

# **HORTON**

## **Chemical Dosing Pot**

**Models**  
**HN3.5, HN5.0**  
**HN10.0, HN15.0**

### **IMPORTANT NOTE**

**THESE INSTRUCTIONS MUST BE READ  
AND UNDERSTOOD BEFORE INSTALLING,  
COMMISSIONING, OPERATING OR  
SERVICING EQUIPMENT**

# Customer After Sales Services

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## **Technical Enquiries**

To supplement the detailed technical brochures, technical advice on the application and use of products in the Hamworthy Heating range is available from our technical team in Poole and our accredited agents.

## **Site Assembly**

Hamworthy offer a service of site assembly for many of our products where plant room access is restricted. Using our trained staff we offer a higher quality of build and assurance of a boiler built and tested by the manufacturer.

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Commissioning of equipment by our own engineers, accredited agents or specialist sub-contractors will ensure the equipment is operating safely and efficiently.

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Regular routine servicing of equipment by Hamworthy service engineers inspects the safety and integrity of the plant, reducing the risk of failure and improving performance and efficiency. Service contracts enable you to plan and budget more efficiently.

## **Breakdown service, repair, replacement**

Hamworthy provide a rapid response breakdown, repair or replacement service through head office at Poole and accredited agents throughout the UK.

## **Spare Parts**

We offer a comprehensive range of spare parts, providing replacement parts for both current and discontinued products. Delivery options are available to suit you. Please refer to our website for more details.

HORTON  
CHEMICAL DOSING POT

**Installation, Commissioning  
and Operating Instructions**

**Models: HN3.5, HN5.0, HN10.0, HN15.0**

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## **HORTON - Chemical Dosing Pots**

### **Introduction:**

Horton chemical dosing pots must be installed by a competent person. All installations must conform to relevant regulations. Health & safety requirements must also be taken into account when installing any equipment.

Dosing pots are required in order to feed liquid chemicals such as corrosion inhibitors or anti-freeze into closed systems.

The dosing pots consist of a mild steel vessel supplied with a drainage valve, flow valve, air release valve, return flow valve, non return valve, filling valve, a tundish and wall mounting brackets.

### **Installation:**

Ensure there is sufficient access in front and above for safe filling of the dosing pot. Care must be taken when lifting the unit and appropriate fixings must be used to mount to the wall taking into account the weight of the unit when it has been filled.

It is important that the dosing pots are fitted correctly in to the system to allow rapid chemical feed. This is best achieved by connecting across the main flow and return pipework. Ideally the flow connection should be made on to the bottom of the dosing pot, and the return to the top.

The dosing pot is designed for the conditions stated on the data plate, the system into which the dosing pot is installed should have adequate protection to ensure the dosing pot is operated within these limits at all times

### **Operation: (see page 3)**

Isolate pot - close all valves

Drain pot - open valves A and D

Fill pot - close valve D and introduce the solution via valve A (tundish).

Expel air - open vent until solution appears

Inject treatment - close valve A fully and open valves B and C

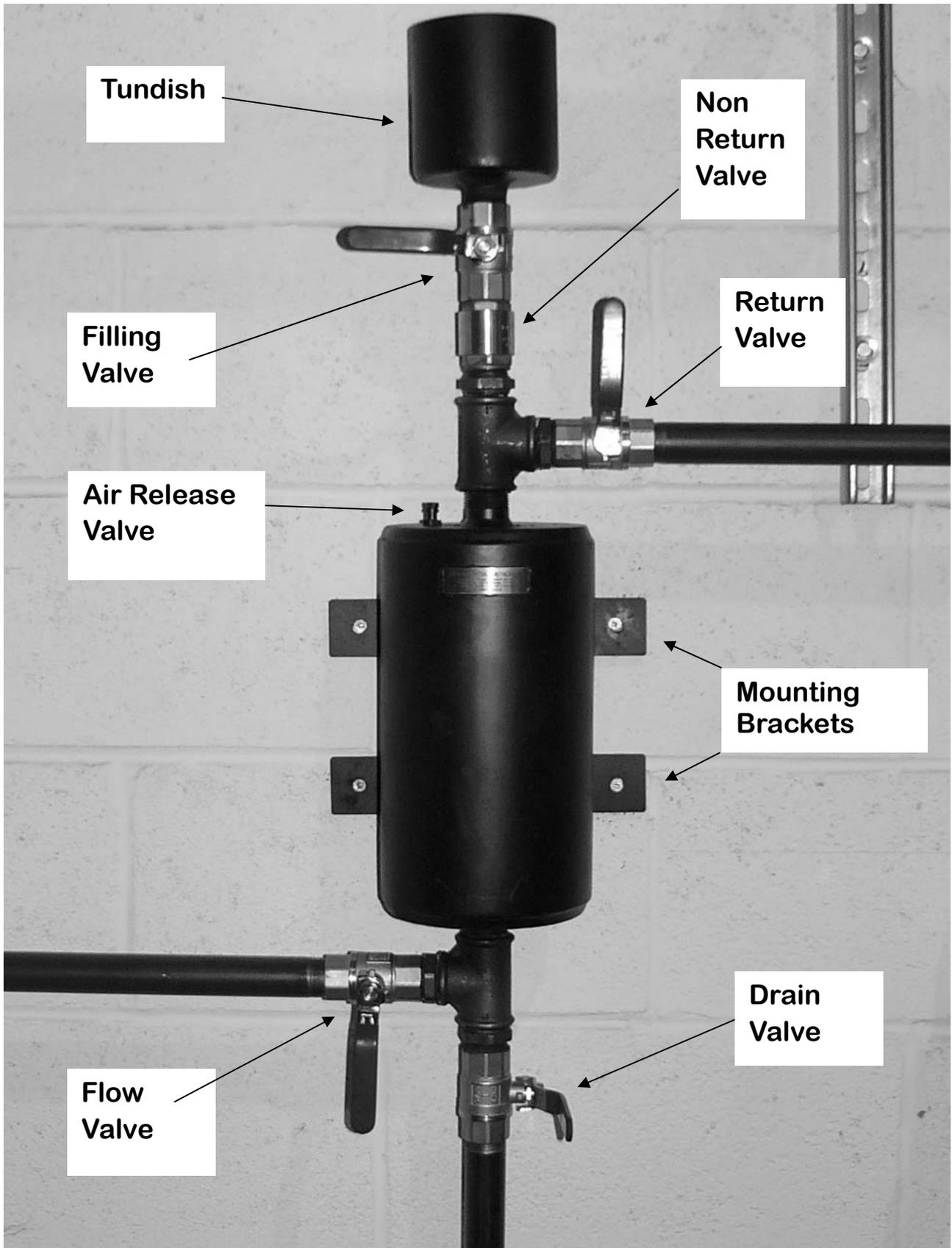
The dosing pot may reach temperatures up to 120°C. Protection or warnings should be applied to ensure that personnel do not come into contact with the pot so as to avoid burns.

A check valve is to be installed to prevent accidental scolding and chemical saturation (blow back) of personnel operating the dosing pot.

PPE appropriate for the working temperature and chemicals being used must be worn. Hazard Warnings should be fitted at the installation location and be visible to the operator in order to prevent the operator from causing harm to themselves or others.

Note: refer to the manufacturers COSHH data sheet to ensure safe handling, lifting and cleaning of chemical spills.

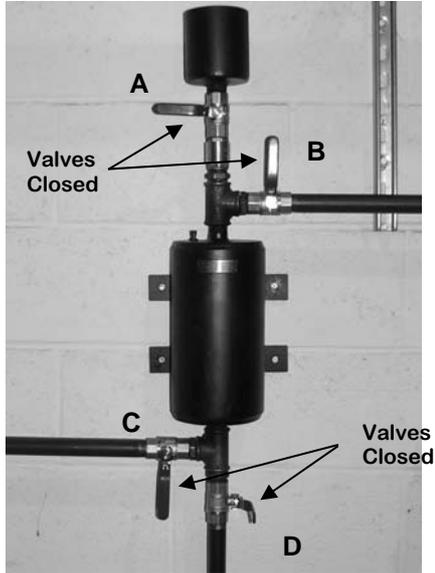
**DOSING POT COMPONENTS**



## DOSING POT OPERATION

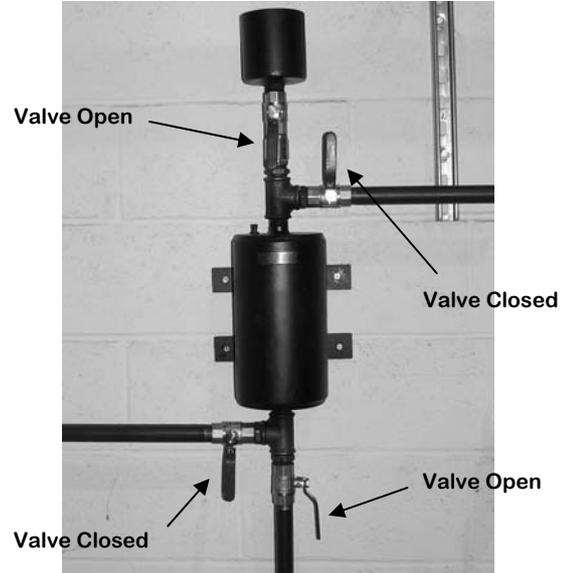
### Step 1 - Isolate Pot

- Close All Valves



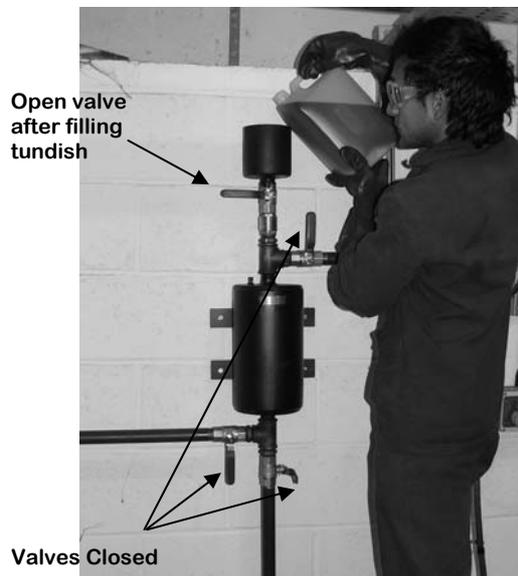
### Step 2 - Drain Pot

- Ensure drain is piped away to safe disposal
- Open filling & drain valves



### Step 3 - Fill Pot

- Close Drain Valve
- Pour Chemical into Tundish
- Open Filling valve



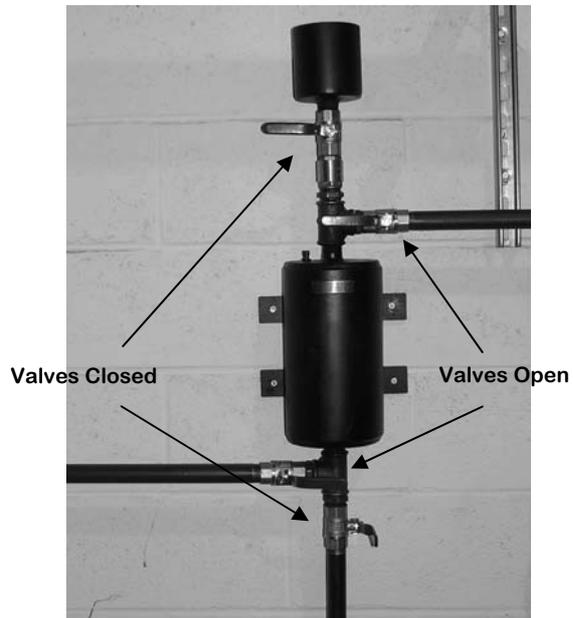
### Step 4 - Release Air

- Open Air Release Valve until liquid appears



#### Step 5 – Inject Chemicals

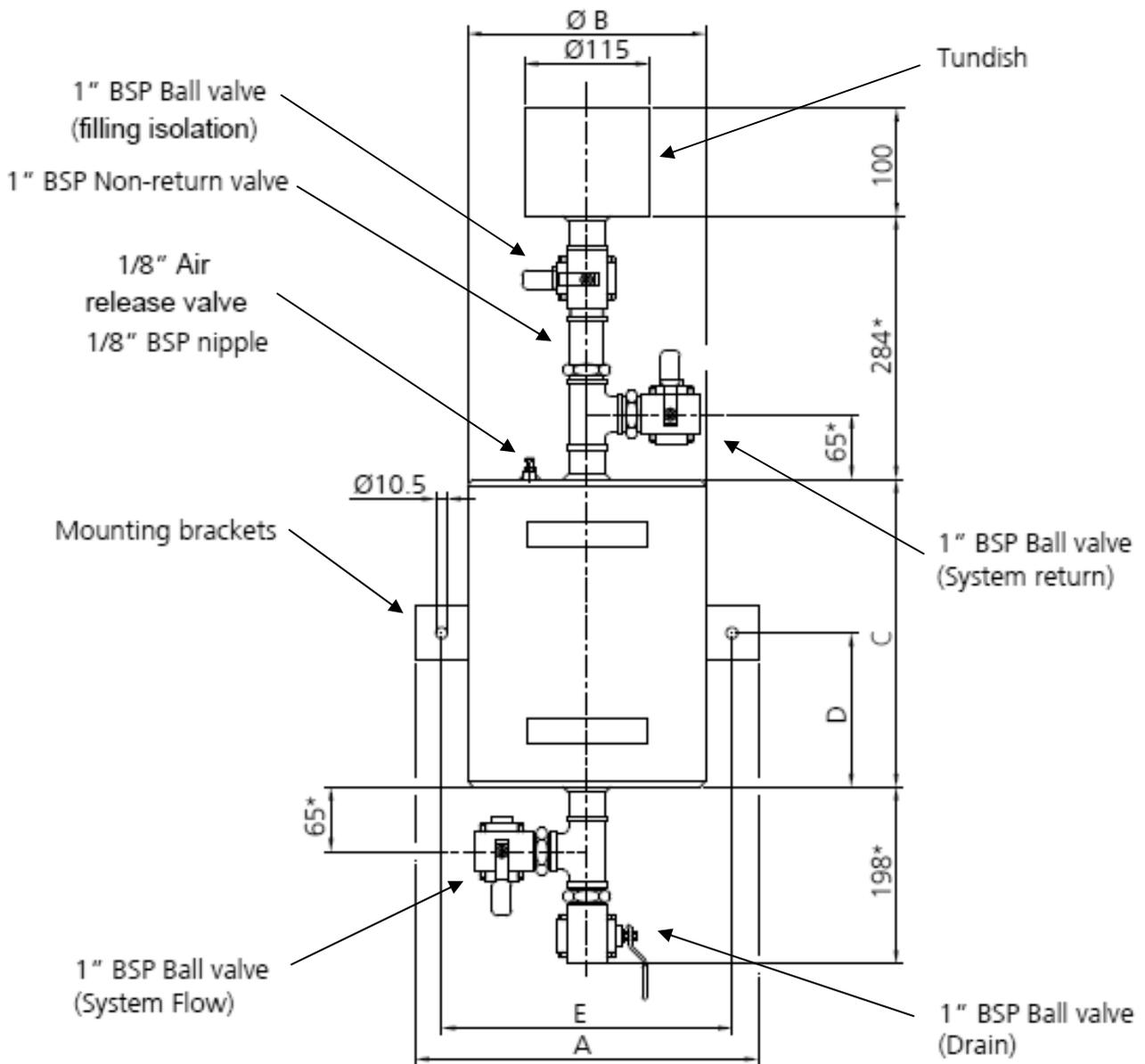
- Close Filling and Drain Valves
- Open Flow and Return valves



#### Maintenance:

After long term use the valves may require replacement. Periodic inspection should be conducted on the dosing pot in particular checking for corrosion wear. A 1mm corrosion allowance is provided for in the design. If corrosion is found to be greater than 1mm the dosing pot should be taken out of use and replaced.

**TECHNICAL DATA:**



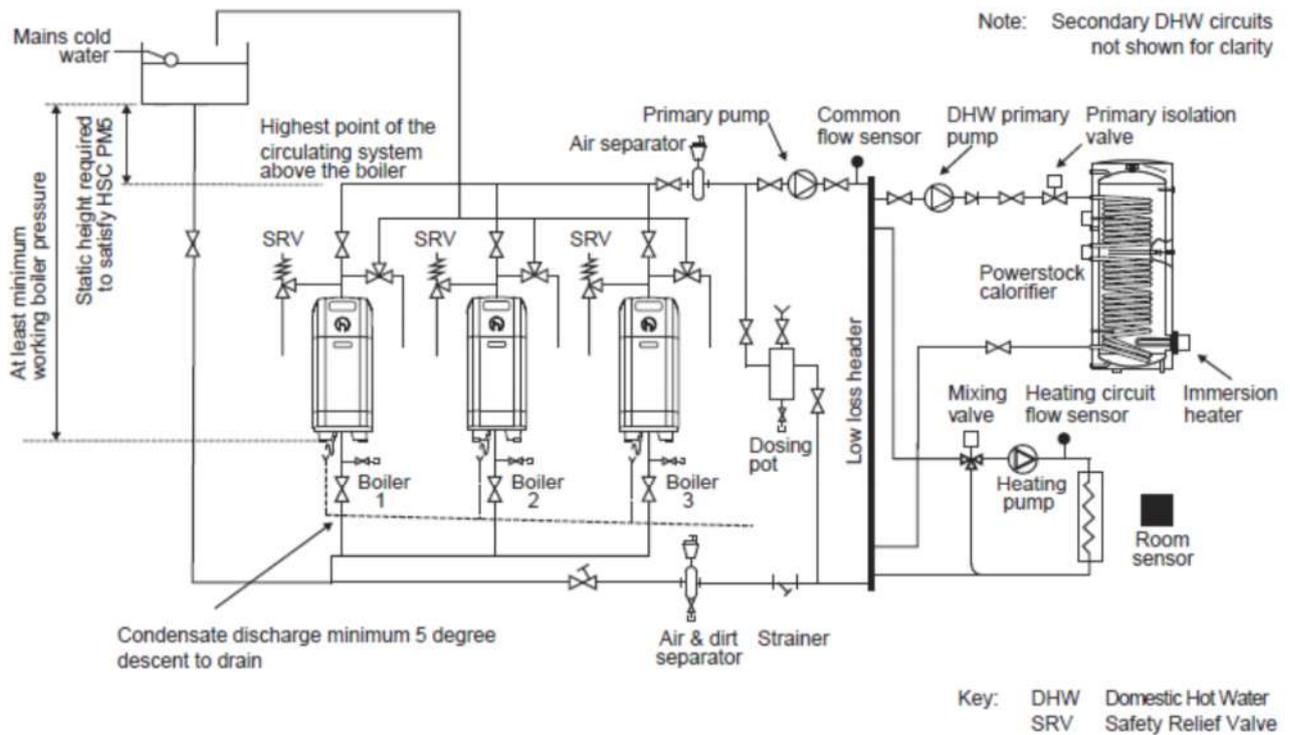
SIZE	DIM	DIM	DIM	DIM	DIM	PIPE	MAX	TEST	PRODUCT	WEIGHT
(Ltr)	A	ØB	C	D	E	SPEC (3)	W.P.	PRESS	No.	Kg
3.5	265	166	186	90	217	A	14 BAR	21 BAR	532715013	13

Horton HN3.5 - single bracket wall mounting.

All dimensions marked \* have a tolerance of +/- 10mm



Typical system schematic showing installation of a Horton chemical dosing pot.



**MODEL RANGE & PART NUMBERS:**

Horton HN3.5.....	532715013
Horton HN5.0.....	532715014
Horton HN10.0.....	532715015
Horton HN15.5.....	532715016

Spare part Numbers:

Isolation ball valve 1" BSP (fill/drain/flow/return).....	531911067
Non return valve 1" BSP .....	531911068

For service or spares please contact:-

**Hamworthy Heating Limited**  
**Wessex House**  
**New Fields Business Park**  
**Stinsford Street**  
**Poole, Dorset BH17 0NF**

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NOTES:

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# Hamworthy Heating Accredited Agents

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HEVAC Limited  
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email: **info@hevac.ie**

## **Scotland (Sales & Service)**

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**MMS.McDowallModularServices@hamworthy-heating.com**

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British engineering excellence from Hamworthy Heating;  
the commercial heating and hot water specialists.



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