



STANDARD ASSESSMENT PROCEDURE

Instantaneous Waste Water Heat Recovery Systems Design Checklist for Configurations A & B

Refer to the unit's installation manual for the optimum plumbing and drainage configurations and prepare drawings and a schedule of materials for the installation. The Designer's specification for product installation should ensure compliance with Approved Document Part H (2002) of the Building Regulations and the manufacturer's installation guidance.

NOTE: Instantaneous Electric Showers (IES) can be connected to WWHRS but in most cases will not reduce energy consumption, they will therefore not be counted within the SAP calculation. Hand-held showers (showers not fixed above head height) are ignored for the purposes of the SAP calculation.

1. DWELLING EVALUATION

DECISION

Tick as appropriate

Has the system designer given due consideration to DHW delivery performance (water pressure and flow rate) as a result of WWHRS induced pressure drop?

☐

Is the dwelling hot water system (DHW) a mains pressure system, such as Combination Boiler or Unvented cylinder?

☐

Does the water heater accept a preheated water inlet (Max. 30 °C)? (N/A if installed in System B configuration.)

☐

Does the shower(s) use a thermostatic mixing valve? (Ignore instantaneous electric showers.)

☐

Can the WWHRS be installed within the dwelling heated envelope?

☐

2. DRAINAGE CONNECTIONS

Refer to the installation manual for the range of drainage configurations and ensure all drawings and specifications comply with the following aspects.

Was a WWHRS installation location selected and stated on plans that minimised the length of drain pipe between shower and WWHRS (preferably less than 3 metres)?

☐

With reference to Approved Document – Part H (2002) of the Building Regulations and the installation manual, has an appropriate method for preventing the ingress of foul sewer gases as a result of the WWHRS installation been devised?

☐



3. PLUMBING CONNECTIONS

Refer to the installation manual for the range of plumbing configurations; a decision on the appropriate configuration will be based on the relative installation locations of the shower(s), water heater, soil stack and the WWHRs unit. Ensure all drawings and specifications comply with the following aspects.

Does the drawing clearly indicate which system configuration (System A or B) has been selected and where the relevant connections terminate? ☐

Do installation drawings indicate the requirement to label pipework between the WWHRs preheated water outlet and the water heater and/or shower cold water inlet(s) (depending on installation configuration) to prevent the future connection of any other service points, such as taps? ☐

Do installation drawings indicate the requirement to insulate pipework between the WWHRs preheated water outlet and the water heater and/or shower cold water inlet(s) (depending on installation configuration) in accordance with the specification for DHW primary circulation pipes defined in 'Domestic Building Services Compliance Guide, 2010 Edition'? ☐

If shut-off valves are specified for WWHRs unit inlet and/or outlet, are they 'full flow' (non-restricting) shut-off valves? (Tick if N/A) ☐

4. INSTALLATION LOCATION

The following aspects are important for Health & Safety reasons, correct product performance and for any potential maintenance and/or replacement of the WWHRs. Ensure all drawings and specifications comply with the following aspects.

Access provision is sufficient for cleaning or replacement of WWHRs unit if required? ☐

Does the drawing specify an installation location for the WWHRs that does not normally exceed 25° C? ☐



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DESIGN CHECKLIST



5. DESIGNER DECLARATION

I declare that the design for this WWHRS has been prepared in accordance with the manufacturer's recommendations and the procedures outlined in this checklist.

System Design Authority: _____

Designer's Name (PLEASE PRINT): _____

Designer's Signature

Date