



**POWER-PIPE**<sup>®</sup>

WASTE WATER HEAT RECOVERY SYSTEMS

Specifying  
Power-Pipe<sup>®</sup>  
in  
SAP  
Calculations

A quick guide for  
SAP Assessors

# Why Specify Power–Pipe® WWHR in SAP?

## Flexible

There are currently over 60 different Power–Pipe® models listed under SAP. This means that you can easily find one that best fits your budget and efficiency requirements. Find out which model is best for your development in the 'How to Specify' section on the next page.

## Cost Effective

By adding WWHR to a SAP calculation, you will typically see a decrease in the DER of around 2–6%.

Dependent on the model, the unit will cost a few hundred pounds (please contact us for pricing for your project). WWHR is typically one of the lowest cost options to increase the buildings energy efficiency performance, compared to other SAP listed products and technologies.

## Easy to Install

Installing a Power–Pipe® into a new building (either single houses or blocks of flats) is extremely quick and easy.

It can be carried out by the M&E Contractor, typically with little or no added cost to the overall plumbing contract.

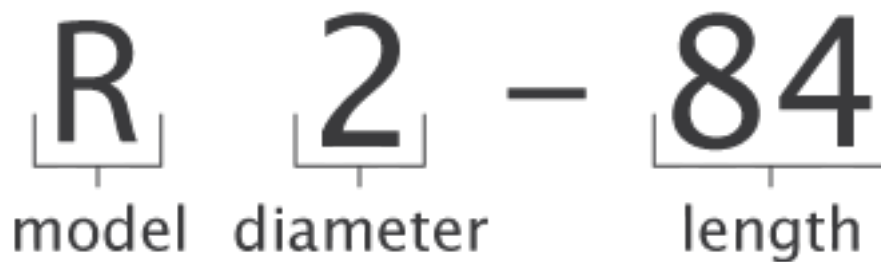
If a 110mm diameter Power–Pipe® is used, a separate soil stack is also not required, saving the contractor time and money when compared with other WWHR units (more on sizing on the next page).

## No Maintenance or Operation Requirements

Once a Power–Pipe® has been installed, it has no maintenance or operational requirements. It needs no special access requirements, it simply forms part of the plumbing system for the property and is always working.

# How to Specify the Correct Power-Pipe® WWHRS

When using your SAP software, you will notice that under WWHRS, there are many different Power-Pipe® models listed. The model code identifies the type and size of the Power-Pipe® as follows:



## Model

R = Residential

C = Commercial (please contact us separately about industrial/commercial application)

NOTE: All Power-Pipe® models must be installed internally & vertically

## Diameter

2 = 50mm diameter

4 = 110mm diameter

The Power-Pipe® diameter should correspond to the diameter of the drain pipe (soil stack) it is being fitted to.

A 50mm Power-Pipe® is only suitable for waste greywater (water from the shower/bath/sink) to pass through the unit.

A 110mm Power-Pipe® can allow all waste through it (including blackwater from the toilet).

## Length

24 = 610mm

36 = 910mm

48 = 1220mm

60 = 1520mm

72 = 1830mm

84 = 2130mm

The length determines the efficiency of the unit, so the longer the length, the higher the efficiency and the bigger the increase you will see in your SAP score.

Choose a length/efficiency that is suitable for your development.

NOTE: A Power-Pipe® replaces a vertical section of your soil stack. 2130mm is typically the maximum sized Power-Pipe® that will fit into a single storey height. We do not advise choosing a Power-Pipe® longer than 2130mm, as you may have difficulty finding enough vertical space to install it.

# POWER-PIPE®

## WASTE WATER HEAT RECOVERY SYSTEMS

### Notes

#### Water Heater Specification

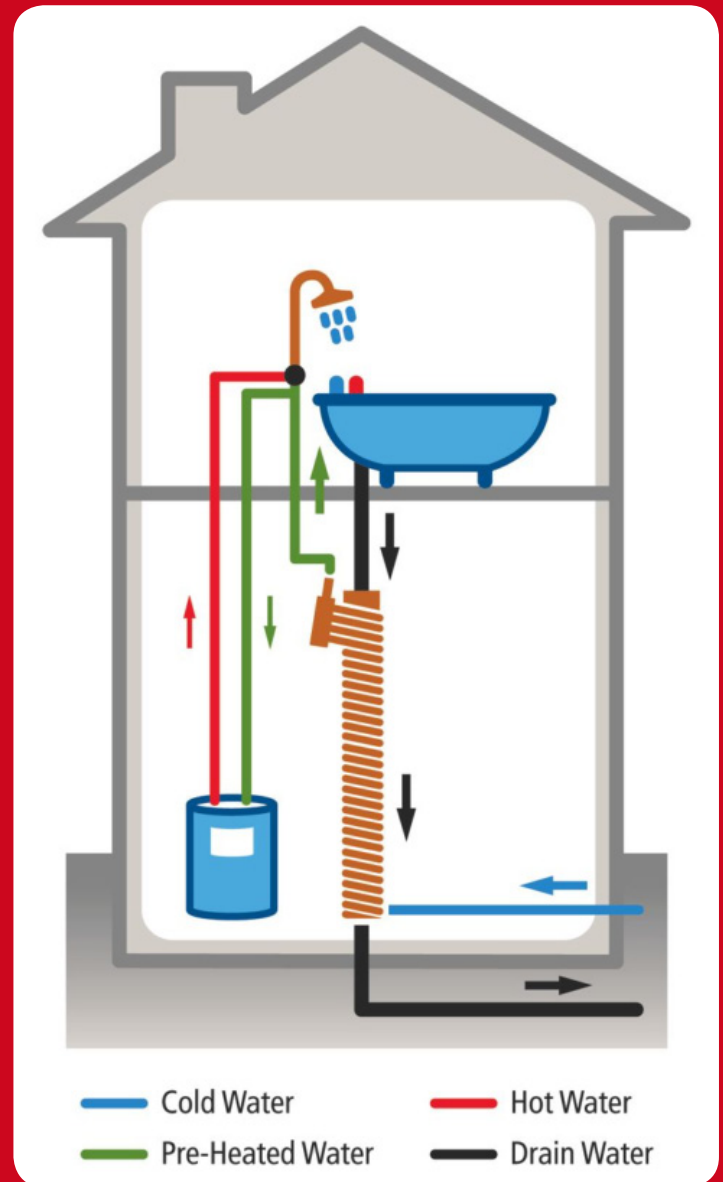
You should also be aware that installing a Power-Pipe® WWHRs also helps reduce the load on your Water Heating System. Depending on the Power-Pipe® model chosen, you may be able to relax the specification of your water heating system.

#### Electric Showers

WWHR does not provide any energy savings when used with a simple non-thermostatic electric (box on the wall) shower. Please note that you do not achieve any uplift in your SAP score if using WWHR with this type of shower.

#### Vertical Installation

A Power-Pipe® must be installed vertically. It is therefore only suitable for use with showers above ground floor level (unless there is a basement).



### Further Help, Questions & Pricing

You will find lots more useful information as well as full technical details & installation videos on our website:

[www.powerpipehr.com](http://www.powerpipehr.com)

UK Tel: +44 (0)207 887 2270

