Installation Guide

CIST19-ELEC Electronic Control WC Flush Cistern

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ROBUST. INNOVATIVE. WASHROOMS

AS 1172.2

Contents

1 x Cistern Including:

- ✓ 1 x Flush Pipe 500mm length
- ✓ 1 x WC flush pipe seal
- ✓ 2 x Cistern support brackets plastic.
- ✓ 1 x Wall brackets (pair) fitted with Electronic flush module & 4m cable,
- ✓ 1 x Cistern cover plate.

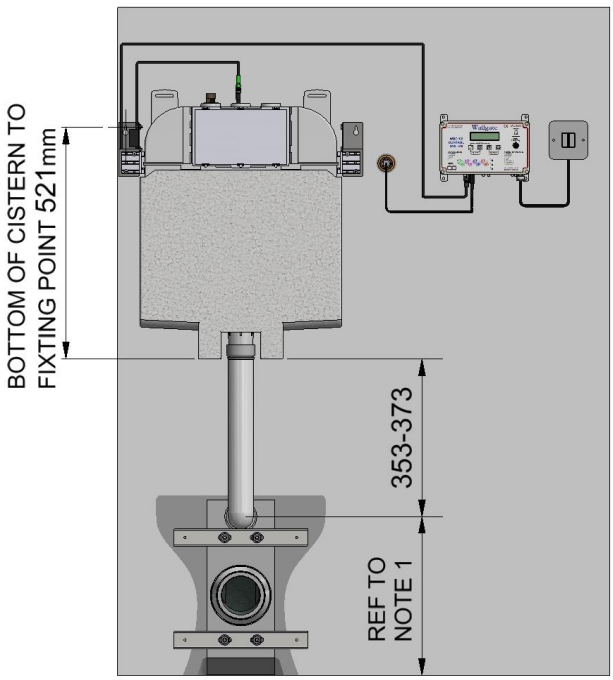
1. Fitting Instructions

The wall construction must be suitable to support the cistern weight when full: 10kg

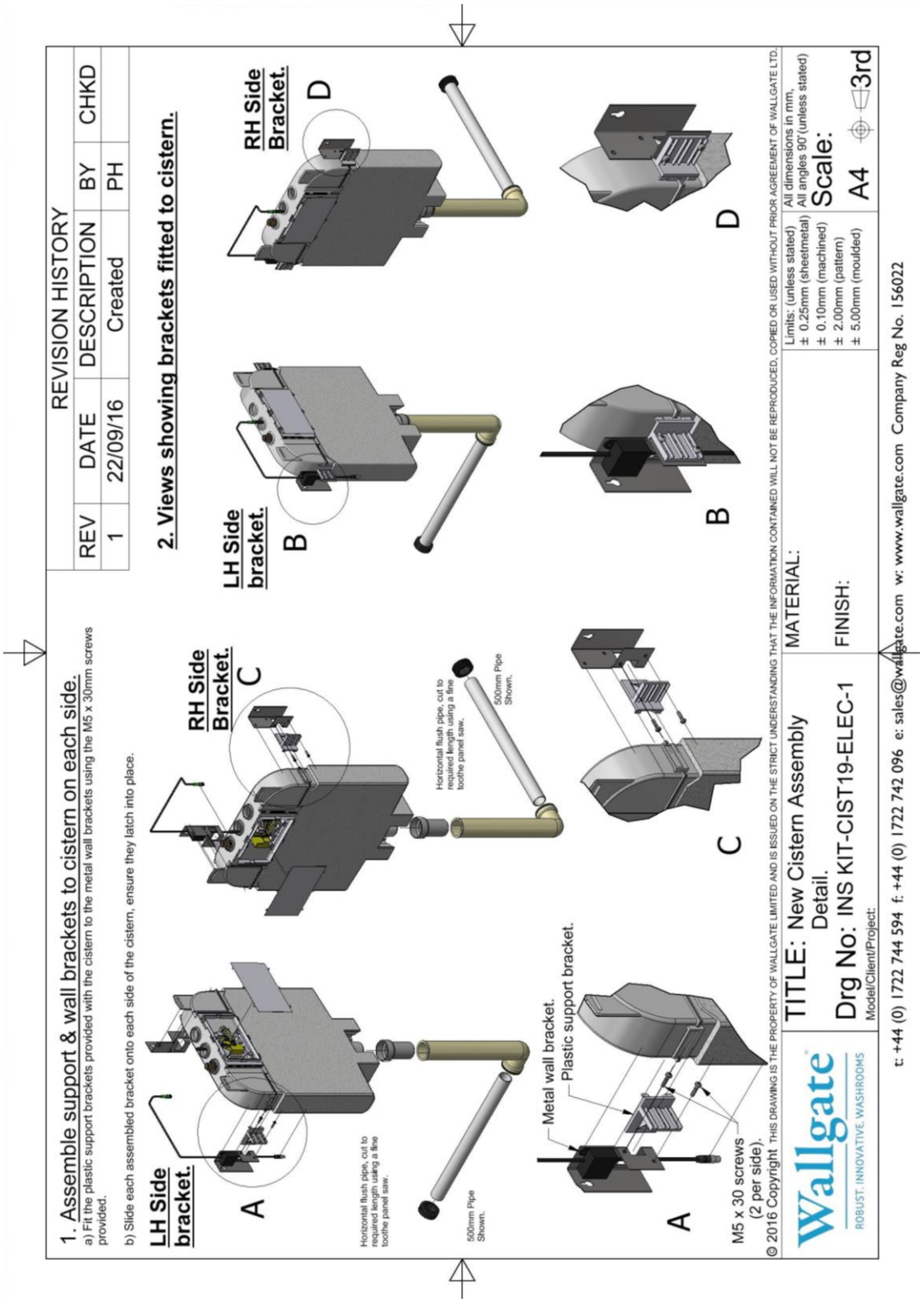
Refer to the manufacture instructions packed with the cistern in conjunction to following these instructions.

- Assemble the support & wall brackets & then fit them to the cistern as per fig 2.
- Mark wall position so cistern is vertically central to wc pan & at a height as shown on fig 1.
- Mark positions for cistern screw fixing points through each wall bracket. Select appropriate wall fixings for wall type, screws of size 5mm x 40mm long with a round head are recommended. Drill holes & fit cistern to wall.

Fig: 1



Note: The dimension to the flush inlet from floor level will vary according to the model of the wc pan. Refer to the drawing of the wc pan for the correct dimension.


REVISION HISTORY
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1 | 22/09/16 | Created | PH
1. Assemble support & wall brackets to cistern on each side.
a) Fit the plastic support brackets provided with the cistern to the metal wall brackets using the M5 x 30mm screws provided.
b) Slide each assembled bracket onto each side of the cistern, ensure they latch into place.
2. Views showing brackets fitted to cistern.
LH Side bracket.
RH Side Bracket.
Horizontal flush pipe, cut to required length using a fine toothe panel saw.
500mm Pipe Shown.
Metal wall bracket.
Plastic support bracket.
M5 x 30 screws (2 per side).
A
B
C
D
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TITLE: New Cistern Assembly Detail.
Drg No: INS KIT-CIST19-ELEC-1
Model/Client/Project:
MATERIAL:
FINISH:
Limits: (unless stated)
± 0.25mm (sheetmetal)
± 0.10mm (machined)
± 2.00mm (pattern)
± 5.00mm (moulded)
All dimensions in mm.
All angles 90° (unless stated)
Scale:
A4
3rd
t: +44 (0) 1722 744 594 f: +44 (0) 1722 742 096 e: sales@wallgate.com w: www.wallgate.com Company Reg No. 156022

Fig: 2

2. Fitting the Flush Pipe:

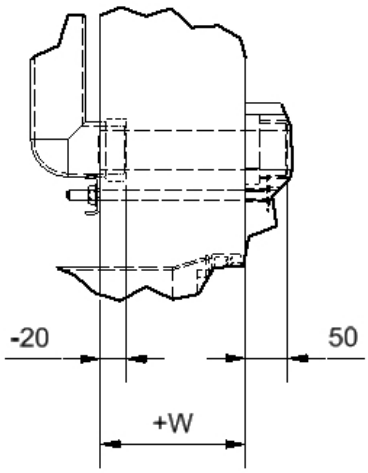
A 500mm length flush pipe is supplied for the horizontal connection between the vertical cistern flush pipe and the wc pan. If required cut the pipe to reduce the horizontal length into the back of the wc pan. Mark the position for the cut allowing 50mm of pipe into the wc pan, plus the wall thickness (W), then minus 20mm as shown on fig 3. Note that if the wc pan is fitted with an extension then the extension length should also be included in calculating the required pipe length. Cut the pipe using a fine tooth panel saw to ensure a straight clean cut,

(The use of a hack saw is not recommended).

NOTE: Ensure cut of pipe is made clean & straight & all burrs are removed.

To fit the flush pipes firstly push the vertical pipe onto the outlet spigot of the cistern and then fit the horizontal pipe into the socket of the vertical pipe. Fit the wc pipe seal onto the end of horizontal pipe (Note correct seal orientation) & then press the pipe with seal into the WC pan fully up to the barrier stop. The polystyrene pipe cover can then be fitted to the vertical pipe, again cut the cover with a fine-tooth panel saw should its length require shortening.

Fig: 3



3. Water Supply Connection to Cistern Fill Valve:

NOTE:

- **Water supply dynamic pressure: 0.1 – 14 Bar Dynamic.**
- **Maximum static pressure: 20 Bar.**
- **Flush out water pipes to remove building debris and air locks prior to connecting it to the cistern fill valve.**

Assemble the water inlet / stop tap to left hand aperture on top of the cistern as shown on instruction 2 of the manufacturer instruction sheet packed with the cistern. Connect a cold water supply to the inlet connector (Size ½" BSP (M). The inclusion of a service stop tap in the supply pipe close to the cistern is recommended.

4. Electrical Connection to Flush Valve:

The cistern flush valve is electrically operated by a Wallgate control unit (*) (Fig 4). The flush valve cable (*) from the top of the electronic module mounted on the LH wall bracket is labelled for connection to the green connector socket to the cistern flush valve actuator as shown on fig 4, ensure the pins on the connector are correctly aligned before mating them together and secure with the locking ring. Then connect the 4m cable from the bottom of the electronic module to the electronic control unit. Refer to the instruction manual for the control unit for full details of its installation & operation.

5. Flush valve activation touch button or infra-red (IR) sensor:

A Wallgate touch button or IR sensor (*) (Fig 4) is used for the activation of the cistern flush valve once connected to the Wallgate control unit. The touch button or sensor will be wall mounted alongside the wc pan at an appropriate position for use. Refer to the instructions or drawing supplied with the touch button or sensor for installation and connection to the control unit.

6. Commissioning the Installed Cistern:

NOTE: For chemical water treatment.

If the water system has been treated with chemical dosing, ensure the system is thoroughly flushed before fitting this product. Concentrated chemicals in dead legs can damage the product & result in failure. If the water is treated with Chlorine Dioxide (CI02), ensure concentration levels do not exceed a solution of 100 ml of domestic chlorine-based bleaching agent, consisting of up to 5% sodium hypochlorite (NaClo) and anionic surfactants to every 900 ml of water.

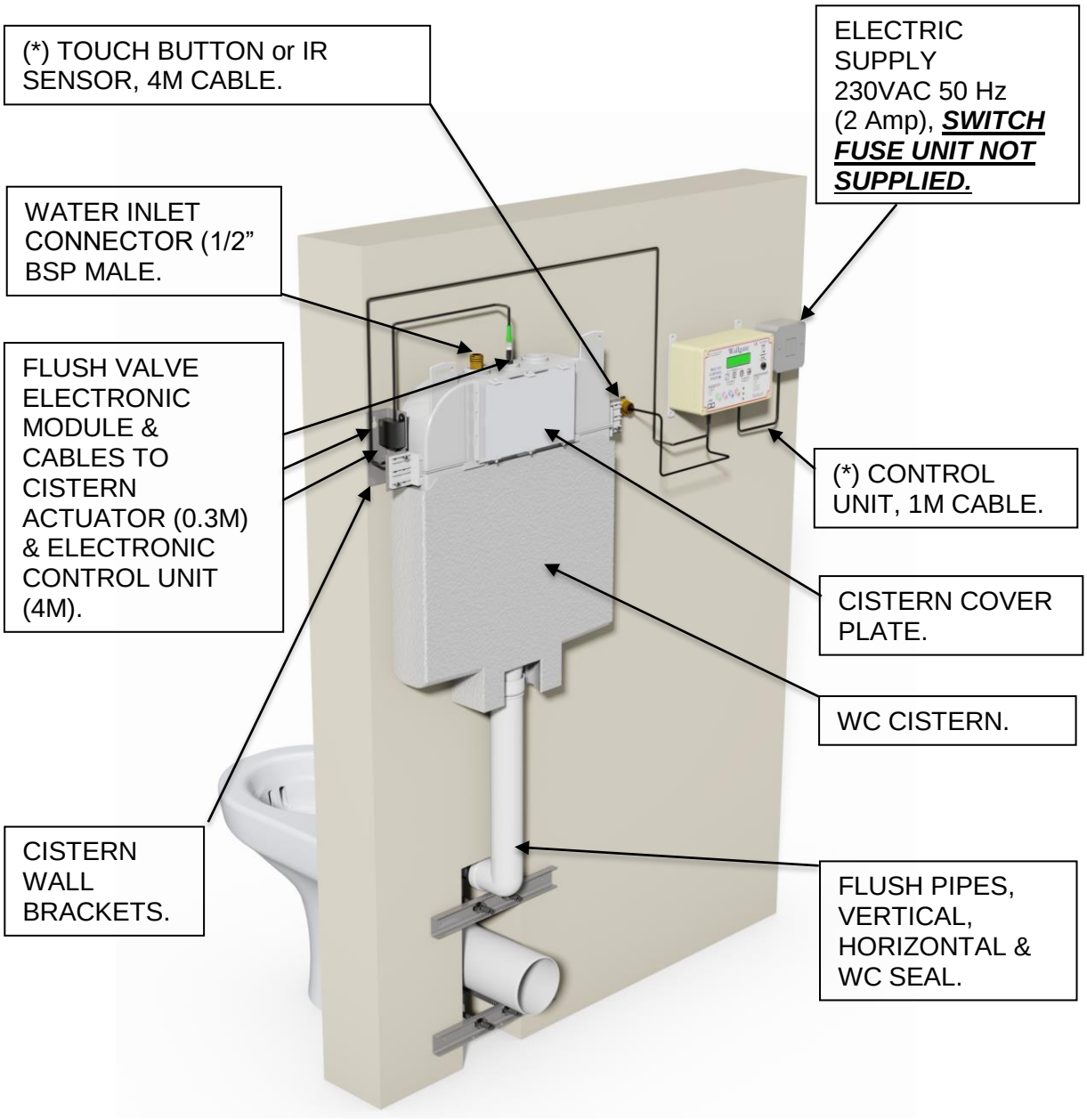
To operate the wc flush:

NOTE:

- **Turn ON the cold-water supply & check that there are no leaks.**
- **Check that the cistern has filled.**
- **Activate a flush by pressing on the touch button or if an IR sensor is fitted then place your hand in front of the sensor (within 50mm). Check the flush operates correctly and note that there is a 30 second delay before a repeat flush will operate to allow the cistern to refill. Repeat the flush three times to ensure consistency. If the product model supplied includes a reduced flush as well as a full flush, then also operate the reduced flush to ensure its operation is correct. Note that the default flush volumes are 6 litres for full flush & 3.5 litres for the reduced flush.**
- **On completion of commissioning the cistern cover plate must be fitted.**

Refer to the product manual for the control unit (Models WDC100, 200 & 400) for details on adjusting settings, such as flush time & cistern fill time.

Fig 4 (Typical installation layout)



(*) Items are optional accessories, contact Wallgate for further assistance.

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Wallgate Ltd.
Crow Lane, Wilton,
Salisbury, Wiltshire,
SP2 0HB, England

tel: +44 (0) 1722 744594
fax: +44 (0) 1722 742096
email: service@wallgate.com
web: www.wallgate.com