GAINSBOROUGH
Specialist Bathing

Malvern

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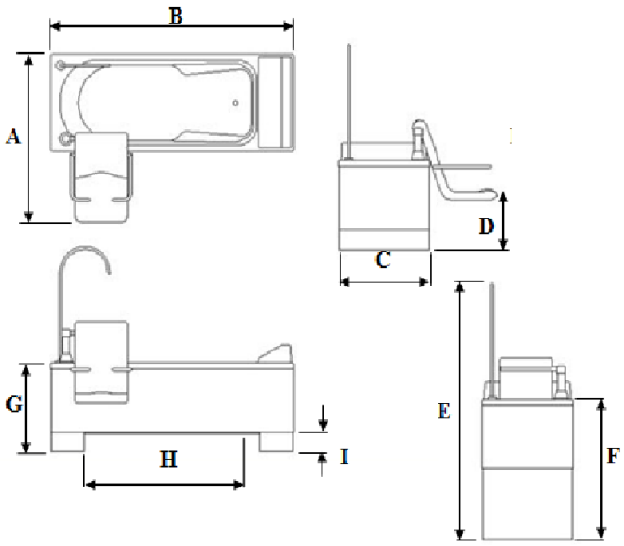
GAINSBOROUGH
Specialist Bathing

Pre-Installation Requirements



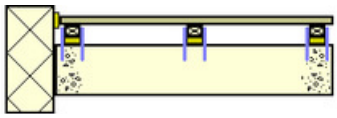
Minimum Dimensions for Access: Doorway: - 825mm. Corridor: - 825mm

Consideration must be allowed to manoeuvre the bath around hallways etc.

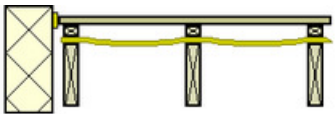
This document details the requirements which must be in place to ensure the bath can be installed correctly

A.	1400mm	F.	1090mm
B.	2000mm	G.	690mm
C.	750mm	H.	930mm
D.	485mm	I.	150mm
E.	1990mm		

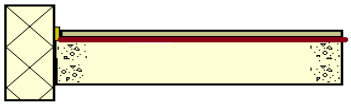
Floating Floors
The definition covers a multitude of floor finishes. Typical examples below.
It is imperative that before any work is carried out that an understanding of the floor composition is carried out.



1. Floating floor fixed to wood Supports over concrete Joists



2. Floating floor fixed to wood



3. Floating Floor on cushion material

Dependent upon the sub-structure a decision can be made as to whether it is feasible to install a powered bath with chair. If the bath is a platform bath this is not an issue as there is little or no lateral load. The issue arises when it is necessary to support the cantilever effect of the chair and patient.
Read below to address the floating floor that affects your installation:

1.
It is feasible to tackle this type of floor in two ways.
a) Remove a section of the surface floor and 'build up' from the concrete sub-floor. This can be done by creating a 'tray' and fill this using a concrete mix. Alternatively timber joists can be anchor bolted to the concrete sub-floor to provide the needed support. The finish should come level with the surface floor.

b) If the void is small it is acceptable to drive through with Rawl/Coach bolts. This may require a small section of the surface floor being removed and material such as sheet wood inserted to fill the area.

2.
This type of void requires the surface floor removing and Noggins introduced to brace between the Joists. Particular attention should be made on the area where the foot plate of the bath is to be sited.

3.
Dependent upon the void size it is usually acceptable to remove the material (often 100mm/4" polystyrene) and back filling with concrete.

Under No Circumstances should fixing be made to the surface floor alone.

Pre-Installation Requirements

¾" BSP Male hot water inlet, 30mm from the floor, against the wall, 200mm from the left hand side of the front (tap end) of the bath.

¾" BSP Male cold water inlet, 30mm from the floor, against the wall, 250mm from the left hand side of the front of the bath.

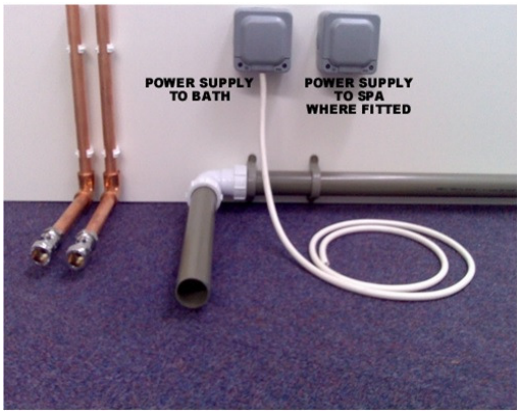
40mm Waste outlet @ 3ltr/Sec, 30mm from the floor, against the wall, 290mm from the left hand side of the front of the bath.

A 5 Amp IP65 Non Switch Fused Spur, with 2m of 1.5mm 3 core round cable protected inside plastic conduit to the bath within 200mm of the tap end of the bath, positioning and specification to be in accordance with current IEE regulations.

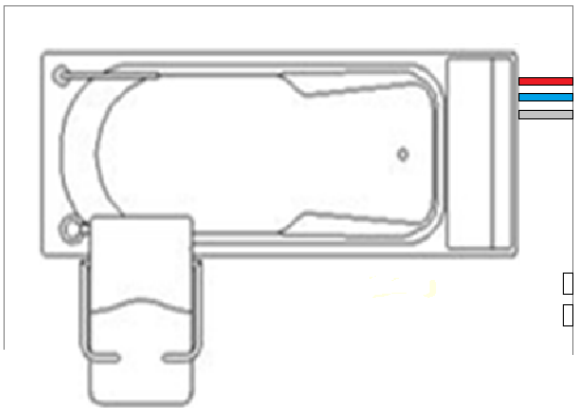
An additional power supply will be required if a spa is fitted.

See below diagram for position reference.

Picture for visual reference only



DIMENSIONS TO BE TAKEN FROM THIS



Minimum distance between the walls and baths bath sides is 150mm.

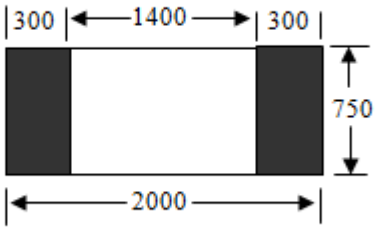
When deciding on the position of the bath there are a number of points that should be considered.

1. Hoist and wheel chair access
2. Access for installation and service
3. Opening doors
4. Distance from walls and other objects
5. Manoeuvring the transfer trolley
6. Seat traverse
7. Under floor heating, pipe work and cables.

The floor directly under the bath and transfer area must be a solid and even surface.

Particular attention should be paid to the shaded area on the plan which needs to be drilled to a depth of 100mm for fixing points and must be of solid construction with no buried services.

Floor Fixing Points



Floor Space Under Bath. All dimension in millimetres

Electrical connection & Earth bonding.

A 30mA RCCD is required in compliance with the current IEE regulation. This should be located just outside the bathroom or on the consumer unit covering that area of the building.

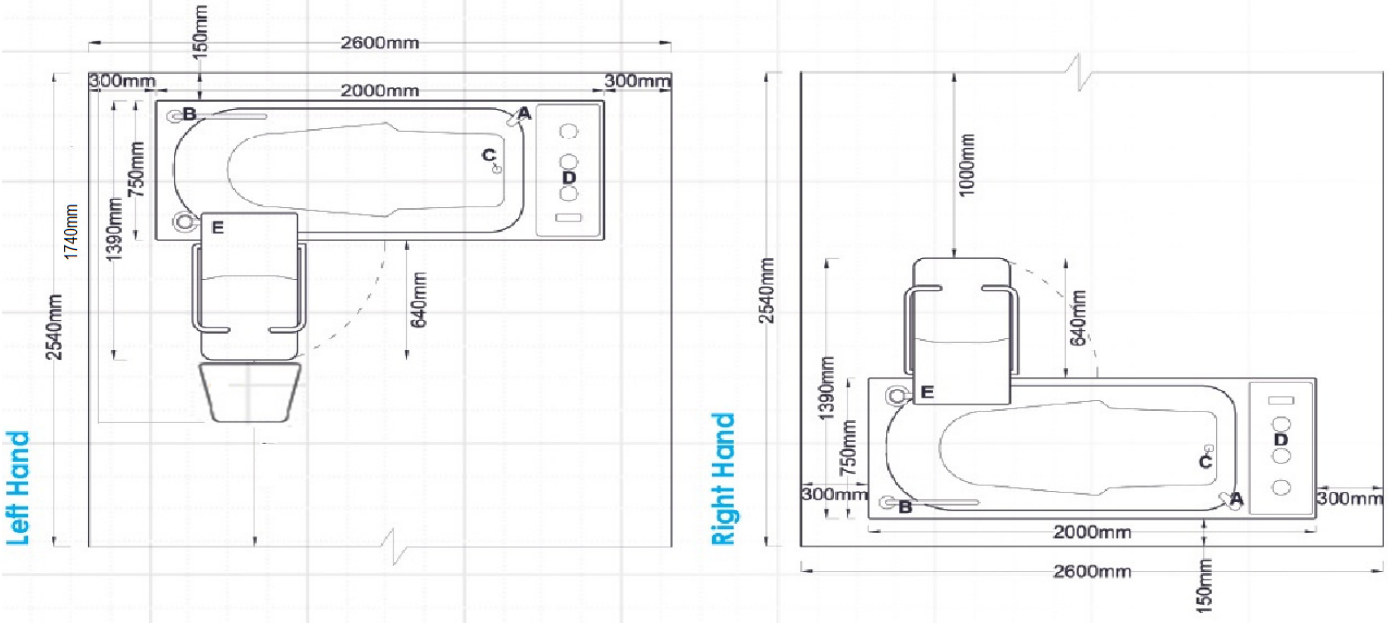
10mm Earth bonding and a minimum of 4mm cross bonding is to be fitted and tested for continuity in accordance with IEE regulations.

Pre-Installation Requirements

Room Layouts 1:20

(Minimum space requirements to operate bath - Peninsula or Island arrangement recommended)

A Spout Position
B Shower Position
C Waste
D Controls
E Left/Right Handed Seat



Water pressure

The bath includes a type 3 Heat guard Thermostatic mixing valve which has been manufactured to

NHS model engineering specification D08 and approved under the TMV3 scheme.

Please read the following which outlines how a TMV3 may affect the use of your bath.

The working parameters of the TMV3 require a water pressure of 1-5 bars with a maximum pressure loss no greater than 10:1 between hot and cold feeds.

It is important to note that a pressure difference between hot and cold pipes will have a great effect on the time it takes to fill a bath.

i.e.

Hot water 1.4 bar and cold water 2.4 bar = approx. 9min to fill with 180 litres.

Hot water 2.2 bar and cold water 2.2 bar = approx. 5min to fill with 180 litres.

If in doubt a pressure test should be carried out prior to installation of the bath and if required a booster pump or pressure reducing valve fitted.

Installation

Responsibility of the installer.

It is the responsibility of the installer to inspect the product prior to installation to ensure the unit is free of defect or damage. In the event of a problem the unit must not be installed.

This product complies with internationally recognised safety standards. However you are responsible for any local codes that may apply.

This product is designed to be installed by a licensed tradesperson. Licensed plumbers and electricians should be employed to ensure a proper installation. Installers assume all liability for the correct installation procedures.

Only accessories authorized by the manufacturer should be used with this product.

Risk of electric shock. Connect only to a separate circuit protected by a 30mA RCCD.

The unit must be connected to a RCCD. This should be tested on a routine basis. To test the RCCD push the test button, the RCCD should interrupt power. Push the reset button, power should be restored.

If the RCCD fails to operate in this manner there is a ground current flowing indicating the possibility of electric shock. Do not use this unit. The unit should be corrected by a qualified representative before any further installation is undertaken.

Risk of electric shock. Spa motors where fitted should be connected to a separate 30mA RCCD protected outlet.

Note: The unit must not be fitted in the bathroom area unless protected by an RCCD.

Classification & technical data.

Fixed class 1 installation

Type B applied part

Not suitable for use in the presence of flammable anaesthetic mixture with air or oxygen or nitrous oxide.

Rated supply 230v, 240W 60Hz refer to label.

Maximum patient weight: 22 stones . 150kg (140 Kg transfer systems)

Maximum weight of bathtub, patient and water 420Kg

Maximum weight of complete transfer system . 33kg

Suitable for intermittent use only - 2 minutes on - 18 minutes off.

The power pack is low voltage and runs at 24v DC . Immediately after installation and prior to use it is vital that the bath is connected to a mains supply for at least 24 hours before initial use to ensure the batteries are fully charged.

Failure to comply with this requirement could result in the user not being able in the event of a mains power failure.

Installation

Do not use sharp knives or instruments to open this product.

Remove the plastic film from all panels.

A. Check with the site owner to confirm the exact installation position.

B. Inspect the unit and panels thoroughly.

C. Ensure all components are present inside the bath pack. (this should include : repair pot, Manual, Waste kit, SWL sticker, lap belt, floor fixing kit and shower unit assembly.) report any missing items immediately quoting the number on the side of the unit.

D. Remove any existing equipment and materials as necessary to prepare the site.

E. Connect the bath unit on a temporary power supply . This will be indicated by a green light on the touch pad.

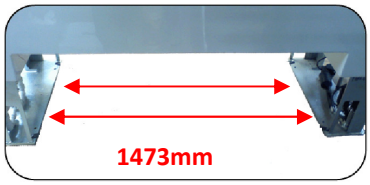
F. Raise the seat using the 2 button handset and the bath by using the touch pad.

G. Fit the shower unit before positioning the bath in the installation position.

H. Manoeuvre the bath into its installation position.

I. Remove the transportation wheels and cross tie bars.

J. Set the base distances to 1473mm



K. Mark the position of the floor fixing holes

L. Move the bath to allow drilling of the fixing holes

M. Drill 4 x 10mm x 100mm deep in the floor at both ends. Clean out all dust and debris.

N. Put in place the inner panels (wall side) and tunnel panel before fixing the bath to the floor.

O. Re-position the bath and fix to the floor using the kit provided, ensure the plates and chrome tube are level.

P. Connect the hot and cold water pipes.

Q. Connect the waste pipe.

R. Make the electrical connection .

S. You will need to trim the panels around the pipe work and electrical connections on the tap end of this product.

T. Check for any leaks and set the TMV temperatures. Taps 43℃ and the Shower at 38℃

U. Attach the safe working load to the panel and fully test the unit.

Seat end panel assembly

Tap end panel assembly

Fitting the lower panels

Fitting the drive fasteners

Securing the panels

User Guide

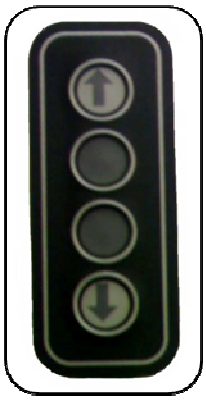
Your Malvern bath is simple to use. However there are some basic guidelines which should be followed to ensure you get the most of your unit.

The handset control push buttons use air to operate the seat, therefore it is completely safe to use with wet hands.

The handset buttons operate independently on a depress to run basis. If the button is released the unit will stop.

Holding down one button and then pressing the other will cause the unit to stop.

MAXIMUM USER WEIGHT IS 150 KG or 140 KG if using a Transfer system.



The bath lift is independent to the seat. To raise the bath the seat must be inside the bath in the raised position.

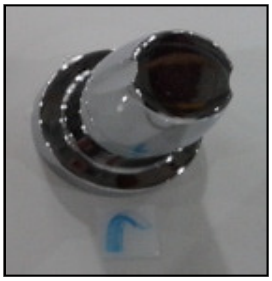
NOTE: the bath will not raise when the seat is outside the bath.

The bath can be raised to a comfortable height to suit the user.

The bath raises and lowers on a keypad. Pressing both buttons at the same time will cause the bath to stop. Releasing either button will enable the bath to continue.

When not in use the bath should be fully lowered.

To open and close the waste, use the Control knob located on the top edge of the bath tub. The waste will open and close on a half turn.



To operate the spout, open the valve marked “spout”. This is pre set to 42℃.

Some products have a third valve fitted to add cold water only (specified models only).

A safety lap belt is provided with your product. This is to be used at all times when the unit is operated with a seated user.

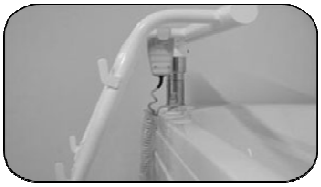
User Guide

Transfer system

1. Prior to entry a carer should ensure that the pick up arm is in the fully lowered position outside of the bath. This can be achieved by pressing and holding down the “out of water” button on the handset. The arm will stop automatically when it is fully lowered.

Note that the bath must be fully lowered before the arm will traverse.

2. The trolley and seated user can now be positioned outside the bath.

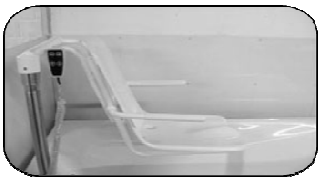


3. position the seat on to the pick up arm ensuring that all of the location points are in line

4. Apply wheel brakes

5. Raise the arm using the handset.

6. Raise the seat. Remove the trolley before the seat traverses.



7. Traverse the seat over the bath. (support the bathers legs)

8. Lower the seat into the bath or Raise the bath using the air buttons a comfortable working height.

Note that the bath will not raise while the seat is outside the bath. The bath will also not raise if the seat is fully lowered inside the bath.

9. Under no circumstances should the handset be operated into the bath while the seat is not fitted to the pick up arm.

Exit is a reversal of the previous. Depressing the “out of water” button to lift the seated user up out of the bath. Assistance may be required to lift the user’s legs out of the bath. Then traverse out side the bath.

Do not pull or push on the seat or pick up arm as this can result in serious injury.

Position the trolley beneath the seat and continue to lower the seat until the seat locates fully onto the trolley.

When not in use, the pick up arm & seat should be left in the lowered position outside the bath with the bath fully lowered if possible.

User Guide

Intended use Fixed seat system.

Supplied without the transfer trolley the seat is permanently fitted to the bath. All operation remains the same.

A safety lap belt is supplied for added security whilst the user is seated on the chair and during bathing.

It is the responsibility of the user/carer to ensure the lap belt is fitted while the product is in use.

Check the temperature before use.

To operate the shower open the valve marked “shower” and depress the handset.

This is a hair wash/rinse system only. This is pre set to 38℃. After use turn off the valve, depress the handset briefly to empty any water still inside the hose and then place the handset back into it’s mount.

User safety notes

To reduce the risk of injury do not permit children or persons with infirmities to use this product unless they are closely supervised at all times.

To avoid injury, exercise care when entering or exciting the Malvern bath.

Never drop or insert any objects into any openings.

Do not permit electrical appliances (such as hair dryer, lamp, telephone, radio or television) within 152cm (60”) of this product.

Avoid the abuse of alcohol, drugs or medication whilst using the Malvern bath.

Warning! Please ensure that hands and objects are kept away from the underside of the seat when lowering onto the trolley & into the bath.

Ensure all items for bathing including towels, face cloths, soap , shampoo etc. are within easy reach when using the bath.

Maintenance

To get the most out of your Malvern bath we recommend that the unit is cleaned and maintained on a daily basis.

The chrome seat tube should be cleaned using a silicone based cleaning product (such as Mr Sheen)

Spray a small amount on the tube when the seat is fully raised and wipe with a dry soft cloth. This will avoid any build up or soap, water or atmospherics.

The bath can be cleaned with a medical disinfectant, especially if the product is to be used with multiple users.

Do not use abrasive type cleaners. Oven cleaners, scouring powders or bleach on this product.

Trouble shooting

1. The seat will not traverse — make sure the bath is fully lowered.
2. The seat will not raise — Check that the system has mains power (green light on status display)
3. Bath will lower but not raise — Check that the system has mains power (green light on status display)
4. Flashing blue light on status display — disconnect mains power, wait 5 minutes, re apply power.

For any other issues please contact the service department.

Code 1: Lift actuator fault	**:** One long flash followed by 1 short flash
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Code 2: Traverse actuator fault	**:** One long flash followed by 2 short flashes
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Code 3: Leg Lift actuator fault	**:** One long flash followed by 3 short flashes
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Code 4: Bath lift actuators fault	**:** One long flash followed by 4 short flashes
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If any of the above fault codes are indicated on the status display please contact our service department.

Warranty

This product is warranted as being free from defects during the period of warranty. This does not cover minor blemishes, etc. which may be part of normal manufacturing processes.

The warranty covers manufacturing defects in the products, starting from the date of manufacture. Contact your Supplier to find out more about the warranty period. The warranty is limited to the value of the purchase price paid.

The warranty is only valid if the product has been used correctly. Where there are any mechanical or electrical parts, any damage, misuse or tampering with them will render the warranty invalid. Any sealed electrical boxes must remain unopened or this will invalidate any warranty.

THERE IS NO OTHER WARRANTY EXPRESSED OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING WARRANTY IS LIMITED TO THE TIME PERIOD SPECIFIED FROM THE TIME OF RECEIPT. IN NO EVENT SHALL THE SUPPLIER BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES I NCLUDING BUT NOT LIMITED TO; LOSS OF USE. WHILE THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.