

# **GMS**

## **Thermal Products Ltd**

[www.gmsthermal.co.uk](http://www.gmsthermal.co.uk)



## **BOILER HOUSE PRODUCTS BOILER FEEDTANKS**

# GMS BOILER FEED TANKS

HW Boiler hotwells are the source of high heat losses and on-going maintenance. The GMS hotwell is a fully lined tank virtually maintenance free.

Heating the boiler feed water prior to it entering the boiler reduces oxygen levels in the water which can cause corrosion and also reduces the amount of chemical dosing required.

## Materials

**Carbon Steel:** All wetted parts are manufactured from quality British Standard steel plate and the internal surface is coated with a Water Research Council approved epoxy lining system offering good protection against internal corrosion.

**Stainless Steel:** GMS can manufacture the spill tank from both AISI 304L or AISI316L grades stainless steel. The tank is internally supported using stainless steel angle and the whole structure is acid cleaned after manufacture.

(Please note that stainless steel hotwells can be subject to corrosion if high concentrates of Chlorides are present in the system ).

## Design

The HW hotwell is manufactured to suit the individual customers needs. Therefore a detailed drawing is produced to enable the customer to mark up his connection requirements (this is most helpful when the unit is a replacement and ensures pipework alteration is kept to a minimum) A test certificate is issued on completion along with a report on the soundness of the internal coating (carbon steel tanks).

## Boiler Feedtank Thermal Insulation Options

✓ **Type MA** Consists of 50mm mineral wool with dimpled aluminium cladding. This gives good thermal insulation and a quality finish.

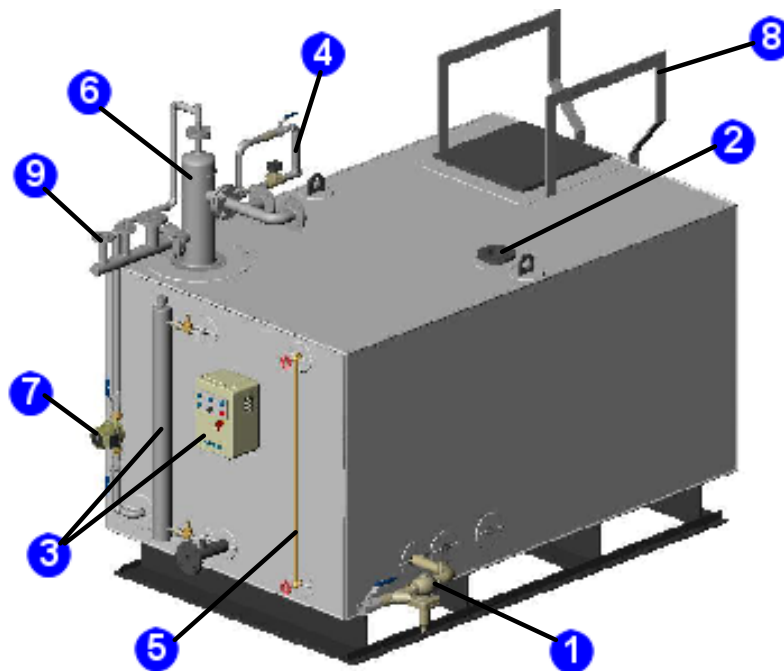
For some installations there will be a high risk of damage to the factory fitted insulation. In these instances it is preferable to insulate on site.

## Components Included as Standard

- 1 Direct Steam Injection Kit
- 2 Vent Head
- 3 Electrical Level Control System
- 4 Electronic Cold Water Make Up Feed
- 5 Tank Contents Sight Gauge

## Additional Components

- 6 De-Aerator Head Assembly (See Separate Leaflet)
- 7 Re-Circulation System
- 8 External Ladder Assembly
- 9 De-Aerator Head Inlet Manifolds



## 'RC' Recirculation System

### Materials

Galvanised Steel Pipework (Mild Steel Tanks)  
 Stainless Steel Pipework (Stainless Steel Tanks)  
 Pump Isolation Valves: Stainless Steel  
 Pump Strainer: Stainless Steel  
 Pump: Bronze

### Sizes

RC075: ¾" NB  
 RC125: 1" NB  
 RC175: 1¼" NB  
 RC400: 1½" NB

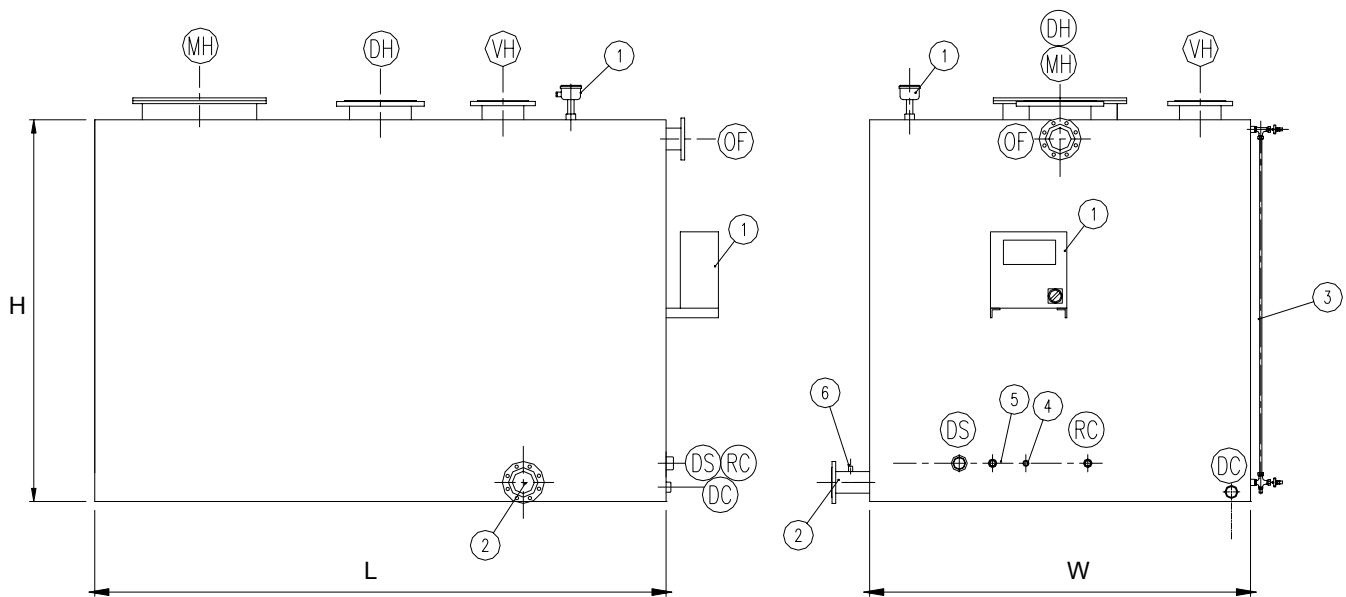
## 'DS' Direct Steam Injection

### Materials

Galvanised Steel Pipework (Mild Steel Tanks)  
 Stainless Steel Pipework (Stainless Steel Tanks)  
 Isolation Valves: Stainless Steel  
 Strainer: Stainless Steel  
 Valve: SG Iron

Please contact our sales department for sizing & further details of steam injection equipment.

# GMS BOILER FEED TANKS



## Connection and Ancillary Details

Ref	Description	Ref	Description
DH	De-Aerator Head	1	Level Control (Switch 1" BSP Connection)
RC	Re-Circulation System	2	Boiler Feed (Size & Quantity To Suit Installation)
VH	Vent Head	3	Tank Contents Sight Gauge (½" BSP) Supplied c/w Gauge
MH	Inspection Opening	4	Temperature Gauge (½" BSP) Supplied c/w Gauge
OF	Overflow	5	Steam Injection Valve Sensor Pocket (Size To Suit Injector Valve)
DS *	Steam Injection	6	Chemical Dosing Connection (½" BSP)

## Dimension & Main Connection Details

Unit	Dimensions mm			Standard Connections						Max kg (Dry)
	L	W	H	DH	RC	VH	MH	OF	DS	
HW1000	1000	1000	1000	DH150	RC075	DN80	450	80	*	280
HW2000	2000	1000	1000	DH150	RC075	DN80	450	80	*	400
HW3000	2000	1000	1500	DH150	RC075	DN80	450	80	*	500
HW4000	2000	2000	1000	DH150	RC075	DN80	450	80	*	600
HW4500	2000	1250	1500	DH150	RC075	DN80	450	100	*	805
HW6000	2000	2000	1500	DH200	RC075	DN100	450	100	*	895
HW8000	2000	2000	2000	DH200	RC075	DN100	450	100	*	1065
HW12000	3000	2000	2000	DH250	RC125	DN100	600	100	*	1395
HW16000	4000	2000	2000	DH250	RC125	DN100	600	100	*	2040
HW20000	4000	2500	2000	DH250	RC125	DN150	600	100	*	2370
HW24000	6000	2000	2000	DH300	RC175	DN150	600	150	*	2850
HW30000	6000	2500	2000	DH300	RC175	DN200	600	150	*	3230
HW36000	6000	3000	2000	DH350	RC400	DN200	600	150	*	3640

\* - The direct steam injection system size is dependant upon the type of installation where the tank is to be used. Please contact GMS Thermal Products for further information or help with sizing the system.

Please note all information shown within this leaflet is subject to change without prior notice.

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