

# OWNER'S MANUAL & INSTALLATION GUIDE

## Air Baths

**INSTALLER: This booklet must be given to the product owner.**

Read all instructions before proceeding. All specifications are  $\pm \frac{3}{8}$ " and are subject to change without notice. Dimensions listed in inches.

# TABLE OF CONTENTS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS	4 – 5
AIR BATH USER INFORMATION	6
FCC INFORMATION	6
<b>INSTALLATION INSTRUCTIONS</b>	
Pre-Installation Procedures	8
Structural Preparation	9 – 11
Factory Installed Tile Flange	12
Plumbing	12
Electrical Installation	13
Electrical Connections	14 – 17
Variable Speed Air Blower Remote Mounting (Non-Freestanding)	18
Installation of Freestanding Models	19 – 22
Variable Speed Air Blower Remote Mounting (Freestanding)	23 – 24
Remote Control (Non-Freestanding)	25 – 26
Remote Control (Freestanding)	27
Final System Test & Clean-Up	28
<b>OPERATION</b>	
Bathside Control Systems (Non-Freestanding)	29
Bathside Control Systems (Freestanding)	30
To Replace LED Light	31
<b>TUB CARE</b>	
Maintenance	32
Flushing/Sanitizing	32
Surface Scratch Removal	32
Repair	32
Water and Air Temperature	32
<b>WATER QUALITY ISSUES</b>	
Chemical and Water Quality	33 – 34
<b>TROUBLESHOOTING GUIDE</b>	35
<b>REPLACEMENT PARTS LIST</b>	35
<b>REPLACEMENT PARTS MAP</b>	36

# INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

**WARNING:** When using this unit, basic precautions should always be followed. Failure to follow these instructions could result in personal injury, electric shock, or fire.

## READ AND FOLLOW ALL INSTRUCTIONS:

- **WARNING:** Risk of lethal electric shock. To reduce risk of electric shock, connect only to circuits protected by a Ground-Fault Circuit-Interrupter (GFCI) or Residual Current Device (RCD).
- **DANGER:** To reduce the risk of injury, do not permit children to use this unit unless they are closely supervised at all times.
- Use this unit only for its intended use as described in this manual. Do not use additional attachments and/or equipment not recommended by the manufacturer.
- Never drop or insert any object into any opening.
- The unit must be connected only to a supply circuit that is protected by a Ground-Fault Circuit-Interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, there is a ground current flowing, indicating the possibility of an electric shock. Do not use this unit. Disconnect the unit and have the problem corrected by a qualified service representative before using.
- To reduce the risk of injury, enter and exit the bath slowly.
- This product is intended for indoor use only. Installing this unit outdoors could cause personal injury and will void your warranty.

SAVE THESE INSTRUCTIONS.

### CALIFORNIA PROP. 65



**WARNING:** This product can expose you to chemicals including styrene and styrene compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

### Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING." These words mean:

### DANGER

You can be killed or seriously injured if you don't immediately follow instructions.

### WARNING

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

# INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

Before taking your first air bath, be sure you have performed the "Flushing/ Sanitizing." [See **TUB CARE** on page 32.] Be sure that you are familiar with all the controls and switches and that the unit is operating properly. [See **BATHSIDE CONTROL SYSTEMS** on pages 29 - 30.]

1. The water in a bath tub should never exceed 40° C (104° F). Water temperature between 38° C (100° F) and 40° C (104° F) are considered safe for a healthy adult. Bathing time should be limited to approximately 30 minutes, followed by a shower to cool down. Longer exposure may result in hyperthermia. The symptoms of this condition are nausea, dizziness and fainting, which can be fatal. Lower water temperatures are recommended for extended use (exceeding 10-15 minutes) and for young children.
2. If you will not be operating the air bath system during your bath, you may fill the bathtub to any comfortable level. However, if you will operate the system, you must fill the bathtub with water to a minimum of 4" above air channel. This will assure proper operation of the system.
3. A few important bathing "DONT'S"-

**DO NOT operate the air bath system if:**

- The bathtub isn't filled to required levels above air channels.
- You're pregnant (until you've consulted your doctor).
- You're taking medications or drugs that may make you drowsy.
- You're drinking any form of alcohol.
- You've just had a meal. Wait for 30 minutes after eating.
- There is a child in the bathtub who may be left unattended at any time. Never allow small children to remain unattended in any bathtub.
- There are any small objects in the bathtub. The air bath action can move small objects at high speeds, causing pain and possible injury.
- You're smoking. The heat of burning tobacco can damage the bathtub surface. Keep tobacco products and ashtrays away from the bathtub.
- You have problems with your immunity system (until you have consulted your doctor).
- Never operate electrical appliances (television, hair dryer, radio, telephone, etc.) inside or within five feet (5') of the bath.
- You are using additional attachments and/or equipment not recommended by the manufacturer.
- You have a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes, consult with a physician before using an airbath.
- You are under the influence of drugs, anticoagulants, stimulants, antihistamines, vasoconstrictors, vasodilators, hypnotics, narcotics, or tranquilizers.

# AIR BATHS USER INFORMATION

**PLEASE NOTE:** The air bath action may cause even small amounts of bubble bath or shampoo to foam excessively. Exercise moderation in experimenting with different soap products.

No servicing of this product should be done by the user. There are no user serviceable parts. All controls are located in the control recesses on the lip of the tub. These are the only controls that should be used by the consumer. Do not change or alter any of these controls under any circumstances.

Motors are self-lubricating – No lubrication required.

## FCC CONSUMER INFORMATION

Electrical installation information listed on page 13.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturers instruction, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in subpart J of part 15 of the FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the receiver with respect to the bath tub.
- Move the receiver away from the bath.
- Plug the receiver into a different outlet so that the receiver and bath are on different branch circuits.
- If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.
- The user may find the following booklet prepared by the FCC helpful: "How To Identify and Resolve Radio-TV Interference Problems." It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No., 004-000-00345-4.

# INSTALLATION INSTRUCTIONS

## READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

### PRE-INSTALLATION PROCEDURES

**PLEASE NOTE:** THE MANUFACTURER ACCEPTS A  $\pm 3/8"$  VARIANCE. THERE ARE VARIATIONS ON EACH TUB AND SPECIFICATIONS ARE SUBJECT TO CHANGE AS WE IMPROVE UPON OUR PRODUCT AS REQUIRED.

THE DIMENSIONS NEEDED FOR SITE PREPARATION AND STRUCTURE BUILDINGS SHOULD BE MEASURED FROM THE TUB; **RANDOLPH MORRIS** ASSUMES NO RESPONSIBILITY FOR PREPARATORY WORK.

**Note:** A good knowledge of construction techniques, plumbing and electrical installation according to codes are required for proper installation. We recommend that a qualified licensed contractor perform the installation of all Randolph Morris products. Our warranty does not cover improper installation problems.

1. Immediately upon receiving your bath, inspect it thoroughly for freight damage. Should inspection indicate any damage, do not install the bath.
2. All baths are filled with water and operated in our manufacturing facility prior to shipment. Inspectors ensure watertight operation, however, rough handling may cause leaks which may be detected prior to installation.

Damage or defect to the finish claimed after the bath is installed is not covered under the warranty.

### TO INSPECT:

1. Place the tub in an area where it may be drained after testing.
2. Fill the tub to the overflow and allow to stand for a few minutes. Carefully inspect all fittings and connections for leaks.
3. Plug in blower control box and run blower for 10 minutes.
4. Inspect the tub completely. Should inspection indicate any damage or leaks, do not install the bath.
5. Check to ensure that your installation will conform to all applicable codes and secure necessary permits. All electrical and plumbing connections should be made by qualified electricians and plumbers.

Damage or leaks claimed after the bath is installed are not covered under the warranty.

### **WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS DURING INSTALLATION WILL RESULT IN TERMINATION OF THE WARRANTY:**

Do not lift the tub by any portion of the plumbing or blower.  
Do not stand in the tub during construction.

DO NOT MAKE ANY ALTERATIONS, ADDITIONS, OR DELETIONS TO THE  
AIR BATH SYSTEM BLOWER OR BATH.

### QUIETNESS OF OPERATION

**These tubs are** engineered from base to lip to ensure quality, value, functional design, and maximum bathing comfort. However, installation is accountable for as much as 50% of a tub's operating quietness. Please ensure the following:

- The floor structure is adequate to support the installation.
- For quieter operation and heat retention conservation, the walls surrounding the air bath may be insulated.\*
- Insulate the tub surround.\* Do not allow any insulation to come within 3 feet of the blower. The area around the blower must be clean and free of any foreign matter.
- Leave  $1/8"$  to  $3/16"$  gap between tub lip and surround.\*
- Spread a bed of cement mortar on the floor or subfloor under the air bath to reduce vibration and noise.\*

*\*Not required on freestanding models.*

# INSTALLATION INSTRUCTIONS

## READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

### STRUCTURAL PREPARATION

**NOTE:** The bath should remain in its shipping carton until time of installation.

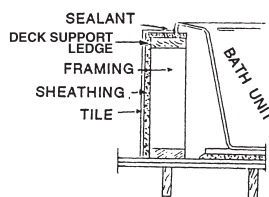
1. Literature dimensions are for reference only. Installation dimensions should be taken directly from the tub.
2. Building materials and wiring should be routed away from the pump body or other heat-producing components. An unobstructed access panel of 16" x 16" minimum must be provided at the blower end of the air bath allowing sufficient clearance to make final connections and for servicing the blower and power panel. Access may be through the wall or platform apron at the end of the unit. In the case of sunken installations, access should be made through the ceiling below. A minimum ventilation opening of 2" x 4" for the blower is required and should be designed to draw in ambient air at a minimum of 72° F.

**It is the installer's responsibility to provide sufficient service access. Make absolutely certain that access panels and/or service openings are properly placed and that all possible areas where service may be required are accessible.**

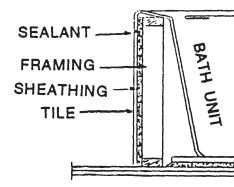
3. Install the drain fitting to the bath. THE DRAIN FITTING WILL PROTRUDE BELOW THE BASE OF THE TUB APPROXIMATELY 1 1/2". Clearance may be needed for the drain by cutting away the subfloor (where possible) or by blocking below the tub as may be required. **WARNING: FACTORY SKIRTS DO NOT ALLOW FOR BLOCKING UP OF THE TUB BASE.** All blocking must be solid and provide uniform support to the tub base.

**NOTE:** Watertight installation of the drain and overflow is the installer's responsibility. Drain and/or overflow leakage is not included in the warranty of this product.

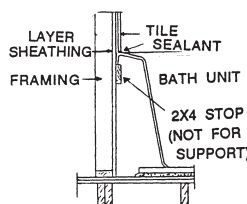
4. Tub must rest entirely on its base. **DO NOT SUPPORT THE BASE OF THE TUB BY THE RIM.** **Randolph Morris** strongly recommends preparing a bed of wet mortar in the area where tub is to be installed to assist in leveling and reduce vibration noise. Carefully level unit, ensuring that uniform support is given to all areas of the base and no portion of the lip is bearing weight.
5. Frame out under the tub rim as shown in one of the illustrations (See diagram 1A-1D). **NOTE:** Due to the variety of installations possible, framing procedures other than those described may be required. Level in selected location. Level front to back and across both sides. A ledge under the rim, or an apron without a ledge, may be constructed as required (see Diagrams 1A and 1B). Where installation will be against a wall, stud wall framing should allow for wall sheathing material to run full length to the floor (see Diagram 1C). Install tub firmly against sheathing as indicated, with blocking below rim to prevent deflection or movement of tub. To prevent a rocking movement of tub after installation, it is important to have rim in contact, but not supported by blocking material.
6. When placing the tub on a platform or cut out (see Diagrams 1A and 1D), the opening should be 1" smaller than the specified rim dimensions. Extreme care must be taken in this type of installation to ensure the tub will come to rest entirely on the base.
7. Another installation option is that of a tile flange.



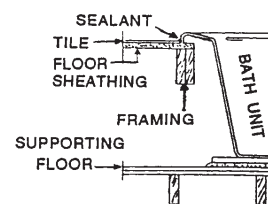
**1A LEDGE INSTALLATION**



**1B APRON INSTALLATION**



**1C WALL INSTALLATION**



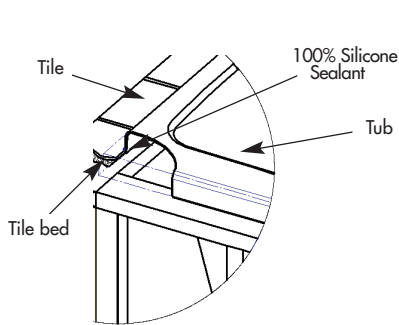
**1D SUNKEN INSTALLATION**

*Note: The above illustration does not apply to freestanding models.*

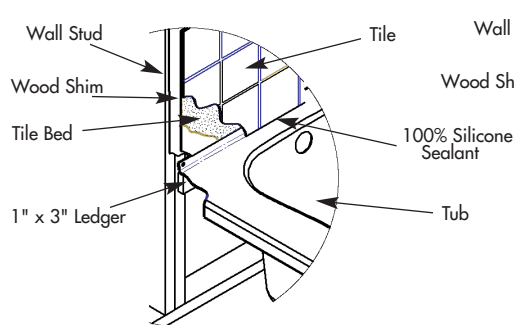
# INSTALLATION INSTRUCTIONS

## FRAMING DIAGRAMS

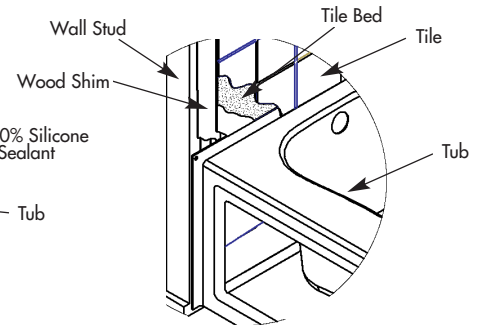
1. Protect interior of tub throughout installation process.
2. Framing and supports will vary according to the model and type of installation selected.
3. Please refer back to the unit's Technical Data sheet for specific dimensions located at [www.aquaticbath.com](http://www.aquaticbath.com).



Island Drop-In



Alcove-Integral Tiling Flange



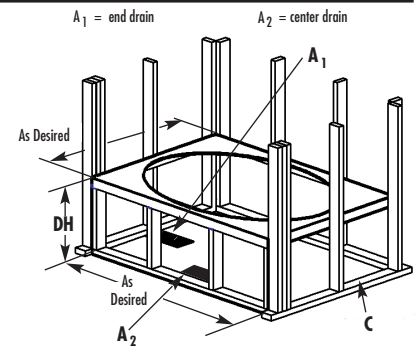
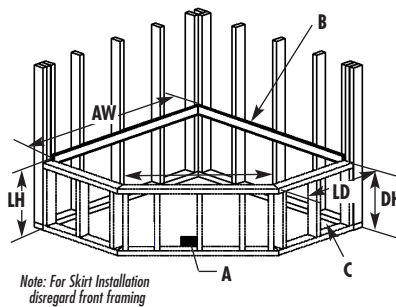
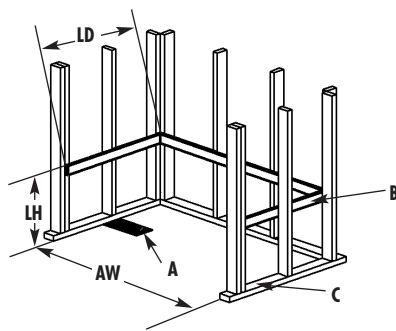
Alcove-Integral Skirted Models

### RECTANGULAR MODELS

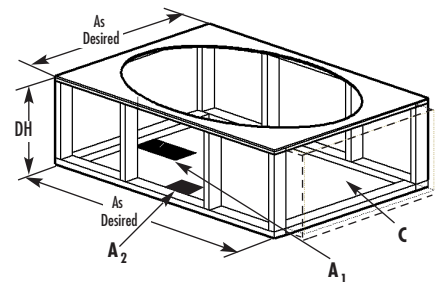
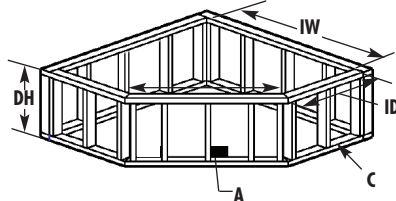
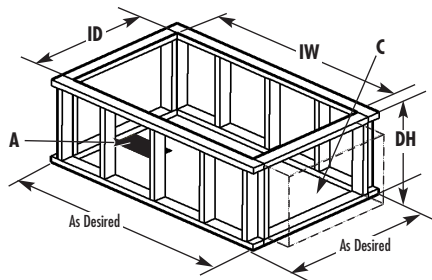
### CORNER MODELS

### OVAL MODELS

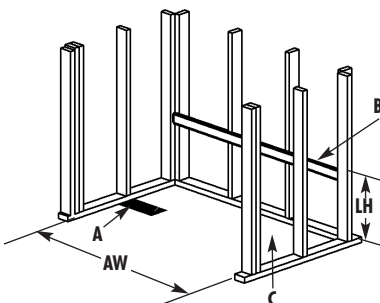
ALCOVES



ISLANDS



INTEGRALLY SKIRTED MODELS



#### LEGEND

AW Overall Width  
DH Deck Height  
ID Inner Depth  
IW Inner Width  
LH Ledge Height  
LD Ledge Depth

A - 6" x 12" Box-outs  
B - Levelled Supports  
1" x 3" Ledgers  
C - 16" x 16" minimum access on pump end



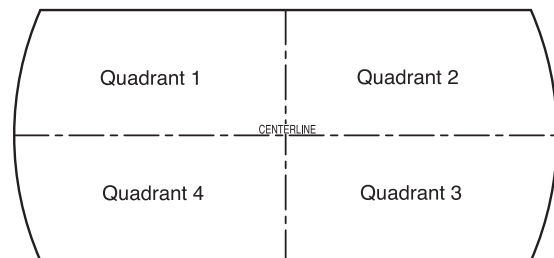
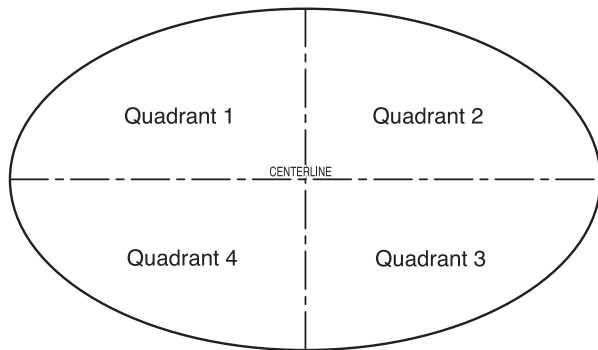
# INSTALLATION INSTRUCTIONS

## DECK CUTOUTS

A paper template will be enclosed with all rounded-edged models. Use the directions on the paper template for cutout dimensions. **If the paper template has been lost or needs replacement, please contact Customer Service at: 800.945.2726.**

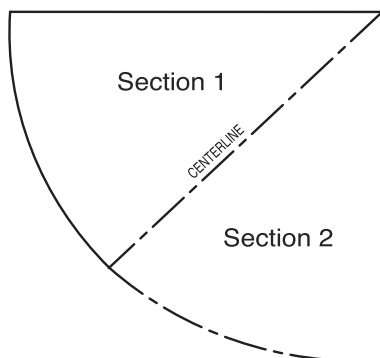
### USING THE CUTOUT TEMPLATE

Draw a center line horizontally and vertically on a 1" thick plywood deck. Place the template in the upper left hand quadrant, noted as Quadrant 1 on the diagram below. Trace template to outline Quadrant 1. Flip the paper cutout horizontally, making sure to match the dotted center line on the template with the center line on the plywood. Trace again to outline Quadrant 2. Repeat until the remaining quadrants of the cutout have been traced.



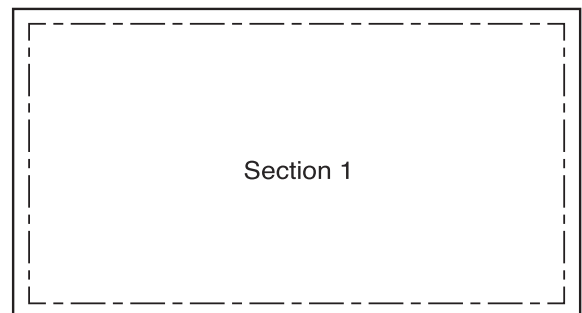
### CORNER MODELS

On a 1" thick plywood deck, place the template in the upper section noted as Section 1 in the diagram. Trace Section 1 to establish the centerline and front edge of the cutout. Flip the template along the centerline and trace to complete the other half of the unit noted as Section 2 in the diagram below.



### RECTANGLE MODELS

Using a 1" thick plywood deck, the cutout should be 2" smaller than the overall tub dimensions (length & width), for 1" overhangs on all sides. For example, a 72" x 42" unit should have a deck cutout of 70" x 40". Additional dimensions can be found in the technical data sheets at [www.aquaticbath.com](http://www.aquaticbath.com).

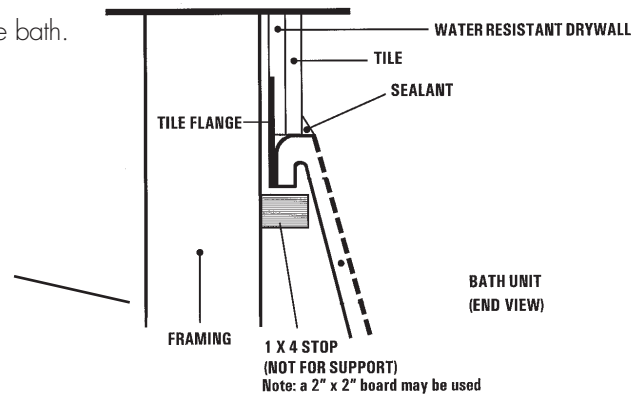


# INSTALLATION INSTRUCTIONS

## FACTORY INSTALLED TILE FLANGE

1. Install the air bath unit per the instructions provided in this manual. **CAUTION: THE TILE FLANGE DOES NOT SUPPORT THE TUB!** A ledger board must be provided under the bath rim as indicated in the installation instructions. Take care to ensure tub is not hanging from the ledger boards, as this will void your warranty.
2. Use nails or screws to secure the flange into the studs around the bath.
3. Install water resistant drywall against the tile flange and flush to the top of the air bath deck. Install the tile or other finishing materials. Apply a second bead of silicone between the first course of tile and the bath deck.

**NOTE:** Before tub is used, the air bath system should be cleaned in accordance with the procedures on Page 32 of this manual.



## PLUMBING

1. After securing tub in place, normal waste and overflow, water spout and valves are installed per normal plumbing procedures, in accordance with all state and local standards.
2. Install standard 1-1/2" trap to drain and overflow. Before proceeding, make final operational check by filling tub with water to overflow and operate blower for 5 minutes. Carefully check for leaks both while blower is running and after it has been turned off. Allow water to stand in tub for at least 30 minutes before draining. **RANDOLPH MORRIS WILL NOT BE RESPONSIBLE FOR WATER DAMAGE OF ANY KIND.**
3. When selecting fill spout location, check to ensure that spout is long enough to clear the tub rim from its desired location. If installation is to be on the tub deck, check the back side of tub for adequate space for connection to water lines and that there are no air channels running under that area of the tub rim before drilling or cutting tub.
4. A service access panel of a minimum of a 16" square must be provided adjacent to blower and control box assembly.

**Note:** For rough-in measurements please refer to the unit's technical data sheet.

# INSTALLATION INSTRUCTIONS

## ALL MODELS

### ELECTRICAL INSTALLATION

**WARNING:** ALL ELECTRICAL CONNECTIONS SHOULD BE MADE BY A LICENSED, LOCALLY CERTIFIED ELECTRICIAN, IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODES AND PROCEDURES.

**WARNING:** WHEN USING ELECTRICAL PRODUCTS, PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

**DANGER:** RISK OF ELECTRIC SHOCK! This unit requires one dedicated circuit, protected by a Ground Fault Circuit Interrupter (GFCI). Rough in wiring to control box on a dedicated 120V, 15 amp, GFCI protected circuit.

GFCI's are not supplied, however we do specify their use.  
All known code authorities require GFCIs.

**ELECTRICAL:** A GFCI protected, 120 Volt, 15 Amp, 60 HZ circuit with a service ground is required, "dedicated" only to powering the bath.

**PLEASE NOTE:** Because the blower is housed in a plastic non-conductive housing, the blower does not need to be grounded.

**DANGER:** Risk of electric shock. Do not alter the factory installed wiring. A licensed electrician must provide the "dedicated" electrical service protected by a GFCI. The location of the GFCI must be accessible for regular testing.  
**USE COPPER CONDUCTORS ONLY.**

**CAUTION:** Before use of the blower, test the GFCI for proper operation. The blower should turn off when the GFCI "Test" button is pushed.

**WARNING:** Prolonged Immersions in Hotter Water May Induce Hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include (1) failure to perceive heat, (2) failure to recognize the need to exit the air bath, (3) unawareness of impending hazard, (4) fetal damage in pregnant women, (5) physical inability to exit the air bath, (6) unconsciousness resulting in the danger of drowning.

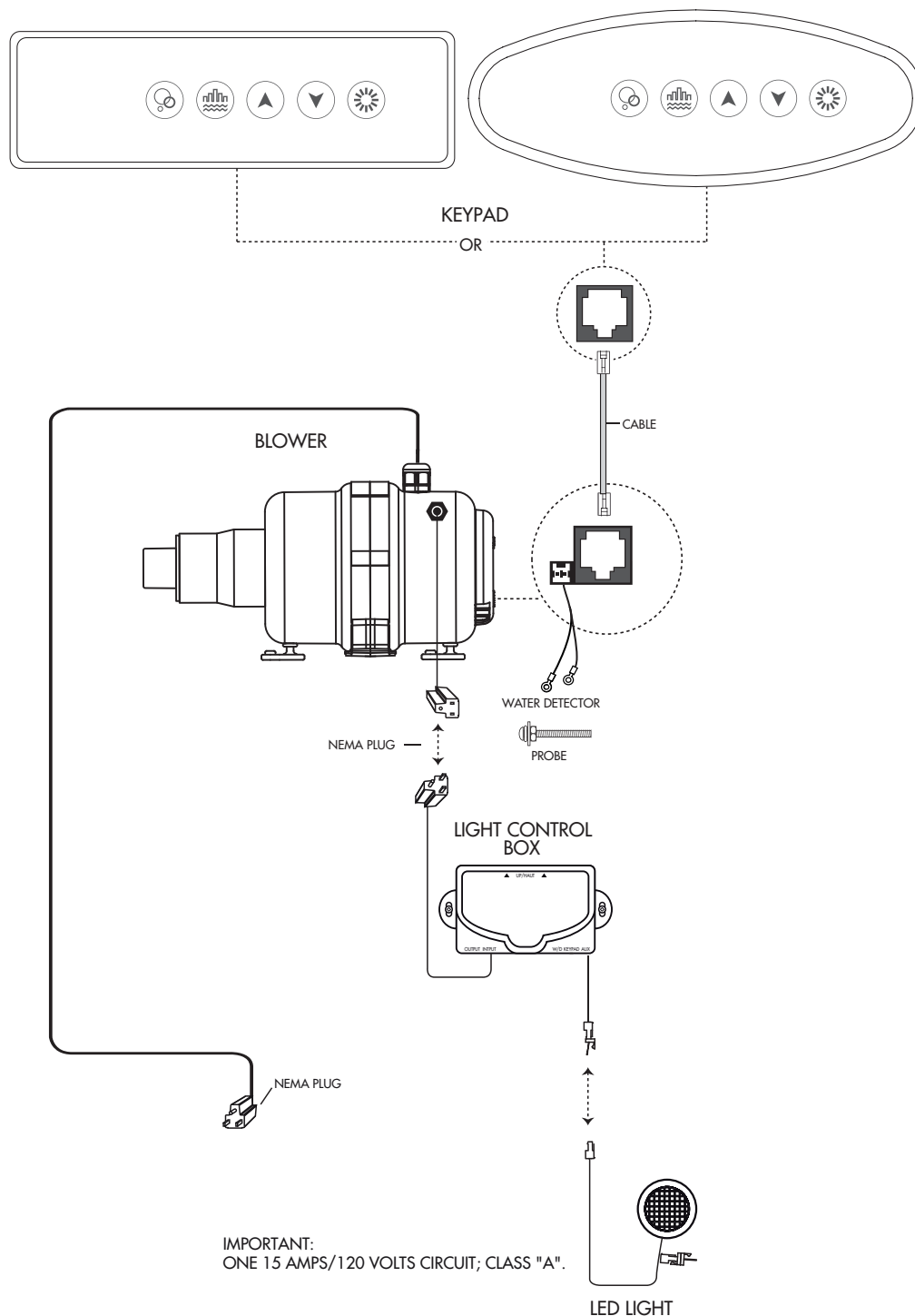
**WARNING:** The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

# INSTALLATION INSTRUCTIONS

NON-FREESTANDING MODELS

## ELECTRICAL CONNECTIONS

### Air Series Component Breakdown

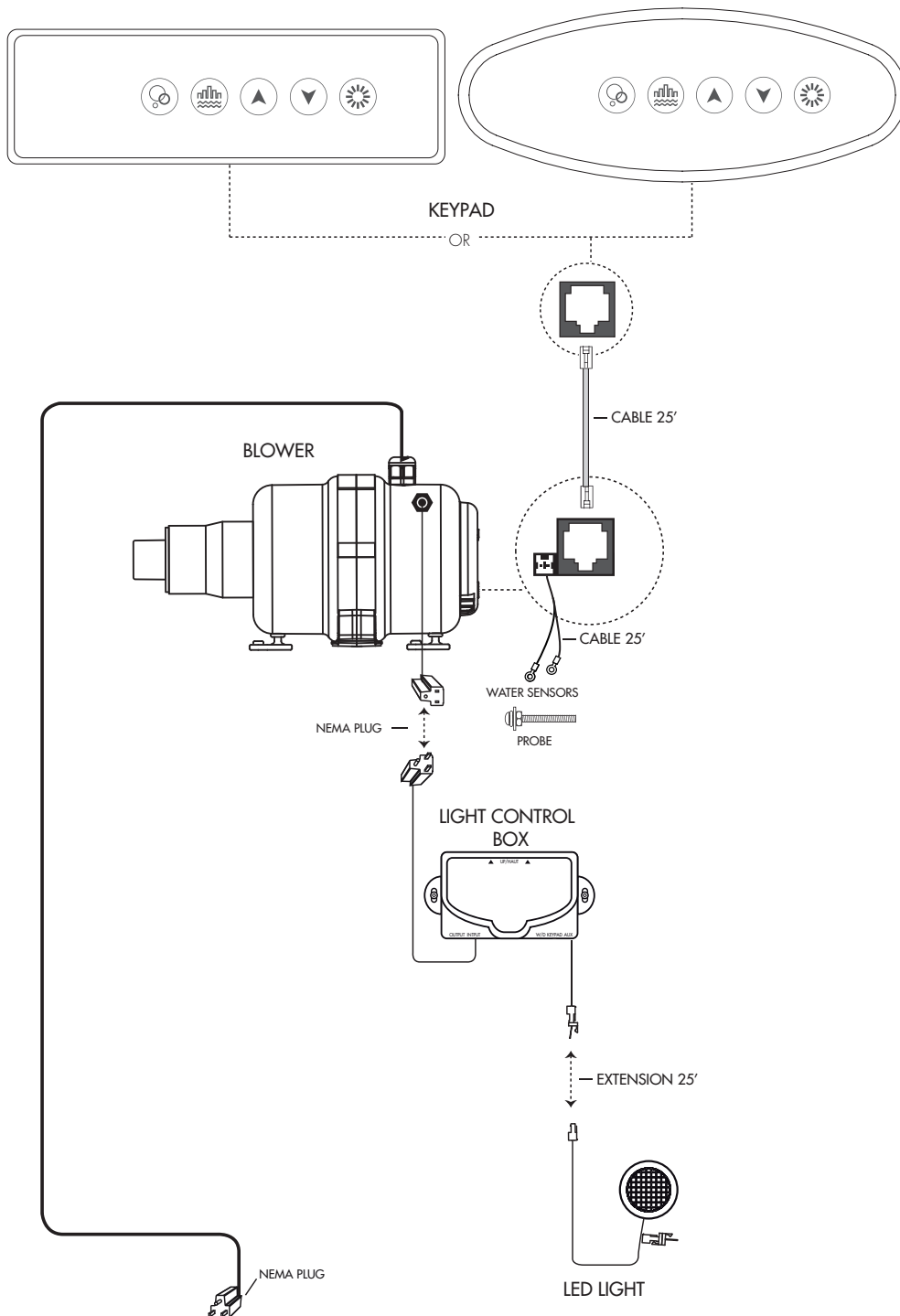


# INSTALLATION INSTRUCTIONS

NON-FREESTANDING MODELS

## ELECTRICAL CONNECTIONS

### Air Series Remote Blower Option Component Breakdown



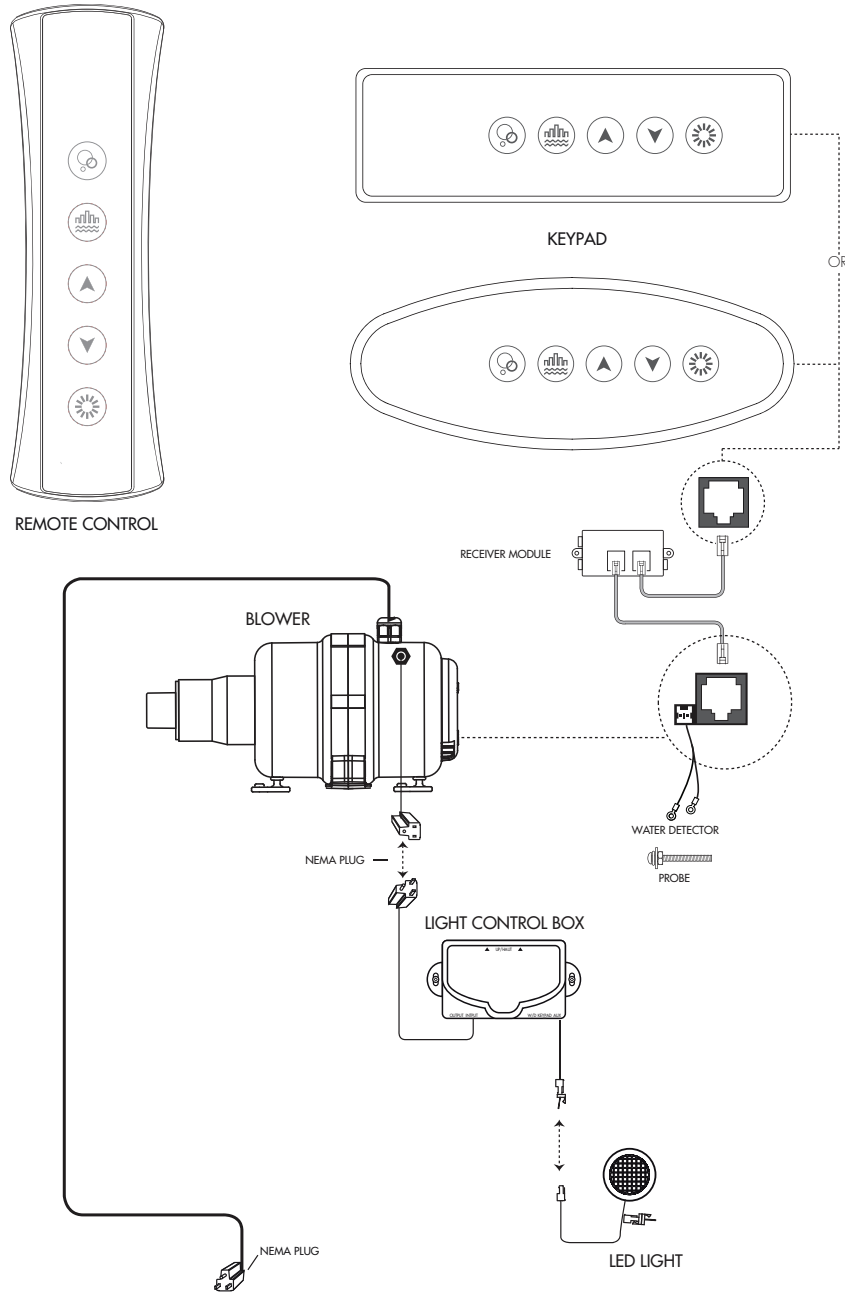
**IMPORTANT:**  
ONE 15 AMPS/120 VOLTS CIRCUIT; CLASS "A".

# INSTALLATION INSTRUCTIONS

NON-FREESTANDING MODELS

## ELECTRICAL CONNECTIONS

### Air Series Remote Option Component Breakdown



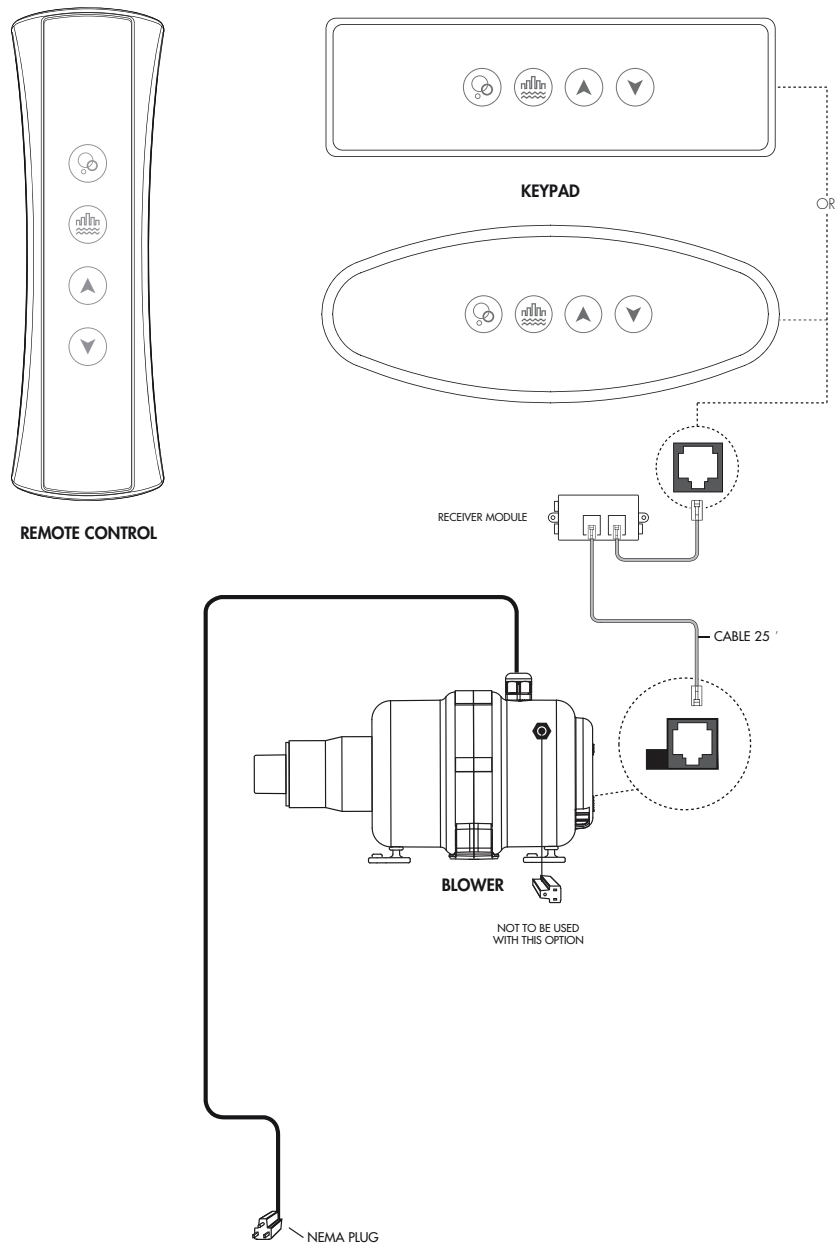
**IMPORTANT:**  
ONE 1.5 AMP/120 VOLTS CIRCUIT; CLASS "A".

# INSTALLATION INSTRUCTIONS

FREESTANDING MODELS

## ELECTRICAL CONNECTIONS

### Air Series Freestanding Component Breakdown



**IMPORTANT:**  
ONE 15 AMP/120 VOLTS CIRCUIT; CLASS "A".

# INSTALLATION INSTRUCTIONS

NON-FREESTANDING MODELS

## VARIABLE SPEED AIR BLOWER REMOTE MOUNTING All models except freestanding models

### Designating a Remote Location

The designated location for the blower must not exceed more than 15 feet of pipe and 6 directional changes. Choose a place as close to the bath as possible to make sure that the system works properly. The chosen place must not be cluttered and/or dusty and must allow for sufficient air circulation. The blower measures 7" W x 11" L x 6 1/2" H. This space must not be smaller than 4 cubic feet and must have a ventilation opening not smaller than 2" x 4". The air around the blower should be approximately 72°F (20°C) or higher for optimal performance.

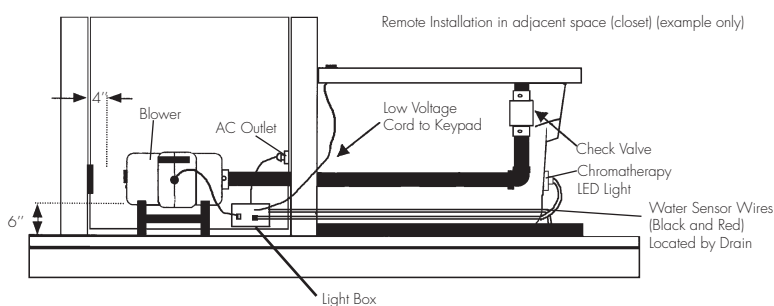
- The blower and light control box must be accessible at all times.
- The extension cords must be able to reach the light control box and be routed per local code requirements.

### Installing the Blower in a Remote Location

The blower can be installed horizontally or vertically. The blower intake maybe installed up or down. Use PVC 1 1/2" pipe and adapters only. Whenever possible, use two 45° elbows instead of one 90° elbow to change the direction of your pipe. Glue all pipe connections along the extension you have added. But DO NOT glue the pipe going into the blower; use the screw you removed when the blower was removed.

- The blower should be 6" off the floor or from the ceiling and the air intake end of the blower should be at least 4" from any walls or joists.
- To reduce heat loss, insulate the pipe.

Mount the Light Control Box close to the blower and the AC outlet. Plug in the key pad cable, blower cable, water level sensor cable and attach the Chromatherapy LED light wires. (See image below.) Now plug into a minimum 15 amp, 120V vac that is GFCI protected.





# INSTALLATION INSTRUCTIONS

## FREESTANDING MODELS

### INSTALLATION OF FREESTANDING MODELS

#### NOTE:

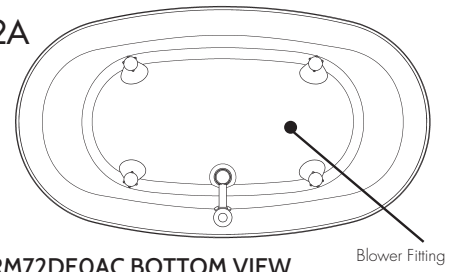
- Freestanding units must be placed on a perfectly leveled floor.
- The blower must be mounted in a remote location and cannot be installed on the bath.
- Wall mounted or freestanding faucets must be used.

#### RM66DEOAC, RM72DEOAC, RM66DEOAIR, and RM72DEOAIR Installation

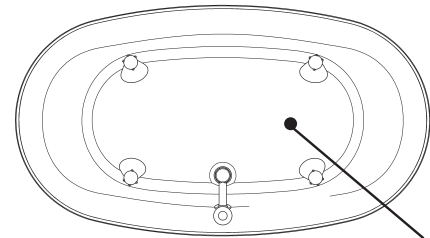
For information on electrical installation, maintenance and care, troubleshooting and warranty, please refer to the Table of Contents. Before the floor installation is complete, make sure it is perfectly level. Once the floor installation is complete, determine the exact location of the bath and mark the floor position of the four claw feet (see Diagram 2A). To help prevent the bathtub from shifting, we recommend the bathtub legs to be anchored to the floor. Also, mark the position of the holes to be drilled for the blower air passage and drain.

1. Drill a 2" hole for the air passage and 2" hole for the drain.
2. Install the drain and overflow on the bath. Cut pipes to desired length prior to assembly. Next, glue the first section of pipe (PVC 1 1/2") to the air passage under the tub and then cover the pipe with the pipe concealer (see Diagram 2B).

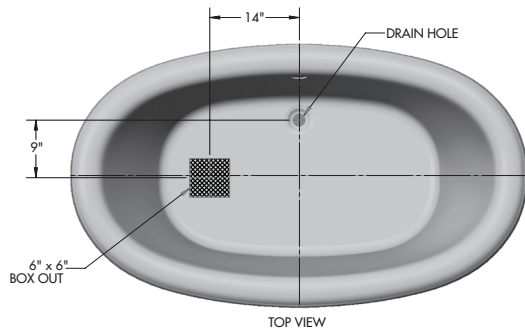
Diagram 2A



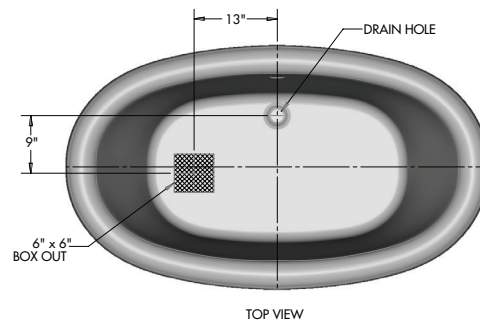
RM72DEOAC BOTTOM VIEW



RM66DEOAC BOTTOM VIEW

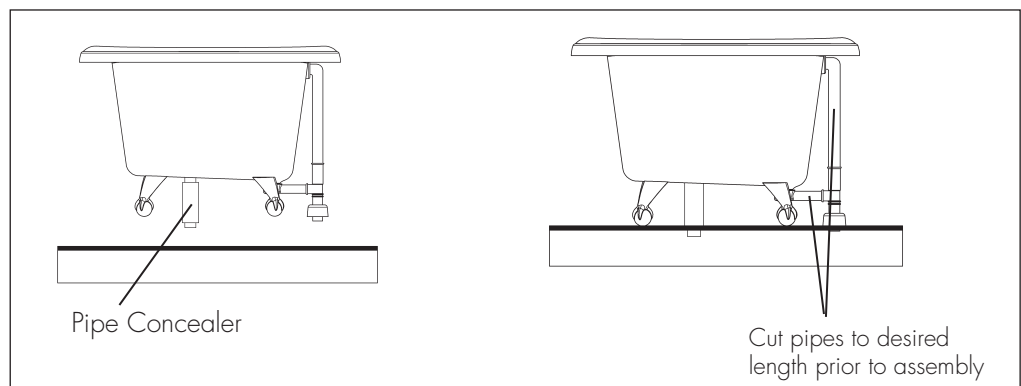


RM72DEOAC TOP VIEW



RM66DEOAC TOP VIEW

Diagram 2B



# INSTALLATION INSTRUCTIONS

## FREESTANDING MODELS

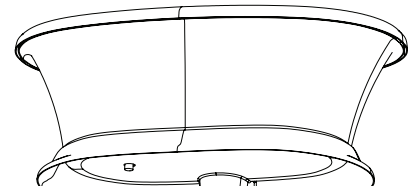
### RM66DEOAC, RM72DEOAC, RM66DEOAIR, and RM72DEOAIR Installation

Before the floor installation is complete, make sure the floor is level. Once the floor installation is complete, determine the exact location of the bath and trace the contour of the bath with an erasable marker pen. **NOTE:** You will need to remove the base attached to the bottom of the unit for shipping.

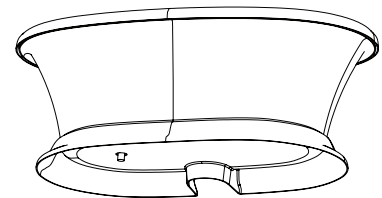
For information on electrical installation, maintenance and care, troubleshooting and warranty, please refer to the Table of Contents.

1. Determine the exact location of the drain, air passage and the two anchoring points at each end of the bath (see Diagram 3A).
2. To prevent the bath from moving sideways, secure the two anchoring pins (3/8" x 3" lag bolts, not supplied) to the floor. Leave the lag bolts 1 1/2" above floor. Wipe off the marker tracings (see Diagram 3B).
3. Install the overflow and drain on the bath. Cut pipes to desired length prior to assembly. Glue the first pipe section (PVC 1 1/2") of the air passage to go under the floor and make sure pins are lined up with holes in tub. Apply a silicone seal under the rim of the base and lay the bath down putting the pipes through the floor (see Diagrams 3C and 3D). Immediately remove any excess silicone. Also see Top Views Diagram 3E.

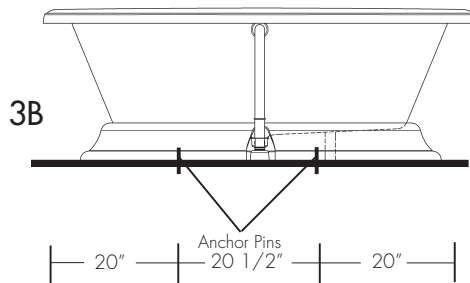
3A wooden



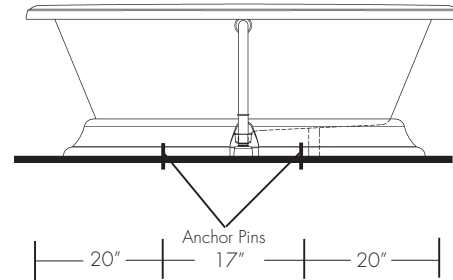
RM72DEOAC  
BOTTOM VIEW



RM66DEOAC  
BOTTOM VIEW



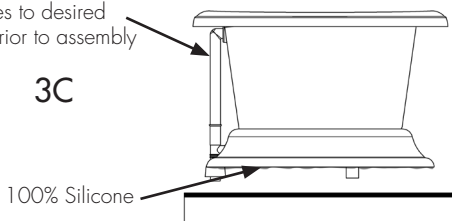
RM72DEOAC SIDE VIEW



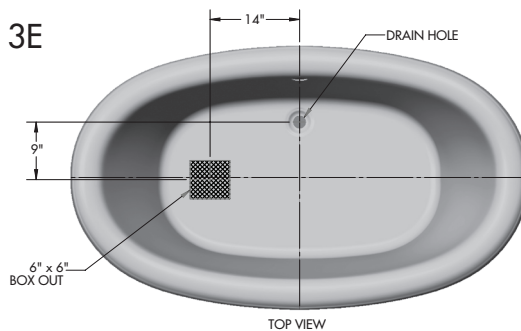
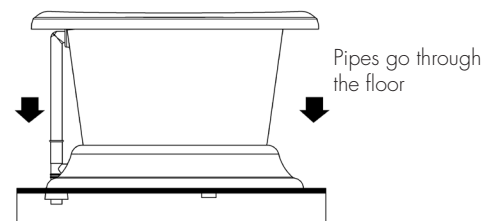
RM66DEOAC SIDE VIEW

Cut pipes to desired length prior to assembly

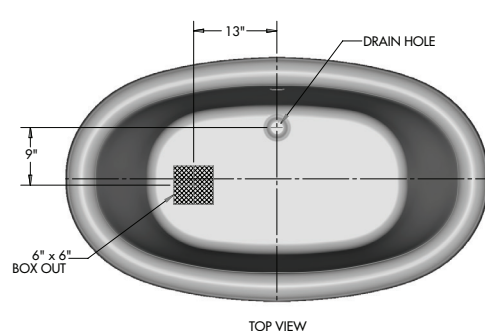
3C



3D



RM72DEOAC TOP VIEW



RM66DEOAC TOP VIEW

# INSTALLATION INSTRUCTIONS

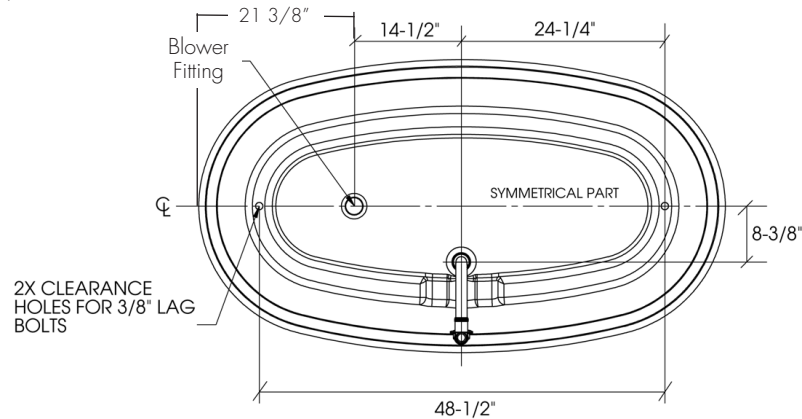
## FREESTANDING MODELS

### Drop-In Installation

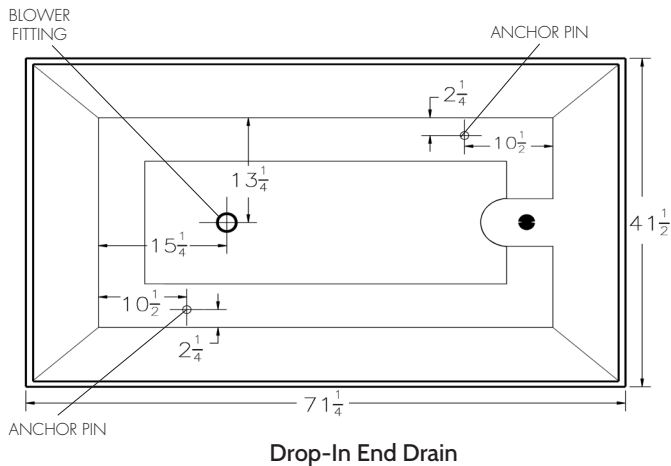
Before installation is complete, make sure the floor is level. After that, determine the exact location of the bath and trace the contour of the bath with an erasable marker pen.

For information on electrical installation, maintenance and care, troubleshooting and warranty, please refer to the Table of Contents.

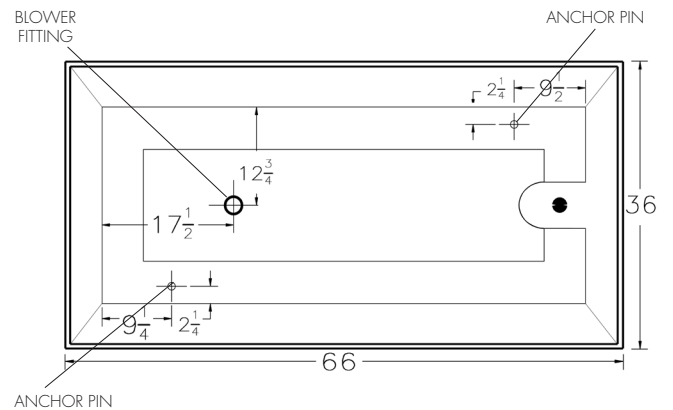
1. Determine the exact location of the drain, air passage and the two anchoring points at each end of the bath (see following diagrams).



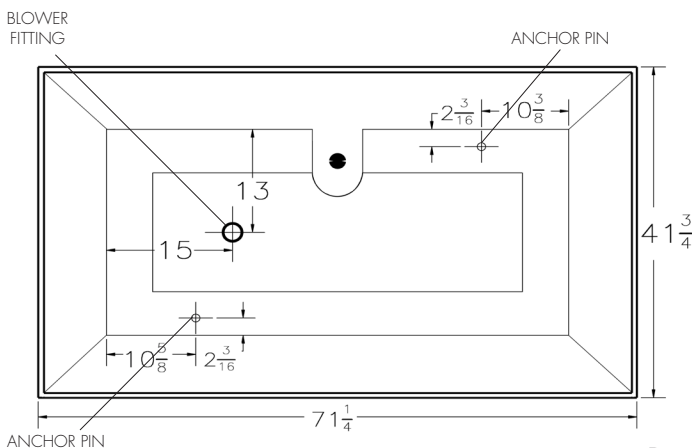
Hanna 7240CF



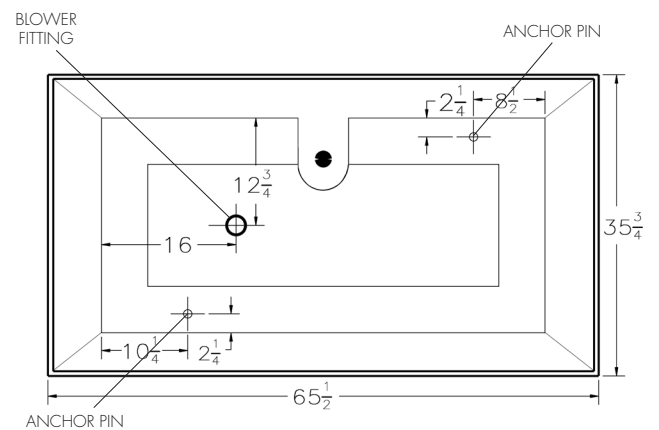
Drop-In End Drain



Drop-In End Drain



Drop-In Center Drain



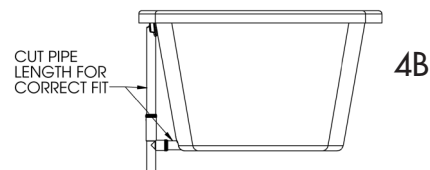
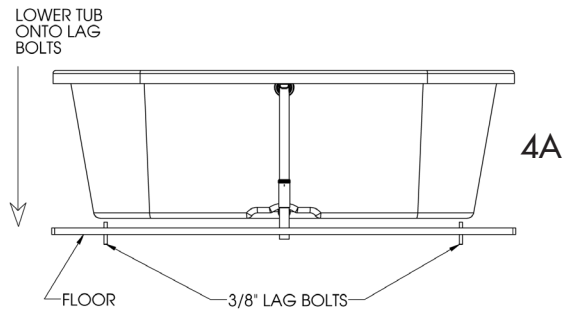
Drop-In Center Drain

Bottom View

# INSTALLATION INSTRUCTIONS

## FREESTANDING MODELS

2. To prevent the bath from moving sideways, secure the two anchoring pins ( $3/8" \times 3"$  lag bolts, not supplied) to the floor (see Diagram 4A). Leave the lag bolts  $1\ 1/2"$  above floor. Wipe off the marker tracings.
3. Install the overflow and drain on the bath. Cut pipes to desired length prior to assembly (see Diagram 4B). Glue the first pipe section (PVC  $1\ 1/2"$ ) of the air passage to go under the floor and make sure pins are lined up with holes in tub. Apply a silicone seal under the rim of the base and lay the bath down putting the pipes through the floor. Immediately remove any excess silicone.



# INSTALLATION INSTRUCTIONS

FREESTANDING MODELS

## VARIABLE SPEED AIR BLOWER REMOTE MOUNTING for freestanding models

### Designating a Remote Location

The designated location for the blower must not exceed more than 15 feet of pipe and 6 directional changes. Choose a place as close to the bath as possible to make sure that the system works properly. The chosen place must not be cluttered and/or dusty and must allow for sufficient air circulation. The air around the blower should be approximately 72°F (20°C) for optimal performance. The blower and control box must be accessible at all times.

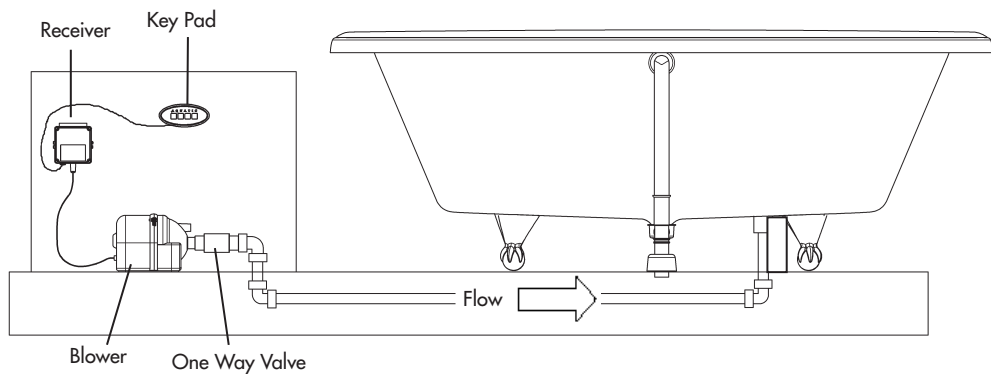
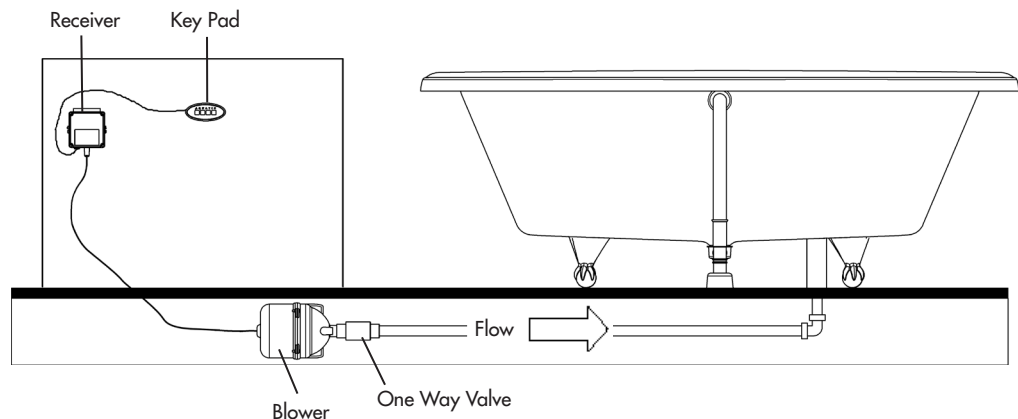
### Installing the Blower in a Remote Location

The blower will come attached to the one way check valve, make sure the arrow on the valve is pointing away from the blower.

The blower can be installed horizontally or vertically. The blower intake may be installed up or down. Use PVC 1 1/2" pipe and adapters only. Whenever possible, use two 45° elbows instead of one 90° elbow to change the direction of your pipe. Glue all pipe connections along the extension you have added.

The blower should be 6" off the floor or ceiling and the air intake end of the blower should be at least 4" from any walls or joists. The location of the blower should not be air tight; a gap of 1" is recommended for good air circulation. To reduce heat loss, insulate the pipe.

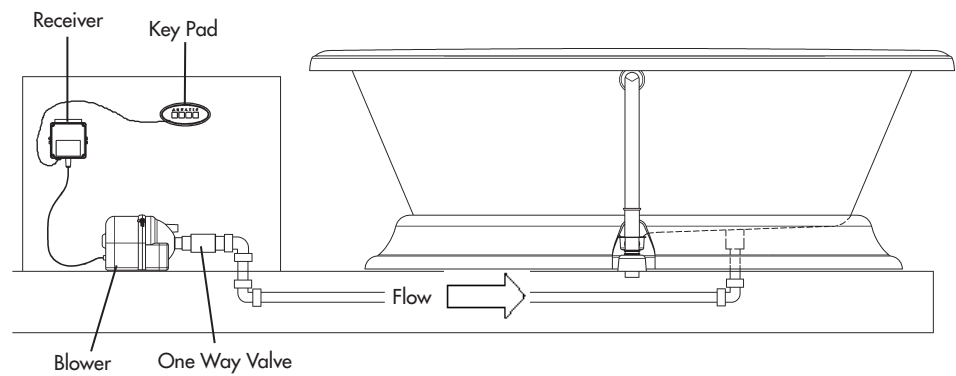
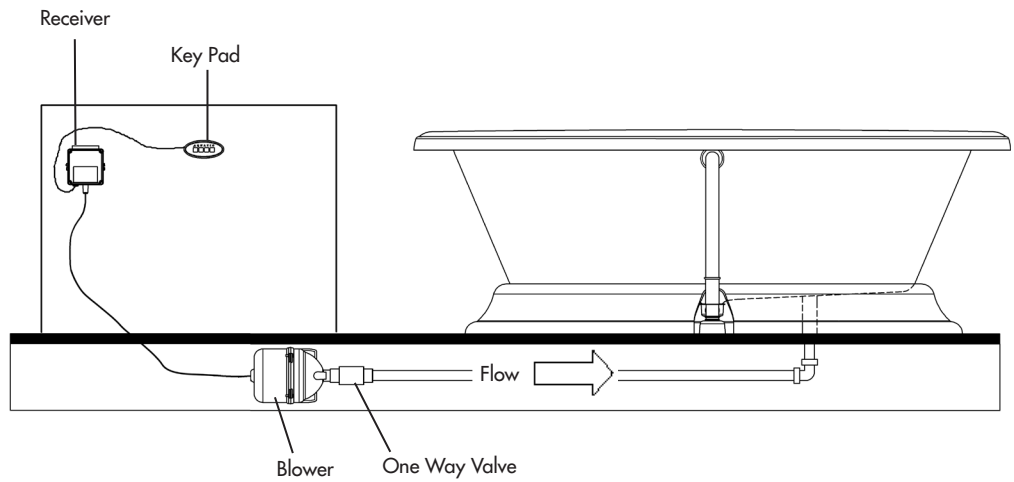
### Sample Installations:



# INSTALLATION INSTRUCTIONS

## FREESTANDING MODELS

### Sample Installations:



# INSTALLATION INSTRUCTIONS

## NON-FREESTANDING MODELS

### REMOTE CONTROL OPTION (NON-FREESTANDING)

Receiver Module and remote may be used in conjunction with supplied keypad or without.

#### Receiver Module Installation

The receiver module must be installed under the bathtub rim as shown in Figure 7A.

##### IMPORTANT:

- In order to obtain the best reception possible, we recommend not to install the receiver module next to the faucets or metal piping.
- Location of the receiver module must be easily accessible from the outside of the bathtub for maintenance.

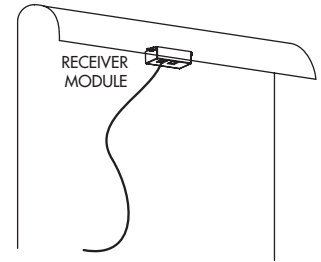


Figure 7A

#### Remote Control and Keypad Used to Activate the System

1. Plug in the cable as shown in Figure 7B.
2. Once everything is connected, the remote control is ready for synchronization.

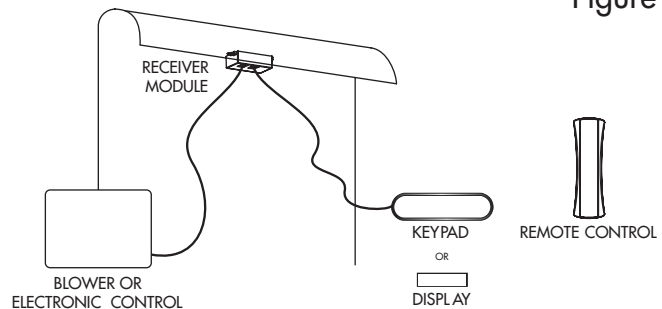
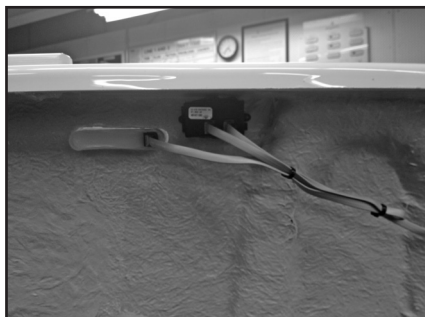


Figure 7B

#### Synchronization

1. Once the system has been connected, the remote control must be synchronized with its receiver module.
2. Switch off the main breaker or unplug the system and switch it on again.
3. From this moment you have 15 seconds to proceed with the synchronization.
4. Press simultaneously on buttons 1 & 2 of the remote for 4 seconds as shown in Figure 8.
5. The remote control is now synchronized and ready for use.
6. If the synchronization is not successful the first time, you should resynchronize, starting from step 2.



Module and keypad  
are factory installed



Figure 8

# INSTALLATION INSTRUCTIONS

NON-FREESTANDING MODELS

## REMOTE CONTROL OPTION (NON-FREESTANDING) (CONT.)

### Remote Control Installation

The following components are necessary

- 1 remote control
- 2 magnets
- 1 receiver module
- 1 cable

1. Determine the appropriate location for the remote control in the bathtub.
2. Determine backside location of magnets
  - A. Hold the remote control in the chosen location.
  - B. From the exterior of the bathtub position the supplied magnets, the attraction force will guide you to the proper area and they will hold in place.
  - C. Mark the position of the magnets with a marker or pencil.

**CAUTION:** Magnets always have a positive and negative side and will only be attracted to one side. Consider this to avoid applying the silicone to the wrong side.

3. Install magnets on back side
  - A. Apply a dab of silicone to the magnets, place and maintain in the premarked position.
  - B. Let dry in this position.

**WARNING:** The magnets are extremely powerful despite their small size. Use caution while installing and handling to avoid injuries caused by a sudden movement of the magnets clinging together and possibly pinching fingers, skin or other. Persons with physical conditions that could be affected by magnetic fields should avoid using it and/or consult with their physician.

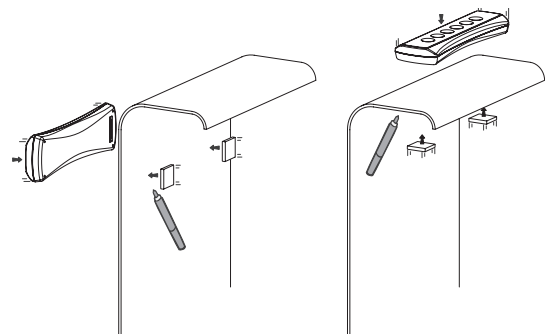
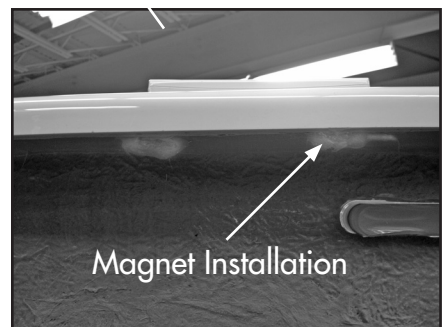
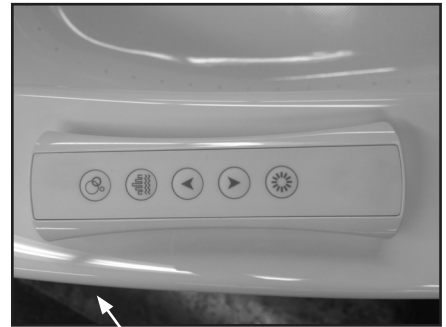


Figure 9A

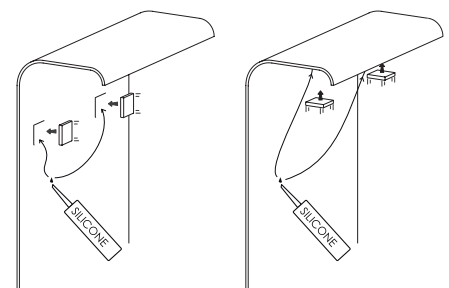


Figure 9B



# INSTALLATION INSTRUCTIONS

## FREESTANDING MODELS

### REMOTE CONTROL (FREESTANDING)

Receiver Module and remote may be used in conjunction with supplied keypad or without.

#### Remote Control and Keypad Used to Activate the System

1. Plug the 25' cable into the blower and the 12" cable into the keypad.
2. The receiver module needs to be mounted within 16" of the keypad.
3. Install the receiver module 6' – 10' from point of use.
4. Once everything is connected, the remote control is ready for synchronization.

#### Remote Control Only to Activate the System

1. Plug the 25' cable into the blower.
2. Install the receiver module 6' – 10' from point of use.
3. Once everything is connected, the remote control is ready for synchronization.

#### Synchronization

1. Once the system has been connected, the remote control must be synchronized with its receiver module.
2. Switch off the main breaker or unplug the system and switch it on again.
3. From this moment you have 15 seconds to proceed with the synchronization.
4. Press simultaneously on buttons 1 & 2 of the remote for 4 seconds as shown in Figure 11.
5. The remote control is now synchronized and ready for use.
6. If the synchronization is not successful the first time, you should resynchronize, starting from step 2.



Figure 10

# INSTALLATION INSTRUCTIONS

## FINAL SYSTEM TEST & CLEAN-UP

### System Test

To test system, follow these steps in order listed:

1. Fill clean tub with water to a minimum of 4" above the air channels.
2. To test the Ground-Fault Circuit-Interrupter (GFCI), push the test button. The GFCI should interrupt power. Push the reset button. Power should be resorted. If the GFCI fails to operate in this manner, there is a ground current flowing, indicating the possibility of an electric shock. Do not use this unit. Disconnect the unit and have the problem corrected by a licensed electrician before using.
3. Push on/off button on the air bath unit.
4. Allow system to run a full 10 minutes.
5. Through access door or removable skirt, check for leaks in air bath plumbing system. Make sure half-union at blower is hand-tight. If leakage is occurring at any other points, notify distributor.
6. If any electrical malfunctions occur, immediately unplug the unit and consult a licensed electrician. Malfunctions of the air bath controls or the circulating system should be reported to the distributor who supplied the tub.

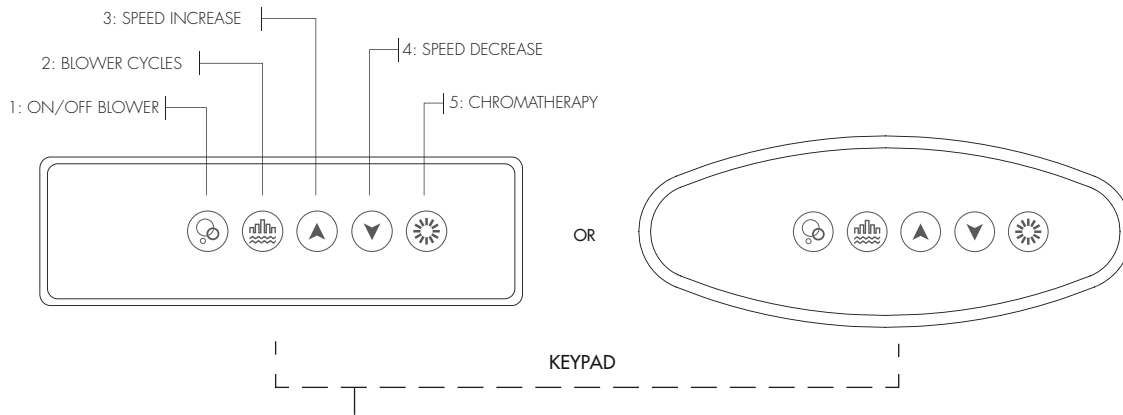
### Clean-up

1. Remove all construction residue and foreign materials. Wipe unit clean with a damp rag, otherwise staining may occur.
2. Plaster may be removed by scraping with the edge of a piece of wood or rigid plastic. DO NOT use metal scraper. For spots left by plaster or grout: rub lightly with a liquid detergent (Spic-N-Span® or similar) on a damp cloth or sponge.
3. **DO NOT** use abrasive cleaners, scouring powders, steel wool, wire brushes or anything else that may harm or dull the surface.
4. Paint, tar or stubborn stains may be removed with paint thinner, turpentine or rubbing alcohol. To avoid discoloration, cleaners containing petroleum distillate must not remain on surfaces. NEVER use lacquer thinner or chlorinated solvents.
5. Dulled areas can be restored to a high gloss with white or cream-colored automotive rubbing compound, followed by application of carnauba wax or white or cream automotive paste wax and buffing.
6. Major gouges require professional repair.

# OPERATION

## NON-FREESTANDING MODELS

### BATHSIDE CONTROL SYSTEMS (NON-FREESTANDING TUBS)



#### KeyPad Functions

#### LED

##### 1: ON/OFF BLOWER

1st Press: The blower starts

ON

2nd Press: The blower stops

OFF

##### 2: BLOWER CYCLES

1st Press: Wave Cycle - Speed goes gradually from maximum to minimum.

ON

2nd Press: Pulse Cycle - Speed goes from minimum then straight back to maximum.

BLINK

3rd Press: Returns to maximum speed

OFF

##### 3: SPEED INCREASE

1st Press: Press and hold to increase the blower speed, release pressure at the desired speed.  
When in cycles mode, increases the speed at which the cycle operates.

ON  
(WHEN PRESSED)

##### 4: SPEED DECREASE

1st Press: Press and hold to decrease the blower speed, release pressure at the desired speed.  
When in cycles mode, decreases the speed at which the cycle operates.

ON  
(WHEN PRESSED)

##### 5: Chromatherapy

1st Press: Turn on the light in white

2nd Press: Rainbow cycle - Low speed

3rd Press: Rainbow cycle - High speed

4th Press: Turquoise

5th Press: Blue

6th Press: Magenta

7th Press: Red

8th Press: Orange

9th Press: Yellow

10th Press: Green

11th Press Turn off the light

(Press and hold 2 seconds at any time to turn off the light.)

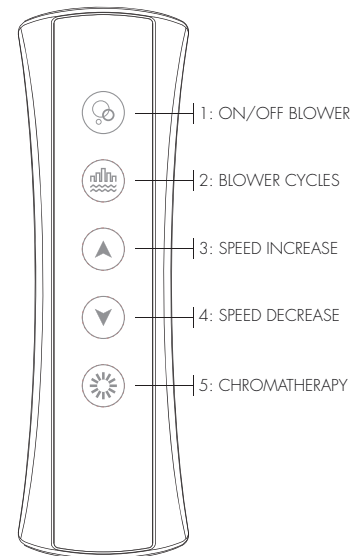
#### Advanced Programming

##### DRYING CYCLE WITH WATER DETECTORS

The drying cycle will activate 20 minutes after the bathtub is emptied even if the system was not used.  
The blower touch LED blinks while waiting for the purge cycle.

##### INTEGRATED 20 MINUTE AUTOMATIC TIMER

Integrated 20 minute automatic timer on the complete system. Count down starts with the last system turned on.

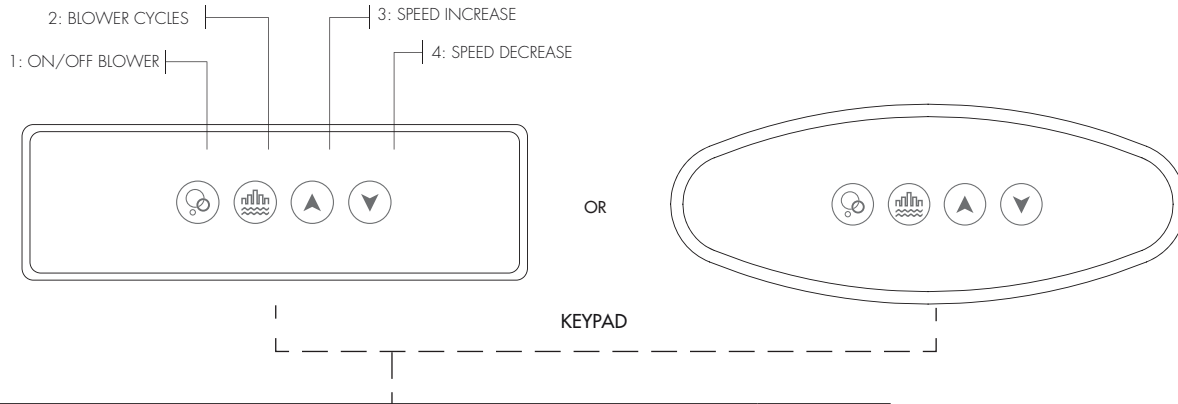


REMOTE CONTROL  
(Same Functionality as Keypad)

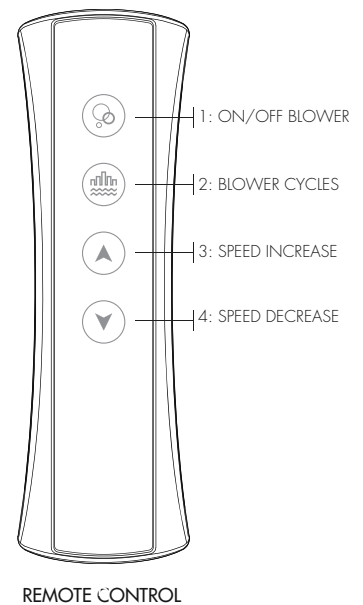
# OPERATION

## FREESTANDING MODELS

### BATHSIDE CONTROL SYSTEMS (FREESTANDING TUBS)



KeyPad Functions	LED
<b>1: ON/OFF BLOWER</b>	
1st Press: The blower starts	ON
2nd Press: The blower stops	OFF
<b>2: BLOWER CYCLES</b>	
1st Press: Wave Cycle - Speed goes gradually from maximum to minimum.	ON
2nd Press: Pulse Cycle - Speed goes from minimum then straight back to maximum.	BLINK
3rd Press: Returns to maximum speed	OFF
<b>3: SPEED INCREASE</b>	
1st Press: Press and hold to increase the blower speed, release pressure at the desired speed. When in cycles mode, increases the speed at which the cycle operates.	ON (WHEN PRESSED)
<b>4: SPEED DECREASE</b>	
1st Press: Press and hold to decrease the blower speed, release pressure at the desired speed. When in cycles mode, decreases the speed at which the cycle operates.	ON (WHEN PRESSED)
<b>Advanced Programming</b>	
<b>INTEGRATED 20 MINUTE AUTOMATIC TIMER</b> Integrated 20 minute automatic timer on the system.	
<b>DRYING CYCLE</b> A 1 minute automatic drying cycle will start 20 minutes after the blower is turned off. The blower LED button blinks while waiting for the purge cycle.	



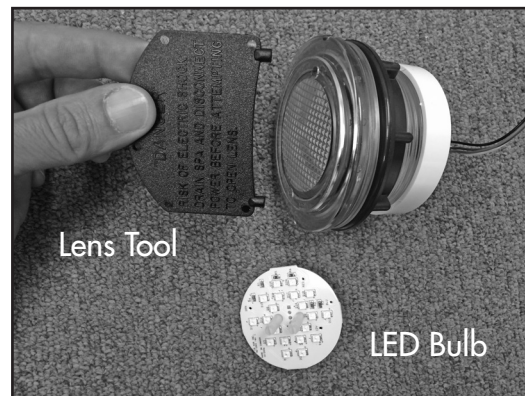
# OPERATION

NON-FREESTANDING MODELS

## TO REPLACE LED LIGHT

1. Disconnect the power to your bathtub.
2. Drain the bathtub.
3. Open the lens of the fixture using ONLY the proper tool provided for that purpose. Do not attempt to remove the lens without the provided tool.
4. Replace your LED light (replacement LED lights can be obtained from Aquatic).

**NOTE:** Do not twist LED light into socket. Use gentle pressure and push LED light into place.



# TUB CARE

## MAINTENANCE

Use common household, non abrasive cleaners for most cleaning jobs. Clean grease, oil, paint and ink stains with Isopropyl (rubbing) alcohol. Rinse well and dry with a clean cloth or sponge. Do not run the air system with foaming cleaners or soaps. Rinse the bath thoroughly after cleaning. Do not allow your Lucite® acrylic surface to come into contact with products such as acetone (nail polish remover), nail polish, dry cleaning solution, lacquer thinners, gasoline, pine oil or other toxic and oily cleaners.

## FLUSHING / SANITIZING

Before tub is used, your air bath and plumbing system should be flushed. Close the drain. Fill bath with hot water to at least six inches above air injector holes. Add 4 – 6 tablespoons of low sudsing automatic dishwashing detergent and no more than 24-48 ounces of bleach to the water. DO NOT use splashless bleach. Turn bath on for approximately two minutes to mix cleaner with water. Shut blower down and allow cleaner to soak in the bath for approximately two hours. Turn on air bath and run for approximately five minutes. Turn air bath unit off and drain tub. **Randolph Morris** recommends the above cleaning process on your air bath once a month.

## SURFACE SCRATCH REMOVAL

Minor scratches may be removed by polishing your tub with a non-abrasive car polish, followed by buffing. Deeper scratches can be removed by:

- Sanding with wet 400 grit sandpaper.
- Sanding with wet 600 grit sandpaper.
- Sanding with wet micro-grit sandpaper.
- Buff out using car polish.

## REPAIR

The installation and service of your air bath should be performed only by a qualified service technician. Remember when contacting your distributor always have your serial number, proof of purchase and model number available. This will ensure a quick response on warranty items. See page 3 for serial number location.

**CAUTION:** Care should be taken to prevent inappropriate chemicals coming in contact with the Lucite® acrylic surface. Please read and observe all instructions and/or warnings on containers containing substances you contemplate applying to your air bath. Any failure to comply may void your warranty.

## WATER AND AIR TEMPERATURE

Each model is equipped with a 600 watt air heating system to raise the temperature of the air going into the bath. This air temperature will be less than the bathing temperature of the water, but will help to reduce a rapid decrease in water temperature. In addition, the air coming from the air jets will feel cool against the skin, just as a breeze on a warm day cools your body. This system does not heat the water.

# WATER QUALITY

## CHEMICAL & WATER QUALITY

Owners of fill and drain air bathtubs need to know basic information concerning water quality, how it affects the performance and enjoyment of the operation of their tubs, and steps that can be taken by the owner to correct related problems. Important issues are the microbiological and chemical quality of the water.

### 1. Microbiological Quality

Microbes are present in water supplied by individual wells or water systems and even in the air around us. These microbes are usually in amounts below what is noticeable. Microbes from the water or air or from a bather's body may settle on wet surfaces such as a bathtub surface or piping system where they can grow in numbers. With regards to air tubs, brown/black fungi/mold or pigmented (colored) bacteria can be noted.

**Fungi/Mold** - Fungi and mold are always present. Usually the levels are such that we don't notice them. When moisture and temperature are sufficient, the organisms will grow to levels that we may smell and/or see. The best examples of such growth is the very common black growth on the bottom of shower curtains. The best solution to keep these surfaces free from the growth is frequent cleaning.

**Pigmented Bacteria** - A pinkish substance may appear on bathroom fixtures that is very persistent, appearing in the shower, sink and along the water line of toilet bowls. The residue is less likely a problem associated with water quality than with naturally occurring airborne bacteria. The bacteria may produce a pinkish film, and sometimes a dark gray film, on surfaces that are regularly moist, including toilet bowls, shower heads, sink drains, and tiles. The problem is more common in humid areas of the country. In any particular case, the determination of the exact species of bacteria causing the problem would require lengthy and costly laboratory testing; however, most experts believe the bacteria responsible is *Serratia marcescens*. These bacteria thrive on moisture, dust and phosphates, and are widely distributed in soil, food and also in animals. The best solution to keep these surfaces free from the bacterial film is continual cleaning. A chlorine containing compound is the best cleaner. Avoid abrasives to limit scratching fixtures, which will make them even more susceptible to bacteria.

### 2. Chemical Quality

The water supplied by individual wells or water systems always contains chemicals, usually in amounts below those which the consumer would notice. Examples of such chemicals, which are of potential concern for the owners of fill and drain air bathtubs, are calcium and magnesium salts, copper, iron, manganese and sulfates. When these chemicals are present in sufficient amounts, they may cause problems in air bathtubs. You should contact your water supply or treatment company and follow their suggestions for treatment.

**Calcium and Magnesium Salts** - Collectively, the various compounds of calcium and/or magnesium are referred to as salts. Calcium and magnesium salts are often found in ground water supplies and cause "hardness" in water. Hard and soft water are relative terms. Hard water retards the cleaning action of soaps and detergents, causing expense in the form of extra work and cleaning agents. When hard water is heated, it will deposit a hard scale. With regard to air bathtubs, high calcium and/or magnesium levels may result in the formation of white stains and scale formation on the inside of the tubs, especially noticeable with colored tubs. If this occurs, you need to contact the water supplier to determine the calcium and/or magnesium content and/or corrosion potential of the water and follow their suggestions for treatment. If you are on an individual well, you need to contact a water treatment company to test your water and suggest solutions if a problem is present.

# WATER QUALITY

**Iron** - Iron is found in many natural waters especially from wells. Iron in water can also result from the corrosion of piping in the water supply system, such as cast iron mains or galvanized steel service lines, or galvanized piping in the home water system. High iron levels may result in the formation of brown stains in the vicinity of the faucet outlets of various fixtures in the home. With air bathtubs, the staining may be particularly pronounced because the aeration action can oxidize iron to a form that settles out on the inside of the tubs, especially noticeable with white tubs. If high iron in the water is present, you can also notice rust colored deposits inside your toilet tank or dishwasher. If this occurs, you need to contact the water supplier to determine the iron content and/or corrosion potential of the water and follow their suggestions for treatment. If you are on an individual well you need to contact the water treatment company to test your water and suggest solutions if a problem is present.

**Manganese** - Manganese is found in many natural waters especially from wells. High manganese levels may result in the formation of small black particles that can stain laundry, especially noticeable with whites such as sheets or towels. With air bathtubs, the formation of small black particles may be particularly pronounced because the aeration action in the tub can oxidize manganese to an insoluble form that is especially noticeable with white tubs. If high manganese in the water is present, you may also notice black stains on white laundry. If this occurs, you need to contact the water supplier to determine the manganese content of the water and follow their suggestions for treatment. If you are on an individual well, you need to contact a water treatment company to test your water and suggest solutions if a problem is present.

## 3. Treatment

If you have contacted your water supplier and followed their instructions and you are still having problems, you need to increase the frequency of applications of low-foaming detergent/bleach starting from monthly purging down to using it every other day as required to eliminate your particular problem. The use of certain bath oils, bubble bath soaps and bath additives may increase the level of accumulations of bath residue in the air system. More frequent cleaning may be necessary if these products are used in the air tub. If excess accumulations persist, you should discontinue the use of these products. If you have followed the monthly purging instructions and still have an excess accumulation of bath residue and desire an alternative cleaning mechanism, we recommend **SUPER SYSTEMS CLEAN PLUS** manufactured by Stearns Packaging Corporation to rectify this condition.

It is recommended that you follow the instructions provided by the manufacturer with the product. Repeated use may be necessary. **SUPER SYSTEMS CLEAN PLUS** does not replace the necessity to purge your air system at least once a month with a low foaming detergent and bleach.



# TROUBLESHOOTING GUIDE

**WARNING:** Always turn off power at the main electrical service panel when servicing your air bath.

SYMPTOMS	POSSIBLE PROBLEMS	SUGGESTED SOLUTIONS
Air bath system does not operate:	1) No power to Air Bath unit. 2) Blower Control is not plugged in. 3) Control Panel connector to controller box is disconnected.	1) Reset circuit breakers and GFCI if tripped. Check fuses and replace if bad. 2) Make sure plug is fully inserted into the outlet. 3) Check and reconnect if needed.
Blower turns off by itself or before time elapses:	1) Blower motor overheated and thermal protection device has deactivated motor (possibly low voltage). 2) GFCI tripped.	1) Check that the blower has sufficient ventilation and that the intake to the blower is not blocked. Clear and allow motor to cool down. (check service and wire size.) 2) Refer to installer/dealer/electrician.
Circuit breaker trips repeatedly:	1) Defective breaker. 2) Short circuit between bath and breaker box. 3) Other items are connected to the same circuit.	1) Contact electrician. 2) Contact electrician. 3) Contact electrician.
Blower does not manually shut off:	1) Defective control panel. 2) Defective blower.	1) Refer to installer/dealer. Replace control panel. 2) Refer to installer/dealer. Replace control box.
Air Bath does not function properly while in the pulse or wave modes.	1) Speed of air setting is set too low.	1) Change the air speed setting to a mid-range setting before switching to wave or pulse modes.

## REPLACEMENT PARTS LIST

ILLUSTRATION NO.	PART #	DESCRIPTION
1A.	8162CONTROL	REMOTE CONTROL AIR (NON-FREESTANDING)
	8161CONTROL	REMOTE CONTROL AIR (FREESTANDING)
1B.	(PACKAGED WITH 1A)	REMOTE RECEIVER MODULE CABLE
1C.		REMOTE RECEIVER MODULE
1D.		REMOTE CONTROL MAGNETS
2A.	8162KEYPAD	KEYPAD;BDK;SER AIR/LIGHT;RECT (NON-FREESTANDING)
2B.	8164KEYPAD	KEYPAD;BDK;SER AIR/LIGHT;OVAL (NON-FREESTANDING)
2C.	8161KEYPAD	KEYPAD;BDL;RECT (FREESTANDING)
2D.	8163KEYPAD	KEYPAD;BDL;OVAL (FREESTANDING)
3A.	8130BOX	CHROMATHERAPY CONTROL BOX (LUXEAIR)
3B.	8020LIGHTS	CHROMATHERAPY;20LEDS BULB;RND CLR
3C.	8LIGHTTOOL	LENS REMOVAL TOOL
3D.	8020LIGHTS	20LEDS CHROMATHERAPY BULB
4A.	8750BLW	BLOWER;750W;VARIABLE;120V;HEATER
4B.	1137	6' KEYPAD CABLE
5A.	8427FTG	1.5" CHECK VALVE
6A.	1138	WATER DETECTOR CABLE 6FT
6B.	8112SENSOR	WATER DETECTOR PROBE
	1136	SENSOR KEYPAD CABLE 25FT
	1135	WATER DETECTOR CABLE 25FT
	1118	25FT CHROMATHERAPY CABLE EXT.

To indicate color, replace XX with "WH" for White, "BI" for Biscuit, "BO" for Bone

# REPLACEMENT PARTS MAP

