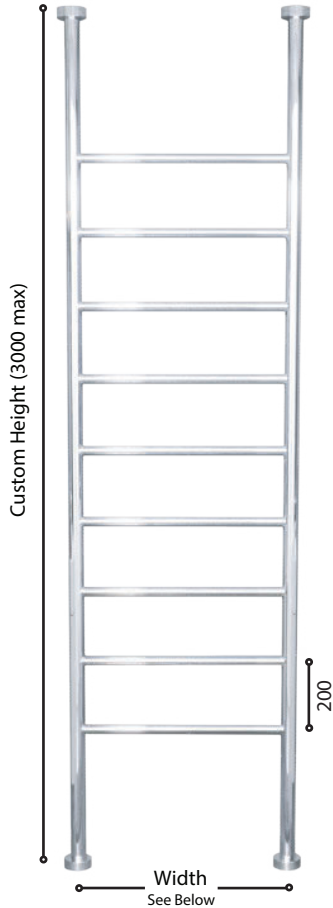


## FLOOR TO CEILING - SERIES



**FC Model**  
 500/ 600/ 700mm width  
 Max Height 3000m  
 High Polished Chrome  
 250-300 watt  
 Tube Diameter  
 - Vertical 38mm  
 - Horizontal 25mm

FEATURES	
Replaceable Element	Heating element easily replaced
Symbol of class and style	Centrepiece for designer bathrooms, signifying superior luxury, while generating clean radiant warmth
Copper Tube	Ensures ultimate thermal conductivity and radiation.
Local Product	100% Australian owned and manufactured

SPECIFICATIONS	
Recommended use	Domestic, hotel and commercial
Materials	Made entirely from Copper Tube with Brass Fittings
Element	Low wattage, replaceable water element
Power Cable	Floor / Ceiling / Wall
Safety rating	IPX5 (allows for installation in zone 1 & 2 of bathroom)
Finish	High Polish Chrome Plate / Dulux Powder Coat
Standards	AS/NZS:3350

### CLEANING RECOMMENDATIONS

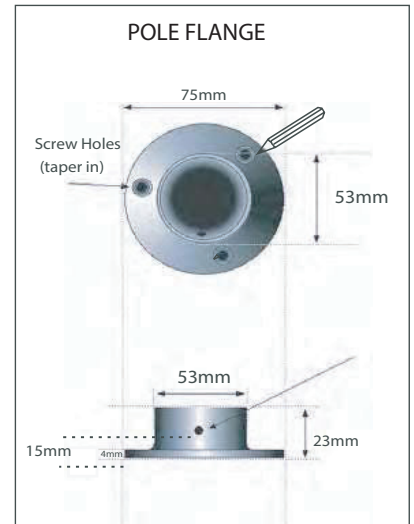
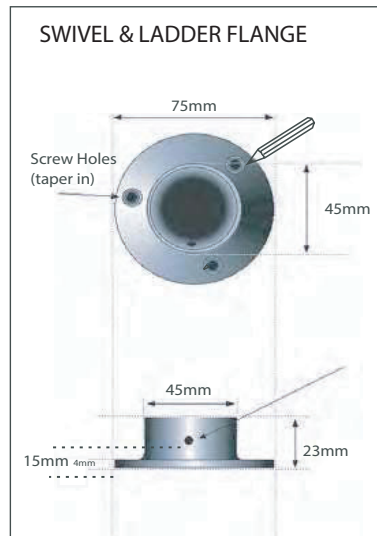
This bathroom product should not be cleaned with abrasive materials eg. steel wool/scourers. Do not use any corrosive or abrasive cleaning agents containing acids or scouring agents. Bleaches can also discolour products and therefore should not be used. Damage caused by any improper treatment is not covered by the product warranty- refer to Warranty Conditions on the last page.

Disclaimer: Products in this specification manual must by regulation be installed by licensed and registered trade people. The manufacturer/distributor reserves the right to vary specifications or delete models from their range without prior notification. Dimensions are nominal measurements only. Dimensions and set-outs listed are correct at time of publication however the manufacturer/distributor takes no responsibility for printing errors.

# INSTALLATION INSTRUCTIONS

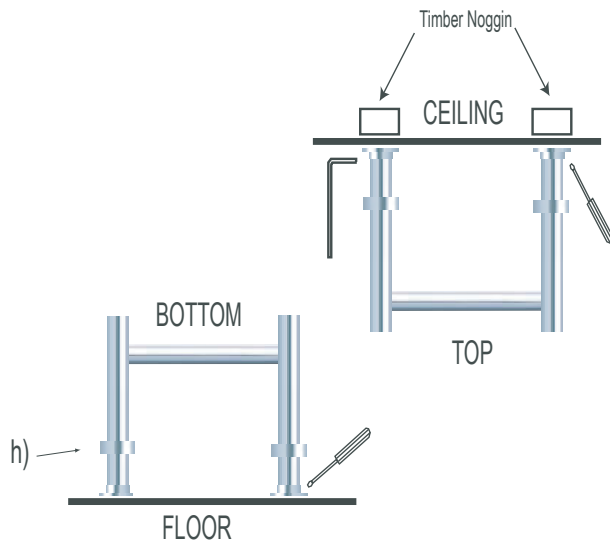
## STEP 1 - Pre-drilling

- a) Position flanges onto rail and place on floor/ceiling in desired position. Square off from wall and mark screw holes with pencil.
- b) Repeat for top flanges on ceiling.
- c) Remove rail and pre-drill screw holes with drill.



## STEP 2 - Positioning Rail

- g) Slide flange cover plates over legs at top and bottom.
- h) Relocate rail in desired position with flanges connected (loose).
- i) Using screwdriver/drill secure screws in pre-drilled holes. Both top and bottom.
- j) Screw in grub screws with alen key provided.
- k) Push Down on cover plates at either end to secure into place.
- l) Towel Rail is now ready to be connected by licensed electrician.



Please note:

All Hydrotherm Floor to Ceiling Towel Rails are supplied pre-filled with water.

### CARE DETAILS

#### Cleaning Recommendations

Any bathroom product should not be cleaned with abrasive materials eg. steel wool/scourers. Do not use any corrosive or abrasive cleaning agents containing acids or scouring agents. Bleaches can also discolour products and therefore should not be used. Damage caused by any improper treatment is not covered by the product warranty - refer to Warranty Conditions on the next page.

Dear Plumber

Could you please ensure a copy of the installation instructions is left with the end user for future reference.

# WIRING OPTIONS

## Plug-In Version (standard)

The 1200mm long cable may be cut to the required length (near to the power point) and the plug may be wired on to the end. This enables the user to plug it in and switch it on from the power point, or even connect it to a simple timer to switch on and off automatically (see overleaf).

## Hard-Wired Rear Entry Version (optional extra)

The cable may be hard-wired into the wall with an element attachment. This particular accessory is an optional extra and may be ordered with the towel rail to be factory fitted, or may be ordered later and fitted by the installer. The part number of the element attachment for hard-wiring is called a 'HWA'. (See fig.3)

## Concealed Connection - (Floor / Ceiling)

The electric element can be recessed up inside the vertical leg of the towel rail with its cable protruding from either the top, or bottom of the unit. The connection can be made by a qualified electrician in either the ceiling cavity (see fig. 2), or under the floor if access is available (see fig. 1).

## Hydrotherm Elements

The Hydrotherm thermostatic electric element is specially designed with a built in safety device that switches it off to avoid overheating.

The element is placed in either the left or right (vertical rail), at the bottom of the towel rail. It **must always be placed at the bottom end** of the towel rail for correct water flow and heat transfer.

The element is designed to reach an internal temperature of approximately 55 degrees celcius, and to switch off or cool down, so as to maintain the internal water temperature.

Depending on the size of the model, Hydrotherm Towel Rails will require approx. 20min - 60min to reach their max. heat output

For convenience and to prolong the life of the electric element, we recommend that the towel rail be connected to a timer. Hydrotherm recommends the Brand HPM Model Number: **XL 770T** digital timer for hard wire installations.

**All elements have an IP rating for IP55**

### WARNING:

Heating element must always be positioned at the bottom of the unit for correct water flow, and heat transfer.

FIG 1.

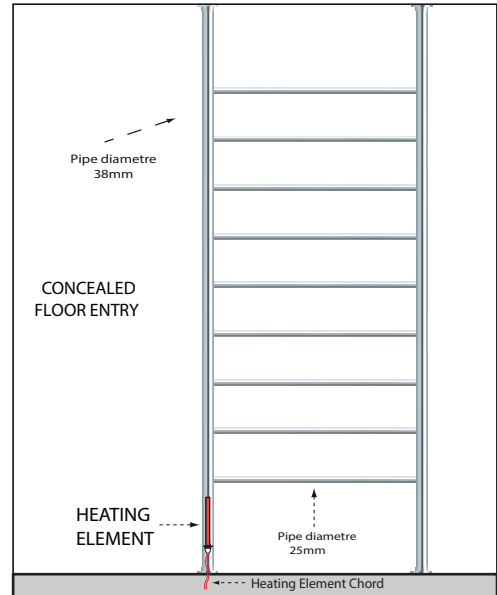


FIG 2.

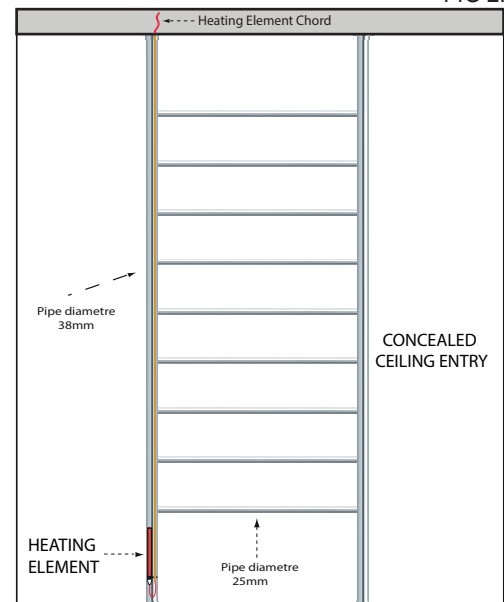
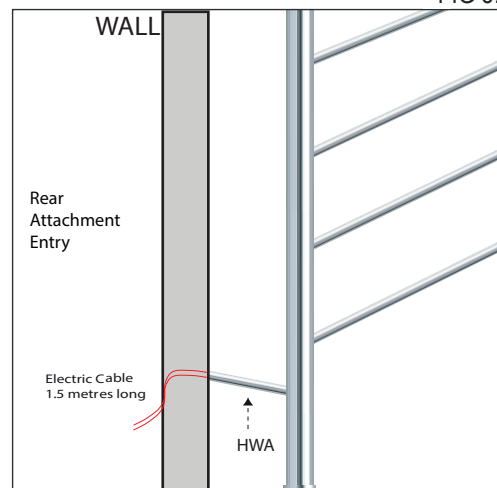


FIG 3.



# HARD WIRING

Hydrotherm Heated Towel Rails may be hard-wired and there are several options to select from.

## 1. To a Light or Dimmer Switch

The Unit may be connected to a **light switch** to enable the user to switch it on and off as required. The switch may be located near the unit, or near the light/fan switch in a bathroom .

In an application where small children may come into contact with the towel rail, parents have the option of connecting the towel rail to a **dimmer switch**.

This will enable temperature control of the unit and temperature can only be turned down.

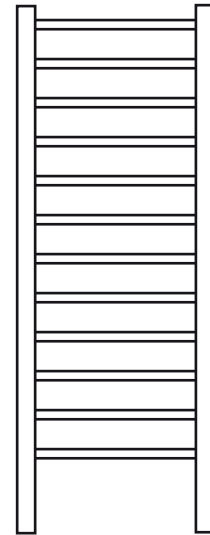
To connect a unit to a **dimmer switch**, the electrician must check the wattage of the element in the towel rail and install a dimmer switch with a higher wattage. For example, if the towel rail has a 200 watt element, the dimmer switch must be higher than a 200 watt rating to enable temperature control.

## 2. To a Timer

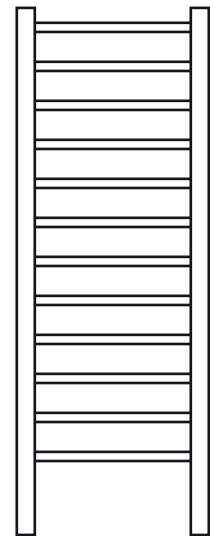
Hydrotherm highly recommend that the towel rail is connected to a timer for convenience and to prolong the life of the element. This will enable the towel rail to turn on and off automatically without having to remember to switch the unit off when not in use. Approximately 3-5 hours a day would be sufficient time to both dry and heat damp towels.

**Digital timers** are both cost effective and discrete. They may be connected to a hard-wired towel rail (refer to diagram no. 2) and programmed to suit your lifestyle. Hydrotherm recommend the HPM XL-77TO.

### 1. To Light or Dimmer Switch



### 2. To Digital Timer



## WARNING:

Heating element must always be positioned at the bottom of the unit for correct water flow, and heat transfer.

# CONCEALED IN FLOOR WIRING

There is also a custom option to have the element installed vertically inside the bottom leg of the towel rail.  
(see figure 4)

This can be made to order on the Floor to ceiling series, Platinum Tower and Platinum Ladder models.

## THIS OPTION MUST BE SPECIFIED ON ORDER.

As the Vertical tube is 38mm diameter there is sufficient room to recess the thread where the element can be installed. The thread is recessed up from the base of the towel rail. (see Figure 6). The electric element can be screwed in with a 22mm tap spanner.

Wiring through the floor must be organised prior to laying floor tiles etc. A cable flex connected to an isolating switch or timer must be bought up through a 10mm hole in the floor for connection in the bottom leg of the towel rail.

## DO NOT MAKE THE HOLE IN TILES LARGER THAN 20mm

It is recommend that the wiring be connected to an RCD and silicon applied to the leg of the rail after wiring connection has been made.

## Installing on a Concrete Slab.

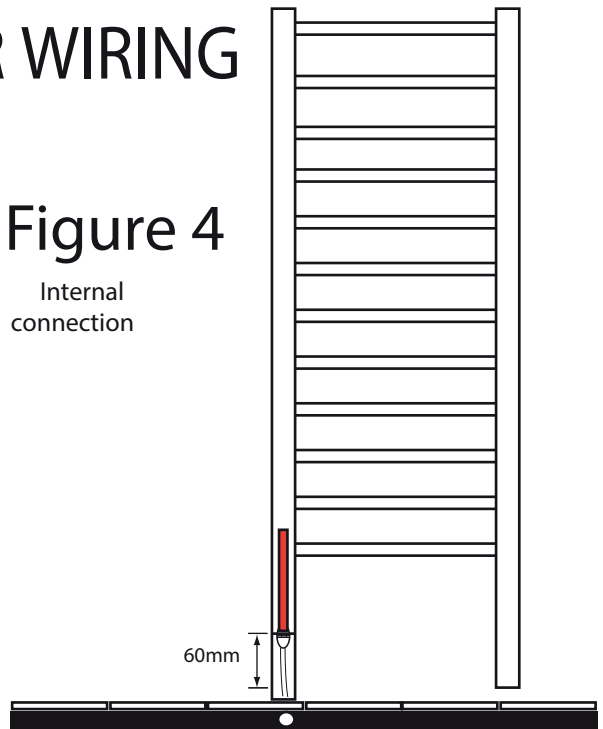
If your home is on a concrete slab, a 20mm conduit line must be run from the isolating switch to the towel rail. This can be placed underneath tiling or between mesh. (see Figure 6)

It is essential that the electrician leaves some slack in the cord inside the bottom leg of the towel rail for disconnection in the future

For further information please contact Hydrotherm.

## Figure 4

Internal connection

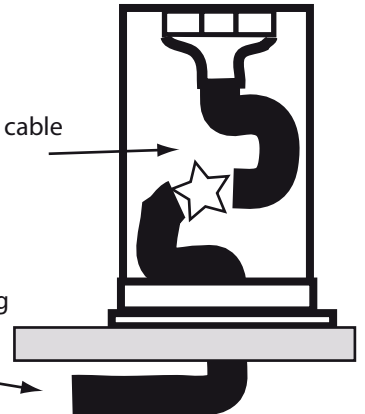


Bring up cable flex through 10mm hole in floor tiles to make internal connection in leg of towel rail.

## Figure 5

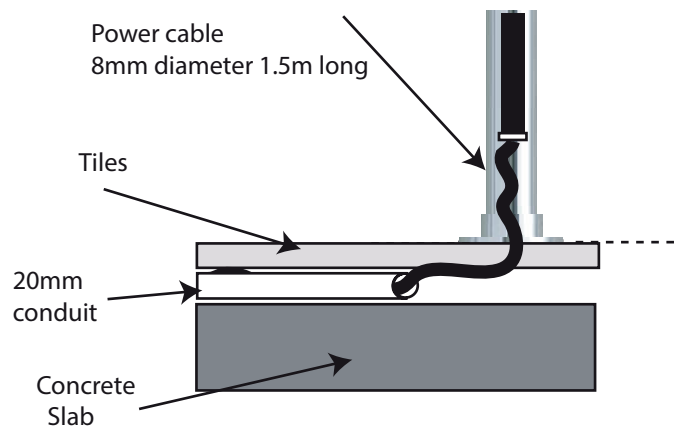
Make electric cable connection inside 38mm tube. Ensure extra slack in cable for disconnection in future.

Connecting to an isolating switch or timer. Must be laid prior to installing floor tiles.



## Figure 6

Concrete Slab with conduit



## WARNING:

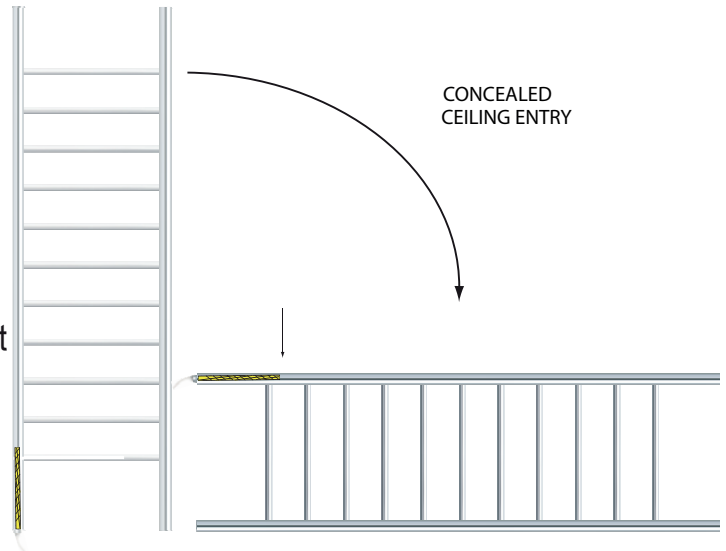
Heating element must always be positioned at the bottom of the unit for correct water flow, and heat transfer.

# CHANGING ELEMENT FLOOR TO CEILING TOWEL RAIL

## REPLACING ELEMENTS

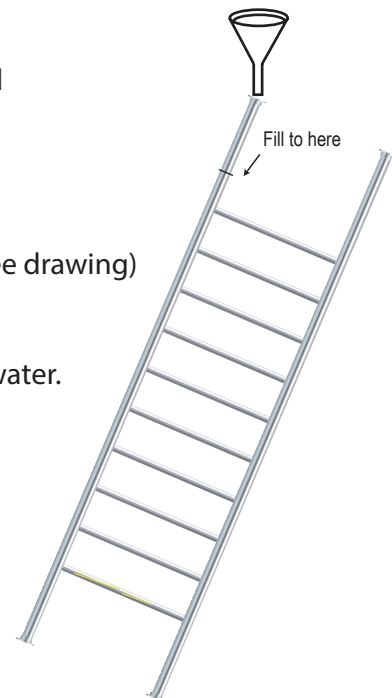
Rail must be disconnected by qualified electrician :

- a) Using an allen key remove rail from floor and ceiling mounts.
- b) Lay rail on its side so element (cord) is facing upwards (see drawing)
- c) Remove old element by loosening hex nut and unscrewing with 18mm x 19mm tube spanner.  
(Have towel and bucket accessible to collect any spilling water).
- d) Replace new element by screwing in firmly with spanner.



- e) If your towel rail is a ceiling connection, you will need to pull existing element cable through rail to remove. Then re-thread new element cable when replacing.
- f) If any water has been lost during process, simply unscrew top cap with flat head screw driver and fill to appropriate level (see drawing)

All Floor to Ceiling Towel Rails are supplied pre - filled with water.



**HYDROTHERM**  
T O W E L R A I L S

Please note: Due to the size and weight of this unit, it is advisable that two people carry out the above process