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Pre-installation Services Requirements for Kingkraft Contour Bath

Please read very carefully

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Contents

Pre-installation Service Requirements

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for
Kingkraft Contour Bath

PLEASE READ VERY CAREFULLY PRIOR TO COMMENCING
(Please contact the company to confirm the above issue number is current)

This booklet describes the ideal conditions to which a site should be prepared prior to the installation of the bath.

The bath is intended to be used for assisted bathing and should only be installed by competent individuals. The bath may incorporate lifting mechanisms and other electrical items and will normally have thermostatic mixer valves. These will require careful setting and subsequent maintenance.

At any stage, Kingkraft can provide telephone advice and a full commissioning service following installation by others. Kingkraft also offer a maintenance service. Please call the company for details. If requested Kingkraft will also undertake a pre-delivery site survey and offer advice.

General

The Contour bath is available in two different sizes. The bath features fixed height or raise / lower versions and the option of on board fixed temperature mixer valves. One valve controls the water temperature to the bath fill spout and the other controls water temperature to the on board shower. The bath has one side which opens out fully to allow the baths to be used as a table and to enable easy access. The bath has waterproof cushions on the base and fold side as standard although cushions can be manufactured to cover other parts of the bath if required. Removable supports can be supplied to suit the needs of the individual bather.

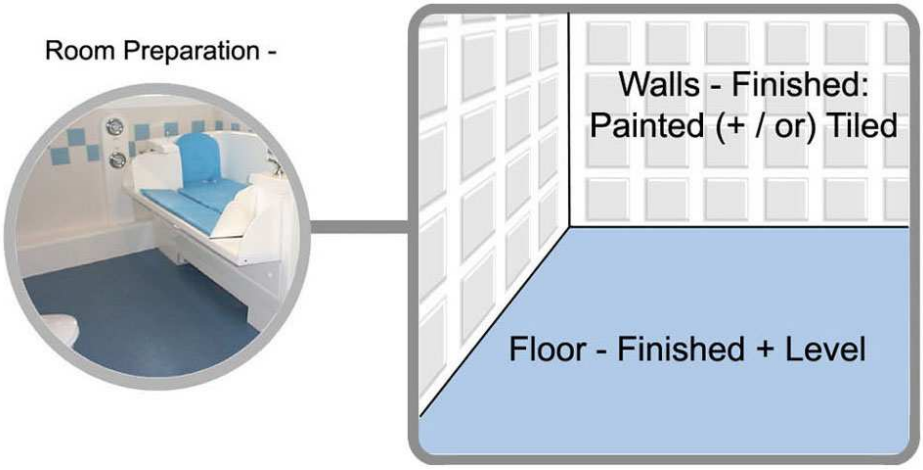
1700 / 2000 Contour Bath

Delivery

The Contour Bath is typically delivered in one complete unit. Please note this is a large product and will require careful consideration on how the bath is moved into it's designated room in the building. The lower skirting will be supplied separately to ease handling and installation. If the bathroom is not particularly large, it is recommended to leave other fittings, eg basins, WC's, etc, until after installing the bath.

The Contour Bath can be disassembled into separate components, to allow entry to areas where access is difficult / limited. If this is required, it should only be done by, or with the guidance of a Kingkraft Engineer. (Please contact Kingkraft)

Rough / excessive handling of the Contour bath must be avoided at all times due to the possibility of compromising the door seal. The bath should not be lifted / manoeuvred by the external panels. All handling must be carried out using the metal framework on the bath. The panels can be unscrewed and refitted once the bath is in the required position.



WATER SUPPLY REGULATIONS

Depending on the nature of the establishment where the bath is to be used, UK water regulations stipulate certain conditions of supply. It is understood that the bath might be classed by the water authorities as either a Category 3 fluid container (typically if used in a private domestic dwelling) or a Category 5 fluid container if used in a medical multi-user environment (eg Hospital). The categorisation is important. If the installation is a Category 5, the local water undertaker should be informed in advance of the installation by the person responsible for the installation and a regulation air gap must be included in the cold water supply. The air gap is to prevent back siphoning down the shower hose. Kingkraft can offer a CAT5 shower solution. Please ask for details. By definition, a category 5 installation cannot be supplied via a Combi-Boiler. If there is any doubt as to the nature of the installation, please refer to your local water supply authority.

If the installation is for a Category 3 container, back siphoning is adequately prevented by the provision of the twin non-return valves. (not supplied as standard with the bath) Your local water undertaker should be able to advise you on the likely categorisation of the bath in your particular establishment.

Water Supply Requirements

The bath may be used if required as an easy access bath. The bather enters through the open bath side and the bath is subsequently filled with water mixed to a safe temperature by the mixer valve. In order that the bather does not become cold, the bath is designed to permit high flow rates (although they may work with low flow rates, when the fill time will of course be longer). Depending on how the bath is to be used, it is therefore important to establish that there is sufficient flow available. Typical high flow rates are 20 litres per minute, low rates are, say less than 10 litres per minute.
The mixer valves provided together with the necessary non-return valves cause restrictions that reduce flow rate still further. If high flow rates are available then it is preferable to pipe supplies in 22mm. (Combi-Boilers require 15mm pipework, and will generally fill quite slowly).

Consideration may need to be given to providing a pumped supply to the bath if flow rate is likely to be an issue. A minimum head of water of 4 metres is preferable to avoid the need for a pump. (Combi-boilers cannot be pumped) A competent plumber should be able to advise the best option.

In addition to adequate flow rates, the incoming water pressures should ideally be in a ratio of 5: 1 cold to hot with no tendency for air locks and with a nominal hot temperature of 55 ^{o}C or higher. The mixer valves will need to be set up and checked at commissioning to mix the incoming water to supply controlled water at 43 ^{o}C to the bath and 39 ^{o}C to the shower.

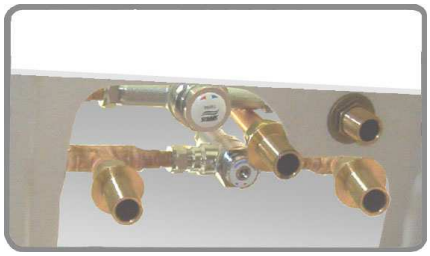
If the bath is being used in continuous cycles, adequate hot water storage must be available. A standard Kingkraft bath is less than 230 litres in volume. Please check if you are in doubt.

<u>The option for thermostatic mixer valves is the 'on-board' mixer valves. There is also a RADA Sense digital mixer valve option. Please check which specification you have ordered and follow the following correct instruction section.</u>

On-board Valves – (Mounted within body of bath).
If the on board valves are specified, the temperatures can not be adjusted once set (except by recourse to Allan Key adjustment).

Example: On-Board Valves Assembly, attached within the body of the bath -

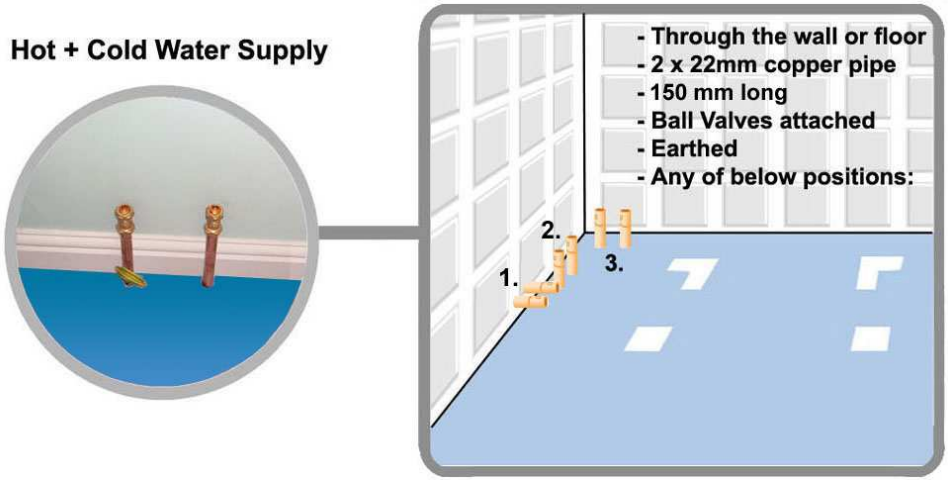
Example: On-Board Valves Pipe work for use with Booster Pump -



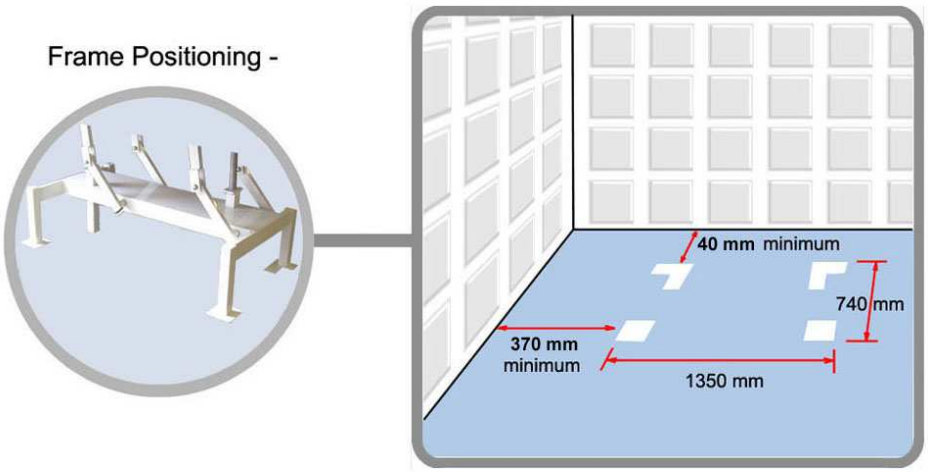
<u>The mixer valves will need to be set by a competent individual once installed and regularly maintained thereafter.</u>
<u>Kingkraft recommend a yearly service (or 6 months if in hard water area)</u>

Digital Mixer Valve (RADA Sense) -
If this has been specified, please contact Kingkraft for specific guidance for this system.

On-board Valves -
If the on board valves are specified, simply position the hot and cold supplies centrally at the tap end of the bath for connection to the flexible hoses provided. See suggested options on next page -



When siting the bath, allowance will have to be given for wall clearance as the bath moves up and down. The Contour requires only a nominal clearance (always having regard to finger entrapment). PTO for diagram.

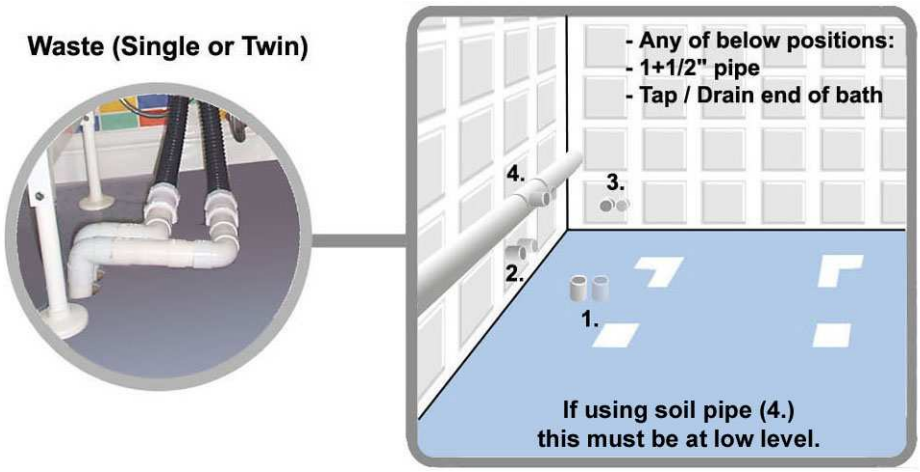


(Fixed height feet positioning may be different from above picture, Please phone Kingkraft to confirm dimensions if required).

Nothing should be wall mounted above the bath as this may cause a risk of trapping as the bath traverses upwards.

Drainage

The bath can be supplied with either a **single or twin drains**. Please check the specification of the bath ordered. The drains pass through on board bottle traps connected to 38mm flexible drain hoses with a sleeve fitting. A rigid 38mm tail(s) should be provided at low level (no more than 150mm above floor) at the tap/drain end of the bath. For the Twin Drain option, either two separate 38mm drains are required or separate tappings provided into a 100mm pipe.



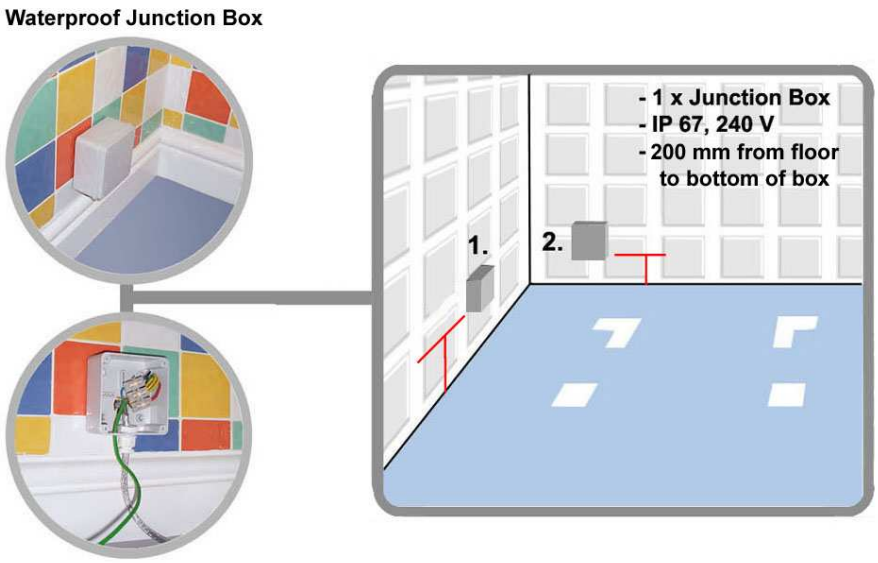
Electrical

The room into which the baths will be installed must comply with the latest electrical zoning regulations. These stipulate the minimum distance from the bath to electrical equipment in the room. In addition, adequate ventilation must be provided. A qualified electrical engineer should advise.

The Contour fixed height version does not require power unless optional extras such as a whirlpool system have been specified. All other specifications require a suitable mains power supply (a 24 VDC battery version is an option if the provision of mains power to the room is not practical or desirable - please enquire for further details).

A 230 V 50Hz 1ph 13 amp supply is required, installed to the latest IEE regulations for this class of installation. The supply must include a clearly identifiable, accessible double pole isolation switch. The supply should be run as a dedicated circuit and incorporate a suitable earth leakage protection device/residual current detector. A competent electrician must be consulted at all times.

The bath will connect to the circuit via a surface mounted 100mmx100mmx50mm waterproof junction box containing a terminal connection block and suitable waterproof glands. This box should be installed 200mm off the floor to the non-drain end of the bath. (If this is not possible, other locations away from the risk of water ingress may be considered).



Armoured cable is used with mains powered lifting frames and whirlpool option connections.

Accessible metal parts of the bath and its frame are equipotentially bonded and an earth bonding connection close to the hot and cold water supplies should be made available for the installer to connect to the bath frame.

Please note the bottom skirting and rear and side top panels will have to be cut out to allow clearance for pipework to enter under the bath if the hot and cold supply pipes are not located under the bath.

Counter weights are required to increase the stability of the bath. These can either be in the form of a concrete lintel, which rests over the two rear feet (on the inside of the frame) or in two metal containers. Do not put the counter weights on top of the frame.

The Contour bath must be screwed down with 5 x 40mm screws, although caution must be taken if under floor heating is installed.

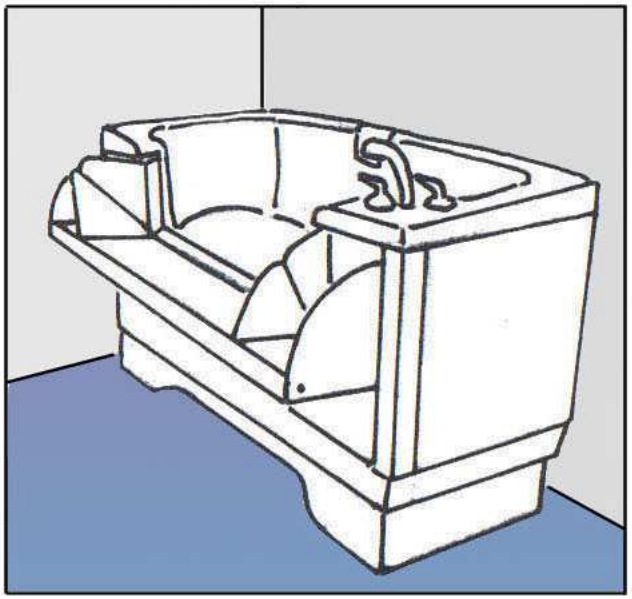
Please ensure only competent individuals undertake the above work and remember at all times to consult Kingkraft if there is any doubt. Kingkraft Engineers will gladly check over any work done, following installation of the bath, and provide a full commissioning service and certificate.

This is the recommended course of action.

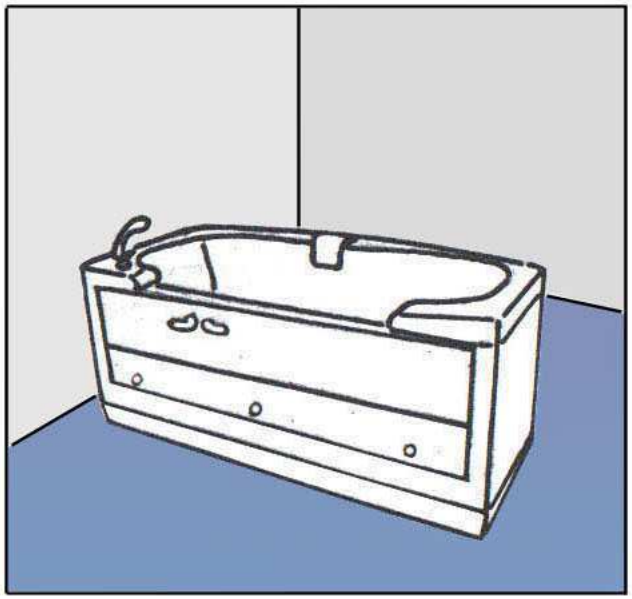
Kingkraft will also visit the site prior to delivery if requested.

Contour Bath Installation Positions -

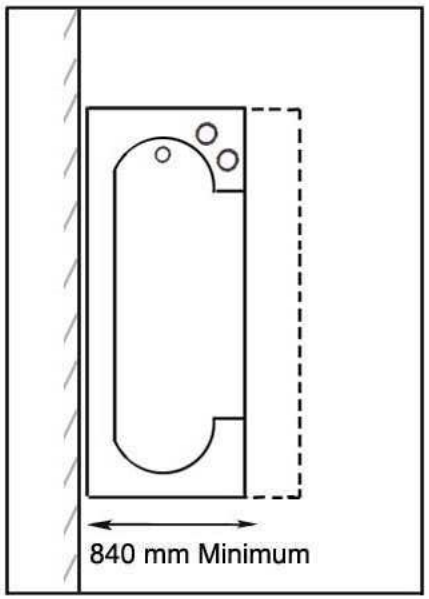
Bath against wall or in corner

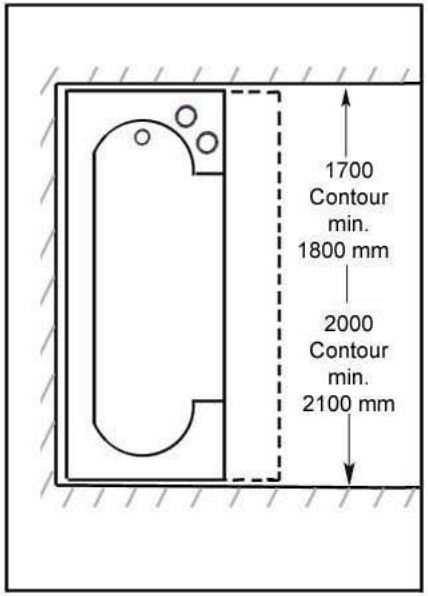


Island or end against wall

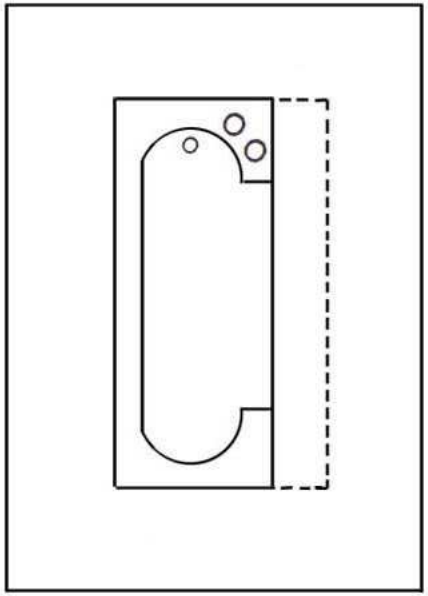


Position A

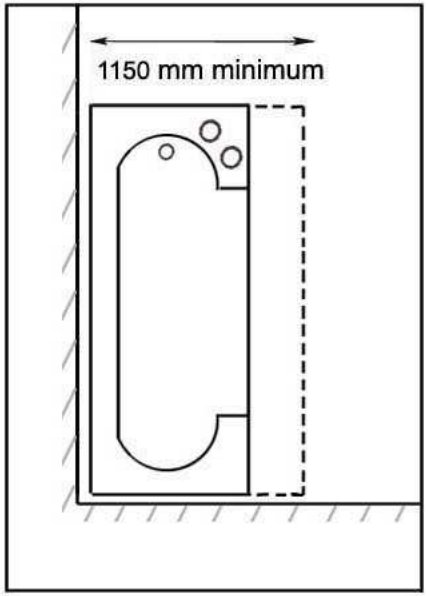




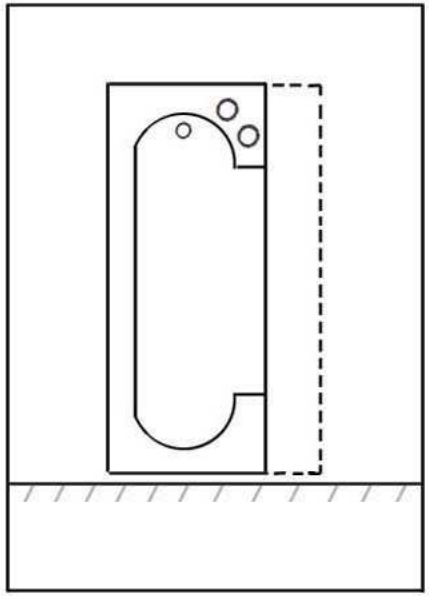
Position B



Position C



Position D



Position E

* Right Hand Unit shown - reverse for Left Hand Unit