/OR WATER DAMAGE TO THIS CONTROL, ALL UNUSED BUSHING CONDUITS MUST BE PLUGGED WITH THE ATTACHED NIPPLE.
- * THIS CONTROLLER MUST NOT BE INSTALLED IN PROXIMITY OF HIGHLY FLAMMABLE MATERIALS.
- * LOW SUPPLY VOLTAGE OR IMPROPER WIRING MAY CAUSE DAMAGE TO THIS CONTROL SYSTEM. READ AND FOLLOW ALL WIRING INSTRUCTIONS WHEN CONNECTING TO POWER SUPPLY.
- * THIS PACK CONTAINS NO USER SERVICEABLE PARTS. CONTACT AN AUTHORIZED SERVICE CENTER FOR SERVICE.
- * ALL CONNECTIONS MUST BE MADE BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY STATE, PROVINCIAL OR LOCAL ELECTRICAL CODE IN EFFECT AT THE TIME OF THE INSTALLATION.
- * PRODUCT MUST BE DISPOSED OF SEPARATELY IN ACCORDANCE WITH LOCAL WASTE DISPOSAL LEGISLATION.
- * THIS APPLIANCE IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.
- * CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.
- * MEANS FOR DISCONNECTION MUST BE INCORPORATED IN THE FIXED WIRING IN ACCORDANCE WITH THE WIRING RULES.
- * CAUTION: IN ORDER TO AVOID A HAZARD DUE TO INADVERTENT RESETTING OF THE THERMAL CUT-OUT, THIS APPLIANCE MUST NOT BE SUPPLIED THROUGH AN EXTERNAL SWITCHING DEVICE, SUCH AS A TIMER, OR CONNECTED TO A CIRCUIT THAT IS REGULARLY SWITCHED ON AND OFF BY THE UTILITY.
- * PARTS CONTAINING LIVE PARTS, EXCEPT PARTS SUPPLIED WITH SAFETY EXTRA-LOW VOLTAGE NOT EXCEEDING 12 V, MUST BE INACCESSIBLE TO A PERSON IN THE BATH OR SPA.
- * PARTS INCORPORATING ELECTRICAL COMPONENTS, EXCEPT REMOTE CONTROL DEVICES, MUST BE LOCATED OR FIXED SO THAT THEY CANNOT FALL INTO THE BATH OR SPA.
- * PARTS ARE TO BE INSTALLED IN THE CORRECT ZONE AND EQUIPOTENTIAL BONDING CARRIED-OUT IN ACCORDANCE WITH THE WIRING RULES.
- * CLEARANCE AND MINIMUM DISTANCE BETWEEN THE VARIOUS PARTS OF THE APPLIANCE AND THE SURROUNDING STRUCTURE ARE NOT SPECIFIED AS LONG AS THEY ARE SUFFICIENT SO THAT THE AMBIENT TEMPERATURE AROUND THE CONTROLLER DOES NOT EXCEED 60°C

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Introduction



in.yj

small package, zero compromise

Say hello to the newest member of the Y Series! The in.yj's size makes it easy to install in your small footprint spa, without losing out on functionality and options.

It also offers total heating flexibility. The pack can be bought on its own for use in a heat recovery system (in.yj-re), or bundled with the compact heat.wav-yj heater for efficient heating in any space.

Like all Y Series packs, the in.yj is compatible with our in.k series of keypads. And what's more, the Y Series also takes into account future compatibility, so you can have peace of mind knowing that you can enjoy the Y Series for years to come.



Features

The Y Series systems boast a long list of technical features. Each of them contributes to bringing the most advanced solutions available to Y Series equipped spa owners:



in.seal
watertight protection

In.seal provides an extra level of protection against water infiltration. Connectors and power box are designed to be watertight so that no water can be in direct contact with electrical components (IPX5).



in.flo
dry-fire protection

in.flo is an all-electronic dry-fire protection that is built in to the remote heat.wav heater. The in.flo eliminates the burden of adjustments, calibrations and failures associated to usual water flow sensors.



in.stik
automated software upload

The in.stik is a pen drive with an in.link connector very similar to a USB memory stick. It connects to the spa pack and contains data to program or configure its system. The system executes the data upload automatically.



in.t.cip
water temperature algorithm

in.t.cip is an intelligent water temperature refresh algorithm that calculates optimal time to start pumps and get water temperature readings. In.t.cip continuously readjusts the heater start time (according to exterior temperature).



in.touch
you're always in touch with your relaxation

All Y Series packs support the in.touch WiFi interface, allowing you to use your favorite iOS device to communicate with your spa.



in.link
ingenious plugs and connectors

The Y Series is only compatible with the low-voltage family of in.link connectors, such as those used by keypads and similar low-voltage accessories.

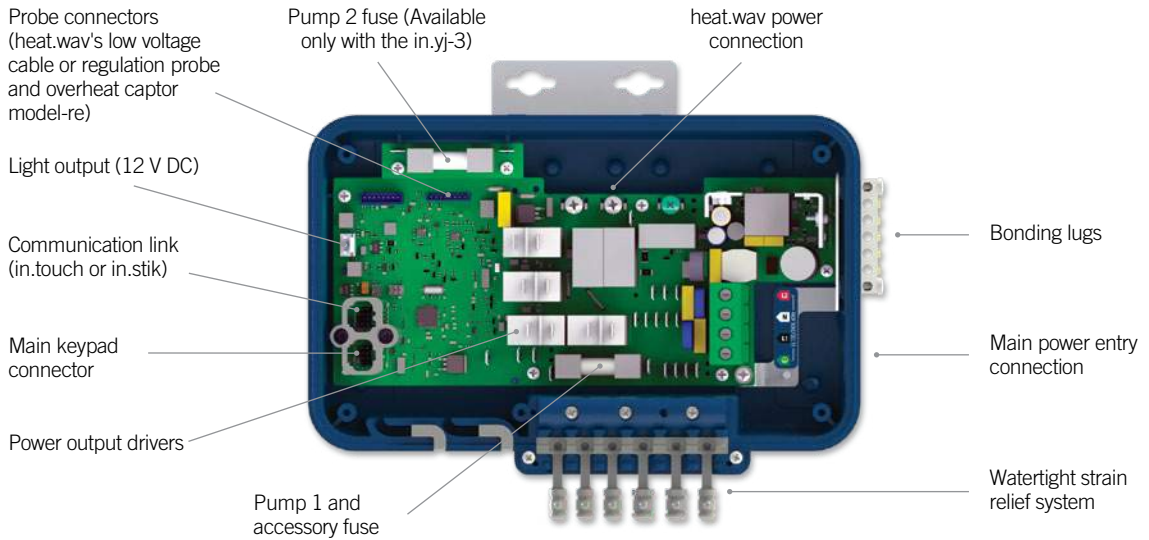


in.put
input terminal block

In.put was designed to ease wire insertion (up to # 6 AWG) and connections. Tighter input connection reduces heat generated for increased component lifetime.



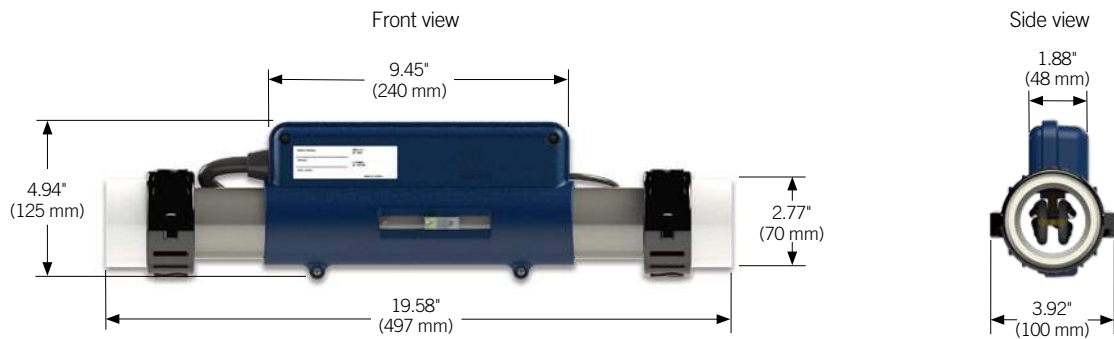
Overview



in.yj dimensions



heat.wav dimensions



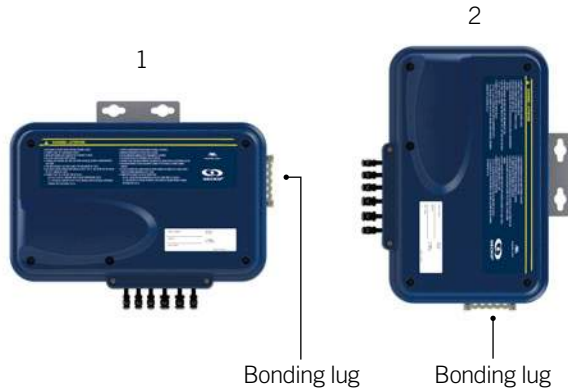
Note: Shown with optional wall mounting brackets (see Installation).



Installation

in.yj positioning

To prevent water from getting inside 2 positions are allowed.

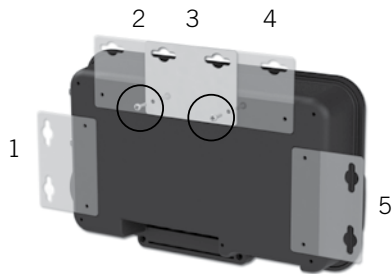


Warning!

Beware of the application of some products commonly used against corrosion (such as WD-40 family products) as they could damage the pack, due to a negative chemical reaction between some industrial oils and its plastic enclosure. Any other materials which may come in contact with the enclosure must be carefully evaluated under end use conditions for compatibility.

Two types of brackets can be used to secure the pack:

in.yj installation procedure with standard wall mounting bracket(s)



Flat aluminum brackets are designed for back wall mounting. There are 5 possible positions you can use. Multiple brackets can be used if extra support is needed.

Fasten the mounting bracket(s) to the back of the pack with the supplied screws.

*Part number:
Wall mount bracket kit 100 pcs - 9920-101474
(with 200 screws to attach to pack)*

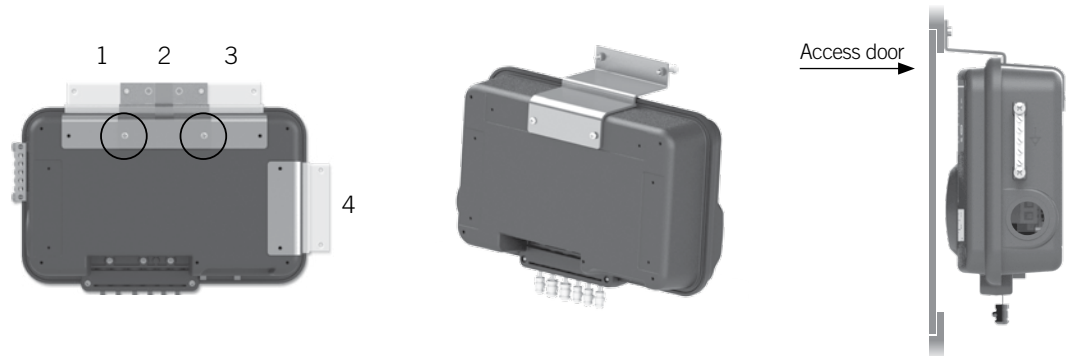
Using the brackets, fasten pack to 2" x 4" or 2" x 6" timber wall studs under the spa. We recommend using #10 self threading screws with pan or truss heads and washers 1/2" OD x 1/16" (12 mm OD x 1.5 mm).

Note: The spa pack must be installed at least 4" (100 mm) above potential flood level. If floor is on ground level, pack should be raised at least 4" (100 mm).



Installation

in.yj installation procedure with wall mounting Z-bracket(s)



The aluminum Z-bracket is designed for flush-mounting the pack directly on the edge of the access door frame of your spa. It can be mounted to the pack in one of 4 positions for greater flexibility.

Fasten the mounting bracket(s) to the back of the pack with the supplied screws.

*Part number:
Z-bracket in.yj kit 100 pcs - 9920-101478
(with 200 screws to attach to pack)*

Depending on your specific needs, you can fasten with two #10-24 screws of your choice.

Note: The spa pack must be installed at least 4" (100 mm) above potential flood level. If floor is on ground level, pack should be raised at least 4" (100 mm).

heat.wav installation (not applicable on in.yj-re models)



The heat.wav heating element must be installed in the return circuit of the main pump (pressure side).

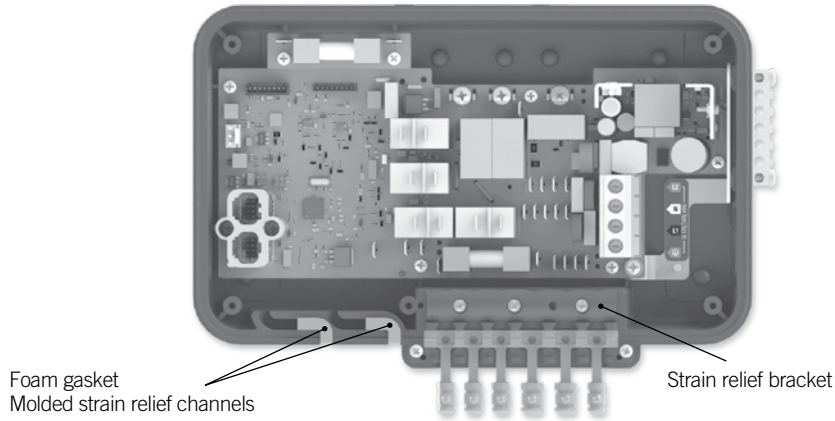
Keypad installation

For detailed installation instructions and a drilling template, refer to the [compatible keypad](#) section and select your keypad to be redirected to the corresponding techbook.



Connections

Preparation

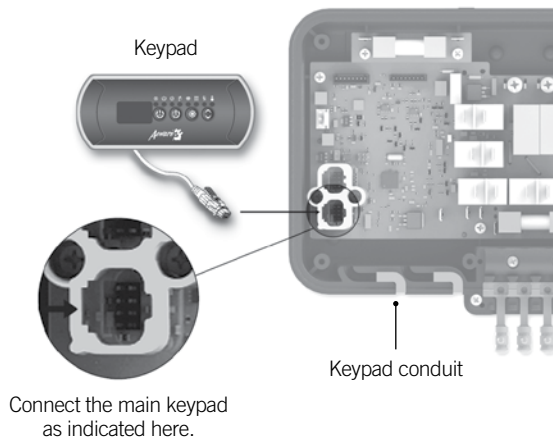


Remove the cover screws from the front of the pack with a Phillips screw driver.

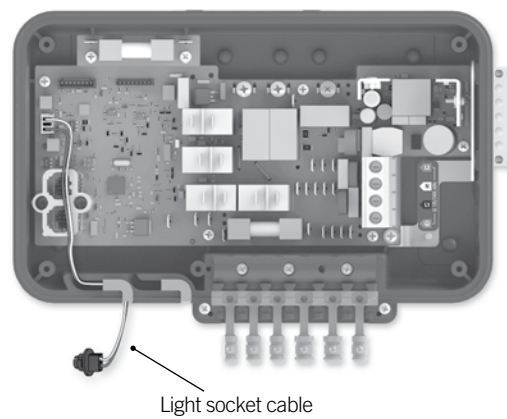
Remove and put aside the strain relief bracket and the foam gasket located in the molded strain relief channels.

Connecting the main keypad and the light socket cable

Note: always shut power down before connecting an accessory to the pack.



To connect the keypad, insert the in.link connector into the appropriate keypad connector (as illustrated).



To connect the light socket cable, insert the MTA connector into the 12 V DC light output connector P33 (as illustrated).

*Part number:
Light socket cable - 9920-400489*

Route the low voltage cables through the molded strain relief channels on the bottom of the spa pack.

Connexions

Connecting the heat.wav (not applicable on in.yj-re models)

The in.yj should be paired with a high performance heat.wav heater.

Part numbers:

1,3 kW heat.wav - 0613-421004

2 kW heat.wav - 0613-421002

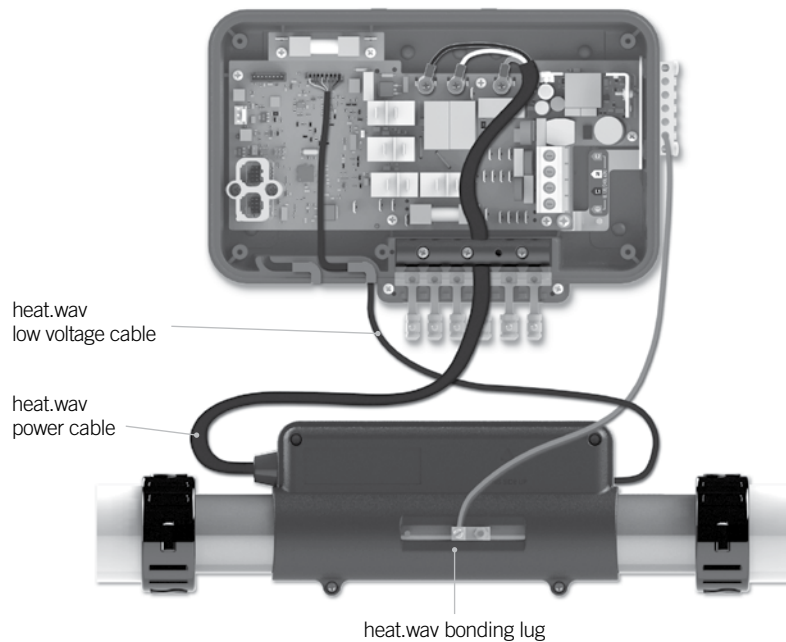
3 kW heat.wav - 0613-421003

4 kW heat.wav - 0613-421001

heat.wav specification summary:

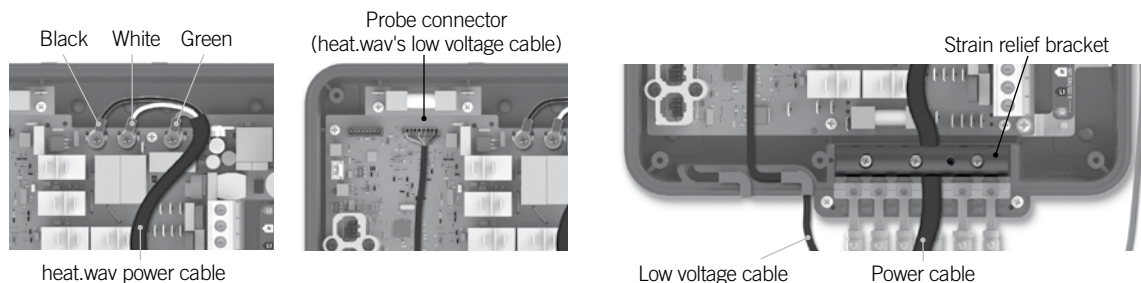
- in.flo integrated dry-fire protection
- Supports 120 V or 240 V
- Protected by external breaker (not fused)*
- Incoloy® heater element

**Note: CE/AUS/NZS models are 230-240 V only, and are fuse protected.*



Note: always shut power down before connecting an accessory to the pack.

Connect a solid copper conductor (not smaller than 8 AWG) between the bonding lugs on the side of the spa pack and the bonding lug at the front of the heat.wav. The bonding conductor should be routed close to the contour of the equipment to reduce the risk of damage during servicing.



Connect the colored wires
black = P3
white = P4
green = P5

To connect the heat.wav low voltage cable, insert the JST into the probe connector (P1).

Route the low voltage cable through one of the molded power strain relief channels on the bottom of the spa pack.

Remove the small rubber stopper. Route the power cable through one of the openings for 12-3 cable size (as illustrated on page 14).

Note: Do not over tighten screws (torque to 18 in. lb max (2.0N.m.) and use of a tool up to 500 rpm max)

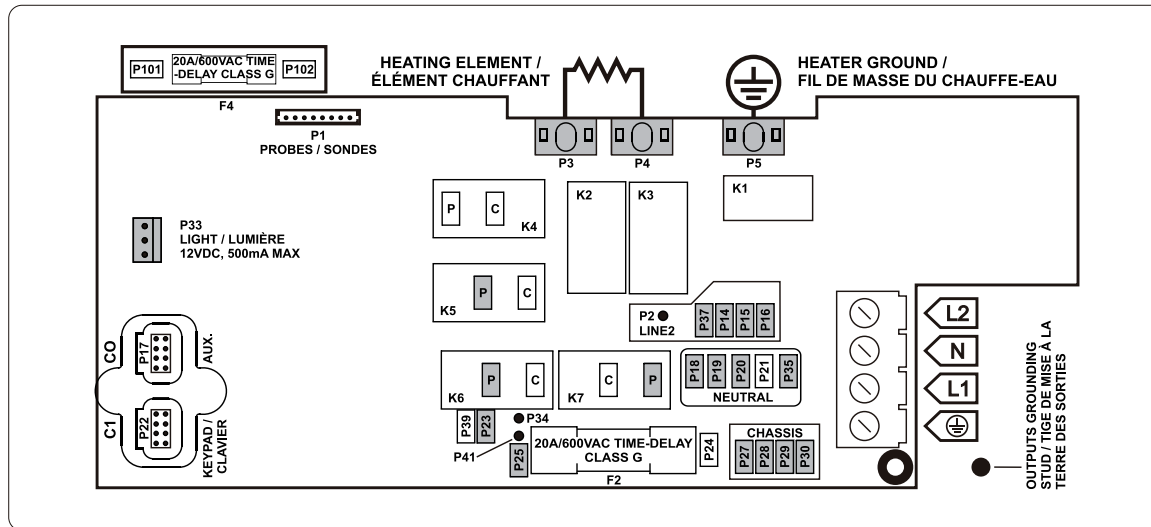


Connections

Connecting high voltage accessories: North American model in.yj

Wires to connect high voltage accessories must have 0.25" quick-connect terminals.

These tabs require high-voltage accessories to have straight, non-insulated, female quick-connect terminals for all connections, including ground. Depending on where the connections are made on the in.yj pack PCB, 120 V and 240 V accessories are supported. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the PCB tab for proper current ratings.



Make sure all accessories are linked to the bonding lug connector located on the side of the spa pack.

Direct output	120 V	240 V
Green / ground	P27	P27
Black / line	P25	P25
White / common	P18	P14

Pump 1	120 V	240 V
Green / ground	P28	P28
Black / low speed	K6-P	K6-P
Red / high-speed	K7-P	K7-P
White / common	P19	P15

Pump 2 (in.yj-3 only)	120 V	240 V
Green / ground	P29	P29
Black / low speed	K5-P	K5-P
White / common	P20	P16

Ozone (Working with pump 1 low speed)	120 V	240 V
Green / ground	P30	P30
Black / line	P23	P23
White / common	P35	P37

Light (12 V DC , 500mA)	
Switch	P33

Heat.wav-yj	
Green / ground	P5
Black / line	P3
White / common	P4

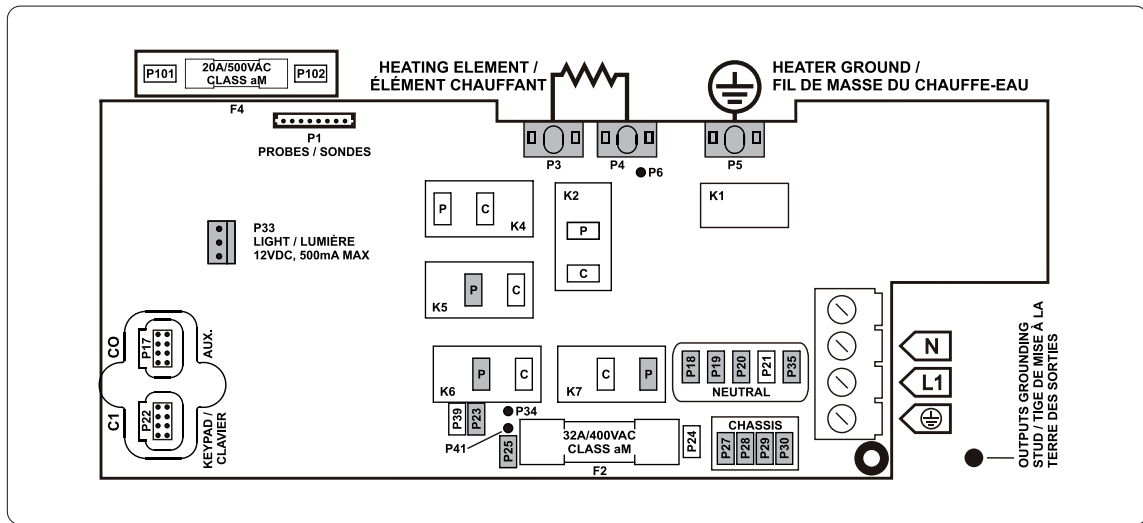
This table shows typical connections. OEMs may have a different connection scheme.



Connections

Connecting high voltage accessories: European, Australian, New Zealand model in.yj-ce

These tabs require high-voltage accessories to have straight, non-insulated, female quick-connect terminals for all connections, including ground. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the PCB tab for proper current ratings.



Make sure all accessories are linked to the bonding lug connector located on the side of the spa pack.

Direct output	230 V	Pump 1	230 V	Pump 2 (in.yj-3 only)	230 V	Ozone (Working with pump 1 low speed)	230 V
Ground	P27	Ground	P28	Ground	P29	Ground	P30
Line	P25	Low speed	K6-P	Low speed	K5-P	Line	P23
Common	P18	High speed	K7-P	Common	P20	Common	P35
		Common	P19				

Light (12 V DC , 500mA)	Heat.wav-yj
Switch	P33
	Green / ground
	P5
	Black / line
	P3
	White / common
	P4

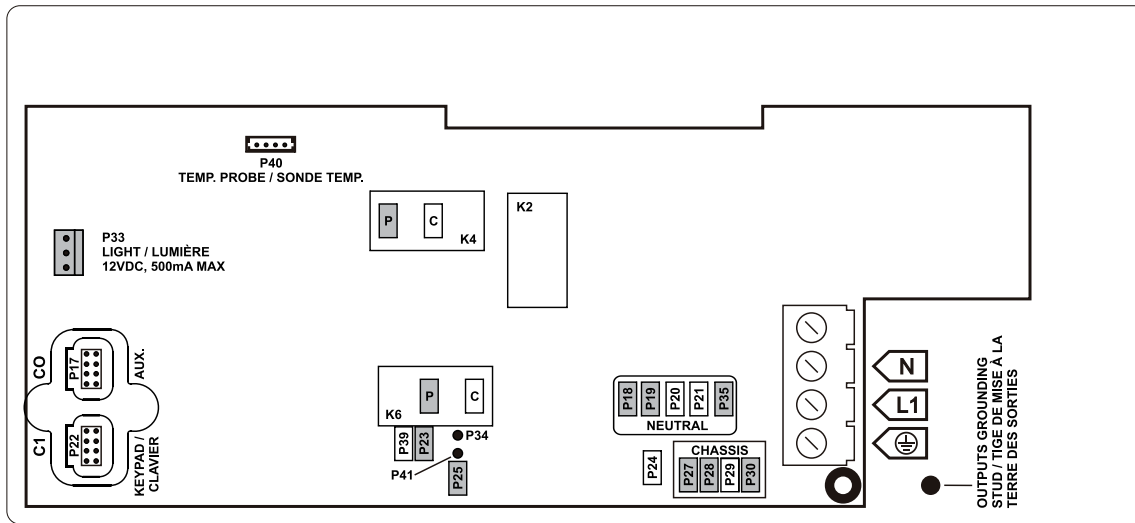
This table shows typical connections. OEMs may have a different connection scheme.



Connections

Connecting high voltage accessories: North American heat recovery model in.yj-re

These tabs require high-voltage accessories to have straight, non-insulated, female quick-connect terminals for all connections, including ground. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the PCB tab for proper current ratings.



Make sure all accessories are linked to the bonding lug connector located on the side of the spa pack.

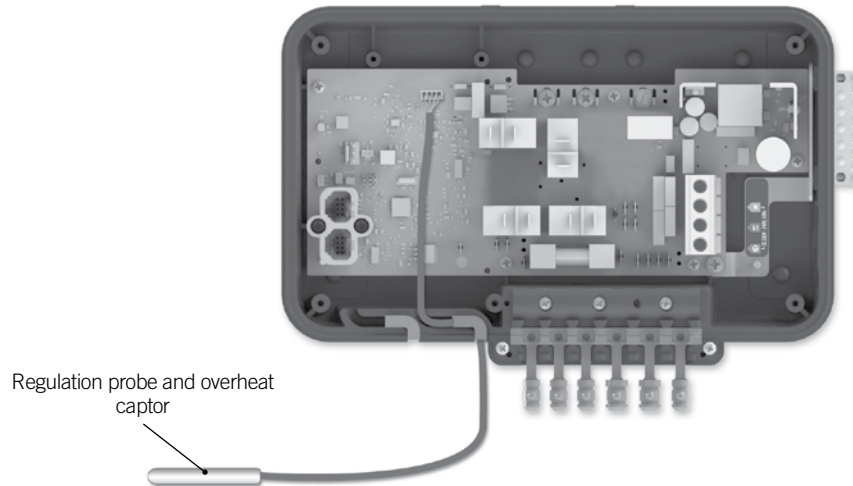
Direct output Voltage	120 V	Pump 1 Voltage	120 V	Ozonateur Voltage	120 V	Light (12 V DC , 500mA)	
Green / ground	P27	Green / ground	P28	Green / ground	P30	Switch	P33
Black / line	P25	Black / low speed	K6-P	Black / line	P23		
White / common	P18	Red / high speed	K4-P	White / common	P35		
		White / common	P19				

This table shows typical connections. OEMs may have a different connection scheme.



Connections

Connecting the probe (regulation and overheat captor) on the heat recovery model in.yj-re



The probe assembly must be installed in the spa water in an area where water is not stagnant in order to optimize the temperature regulation.

To connect the probe assembly cable, insert the JST into the probe connector (P40).

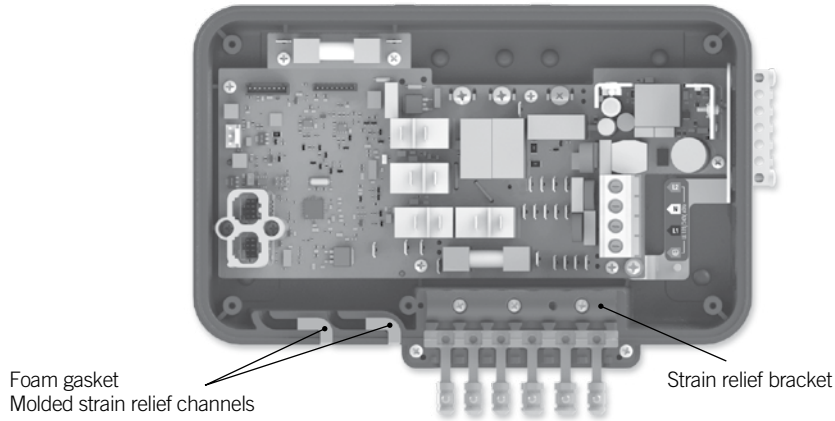
Route the probe assembly cable through one of the molded strain relief channels on the bottom of the spa pack.

*Part number:
Regulation probe and overheat captor - 9920-401397*



Connections

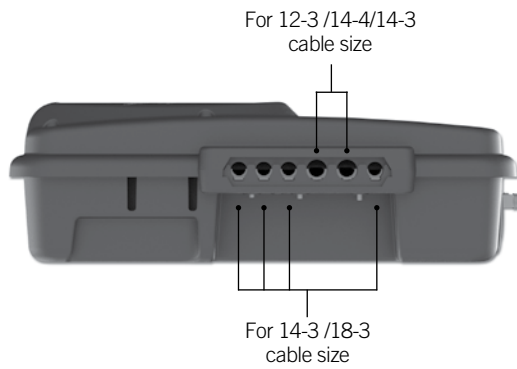
Completing the installation



Once all low voltage cables are routed through the molded strain relief on the bottom of the spa pack, fill the remaining space with the foam gasket supplied.

Once all high voltage accessories cables are routed through one of the openings provided for this purpose at the bottom of the spa pack, you can reinstall the strain relief bracket.

Replace the cover. Do not over tighten cover screws (torque to 8 in. lb max (0.9N.m.)

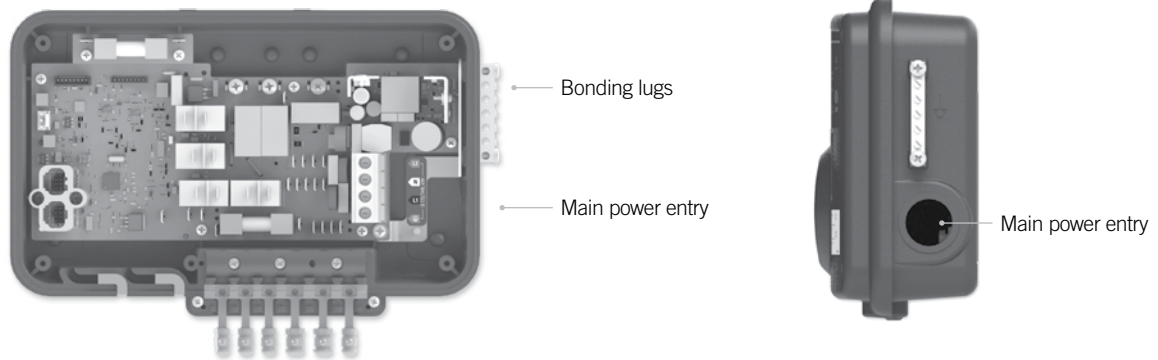


Output cable opening size



Electrical wiring

Electrical wiring: all models



Warning!

Disconnect power before starting electrical work. Wiring must be completed by a qualified electrician and must be done in accordance with the local electrical code.

To complete the electrical connections of the in.yj control system you will need a Phillips screwdriver and a flat-head screwdriver.

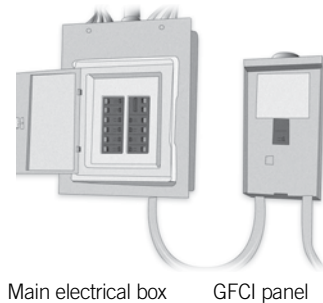
Remove the screws from the system control lid and remove it.

Remove 5 1/2" (142 mm) of cable insulation.

Strip away 1/2" (15 mm) of insulation from each wire.

Pull the cable through the cutout of the box and secure it with a 3/4" NPT strain relief* (hole diameter 1.09" {27.6 mm}). Ensure that the NPT strain relief clamps around the outer sheath of the cable.

**For CE/AUS/NZ use an IEC certified plastic bushing that will maintain the IPX5 rating.*



Warning!

For units for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5' (1.52 m) away, adjacent to, and within sight of the unit.

This product must always be connected to a circuit protected by a ground fault interrupter.

Proper wiring of the electrical service box, GFCI and in.yj terminal block is essential!

Check your electrical code for local regulations. Only copper wire should be used, never aluminum.

Disposal of the product

The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force.

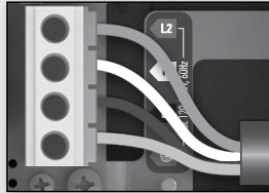


Electrical wiring

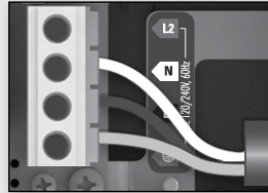
Electrical wiring: North American model

Refer to wiring diagram in the enclosure box lid for more information.

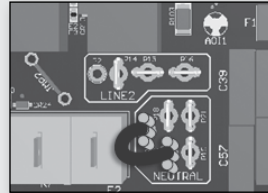
Before November 2014



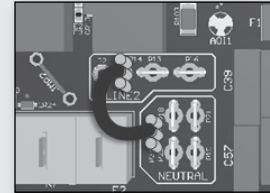
240 V (4 wires)



120 V (3 wires)



240 V (4 wires) Default

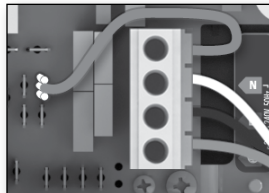


120 V (3 wires)

Insert each wire into the appropriate socket of the main entry terminal block according to the color code indicated on the sticker. Use a flat screwdriver to tighten the screws on the terminal.

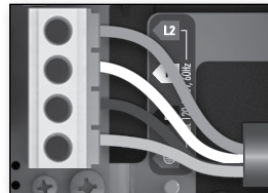
The heater is factory configured at 240 V (4 kW). To convert it to 120 V (1 kW) configuration, move the wire jumper from P35-P20 (240 V) to P35 - P14 (120 V)

After November 2014



120 V (3 wires)

DO NOT REMOVE THE BROWN WIRE. Insert each wire into the appropriate socket of the main entry terminal block according to the color code indicated on the sticker. Use a flat screwdriver to tighten the screws on the terminal.



240 V (4 wires)

Remove the brown wire and insert each wire into the appropriate socket of the main entry terminal block according to the color code indicated on the sticker. Use a flat screwdriver to tighten the screws on the terminal.

After making sure wires are securely connected, push them back into the box and replace the cover. Do not over tighten cover screws (torque to 8 in.lb max {0.9 N.m.}). Connect the bonding conductor to the bonding lug on the side of the spa pack (a grounded electrode conductor should be used to connect the equipment grounding conductors).



Electrical wiring

Electrical wiring: CE/AUS/NZS models

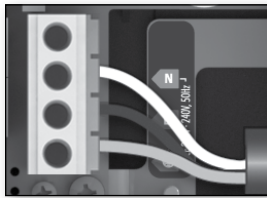
Refer to wiring diagram in the enclosure box lid for more information.



Warning!

in.yj.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA.

Correct wiring of the electrical service box, RCD, and pack terminal block is essential!
Check your electrical code for local regulations. Only copper wire should be used, never aluminum.



230 V (3 wires)

Insert each wire into the appropriate socket of the main entry terminal block according to the color code indicated on the sticker. Use a flat screwdriver to tighten the screws on the terminal.

After making sure wires are securely connected, push them back into the box and replace the cover. Do not over tighten cover screws (torque to 8 in.lb max {0.9 N.m.}).

Connect the bonding conductor to the bonding lug on the side of the spa pack (a grounded electrode conductor should be used to connect the equipment grounding conductors).

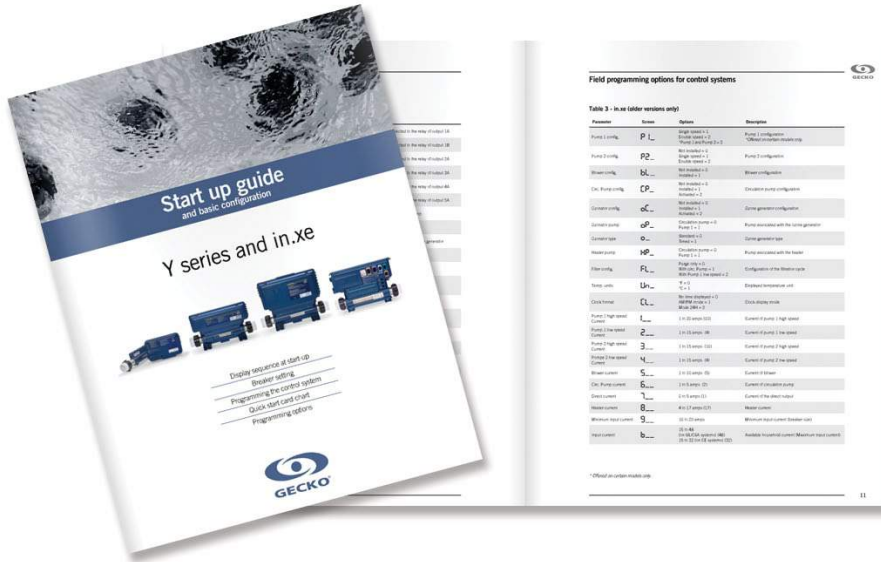


Controller power up

Start up of your control system

To perform the control system start up, refer to the manual:

[Start up guide and basic configuration](#)





Compatible keypads

List of compatible keypads for the in.yj control system

For more information on the compatible keypads for your control system refer to the corresponding Techbook.



[K-19 main keypad](#)
LED display, 4 keys



[K-35 main keypad](#)
LED display, 6 keys



[in.k200 main keypad](#)
LED display, 4 keys



[in.k600 static main keypad](#)
LCD display, 11 keys



[K-4 main keypad](#)
LCD display, 8 keys



[K-8 main keypad](#)
LCD display, 8 keys



[in.k450 main keypad](#)
LCD display, 7 keys



[in.k300 main keypad](#)
LCD display, 4 keys



[in.k500 main keypad](#)
Color LCD display, 7 keys



[in.k800 main keypad](#)
Color LCD display, 10 keys



[in.k1000 main keypad](#)
Color LCD capacitive
touchscreen display



Troubleshooting

Troubleshooting information for your control system

You come across a problem with your control system, for the troubleshooting of your control system, refer to the manual:

[Troubleshooting guide](#)





Specifications

Model

in.yj-2: 2 outputs

in.yj-3: 3 outputs

Environmental ratings

Operating temperature:	32°F (0°C) to 140°F (60°C)
Storage temperature:	-13°F (-25°C) to 185°F (85°C)
Humidity:	Up to 85% RH, non condensing
Level of waterproofing:	IPx5 for TUV (CE/AUS/NZS) & CSA Enclosure #2

Mechanical

in.yj

Weight:	3.1 lb (1.41 kg)
Dimensions (W x H x D):	12.08" x 7.38" x 3.74" (307 x 187 x 95 mm)

heat.wav

Weight:	4.65 lb (2.1 kg)
Dimensions (W x H x D):	19.58" x 4.94" x 3.92" (497 x 125 x 100 mm)

in.yj UL/CSA electrical specifications*1

Input rating (in.yj-3):	120/240 V nominal (+5/-10 %) 60 Hz, (2 lines required with neutral) 40 A max.
Input rating (in.yj-2):	120/240 V nominal (+5/-10 %) 60 Hz, (2 lines required with neutral) 32 A max.
or:	120 V nominal only (+5/-10%) , (single line with neutral) 16 A Max

Heat.wav rating :


Voltage:	120 V or 240 V, 1 kW at 120 V
Wattage:	4 kW at 240 V, 1 kW at 120 V
Flow rate:	Minimum of 18 GPM (68,1 LPM) is required

Device*2	Voltage*3	Maximum current
Pump 1 (2-spd)	120 or 240 V	15 FLA/60 LRA (inrush)
Pump 2 (1-spd)*4	120 or 240V	15 FLA/60 LRA (inrush)
O3*5	120 or 240 V	3 FLA/6 A
Direct out 1	120 or 240 V	5 A (always on)
Light output	12 Vdc	0,5 AMP (6W Light bulb)

UL/CSA Standards

UL 1563 Sixth Ed. (2012)

UL File: E182156

CSA No. 22.2 - 218.1-M89. (2013) 

*1 Certain current limits may apply. Please talk to your customer service representative for more information.

*2 Total of Pump 1, O3 and Direct out should not exceed 16 A for UL/CSA version.

*3 The output voltage is selectable only if input supply voltage is 120/240 V.

*4 Only available on in.yj-3.

*5 The ozonator is connected in parallel with the Pump 1 low speed, therefore they cannot be controlled independently.



Specifications

in.yj TUV (CE/AUS/NZA) electrical specifications*1

Input rating (in.yj-3): 220 - 240 V nominal with neutral (+5/-10%)
50/60 Hz
Monophase system 40 A max.

Input rating (in.yj-2): 220 - 240 V nominal with neutral (+5/-10 %)
50/60 Hz
Monophase system 32 A max.

Heat.wav rating:

Voltage: 220/240 V, 50/60 Hz

Wattage: 4 kW at 220 - 240 V

Flow rate: Minimum of 18 GPM (68,1 LPM) is required

Device*2	Voltage*3	Maximum current
Pump 1 (2-spd)	220/240 V	15 FLA/60 LRA (inrush)
Pump 2 (1-spd)*4	220/240 V	15 FLA/60 LRA (inrush)
O3*5	220/240 V	3 FLA/6 A
Direct out 1	220/240 V	5 A (always on)
Light output	12 Vdc	0,5 AMP (6W Light bulb)

TUV Standards

EN/IEC 60335 - 2 - 60: /A12:2010 - EN/IEC 60335 - 1: /A15:2011

EN55014-1

EN55014-2

EN61000-3-2

EN61000-3-3



*1 Certain current limits may apply. Please talk to your customer service representative for more information.

*2 Total of Pump 1, O3, heater, and Direct out should not exceed 32 A for TUV (CE/AUS/NZA) version.

*3 The output voltage for the TUV (CE/AUS/NZA) version will reflect the input voltage, typically 230 V.

*4 Only available on in.yj-3

*5 The ozonator is connected in parallel with the Pump 1 low speed, therefore they cannot be controlled independently.



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