Installation Guide
安装说明

BUBBLEMASSAGE® BATH
(INCLUDE ELECTRONIC DRAIN)
泡泡浴缸
（含电子排水）

1366634-T01-A

KOHLER®

Before You Begin

- ❑ Please read these instructions carefully to familiarize yourself with the required tools, materials, and installation sequences. Follow the sections that pertain to your particular installation. This will help you avoid costly mistakes. In addition to proper installation, read all operating and safety instructions.

- ❑ All information is based on the latest product information available at the time of publication. Kohler Co. reserves the right to make changes in product characteristics, packaging, or availability at any time without notice.

- ❑ These instructions contain important care, cleaning, and warranty information—**please leave these instructions for the consumer.**

Product Notices

A. Installation Hazard Notification

DANGER: Risk of fire, electric shock, or injury to Persons. Read important safety instructions included in these instructions.

⚠ **WARNING: Risk of electrical shock.** A licensed electrician should make all electrical connections.

⚠ **WARNING: Risk of electrical shock.** Connect only to a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI) or Earth-Leakage Circuit-Breaker (ELCB).

⚠ **WARNING: Risk of electrical shock.** Disconnect power before servicing.

⚠ **WARNING: Risk of injury or property damage.** Please read all instructions thoroughly before beginning installation, including the following Product Requirements.

NOTICE: Follow all local plumbing and electrical codes.

⚠ **WARNING: Keep the area around the blower motor clean and free of debris.** Ensure that the area around the blower motor is free of sawdust, insulation, dirt, or other small loose debris. Such material could clog the blower motor air ducts and reduce the air flow through the blower.

ATTENTION: Difference of the type of the plumping, which may differ the drain speed.

⚠ **WARNING: Risk of damp.** Silicone sealant shall be applied to connections of the bath drain pipe and the drainage pipeline.

ATTENTION: Temperature deviation. Water temperature at different parts of the bath may not be the same, which may cause the temperature detected and shown on the panel slightly differ from the actual water temperature in the bath.

B. Factory-Assembled Features

Factory installed components include blower motor with power supply cord, electronic drain, controller, check valve, air piping, water level sensor, user keypad, and keypad cable. Other than power wiring and plumbing, no assembly is needed.

⚠ **WARNING: Unauthorized modification may cause unsafe operation or affect performance of the bath with airjets.** Do not relocate the blower motor, or make other modifications to the system in the absence of kit instructions, as this could adversely affect the performance and safe operation of the bath with airjets. Kohler China shall not be liable under its warranty or otherwise for personal injury or damage caused by any such unauthorized modification.

Product Requirements

A. Summary Of Key Requirements

- Observe all local plumbing and electrical codes.
- Install the unit to a level subfloor.
- Provide properly-dimensioned framing.
- Baths with airjets are designed for a variety of installations, depending upon the model chosen.

B. Plumbing Specifications

If using a rim-mounted bath faucet, flexible connections between the valves and spout may be required. Confirm adequate mounting, connection space of specified faucet for your installation.

C. Product Inspection

Carefully unpack and inspect the bath with airjets for damage. Leave all materials in the carton during constructions to prevent damage.

D. Electrical Requirements

The installation must have a Ground-Fault Circuit-Interrupter (GFCI). The GFCI protects against Line-to-ground shock hazard. Use a 220-240 V, 10 A (minimum), 50 Hz dedicated service for the bath with airjets.

Installation Requirements

A. Tools Required

- Adjustable pipe wrench
- Rule
- Level
- Safety shoes
- Safety glasses
- Square
- Screwdriver
- Pliers
- Utility knife
- Pencil
- Measuring Tape

B. Materials Required

- Plumbers putty
- Wall coverings (if necessary)
- Silicone sealant
- Gypsum cement (optional)
- Construction adhesive (optional)
- Protective covering for bathtub
- Nails
- Silicone Sealant

Plus:

- Conventional woodworking tools and materials or conventional bricklaying tools and materials
- Drop Cloth
- Construction adhesive (optional)
- Cement or mortar (optional)
- 2x4's or 2x6's

Site Requirements

A. Old Bath Removal (If Applicable)

Disconnect the drain at the trap. Remove the old wall material. Slip boards under the old bath feet to protect the floor, and slide the old bath out of the recess as illustrated.
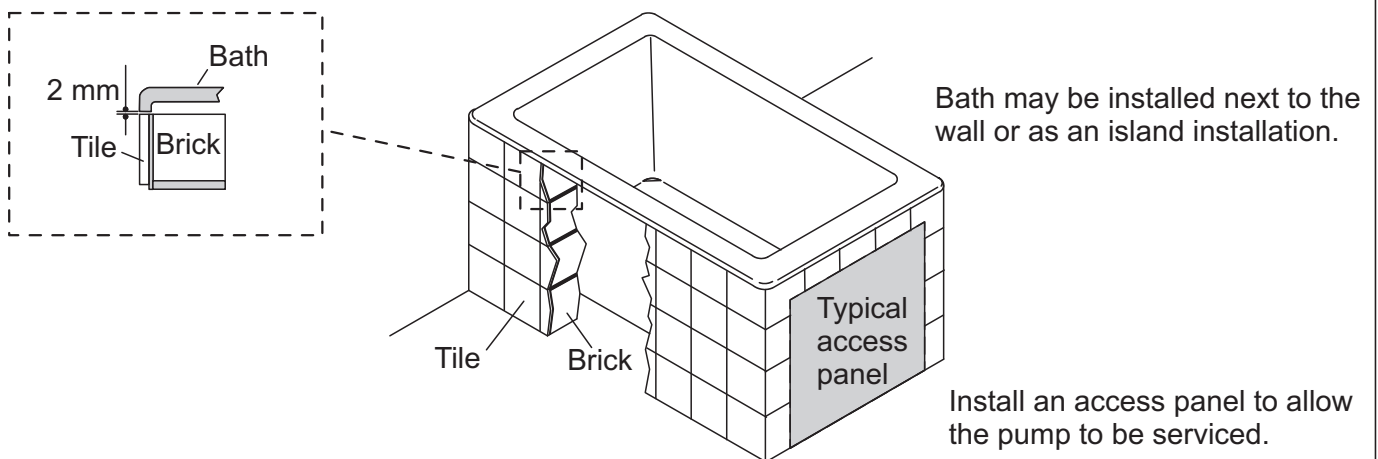
Old Bath   Floor Protection Boards
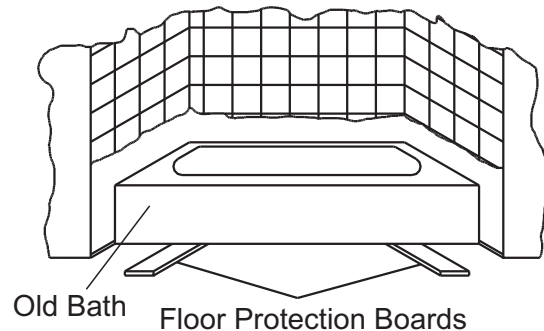
B. Prepare the Site

⚠ **CAUTION: Risk of product damage.** Do not support the bath by the rim.

NOTICE: Unless otherwise specified, floor support under the bath must provide for a minimum of 80 lbs./square foot (390 kg./square meter) loading.

NOTICE: Provide adequate ventilation (the minimum area of the ventilation opening is 5000mm^2) and a minimum of 15 cubic feet (0.4 cubic meters) in the installed location for cooling the blower and to supply sufficient air for the blower. Do not install the blower motor closer than 25mm from the wall or other objects.

- Make sure the flooring offers adequate support for your bath, and verify that the subfloor is flat and level.
- This bath may be installed in a drop-in or in an island installation. An island installation requires a four side surround. In both instances, make sure the deck is adequately supported.
- Install an access panel to allow the blower, the controller and the keypad to be serviced. Jalousie access is recommended. Please refer to rough-in for exact location of access panel.
- Construct brick or concrete supports.
- Provide a 2mm gap between the bath rim and the concrete or brick framing.

Bath

2 mm

Tile   Brick

Bath may be installed next to the wall or as an island installation.

Tile   Brick

Typical access panel

Install an access panel to allow the pump to be serviced.

C. Bubble Area Construction Preparation (Optional)

Make sure you allow for access to the pump in the event the unit requires service. When constructing the framing, allow for the thickness of sub and finish wall material (e.g. mortar mix and ceramic or marble tilling).

Drop In Installation：Refer to rough-in notes for cut-out details. Make sure the bubble is supported by the supporting feet on the bottom of the bubble.
Do not hang the bath by the rim.

Bath Rim

1/15" (2mm) Gap
Between Bath Rim
and Framing
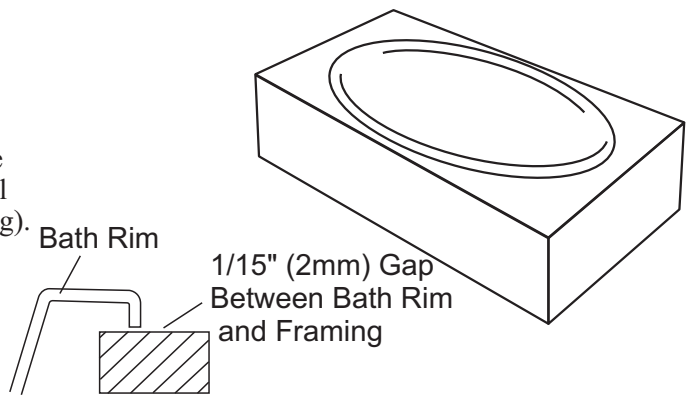
Before Installing the Bath

A. Your new bubble has been manufactured to the highest possible standards, it has been factory tested and approved.

B. When removing bath from protective carton **DO NOT LIFT BATH BY PIPE WORK**. Inspect for any possible damage that may have occurred in transit. Position a clean drop cloth or similar material in the bottom of the bath to pretect the finish. Be careful not to scratch the surface of the bath.

C. Identify blower and switch access location before proceeding with installation.
NOTE：NO BLOWER AND SWITCH ACCESS NO WARRANTY SERVICE. Ventilation must be provided to access panel in order to allow heat from blower to dissipate. Jalousie access is recommended.

D. IMPORTANT: Bath must be installed level on all top edges.

Install the Bath

⚠ **CAUTION: Risk of product damage.** Do not lift the bath with airjets by the air channels or blower motor, or use the air channels or blower motor for structural support of the bath.

⚠ **CAUTION: Risk of product damage.** Do not support the bath by the rim.

If the subfloor is not level, shim the bath support blocks as necessary.

A. Choose to Use Concrete or Mortar Bed

NOTE: Do not use gypsum concrete or drywall compound for this application, as they will not provide an acceptable, durable bond.

- Spread a 50mm thick layer of cement or mortar on the subfloor where the bath will be set. This will help secure, level, and support the unit.
- Brush a layer of waterproof paint on top of the cement or mortar bed.
- With help, carefully lift the bath into place.
- Insert the drain tailpiece into the floor drain. Make sure the bath is level and all feet are sufficiently supported.
- Remove the protective tape from the rim.

B. Install the Plumbing

⚠ **CAUTION: Risk of property damage.** Ensure a watertight seal on the bath drain.

❑ Connect the drain to the trap .

❑ Run water into the bath, and check the drain connections for leakage.

❑ Install the faucet valving according to the faucet manufacturer 's instructions. Do not install the faucet trim until instructed. Open the hot and cold water supplies, and check the supply connections for leakage.

❑ Ensure a seal on the bath drain and the floor drain.

NOTE: An access panel will simplify future maintenance.

Drain Pipe

Floor

Drain

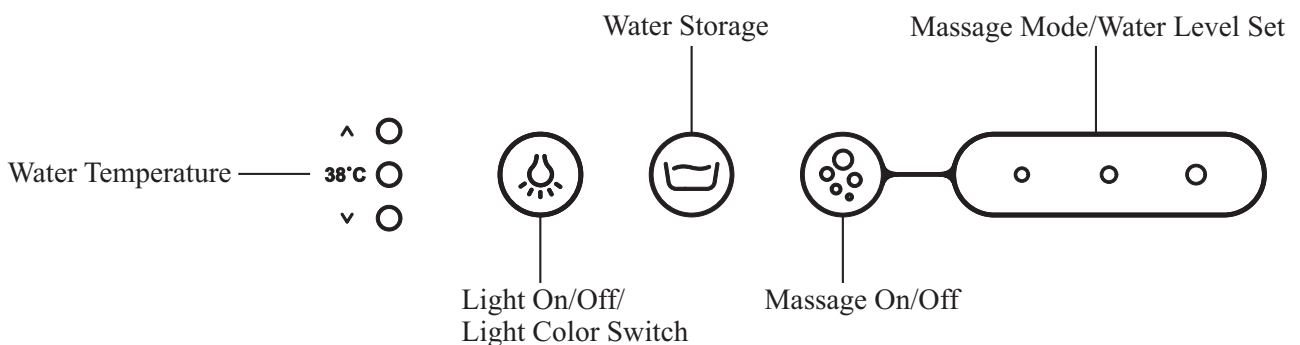Seal on the bath
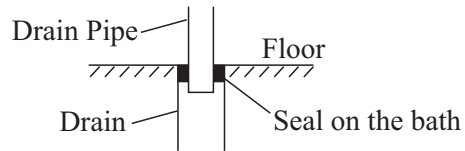
C. Make Electrical Connections

⚠ **WARNING: Risk of electric shock.** To reduce the risk of electrical shock, connect the control box to a properly grounded, grounding-type receptacle protected by Ground-Fault Circuit-Interrupters (GFCI 's). Do not remove the plug grounding pins.

NOTE: Electronic parameter label located on the controller. This label also identifies the electrical rating.

❑ Your Kohler bath with airjets is equipped with a cord and plug. The blower motor has been wired at the factory. A licensed electrician must install a dedicated GFCI-protected, 220 V, 10 A, grounded outlet.

❑ Plug the control box into this outlet.

❑ Clean the area of all dust and debris.

D. Test Run the Bath with Airjets

❑ Check all electrical connections, and make sure the electrical power to the bath with airjets is on.

❑ Make sure all piping connections in the air harness are secure.

❑ Verify that the blower motor is secure.

❑ Temporarily remove the plastic drop cloth or other protective sheeting from the bath.

❑ Turn off electronic drain. Fill the bath to a level at least 100mm above the top of the highest airjet.

❑ Refer to "Bath Operation" to make sure that every function works well.

❑ Check the drain piping for leaks. Repair any leaks.

❑ Operate the bath and check for air flow through the airjets. Check the air piping for air leaks.

❑ Stop the bubble massage and drain the water.

❑ Return the plastic drop cloth or other protective sheeting to the bath. Check the drain connections for leakage.

Water Storage

Massage Mode/Water Level Set

Water Temperature — 38°C

Light On/Off/
Light Color Switch

Massage On/Off

E. Seal the Bath Rim

⚠ **CAUTION: Risk of product damage.** Do not support the weight of the bath by the rim.

For sunken type installation, construct the ceramic or marble tiles. Seal the joints between the bath rim and the tiled wall with silicone sealant.

Bath
Silicone Filler
Finished tiled Wall
Paste Mortar
Brick or Concrete Wall
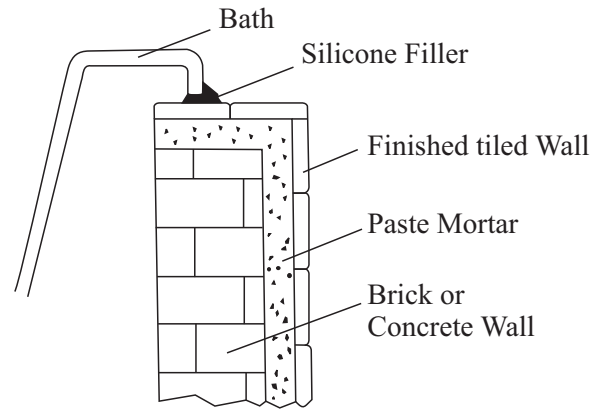
F. Drilling And Cutting Acrylic

DRILLING: Small holes can be drilled with a twist drill, but the cutting edge MUST be backed off with an oil stone (the sharp edge dulled). Large holes must be drilled with a hole saw. Maximum drill size-12mm. Drill speeds-6mm $\times$ 1800 RPM-12 mm $\times$ 900 RPM.

NOTE: Always drill from acrylic surface.

CUTTING: If for any reason the acrylic requires cutting, use a fine tooth hacksaw and proceed with caution. Edges can be smoothed with a second-cut file and medium-fine sandpaper. If the surface of the acrylic should happen to be damaged, it can be restored by polishing with an abrasive cleaner. Deep scratches can be removed by rubbing with 600 grade wet & dry sandpaper then polishing.

G. Clean-Up After Installation

❑ Clean the area around the blower motor of all dust and debris.

❑ Use warm water and a liquid detergent to clean the surface of the bath with airjets. **Do not use abrasive cleansers**, as they may scratch and dull the surface. **Do not use powdered cleaners unless the cleaner is fully dissolved in water.** Solid substances could block the airjets. **Do not use bleach or ammonia cleaning solutions**. Chemically active cleaning solutions can damage the bath surface. Refer to the homeowners guide for normal cleaning recommendations.

Bath Operation

A. Fill the Bath

⚠ **CAUTION: Risk of product damage.** Ensure that the area around the blower motor is free of sawdust, insulation, dirt, or other small loose debris. Such material could clog the blower motor air ducts and reduce the air flow through the blower motor.

NOTE: Please read these steps carefully before you operate your bath with airjets. Troubleshoot any problems using the "Troubleshooting" section.

NOTE: Please do not use the bath in case of outage. In this case, the electronic drain automatically opens and the bath can not be filled with water.

B. Keypad Operation

Function Operation

⚠ **NOTE**： Before operating the panel, please confirm that there is no obvious water stains on the panel. If there is any, please first wipe it clean.

- Electronic Drain
  Close the drain by touching the button "⌷" once, the green light flashes. Touch again to start it, the pink light is off. When touching this button, a slight sound can be heard from the drain at the bottom of the bath.
- Bubble Massage
  Slide the sliding slip to unlock the panel. Touch the button "⊛" to start the blower motor, the light flashes. Touch again to stop it, the light is off.
  Touch the button "⊛"， The blower motor will automatically stop after running for about 20 minutes.
- Bubble Adjustment
  When the blower motor is running, slide in "∘∘O" direction to increase the air flow and the light gradually flashes as the finger moves along "∘∘O" direction .Slide in "O∘∘" direction to decrease the air flow, the light gradually dies out as the finger moves along "O∘∘" direction. When air flow reaches its maximum, all the light will flash. When air flow reaches its minimum, only the white light will flash. There are three modes in all.
- Automatic Cleaning
  The water level will exceed 15cm, when the massage function is off, the blower motor will automatically start and stop after running for about 2 minutes if it detects the water level is below the airjets. From the time when water level is below the airjets until 30 seconds after the bath is drained, it is normal for the automatic cleaning functions to start.

C. Air System Operation

- Touch the power button on the user keypad "⊛" .
- Observe that the blower motor starts.
- Observe that air is blowing through all of the airjets.
- Slide in "∘∘O" direction.
- Verify that the air flow increases.
- Slide in "OO∘" direction.
- Verify that the air flow decreases.
- Touch the power pump on/off "⊛" on the keypad to stop the blower motor.

D. Automatic Purge Operation

- Fill the bath with at least 20cm water.
- Touch pump on/off "⊛".
- 1 minute after pump starts, touch pump on/off "⊛" again, the pump stops.
- Slide the sliding slip to unlock the panel. Touch electronic drain on/off "⌷" , waiting for water drain.
- Observe that the blower motor starts and stops automatically after about two minutes.

E. Power off Compelling Drain Protect Function

- Touch electronic drain on/off " ⊟ " , the electronic drain stops.
- Unplug the connector plugs of the controller.
- Observe that the electronic drain starts automatically.
- Plug again, the electronic drain restores its former status.

NOTE: Please do not use the bath in case of outage. In this case, the electronic drain automatically opens and the bath can not be filled with water.

F. Test of the overflow function

- Touch the electronic drain on/off button " ⊟ " to close the drain.
- The bath is filled until the drain automatically starts and cellular sound alarm is heard. Meanwhile, the white light of " ⊟ " flashes.
- Turn off the tap, water level will drop to the overflow level and the drain will stop automatically. Meanwhile, the " ⊟ " is white. (The overflow level differs for each bath. Please refer to "Roughing-in").

⚠ **NOTE:** When the bath reaches overflow level, water level may rise quickly if you enter the bath or start the bubble massage function, which may trigger the compelling drain function. Compelling drain function will discharge lots of water, so it is not recommended to use the bath when it reaches overflow level.

G. Compelling Drain Function

- If the overflow level sensor does not work, you can use the compelling drain function to prevent water overflow to your bathroom. Please refer to the automatic drain water level in the Roughing-in.

Troubleshooting Chart

SYMPTOMS	PROBABLE CAUSES	RECORRECTIVE ACTION
1. Bath with airjets does not start.	A. Controller is not power on.	A. Set/reset GFCI or ELCB breaker; check wiring.
	B. User keypad cable loose or damaged.	B. Check wire connections. If necessary, replace user keypad.
	C. User keypad does not work.	C. Replace user keypad.
	D. Blower motor does not work.	D. Replace blower motor.
2. Blower motor starts, but there are few or no bubbles.	A. Pipeline leaking.	A. Apply silicone sealant to the leakage.
	B. Pump inlet is blocked.	B. Clean the area around the blower motor. Ensure adequate ventilation.
3. Blower motor stops automatically within 20 minutes.	A. GFCI or ELCB trips.	A. Correct GFCI or ELCB trips.
	B. Motor overheated and protection device activated.	B. Check for blockage at motor vents. Remove blockage and allow motor to cool.
4. Blower motor does not stop automatically after 20 minutes.	A. Controller trips.	A. Replace controller.
5. Blower motor does not stop when pump on/off button on user keypad is touched.	A. User keypad cable loose or damaged.	A. Check wire connections. If necessary, replace user keypad.
	B. User keypad does not work.	B. Replace user keypad.
6. Blower motor operates but speed timing does not work	A. User keypad cable loose or damaged.	A. Check wire connections. If necessary, replace user keypad.
	B. User keypad does not work.	B. Replace user keypad.
	C. Controller dose not work.	C. Replace the controller.
7. Automatic purge does not occur.	A. Blower motor does not work.	A. Replace blower motor.
	B. Water level sensor trips or circuitry plough.	B. Check wire connections. If necessary, replace water level sensor.
	C. Over-height of the water level.	C. Operation after water level is below the airjets.
	D. Controller dose not work.	D. Replace the controller.
8. Cannot operate or stop electronic drain.	A. User keypad trips.	A. Replace user keypad.
	B. Controller trips.	B. Replace controller.
	C. Electronic drain mechanism does not work.	C. Replace electronic drain mechanism.
9. The bath cannot overflow.	A. Water level sensor trips.	A. Replace water level sensor.
	B. Electronic drain mechanism does not work.	B. Replace electronic drain mechanism.
10. Water level cannot be maintained after the bath is filled with water.	A. Water level protector functions.	A. Lower the water level in the bath.
	B. Water level surpasses overflow level.	B. Lower the water level in the bath.
	C. Overflow level is not correct.	C. Contact customer service personnel of Kohler to readjust the water level.
11. Water temperature cannot be shown.	A. User keypad cable trips.	A. Check wire connections, or replace user keypad.
	B. User keypad trips.	B. Replace user keypad.
12. Abnormity shown of water emperature.	A. Temperature sensor of electronic drain mechanism does not work.	A. Replace electronic drain mechanism.

Important Consumer Information

Consumer Responsibilities

Cleaning and Care for BBM

Please confirm that the bubble massage bath is installed according to the installation instructions.

Massage system should be used at least once a month to avoid the possibility that the electrical fittings be damaged because of excessive moisture.

Cleaning Surfaces: Do not use abrasive cleansers on any surfaces, as they will scratch and dull the surface. Wipe out the bath after each use to prevent a build-up of soap and scum.

If the surface becomes dull, an automotive type rubbing compound *may be used on the unit, followed by an application of paste wax.

*We recommend:
Rubbing compound mequiars mirror glaze 28 metal polish (import product) or "green oil".

安装之前

- 请仔细阅读此说明书以熟悉所需要的工具、材料及安装顺序。遵循适合您的特定安装要求的各项内容，避免昂贵的损失。除了要正确安装外，还应阅读操作及安全说明。
- 所有的资料是按最新出版的产品资料编写而成。科勒中国有限公司保留任何时候无须通知即可改变产品特性、包装或产品可供类型的权利。
- 说明书包括重要的安装、清洁及保养方面的内容，**请把这些资料交给用户阅读。**

产品注意事项

A. 安装危险警告

危险：有起火、触电或人员受伤的危险。请阅读本说明书内的重要安全指示。

⚠ **警告：有触电的危险。**请找合格的电工来进行所有的线路连接。

⚠ **警告：有触电的危险。**仅能和由接地故障断路器(GFCI)保护的电路相接。

⚠ **警告：有触电的危险。**工作之前先切断电源。

⚠ **警告：有受伤或财物受损的危险。**开始安装之前，请先彻底阅读所有说明，包括以下的产品要求。

注意：请遵守所有的本地卫生管道和电气规范。

⚠ **警告：请保持气泵周围区域清洁，没有任何残留物。**请确保气泵周围区域没有任何锯屑、绝缘物、尘土，或者其它小的松散的残留物。这些残留物可能导致气泵通风口堵塞，从而使通过气泵的气流不畅。

注意：由于用户的下水管道型式不同，可能使产品的排水速度不同。

⚠ **警告：产品严重受潮风险。**浴缸排水管与排水管道连接处应做密封处理。

注意：温度显示偏差。由于浴缸内的水温不均匀，导致检测并显示到面板的温度可能同浴缸内的实际水温存在小的偏差。

B. 由厂家组装的部件

工厂已经对部件进行了安装，包括带电源线的气泵、电子排水、控制盒、单向阀、空气管道、水位传感器、控制面板、信号线等。除了电源线和管道连接，不再需要任何安装。

⚠ **警告：未经授权的更改会导致浴缸不安全运转或者影响泡泡浴缸的性能。**在没有专业人员的指导下，请不要移动气泵，或者对系统进行任何更改，因为这样可能导致浴缸不安全运转或者影响泡泡浴缸的性能。由于此种未经授权的更改所导致的人员伤害或损失，科勒公司将不承担任何保修责任或赔偿责任。

产品要求

A. 关键要求的总结

- 请遵守当地的卫生管道和电气规范。
- 在水平地面上安装浴缸。
- 提供适当尺寸的结构。
- 泡泡浴缸的设计适用于不同的安装方式，请按型号来选定。

B. 卫生管道规格

如果是在浴缸边缘安装水龙头，必须以软管连接阀体和水龙头，确认安装是否适当，及指定的水龙头连接空间是否足够。

C. 产品检查

小心打开包装箱并检查泡泡浴缸是否损坏，施工期间将所有的材料都留在箱内，以防止损坏。

D. 电气要求

安装时必须有接地故障断路器(GFCI)。GFCI可避免线路接地故障而触电的伤害。请使用一条220-240伏特，10 安培(最小)，50赫兹的专用电路供泡泡浴缸使用。

安装要求

A. 所需工具

- 管道扳手
- 刻度尺
- 水平仪
- 安全鞋
- 安全眼镜
- 直角尺
- 螺丝刀
- 钳子
- 多用工具刀
- 铅笔
- 卷尺

附加：

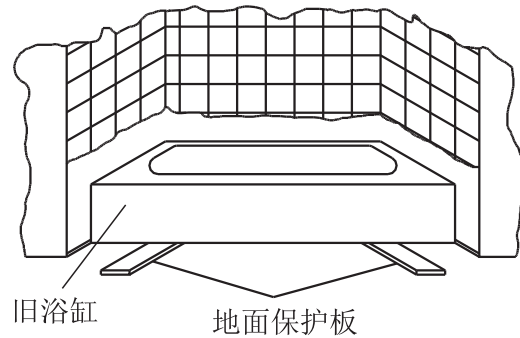- 常规木工和砖瓦工的工具和材料
- 垫布
- 建筑粘胶(选用)
- 水泥或灰泥(选用)
- 2x4' 或 2x6'支撑架

B. 所需材料

- 管道用油灰
- 墙面保护罩(如需要)
- 密封硅胶
- 石灰水泥(选用)
- 建筑粘胶(选用)
- 浴缸保护套
- 钉子
- 密封硅胶

场所要求

A. 拆除旧浴缸(如需)

在存水弯处拆下排水管。清除所有旧墙材料。在旧浴缸下面塞入护板以保护地面,并如图所示把旧浴缸从安装空间拉出。

旧浴缸   地面保护板

B. 场所准备

⚠ **警告:存在产品受损危险。请不要仅靠浴缸边缘支撑浴缸。**

注意:除非特别注明,浴缸下面的底层地面必须提供至少80磅/平方英尺(390公斤/平方米)的荷载承重。

注意:在安装位置,提供足够的通风,有效通风口面积应不小于5000平方毫米以及至少15立方英尺(0.4立方米)的通风空间,以冷却风机,并为气泵供应足够的空气。不要将气泵安装在离墙或者其它物体25毫米以内的位置。

- ❑ 确保地面具有足够的支撑力支撑您的浴缸,并核实底层地面是水平的。
- ❑ 此浴缸可进行嵌入式安装或者岛屿式安装。岛屿式安装需要四面均有围墙。两种安装方式下,均要确定浴缸周边有足够的支撑。
- ❑ 为维修气泵控制面板、操作面板提供维修入口,建议使用百叶窗式检修门。维修入口位置参见尺寸图。
- ❑ 建造砖头或者混凝土框架。
- ❑ 在浴缸边缘和柱型框架之间保留一个2毫米的缝隙。根据您的浴缸随附的初步安装信息在地面上确定安装位置。

2 mm   浴缸
瓷砖   砖

瓷砖   砖

浴缸可以靠墙安装
或岛屿式安装。

典型
检修门
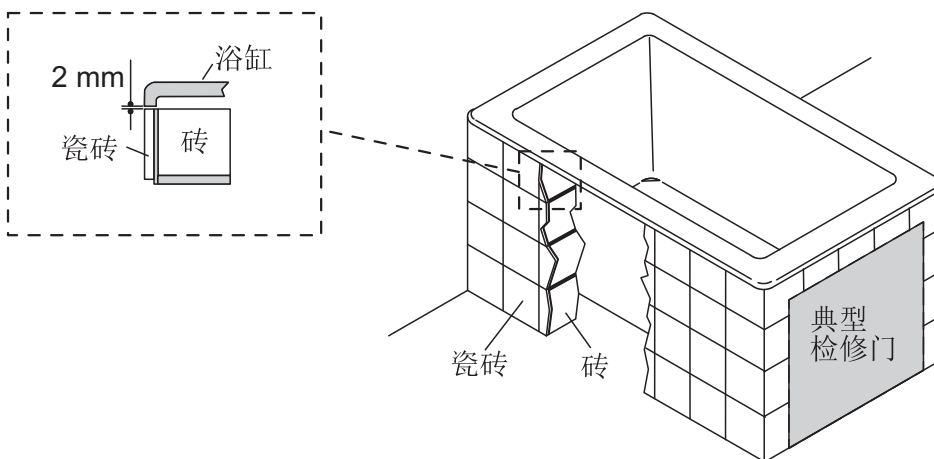
为气泵及控制面板
提供检修门。

C. 泡泡浴缸支撑结构的准备（选用）

确保为气泵预留空间，以便于维修。建立结构时，请预留底层地面和完工墙壁材料的厚度(例如水泥沙浆和瓷砖或大理石)。

嵌入安装：有关切割图样的细节请参阅安装尺寸说明。
务必使泡泡浴缸底部的支撑脚支撑。
不要使浴缸靠边缘悬挂。

浴缸边缘

与支撑物之间留出2毫米的间隙
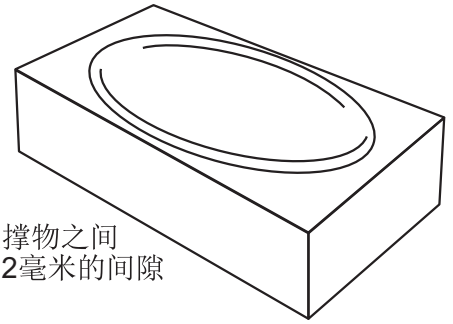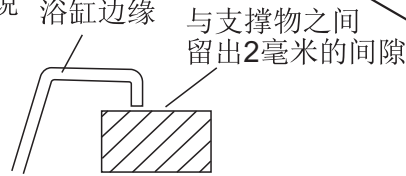
安装泡泡浴缸之前

A. 本泡泡浴缸质量上乘，已经工厂检测通过。

B. 从起保护作用的纸箱中取出时，**请不要拎着管道部分将浴缸取出**。检查可能有搬运造成的损伤。放置时在浴缸底部垫上一块干净的布或类似材料，以保护浴缸表面的光洁度。注意：不要在浴缸表面造成划痕。

C. 安装前，请确定气泵和开关检修门的位置。
注意：**无气泵和开关维修口，不能获得保修**。检修门应通风良好，保证气泵散热。建议使用百叶窗式检修门。

D. 注意：浴缸必须水平地放置。

安装浴缸

⚠ 警告：**存在产品受损危险**。请不要利用通气管或气泵抬起泡泡浴缸，或者利用通气管或气泵作为浴缸的支撑物。

⚠ 警告：**存在产品受损危险**。请不要仅靠浴缸边缘支撑浴缸。

如果底层地面不够水平，根据需要，利用垫片调整浴缸支撑脚的高度。

A. 选择使用混凝土或砂浆层

注意：在此操作中，请不要使用石膏混凝土或者清水墙混合物，因为他们不能提供足够的持久的粘合力。

- 在浴缸将要置入的位置的底层地板上铺上50毫米厚的一层混凝土或者砂浆层材料。这将有助于支撑浴缸，让浴缸更安全、更水平。
- 在混凝土或砂浆层上刷一层防水涂料。
- 将浴缸小心地放置到位。
- 将排水管插入地漏。确保浴缸处于水平位置，所有的支撑脚得到支撑。
- 将浴缸边缘的保护胶带移走。

B. 管道安装

⚠️ **警告：存在产品受损危险。**请确保浴缸落水装置的水密性。

❑ 将落水装置和下水管道连接起来。
❑ 将水注入浴缸，检查排水连接是否漏水。
❑ 根据龙头生厂商的说明，安装水龙头阀门。在没有相关指示前，请不要安装龙头装饰物。打开冷热水进水口，检查供水连接受否漏水。
❑ 排水管与地漏连接处密封处理。
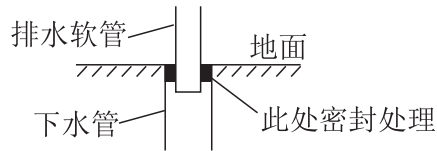
注意：预留检修门将有助于将来的维修。

（图示：排水软管、地面、下水管、此处密封处理）

C. 电路连接

⚠️ **警告：存在触电危险。**为降低触电危险，请将控制盒和正确接地的受接地故障线路断路器GFCI保护的接地型插座相连接。请不要移动接地插头。

注意：电器参数标签在控制盒上。此标签上同时注明了使用的额定电压和电流。

❑ 您的科勒泡泡浴缸附带有电线和插头。所有电路连接已经在工厂完成。请由一名持证电工将进行安装一个专用的220伏特、10安培的具有GFCI保护的接地插座。
❑ 将控制盒插头插入此插座。
❑ 将气泵周围的尘土和碎屑清除干净。

D. 测试泡泡浴缸的运转

❑ 检查所有的电路连接，确保浴缸连接电源部分是打开的。
❑ 确保气管道的所有管道连接安全。
❑ 核实气泵安全。
❑ 暂时从浴缸上拿走塑料布或其他保护性材料。
❑ 关闭电子排水。注水入浴缸，水量至少达到最高的气口顶部以上100毫米。
❑ 请参照"浴缸操作"部分，确认各项功能正常。
❑ 检查排水管道是否漏水。如果有任何漏水现象，及时修理。
❑ 启动浴缸，检查气口的气流状况。检查气管道是否漏气。
❑ 关闭气泡按摩功能，进行排水。
❑ 将塑料布或其他保护性材料放回原位。

蓄水功能键　　　　按摩档位/水位设置键

水温显示———— 38°C

灯光开关/
灯色切换键　　　　按摩开关键
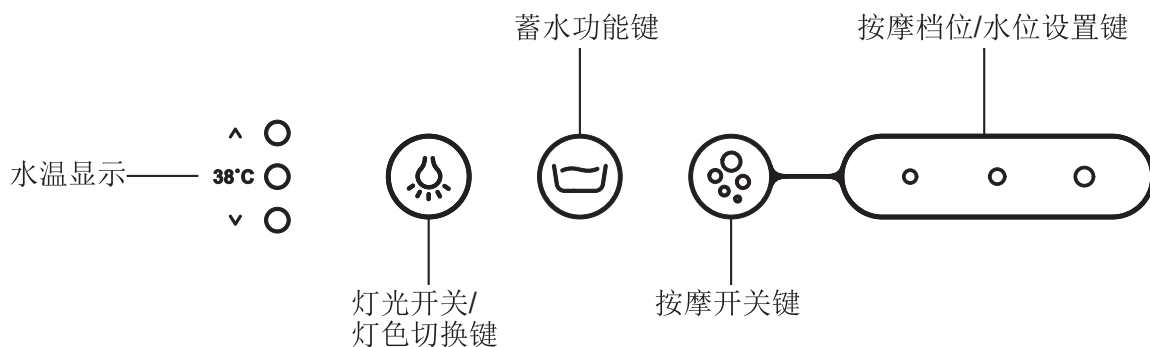
E. 浴缸边缘密封

⚠ 注意！！当心损坏浴缸！不要靠浴缸边缘支撑浴缸的重量。

对嵌入式安装，在敷上瓷砖或大理石贴面后，再用硅胶密封浴缸边缘和贴面的连接处。

浴缸
密封硅胶
墙壁贴面
水泥沙浆
砖或混凝土墙壁
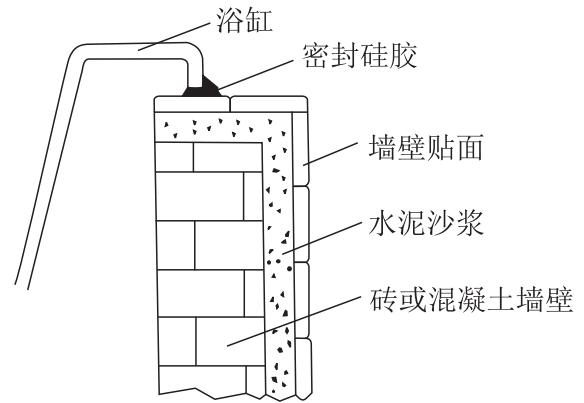
F. 在压克力表面上钻孔和切割

钻孔：可用一麻花钻头钻小孔，但切削刃必须用一块油石磨钝。大孔须用孔钻加工。麻花钻头的最大尺寸为12mm，速度为6mm × 1800转/分至12mm × 900转/分。

注意：钻孔要从压克力表面钻向浴缸背面。

切割：如果因故需要切割压克力，请用优质齿型钢锯仔细切割。边缘可用一旧锉刀及中等砂纸磨平。如果压克力表面受损，可用磨蚀性清洁剂抛光，将其恢复。深度刮伤可用600号水砂纸磨平，然后抛光。

G. 安装之后的清理工作

❑ 将气泵周围的尘土和碎屑清理干净。
❑ 使用温水和液体清洁剂清洗泡泡浴缸表面。**请不要使用磨损性的清洗剂，**因为他们会擦伤浴缸表面，或者损伤浴缸表面的光洁度。**请不要使用粉状清洁剂，除非这种清洁剂能够完全融于水。**固体物质会堵塞气口。**也不要使用漂白剂或者含氨类清洁剂。**含化学物质的清洁剂将有损于浴缸表面。如果需要正常的清洁剂和清洁方法，请参照家庭用户指南。

浴缸操作

A. 注水入浴缸

⚠ 警告：**存在产品受损危险。** 确保气泵周围区域没有任何锯屑、绝缘物、尘土、或者其他小的松散的碎屑。此类物品会堵塞气泵通气口，降低通过气泵的空气流动。

注意：在操作你的泡泡浴缸之前，请仔细阅读这些步骤。如果有任何故障，请参照"故障排除"部分。

注意：如遇断电状况，请不要使用浴缸。断电状态下，电子排水自动处于打开状态，浴缸无法蓄水。

B. 控制面板按键说明

操作说明

⚠️ **注意**：在操作面板之前，请确认面板上无明显水渍。如有，可用手轻抹后再进行操作。

- 电子落水功能使用说明
  柔触按钮"⊟"一次，绿色指示灯亮，浴缸排水关闭，再次柔触按钮"⊟"，灯灭，浴缸排水打开。
  柔触电子排水按钮同时可听到浴缸底部排水位置发出轻微的开/合声。
- 气泡按摩功能使用说明
  在解锁状态下，柔触按钮"⊛"，指示灯亮，气泵启动，再次柔触按钮"⊛"，指示灯灭，气泡关闭。
  柔触按钮"⊛"，气泵启动后连续运行约20分钟，气泵自动停止运行。
- 气泡调节功能使用说明
  在气泵运行状态下，用手向滑条"∘∘●"方向滑动或触碰，滑条灯光随手指方向点亮，气泡按摩强度增加，用手向滑条"●∘∘"方向滑动或触碰，滑条灯光共计三档随手指方向熄灭，气泡按摩强度减小。最大强度时，指示灯全亮，最小强度时，一个白灯亮。
- 自动清洁功能说明
  浴缸水位曾超过15cm，气泵在按摩状态关闭后，如果检测到浴缸内水位下降到气孔以下，气泵将自动启动并运行约2分钟后自动停止。水位在气泡孔以下至浴缸水完全排空后30秒时间段内，启动自动清洗功能均为正常现象。

C. 气泡系统的操作

- 柔触控制面板上的气泡开关按钮"⊛"。
- 观察确认气泵开始运转。
- 观察并确认所有的气泡孔都有气泡冒出。
- 用手向滑条"∘∘●"方向滑动。
- 核实气流增强。
- 用手向滑条"●∘∘"方向滑动。
- 核实气流降低。
- 柔触控制面板上的气泡开/关"⊛"，气泡关闭。

D. 自动清洁操作

- 浴缸内注水约20cm以上。
- 柔触气泡开关"⊛"。
- 气泵运转约1分钟后，再次柔触气泡开/关"⊛"，气泡关闭。
- 柔触电子排水开/关"⊟"，等待浴缸内水排空。
- 观察并确认气泵自动启动并在大约两分钟后自动停止运转。

E. 断电强制排水保护功能

❑ 柔触电子排水开/关"⊖"，关闭电子排水。
❑ 拔掉控制面板的电源插头。
❑ 观察确认电子排水自动打开。
❑ 重新上电，电子排水恢复到断电前状态。

注意：断电状况下，请不要使用浴缸。断电状态下电子排水自动处于打开状态，浴缸无法蓄水。

F. 浴缸溢水功能测试

❑ 柔触电子排水开/关"⊖"，关闭电子排水。
❑ 浴缸内注水直至排水自动打开，并有蜂鸣声音报警，此时"⊖"为白色闪烁状态。
❑ 关闭注水龙头，水位下降到溢水高度以下，排水应自动关闭，此时"⊖"为白色。（每个浴缸的溢水位不同，具体见尺寸图）。

⚠ 注意：浴缸内水位到达溢水水位时，您进入浴缸或启动气泡按摩功能，导致水位上升较多时，可能会触发强制排水功能。强制排水功能排水量较多，建议不要在溢水水位使用浴缸。

G. 强制排水功能

❑ 如果溢水水位传感器发生故障。电子排水具有强制排水功能。防止浴缸内的水流入您的浴室。强制排水水位见尺寸图的自动排水水位。

故障处理表

现象	原因	处理措施
1.气泡按摩不能启动。	A.控制盒没有通电。	A.启动/重启GFCI或ELCB断路器；检查线路连接
	B.控制板线路松弛或受损。	B.检查线路连接，如有必要请更换控制面板。
	C.控制面板不能启动。	C.更换控制面板。
	D.气泵不工作。	D.更换气泵。
2. 气泵启动，但气泡少，甚至没有气泡。	A.管道漏气。	A.找到泄漏处重新做好密封。
	B.气泵进气口堵塞。	B.清除堵塞，将气泵周围清理干净，确保足够的通风。
3. 20分钟以内气泵自动停止运转。	A.GFCI或ELCB故障。	A.排除GFCI或ELCB故障。
	B.气泵过热，保护装置启动。	B.检查气泵通风口是否堵塞，移走堵塞物，并让气泵冷却。
4. 20分钟后气泵没有自动停止运转。	A.控制盒故障。	A.更换控制盒。
5. 柔触控制面板上的气泡开/关按钮后，气泵不停止运转。	A.控制面板电线松弛或受损。	A.检查线路连接，如有必要请更换控制面板。
	B.控制面板不工作。	B.更换控制面板。
6. 气泵运转，但是无法调速。	A.控制面板电线松弛或受损。	A.检查线路连接，如有必要请更换控制面板。
	B.控制面板不工作。	B.更换控制面板。
	C.控制盒故障。	C.更换控制盒。
7. 不能自动清洁。	A.气泵不工作。	A.更换气泵。
	B.水位传感器损坏或线路开路。	B.检查线路，如有必要更换水位传感器。
	C.浴缸内水位过高。	C.等待浴缸内水位下降到气孔以下。
	D.控制盒故障。	D.更换控制盒。
8. 无法打开或关闭电子排水。	A.控制面板故障。	A.更换操作面板。
	B.控制面板故障。	B.更换控制面板。
	C.排水机构故障。	C.更换排水机构。
9. 浴缸无法自动溢水。	A.水位传感器故障。	A.更换水位传感器。
	B.排水机构故障。	B.更换排水机构。
10. 浴缸注水后水位无法保持。	A.水位强制保护开关动作。	A.降低浴缸内的水位。
	B.水位超过溢水水位。	B.降低浴缸内的水位。
	C.溢水水位设定偏差。	C.可联系Kohler公司专业客服人员，重新调整水位。
11. 无水温显示。	A.控制面板线路故障。	A.检查线路，或更换控制面板。
	B.控制面板故障。	B.更换控制面板。
12. 水温显示异常。	A.排水机构内水温传感器故障。	A.更换排水机构。

用户的责任

泡泡浴缸的清洁和保养

请确认泡泡浴缸按照本安装说明书的要求被安装。

按摩系统至少每个月使用一次，以避免电气零件因过度受潮而导致损坏的可能。

清洗表面：请勿在表面使用磨损性的清洁用具，以免擦伤浴缸表面，使其失去光泽。每次使用后，将浴缸擦干，以防止肥皂和污垢沉积。

若表面失去光泽，先用汽车抛光剂*，然后再用粗腊打亮。

*我们推荐使用以下2种抛光剂：
① Mequiars 镜面光亮28金属上光剂。(进口)
② 抛光膏(绿油)。