TechBook

in.mix-200™

Get an exquisite light display...For your bath!

GECKO®

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Warnings

⚠️ **WARNINGS:**
Before installing or connecting the unit, please read the following. Failure to comply with the following warnings may significantly shorten the life of the in.mix-200 and lead to failures as well as hazardous conditions (fire, electric shock or fatal injury).

DO NOT DISASSEMBLE OR ALTER.
Doing so may result in an accident, fire or electrical shock.

DO NOT USE FOAM TO ISOLATE THE UNIT.
Doing so may cause heat to build up inside and may result in fire.

OEM RESPONSIBILITIES
All inputs and outputs of the in.mix system must be used according to their intended use, as outlined in their specifications. All OEM's end-product documentation provided to the end-user or to qualified personnel must include all pertinent safety information. This documentation must also state that if the in.mix is damaged, it is not to be used and should be replaced immediately to ensure end-user's safety. Incorrect installation or utilization of the in.mix and its accessories may be dangerous to the end-user. Construction of OEM's end-product must take into account any engineering considerations that may be listed in a regulatory agency's report. OEM should seek out the pertinent approval files of the agencies/laboratories and review them to ensure the end-product meets the requirements for a given application.

INSTALLATION
Make sure to leave a clearance of at least 1" from other surfaces. There are no user serviceable parts inside, therefore the in.mix enclosure shall never be opened. The in.mix must be connected to a circuit protected by a class A ground fault circuit interrupter. All low-voltage wires/cables should be routed separately from high-voltage wires/cables and accessories. The OEM's end-product should be installed away from water sources, and sheltered from any possible water contact. Keep box and all cords above the flood level. Do not install the in.mix system in fiberglass. Use a spray barrier for the electrical outlet. Improper installation may result in hazardous conditions, or product failure.

MAINTENANCE
If you have problems, do not attempt to repair the unit yourself. Return it to your dealer or service station for servicing.

ACCESSORY PARTS
Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

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

Introduction

in.mix-200

Get an exquisite light display...
For your bath!

The in.mix has been designed to promote a warm and relaxing atmosphere. The light controller produces uniform lighting so the different colored LEDs are not visible. Choose your lighting mode according to your mood — with the easy-to-use keypad you can choose a single color, or an arrangement of colors.

The in.mix can be adapted for many types of bathtub configurations. The LED fixture can be used independently or combined with our WhirlMaster Series pumps with a sleek new 5-button keypad.

Main features

Discrete and compact power box fits in anywhere, and is very easy to install.

Attractive backlit keypad provides easy control.

Keypad overlays can be customized to meet customer needs.

Optional Accessories
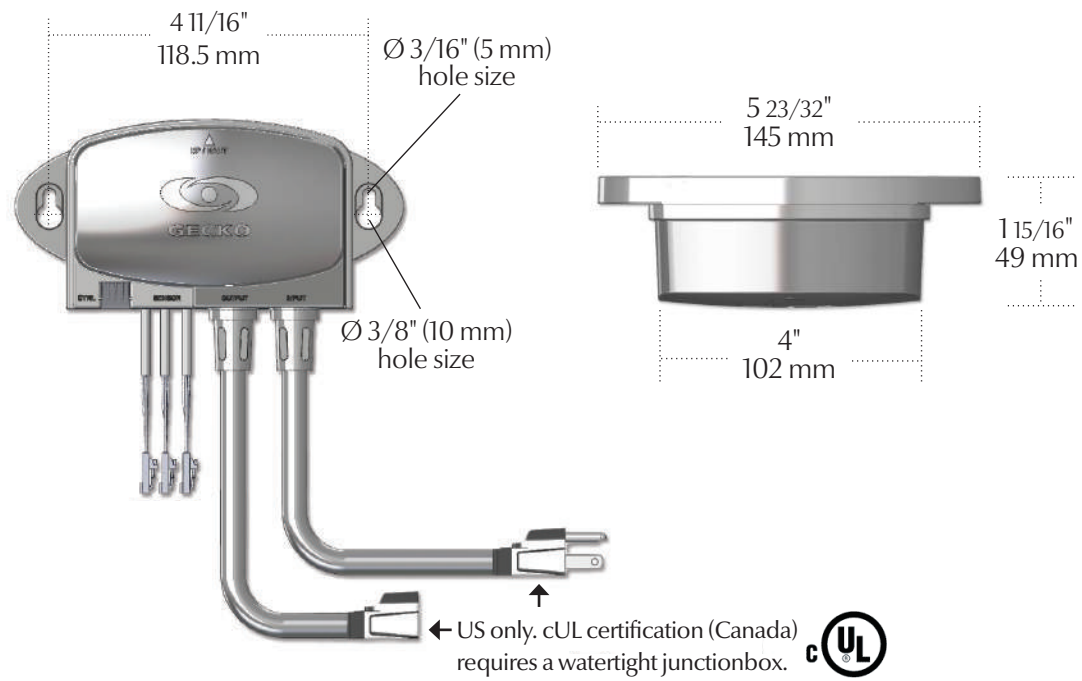
WhirlMaster Pump with timer
WhirlMaster VSP
in.rays lights

Overview

In.mix dimensions:

4 11/16"
118.5 mm

Ø 3/16" (5 mm)
hole size

Ø 3/8" (10 mm)
hole size

5 23/32"
145 mm

1 15/16"
49 mm

4"
102 mm

← US only. cUL certification (Canada)
requires a watertight junctionbox.

In.rays are avalible in two sizes :

in.rays-200-12-ST
0199-501001
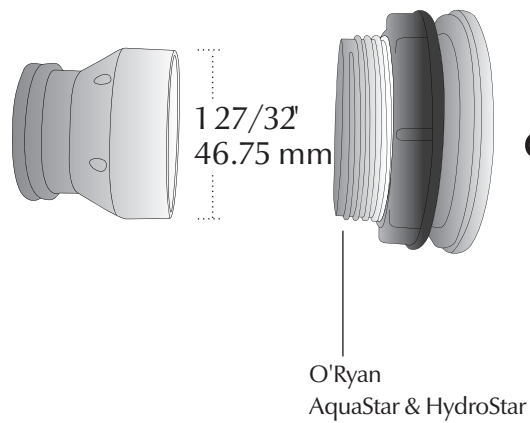
in.rays-200-20-SM
0199-501002

1 27/32"
46.75 mm

or

1 21/64"
33.75 mm

O'Ryan
AquaStar & HydroStar

O'Ryan
BabyStar
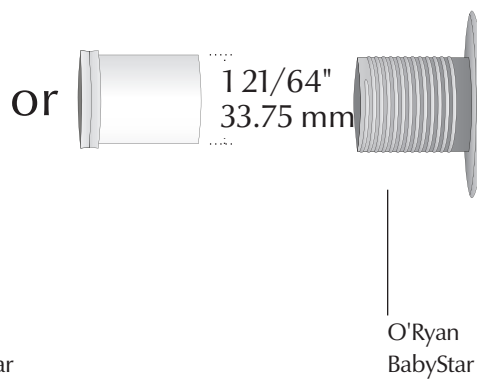
Installation of in.mix

The in.mix system should be mounted on an even vertical surface, with the UP arrow pointed up.

Do not install the in.mix system in fiberglass. Use a spray barrier for the electrical outlet.

The in.mix system should be installed away from water sources, and sheltered from any possible water contact. Keep box and all cords above the flood level.

## Installation of in.k113 single switch

To install the in.k113 single switch, select the most appropriate location for the control switch and drill a 7/8" (22 mm) hole. Insert control switch into the hole. Tighten the nut to attach firmly (see illustration).

7/8"
22 mm

—— Nut
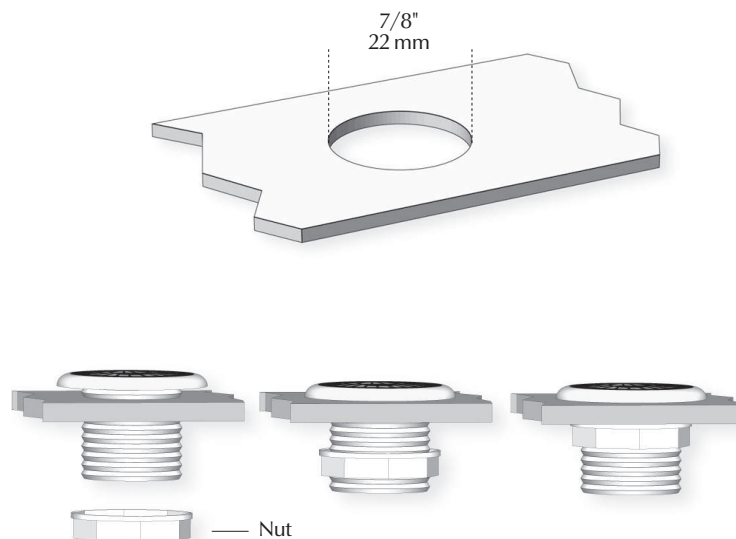
Installation of in.k96 keypad

To install the in.k96, select the most appropriate location for the keypad and use the drilling template to cut the surface. Clean the surface, peel the backing paper from the adhesive on the keypad and insert the in.k96 into the hole (see illustration).

5 9/32 "
134 mm

5 13/16 "
127 mm

Cut along
Dashed line

1 1/16 "   1 11/32 "
27 mm   34 mm
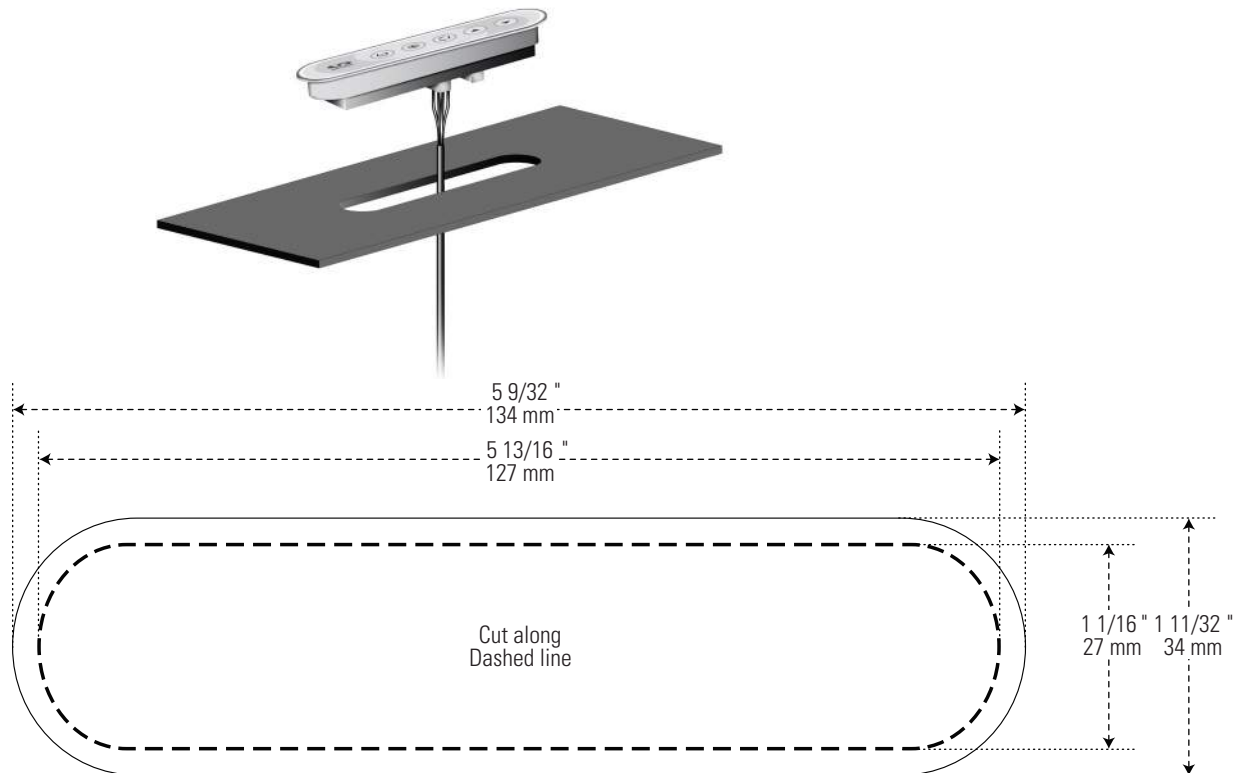
Installation of in.rays

Installation of the in.rays lights requires O'Ryan lenses (HydroStar and AquaStar for the in.rays-200-ST, BabyStar for the in.rays-200-SM) or another compatible lens (all lenses sold separately).
Follow the manufacturer's instructions to install the lens, and then simply insert the in.rays light into the lens, making sure that it is firmly in place.

in.rays-200-ST

in.rays-200-SM

This side up

Wiring diagram

Communication cable
or tub-side control

input cable

in.rays connectors

output cable
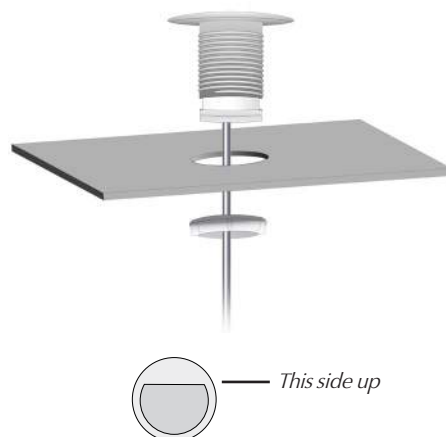
Connecting the keypad to the in.mix

In.k113 configuration

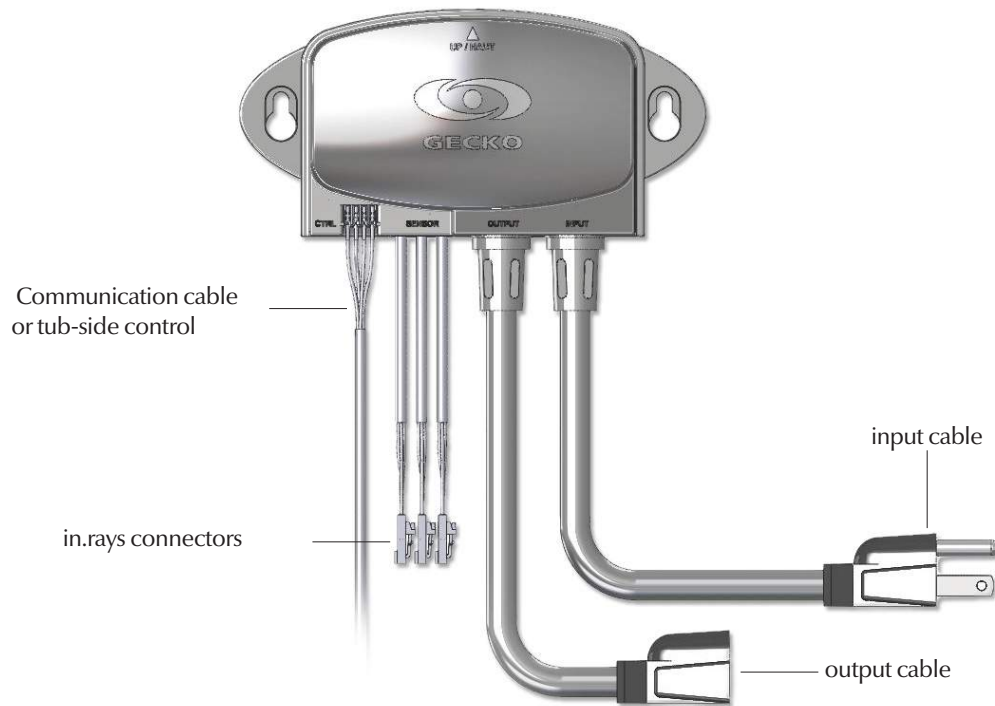A simple in.k113 single switch can be used to move through solid colors and sequences.

To connect the single switch, simply insert the connector into the port labeled *ctrl*.

In.k96 configuration

The in.mix system can be connected to an in.k96 keypad. This keypad allows greater control of solid colors and sequences. A version of the in.k96 is available to control the in.mix system, as well as a WhirlMaster pump.

To connect the keypad, simply insert the connector into the port labeled *ctrl*.

Connecting the optional pump: WhirlMaster VSP

The in.mix can be used in conjunction with a WhirlMaster series pump, and both devices can be controlled with the in.k96 keypad. To use this set-up, simply connect the keypad to the pump as indicated in the illustration (cable sold separately), then use the included cable to connect the pump to the in.mix *ctrl* port.

in.mix   keypad
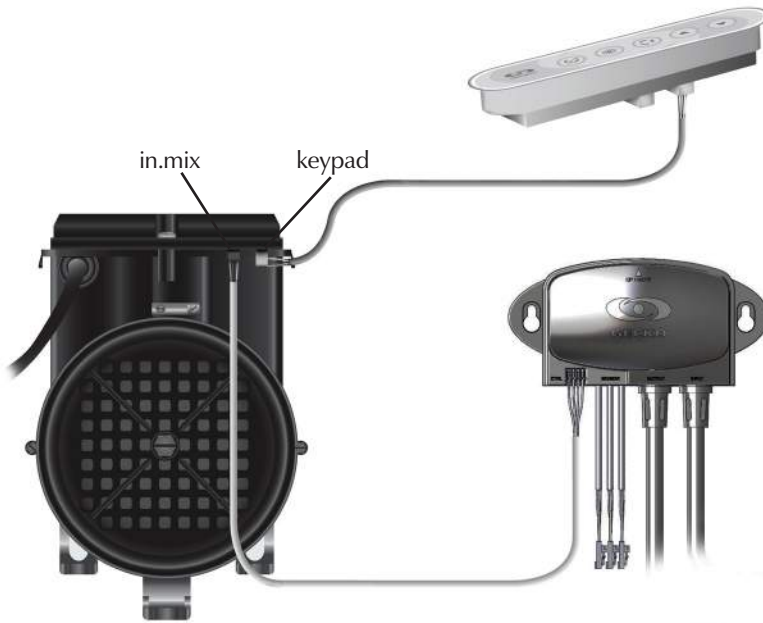
Connecting the optional pump: WhirlMaster with timer

To connect the WhirlMaster pump with timer, attach the pump and in.mix to the timer, as shown below.

Basic operation/in.k96

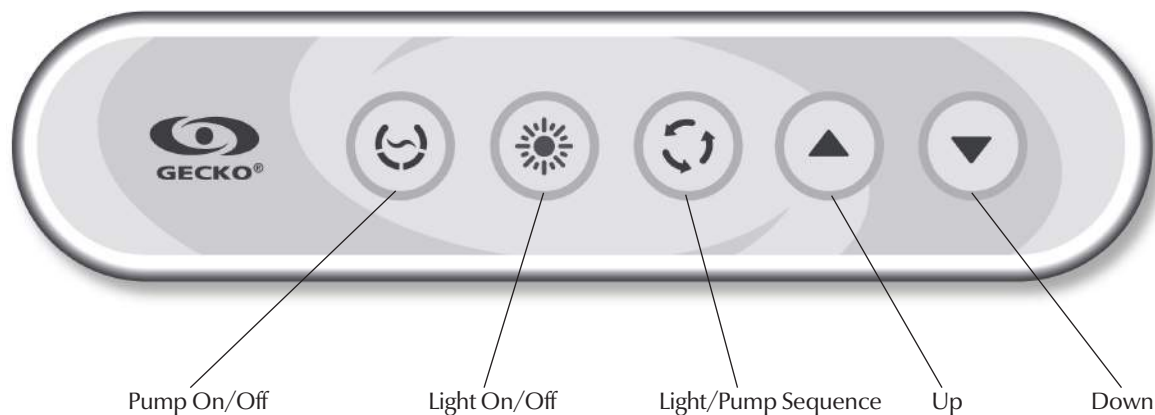Pump On/Off   Light On/Off   Light/Pump Sequence   Up   Down

Turning power on/off

Press the Light key to turn on, again to turn off. After half an hour with no button activity the system will shut off.

Choosing a solid color

Use the arrow keys to move through the selection of solid colors.

Choosing a sequence

Press the sequence key to start sequences. Each successive press will show another sequence. To select a sequence, let it run through the sample; afterwards it will start the sequence at the actual speed.

Adjusting the pump
(This function only available on keypads with pump option)

Press the Pump key to start the pump. With a WhirlMaster VSP, use the arrow keys to adjust the speed, or use the sequence key to get variation in speed. Press the Pump key again to turn the pump off. Press the Light ket at any point to switch to light control.

Basic operation/SW-LS

Single switch operation

It is possible to connect a single switch instead of a full keypad. The single switch can be used to turn power on and off, and to choose a color or lighting sequence.

Operation with the single switch:

Turning power On/Off

Press the key once to turn the in.mix system on. Press and hold the key to turn it off. After half an hour with no button activity, the system will turn off.

Color/Sequence selection

Each successive press on the key will change the lighting — first through the 8 solid colors, then through the 4 sequences. To select a color or sequence, simply do not press the button again.

Colors and Sequences

Blue - purple - yellow - cyan - orange - white - red - green

Sequence mode 1 : Very slow fade

During this mode, the color is changed every 10 seconds. All outputs (1-2-3) are the same color. The color sequence is green-red-blue. The sequence is constantly repeated.

Example: Blue full cycle.

Blue decreases and green increases proportionally until green is in full cycle.
Green decreases and red increases proportionally until red is in full cycle.
Red decreases and blue increases proportionally until blue is in full cycle and so on.

Sequence mode 2 : Slow fade

During this mode, the color is changed every 5 seconds. All outputs (1-2-3) are the same color. The color sequence is green-red-blue. The sequence is constantly repeated.

Example: Blue full cycle.

Blue decreases and green increases proportionally until green is in full cycle.
Green decreases and red increases proportionally until red is in full cycle.
Red decreases and blue increases proportionally until blue is in full cycle, and so on.

Sequence mode 3 : Incognito

This mode can be described as a base color with a scanning color. First, the base color is applied to all 3 outputs, then a different color is set on one output; it is the scanning color. Every 5 seconds, the scanning color switches to the next output; the remaining 2 outputs are always set with the base color. The scanning color completes 2 full turns and then the base color and the scanning color change for something else. The color sequence is :

Base color = Green;	*Scanning color = Red*
Base color = Blue;	*Scanning color = Red*
Base color = Red;	*Scanning color = Green*
Base color = Blue;	*Scanning color = Green*
Base color = Red;	*Scanning color = Blue*
Base color = Green;	*Scanning color = Blue*

Sequence mode 4 : Breathing

The idea is to recreate a slow breathing effect with cool colors. The color is changed every 4 seconds. All outputs (1-2-3) are the same color.

The color sequence is cyan-blue-cyan-green. The sequence is constantly repeated.

Electrical rating and environmental specifications

Keypad control K-96-5K

Ambient operating temperature:	50°C (122°F) to 0°C (32°F)
Storage temperature:	85°C (185°F) to –30°C (-22°F)
Humidity:	Up to 70% condensing.

Light controller in.mix -200

Number of light outputs:	3
Ambient operating temperature:	55°C (122°F) to 0°C(32°F)
Storage temperature:	85°C(185°F) to -30°C (-22°F)
Humidity:	Up to 70% condensing.

RGB LED module in.rays-200

The color might slightly change from one unit to the other because of the large spectrum of luminous intensity and wavelength.

Ambient operating temperature:	50°C (122°F) to 0°C (32°F)
Storage temperature:	85°C(185°F) to -30°C (-22°F)
Humidity:	Up to 70% non-condensing.

Specifications and design are subject to change without prior notice.

Model (Ordering information)

Model number	Description	
0110-001002	K-96-5K-WH-GE1	Oblong shaped white keypad works with the WhirlMaster w/timer and in.mix-200. With 8 foot cable.
0101-001031	SW-LS-WH-MIX-GE1	Single switch round white with 6 foot cable, works with the in.mix-200 in stand alone
0110-205001	IN.MIX-200-120-DI	LED light module controller, 3 outputs for in.rays-200, input 120VAC, works in stand alone with SW-LS or in combo with a WhirlMaster and K-96 keypads
0199-501001	IN.RAYS-200-12-ST	LED module produces uniform blended color, with 12 foot cable, compatible with the large O'Ryan cover lens
0199-501002	IN.RAYS-200-20-SM	LED module produces uniform blended color, with 20 foot cable, compatible with the small O'Ryan cover lens
9920-401377	ADDITIONAL CABLE ACC MTA-MOLEX 8FT	8 foot cable for additional accessories
9920-401331	CABLE COM MOD MTAJACK 2.5mm 5FT	5 foot cable from K-96 to single speed WhirlMaster

Certification

This component has been judged on the basis of:

UL 1563 - STANDARD FOR ELECTRIC SPAS, EQUIPMENT ASSEMBLIES, AND ASSOCIATED EQUIPMENT - Edition 6 - Revision Date 2010/03/31

UL 1795 - STANDARD FOR HYDROMASSAGE BATHTUBS - Edition 4 - Revision Date 2010/03/23

OOI 8750 - The Outline of Investigation for Light Emitting Diode (LED) Light Sources for Use in Lighting Products

CSA C22.2 NO. 218.1 - SPAS, HOT TUBS, AND ASSOCIATED EQUIPMENT - Edition 1 - Revision Date 2010/03/01

CSA C22.2 NO. 218.2 - HYDROMASSAGE BATHTUB APPLIANCES - Edition 1 - Issue Date 1993/10/01
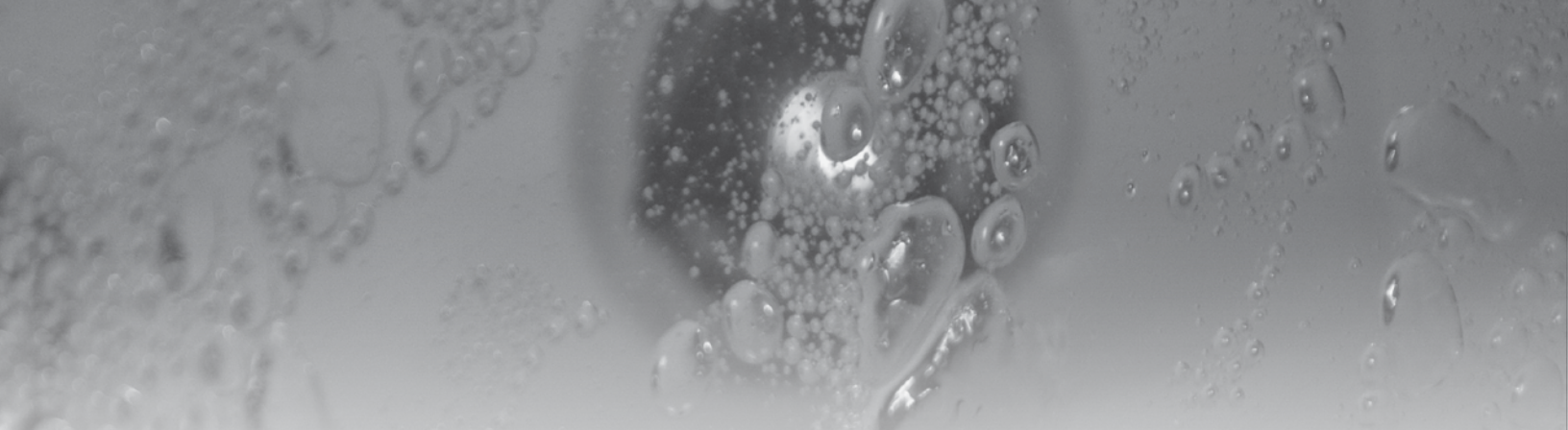
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