# DORCHESTER DR-SG WATER HEATER





SCAN ME



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# A solution for every plant room.



**Hamworthy Heating** is a British commercial heating manufacturer.

Our energy efficient commercial heating, hot water, and renewable energy products are used in buildings across the UK.

Trusted expertise since 1914.



















# Introducing the Dorchester DR-SG

The Dorchester DR-SG is available in 10 power outputs over 3 storage capacities. The range features a full stainless steel tank, heat exchanger and coil offering a durable solution while maximising product life.

The DR-SG is operated via the popular Siemens LMS mini controls platform. With easy access for service and maintenance, the range also features a lightweight and slim design to ease transportation on-site. An integrated flue non-return valve makes for a simple connection to existing flue systems (providing the flue system is suitable for a condensing appliance).

Being fully part L compliant, the DR-SG water heater meets all the seasonal efficiency requirements of the latest Building Regulations and offers significantly improved efficiency and performance when replacing a non-condensing water heater.





#### **Key features**

Water Reg

Water Regulations Reg 4 Approved (KUKReg4)



ErP Class A

Part

Fully Part L compliant

5<sub>Yr</sub> Warranty

5 year warranty \*



Suitable for commercial properties



BIM objects available to download

<sup>\* 5</sup> year warranty on the tank, 2 year warranty on components. Terms and conditions apply.

#### Enhanced durability with anode protection

The combination of stainless steel tank with an anode within means that the water heater can maintain performance under challenging water conditions.



Get in touch

Contact your local Hamworthy sales team for more information:

hamworthy-heating.com/Contact-us

# Features and benefits

- Storage tank, heat exchanger and coil all manufactured from stainless steel
- Enhanced durability under challenging water conditions
- NOx under 40 mg/kWh across the range (Class 6)
- Quick and easy burner access
- Operated via the popular Siemens LMS Mini controls platform
- Integrated flue non-return valve
- Can deliver flow rates to satisfy high demand environments
- Suitable for natural gas and LPG systems (conversion kit available).

# Why use a stainless steel tank over alternative materials?

- More resistant to corrosion so maximises service life
- Able to tolerate low pH water which can be a cause of aggressive corrosion
- Significantly lighter than other commonly used materials for water heaters\* so aid transportation and handling



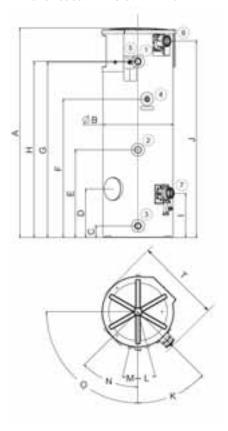
<sup>\* 200</sup>kg lighter than nearest equivalent enamelled steel product

# **Technical information**

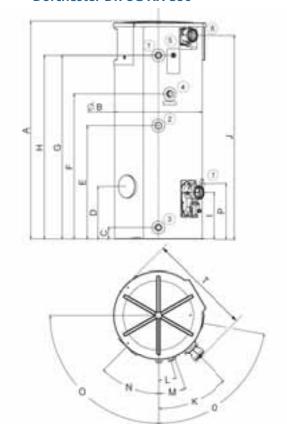
|       | Model:   |         | DR-SG<br>20-210 | DR-SG<br>25-210 | DR-SG<br>30-210 | DR-SG<br>35-356 | DR-SG<br>50-356 | DR-SG<br>60-356 | DR-SG<br>70-538 | DR-SG<br>80-538 | DR-SG<br>100-538 | DR-SG<br>120-538 |
|-------|--|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
|       | Max Heat Input (Gross)   | kW      | 20              | 25              | 30              | 35              | 50              | 56.6            | 69.9            | 80              | 100              | 120              |
|       | Max Power Output (Net)   | kW      | 21              | 26.3            | 31.5            | 37              | 53              | 60              | 73.4            | 84              | 105              | 126              |
|       | Building regulations Part L,<br>EN89 100% efficiency (NCV)     | %       | 105             | 105             | 105             | 106             | 106             | 106             | 106             | 106             | 106              | 106              |
| A6.   | Building regulations Part L,<br>EN89 100% efficiency (GCV)     | %       | 94.6            | 94.6            | 94.6            | 95.5            | 95.5            | 95.5            | 95.5            | 95.5            | 95.5             | 95.5             |
| ine i | Standby Loss   | kWh/day | 1.6             | 1.6             | 1.6             | 1.9             | 1.9             | 1.9             | 3.2             | 3.2             | 3.2              | 3.2              |
| _     | Building regulations Part L,<br>Maintenance Consumption (EN89) | kWh/day | 2.7             | 2.7             | 2.7             | 3.4             | 3.4             | 3.4             | 5.6             | 5.6             | 5.6              | 5.6              |
|       | ErP efficiency rating  |         | А               | А               | А               | А               | А               | А               | А               | n/a             | n/a              | n/a              |
|       | Water Heater Efficiency (ErP)                                  | %       | 95.9            | 91.7            | 93.5            | 90.3            | 92.5            | 91.4            | 92.7            | 91.3            | 90.8             | 90               |
|       | ErP Load Profile   |         | XXL             | XXL             | XXL             | XXL             | XXL             | XXL             | 3XL             | 3XL             | 3XL              | 3XL              |
|       | Storage Capacity   | L       | 210             | 210             | 210             | 356             | 356             | 356             | 538             | 538             | 538              | 538              |
|       | 1st 10 mins at ΔT 50°C   | l/10'   | 175             | 205             | 220             | 330             | 400             | 435             | 475             | 500             | 550              | 600              |
|       | 1st hour at ΔT 50°C  | 1/60'   | 450             | 570             | 580             | 630             | 1100            | 1210            | 1500            | 1700            | 2000             | 2300             |
| _     | Continuous Flow at ΔT 50°C                                     | l/hr    | 360             | 450             | 540             | 640             | 910             | 1090            | 1280            | 1460            | 1820             | 2190             |
| /ate  | Max DHW temperature setpoint                                   | °C      | 80              | 80              | 80              | 80              | 80              | 80              | 80              | 80              | 80               | 80               |
| 5     | Max operating pressure (open vented)                           | bar     | 7               | 7               | 7               | 7               | 7               | 7               | 7               | 7               | 7                | 7                |
|       | Max operating pressure (unvented)                              | bar     | 6.5             | 6.5             | 6.5             | 6.5             | 6.5             | 6.5             | 6.5             | 6.5             | 6.5              | 6.5              |
|       | Heat-up time (mins) 50°C rise                                  |         | 36              | 29              | 24              | 35              | 24              | 20              | 26              | 23              | 18               | 15               |
|       | Heat-up time (mins) 55°C rise                                  |         | 40              | 32              | 26              | 39              | 27              | 22              | 29              | 25              | 20               | 17               |
|       | Gas Inlet Pressure (Nominal nat gas)                           | mbar    | 20              | 20              | 20              | 20              | 20              | 20              | 20              | 20              | 20               | 20               |
|       | Gas flow rate (Nominal nat gas)                                | m³/hr   | 2.1             | 2.6             | 3.2             | 3.7             | 5.3             | 6               | 7.4             | 8.5             | 11               | 12.7             |
| Gas   | Gas Inlet Pressure (Nominal, LPG)                              | mbar    | 37              | 37              | 37              | 37              | 37              | 37              | 37              | 37              | 37               | 37               |
|       | Gas flow rate (LPG)  | m³/hr   | 0.8             | 1               | 1.2             | 1.4             | 2               | 2.4             | 2.7             | 3.1             | 4                | 4.7              |
|       | Gas connection   |         | R ¾"            | R 1"            | R 1"            | R 1"             | R 1"             |
|       | Max flue gas temperature                                       | °C      | 100             | 100             | 100             | 100             | 100             | 100             | 100             | 100             | 100              | 100              |
|       | Nominal flue gas operating temp                                | °C      | 39              | 55              | 60              | 40.3            | 50.9            | 51.6            | 56.8            | 58.8            | 59.8             | 59.3             |
| vo.   | Flue Gas Volume @15°C  | kg/h    | 33.1            | 41.4            | 49.7            | 53.3            | 79.9            | 95              | 104.4           | 118.8           | 158.4            | 187.2            |
| i Le  | NOx emissions  | mg/kWh  | 29              | 29              | 29              | 32              | 32              | 32              | 39.5            | 39.5            | 39.5             | 39.5             |
| _     | Pressure at flue outlet  | Pa      | 110             | 170             | 200             | 130             | 200             | 200             | 65              | 95              | 155              | 200              |
|       | Air inlet/Flue outlet diameter                                 | mm      | 80              | 80              | 80              | 100             | 100             | 100             | 130             | 130             | 130              | 130              |
|       | Max system length – C type flues                               | m       | 20              | 20              | 20              | 20              | 20              | 20              | 20              | 20              | 20               | 20               |
|       | Electrical Supply  | V       |                 |                 |                 | 230 V           | AC (+10%,       | -15%) 50H       | Z               |                 |                  |                  |
| ea    | Fuse rating  | amp     | 6.3             | 6.3             | 6.3             | 6.3             | 6.3             | 6.3             | 6.3             | 6.3             | 6.3              | 6.3              |
| ğ     | Power consumption (maximum)                                    | W       | 12.7            | 12.7            | 12.7            | 18              | 18              | 18              | 22.5            | 22.5            | 22.5             | 22.5             |
| Ë     | Power consumption (standby)                                    | W       | 3.6             | 3.6             | 3.6             | 3.7             | 3.7             | 3.7             | 4.5             | 4.5             | 4.5              | 4.5              |
|       | Sounds Power Level (Noise emissions)                           | dBA     | 64              | 64              | 64              | 75              | 75              | 75              | 67              | 69              | 74               | 78               |
|       | Number of Anodes   |         | 1               | 1               | 1               | 2               | 2               | 2               | 3               | 3               | 3                | 3                |
| u     | Dry weight   | kg      | 96              | 96              | 96              | 142             | 142             | 142             | 240             | 240             | 240              | 240              |
| Mis   | Filled Weight  | kg      | 306             | 306             | 306             | 498             | 498             | 498             | 778             | 778             | 778              | 778              |
|       | Height   | mm      | 1802            | 1802            | 1802            | 1874            | 1874            | 1874            | 2028            | 2028            | 2028             | 2028             |
|       | Diameter (inc insulation)                                      | mm      | 600             | 600             | 600             | 750             | 750             | 750             | 890             | 890             | 890              | 890              |

# **Technical dimensions**

#### **Dorchester DR-SG XX-210**

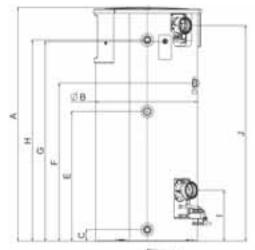


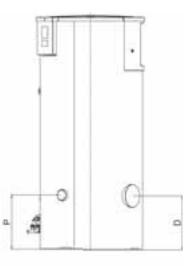
#### **Dorchester DR-SG XX-356**

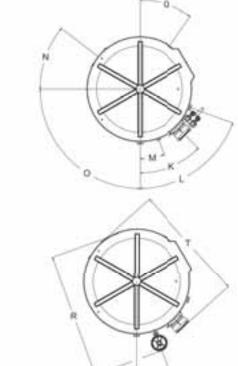


|                    |                            | MODELS |        |                            |        |        |                            |    |     |     |
|--------------------|----------------------------|--------|--------|----------------------------|--------|--------|----------------------------|----|-----|-----|
|                    | Dorchester<br>DR-SG XX-210 |        |        | Dorchester<br>DR-SG XX-356 |        |        | Dorchester<br>DR-SG XX-538 |    |     |     |
|                    | 20                         | 25     | 30     | 35                         | 50     | 60     | 70                         | 80 | 100 | 120 |
| 1 Hot water outlet | Rp 1"½                     |        | Rp 1"½ |                            | Rp 1"½ |        |                            |    |     |     |
| 2 Loop return      | p return Rp 1"½            |        | Rp 1"½ |                            | Rp 1"½ |        |                            |    |     |     |
| 3 Cold water inlet |                            | Rp 1"½ |        | Rp 1"½                     |        | Rp 1"½ |                            |    |     |     |
| 4 T&P valve        |                            | Rp 1"  |        | Rp 1"¼                     |        | Rp 1"½ |                            |    |     |     |
| 5 Gas inlet        | R ¾"                       |        | R ¾"   |                            | R 1"   |        |                            |    |     |     |
| 6 Air inlet Ø 80   |                            | Ø 100  |        | Ø 130                      |        |        |                            |    |     |     |
| 7 Flue outlet      | Ø 80                       |        |        | Ø 100                      |        |        | Ø 130                      |    |     |     |

#### **Dorchester DR-SG XX-538**







| ref | F  | DR-SG  | DR-SG  | DR-SG  |
|-----|--|--------|--------|--------|
|     |  | XX-210 | XX-356 | XX-538 |
| Α   | Overall height   | 1802   | 1874   | 2028   |
| В   | Diameter   | Ø 600  | Ø 750  | Ø 890  |
| C   | Height to cold water inlet                               | 100    | 100    | 100    |
| D   | Height to inspection hatch                               | 419    | 454    | 467    |
| Е   | Height to secondary return                               | 759    | 980    | 1129   |
| F   | Height to T&P valve connection                           | 1193   | 1248   | 1373   |
| G   | Height to gas connection                                 | 1508   | 1580   | 1735   |
| Н   | Height to hot water outlet                               | 1514   | 1579   | 1748   |
| 1   | Height to flue outlet                                    | 380    | 402    | 442    |
| J   | Height to air inlet                                      | 1691   | 1752   | 1871   |
| K   | Angle position of flue outlet                            | 45°    | 45°    | 45°    |
| L   | Angle position of T&P valve fitting                      | 13°    | 15°    | 70°    |
| M   | Angle position of gas connection                         | 12.9°  | 20°    | 20°    |
| Ν   | Angle position of inspection hatch                       | 45°    | 45°    | 38°    |
| 0   | Angle position of HMI                                    | 90°    | 90°    | 90°    |
| Р   | Height of lower anode fitting                            | NA     | 478    | 470    |
| Q   | Angle position of lower anode fitting                    | NA     | 80°    | 35°    |
| R   | Overall width with LPG conversion kit                    | NA     | NA     | 639    |
| S   | Angle position of gas connection with LPG conversion kit | NA     | NA     | 20°    |
| Т   | Max installed width                                      | 699    | 884    | 1020   |
| U   | Height to condensate trap outlet                         | 233    | 230    | 151    |

#### **Clearances**

| ALL MODELS                  |    | DR-SG   |
|-----------------------------|----|---------|
| Clearance – front (service) | mm | Min 500 |
| Clearance – sides           | mm | 500     |
| Clearance – rear            | mm | 500     |
| Clearance – top             | mm | 175     |

# Product specification

#### Construction

The storage tank, heat exchanger and combustion chamber are all manufactured from high quality grades of Stainless Steel.

Particular attention is paid to the welding process with as much welding as possible being done on the inside 'water side' of the tank. Where 'water side' welding has not been possible, a full penetration welding process is used. The opposite sides of the weld are then filled using an inerting process to ensure a high quality complete weld is achieved.

The completed storage tank assembly is then 100% pickled in order to remove potential contaminants and provide additional protection for welded areas.

The storage tank comes with a removable foam insulation jacket and insulation upper disk to ensure that standing losses are minimised.

#### **Burner**

The modulating pre-mix burner is mounted on top of the heater in a downward-firing arrangement. The controlled supply of gas and air achieves the optimum gas/air mixture for efficient performance and clean combustion. The burner can modulate down to 20% on full power (model dependent).

#### **Heat Exchanger**

The hot combustion gases are directed down through the combustion chamber which extends to near the base of the tank, then rises up the heat exchanger to a point where it forms a coiled spiral and descends again. The flue gas discharge outlet is towards the base of the water heater. This construction maximises heat transfer as gases cooled by the colder water towards the bottom of the tank are able to condense. Latent heat is recovered as a result of this process which increases the operating efficiency of the water heater.

This type of heat exchanger also reduces the problems traditionally associated with scale. Any build-up will fall to the base of the unit and avoid any issues with performance and hot spots.

#### **Anode protection**

All DR-SG models are fitted with bespoke titanium electrical anodes as standard.

These anodes do not required any routine maintenance or replacement, and have an estimated service life of more than 10 years.

Anodes protect against corrosion which can develop on all types of metal, and corrosion can occur in both hard and soft water conditions.

It is essential for the electrical anode protection system that the power supply is uninterruptible to ensure proper protection of the unit is maintained. Any external time controls must use the remote enable connections and not interrupt the mains supply to the water heater.



Construction



Down firing burner

#### **LPG Compatible**

All DR-SG water heater models are suitable for LPG fuel. All models can be converted from natural gas to LPG by a qualified installer. It is strongly recommended that on LPG installations gas detection equipment is fitted and that this equipment is positioned near the heater and at low level. It is also imperative that the plant room ventilated at high and low level.

Any DR-SG models operating on LPG must not be installed in basement plant rooms.

#### Flue Connection

The air inlet connection is at the top of the water heater, and the flue gas outlet connection is sited at the bottom. The Dorchester DR-SG water heaters are suitable to operate on traditional open flue systems (B23) and also room sealed flue configurations with horizontal and vertical terminations (C13, C33). All Hamworthy flue components have been specified and tested specifically for use with the DR-SG to ensure safe and optimum performance from the installation.

It is possible to install multiple Dorchester DR-SG water heaters onto a common flue header. The flue outlet on a DR-SG incorporates a non-return valve so no additional back flow prevention devices for flue gases are required.

Bespoke flue starter kits are available for open flue and room sealed flue systems. The components within these starter kits have been designed to provide an easy, compact installation of the flue system closest to the water heater. The open flue kits contain an

air inlet basket with air filter to prevent dust and debris from entering the air inlet, and the concentric kits contain an adaptor to combine the air inlet pipework with the flue outlet pipework into a concentric flue system.

#### Condensate **Management**

The DR-SG is a condensing water heater, where the cooler flue gases condense as they pass through the coil within the water heater. Latent heat is recovered as a result of this process which increases the operating efficiency of the water heater.

The condensate of the flue gases is discharged through the flue outlet into an external trap on the XX-210 and XX-356 models, and through a dedicated condensate evacuation tube into an external trap on the XX-538 models. The XX-538 models have a double condensate trap.

#### Open vented or unvented systems

The Dorchester DR-SG range is suitable for both open vented and unvented hot water systems. An optional unvented accessory kit is available from Hamworthy to enable the DR-SG to be installed on an unvented hot water system. A temperature and pressure relief valve is included with the water heater as standard.

#### Safety

The DR-SG water heaters conform to the recommendations offered within industry best practices such as HSG 274 Part 2 and ACOP L8 as follows:

#### Tee for expansion vessel Expansion relief valve Pressure reducina valve including line strainer Cold feed Connection to ◀ cylinder Nonreturn Drain valve valve Tee for balanced cold feed if required Unvented supply kit

- Dedicated access for routine inspection and cleaning
- Dedicated pasteurisation cycle within the control software
- Unique Triplex sensor for accurate temperature control

#### **Water Quality Statement**

Due to the variable composition of distributed water supplies it is necessary to identify the properties of the cold water feed to the water heater. As is common seen within water heating devices, scale formation will develop during normal operation, and it is therefore an essential requirement that appropriate action is undertaken to ensure reliable and continuous operation. For regions with very calcareous water (over 350 ppm CaCO3), it is best to use a softener to prevent scaling problems in the heating element. Excessive scaling reduces device performance and can lead to corrosion of the heating element. Routine monitoring, inspection and cleaning is therefore important. The water heater warranty requires that the conductivity of the water in the heater must be no less than 100 µS/cm. This is necessary to ensure effective operation of the electrical anodic protection system. As hardness and conductivity are related, and water softening that is applied must check that the water maintains a conductivity level above 100 µS/cm.



# Unvented systems and accessories

#### **Unvented kit**

Each unvented supply kit is sized 1½" and comprises the following items:

- 3.5 bar pressure reducing valve
- Non return valve
- 6 bar expansion relief valve
- Tundish
- Drain valve (including tee and reducing fitting)

The unvented supply kit is essential for any unvented application.

| Expansion factor for different water temperatures |    |        |        |        |        |        |  |  |
|---|----|--------|--------|--------|--------|--------|--|--|
| Temperature                                       | °C | 50     | 55     | 60     | 65     | 70     |  |  |
| Expansion Factor                                  | Σ  | 0.0118 | 0.0142 | 0.0168 | 0.0196 | 0.0225 |  |  |

A Temperature and Pressure relief valve is supplied with the water heater. Each unvented supply kit is designed to be used with a single water heater.

Multiple water heater installations should order one unvented kit per water heater.

The expansion vessel is not supplied as part of the unvented kit and must be ordered separately from the Burstock range of expansion vessels..

#### **Burstock expansion vessel**

Expansion vessels can be purchased from the existing Burstock range, which offers a wide range of vessel sizes for many types of hot water system.

- All models are WRAS approved
- Maximum working pressure 10 bar
- Factory pre-charged with nitrogen to 3.5 bar for DHW system use
- Available from 25l to 1000l

Flow-through type expansion vessels are also available up to 200l and can provide increased protection against the formation of bacterial growth.



# **Top-to-bottom recirculation pump**

This gives enhanced temperature control and can be used in the control of legionellosis – for compliance with the Heath and Safety Commission (HSC) requirements for safe production of hot water.

#### **LPG** conversion kit

An LPG conversion kit is supplied as standardfor 20-60kW models (XX-210 and XX-356).

For 70-120kW models (XX-538), the LPG conversion kit must be ordered separately and is not included as standard with the water heater.

#### **Controls**

The Dorchester DR-SG uses a Siemens controls platform which has been specially adapted for use on DHW systems.

Controlled by the H3100 Navistem controller, a HMI familiar across the Hamworthy heating product range.

Easy to use digital control panel with backlit LCD display and utilising a scroll wheel to navigate between the different settings screens. LEDs are also incorporated into the user interface to enable quick and easy identification of faults, should they occur.



#### Primary operating features include:

- DHW production in comfort (primary temperature setpoint) and reduced (secondary temperature setpoint) modes
- Full 7 day / 24 hour time and date settings to control comfort/reduced mode activation
- Standby mode which will operate a frost protection programme if required
- Anti-legionella programme which is fully customisable to system requirements
- Holiday mode programming for periods of shutdown
- Programmable pump control function

#### **Setpoints:**

- The DHW setpoints can be adjusted between 45°C and 80°C
- 3 'ON/OFF' cycles can be programmed to run within a single 24 hour period
- The anti-legionella programme can have it's cycle temperature, cycle duration and cycle frequency adjusted
- Adjustable frost protection setpoint between -20°C and 20°C

In addition to the standard controls built into the water heater a selected range of optional controls accessories will also be available. These include:

- AVS75 extension module to enable 0-10V communication with additional system pumps (secondary return, loading pumps for additional cylinder)
- Cable (sensor QAZ36 for thermowell) water temperature sensor to monitor stored water temps of additional cylinders connected to the DR-SG

#### Flue data

|         | Open                              | Flue                       | Concentric / Room Sealed Flue (C13/C33) |                               |                                |                                |  |  |  |
|---------|-----------------------------------|----------------------------|---|-------------------------------|--------------------------------|--------------------------------|--|--|--|
| Model   | Air Inlet/Flue<br>Outlet Diameter | Pressure at<br>Outlet (Pa) | Flue System<br>Diameter                 | Max Flue System<br>Length (m) | Equivalent Length<br>90° Elbow | Equivalent length<br>45° Elbow |  |  |  |
| 20-210  | 80mm                              | 110                        | 80/125                                  | 20                            | 1                              | 0.5                            |  |  |  |
| 25-210  | 80mm                              | 170                        | 80/125                                  | 20                            | 1                              | 0.5                            |  |  |  |
| 30-210  | 80mm                              | 200                        | 80/125                                  | 20                            | 1                              | 0.5                            |  |  |  |
| 35-356  | 100mm                             | 130                        | 100/150                                 | 20                            | 1                              | 0.5                            |  |  |  |
| 50-356  | 100mm                             | 200                        | 100/150                                 | 20                            | 1                              | 0.5                            |  |  |  |
| 60-356  | 100mm                             | 200                        | 100/150                                 | 20                            | 1                              | 0.5                            |  |  |  |
| 70-538  | 130mm                             | 65                         | 130/200                                 | 20                            | 1                              | 0.5                            |  |  |  |
| 80-538  | 130mm                             | 95                         | 130/200                                 | 20                            | 1                              | 0.5                            |  |  |  |
| 100-538 | 130mm                             | 155                        | 130/200                                 | 20                            | 1                              | 0.5                            |  |  |  |
| 120-538 | 130mm                             | 200                        | 130/200                                 | 20                            | 1                              | 0.5                            |  |  |  |

## **Flues**

DR-SG is approved for open flue or room sealed flue systems.

The water heaters are offered with a range components suitable for B23, C13 and C33 flue systems.

Flue starter kits are available for open and concentric systems.

#### **Typical flue installation**

Note: Flue terminals are not included within flue starter kits and must be ordered separately.

#### **B23 flue system**







C33 flue system



#### **Kit components**

# B type kits for open flue systems (Optional installation) B23 Air inlet basket Flue outlet straight extension Flue outlet support elbow Adjustable support foot Water heater bracket kit 1m straight extension 0.5m straight extension

| C type kits for room sealed | flue systems |
|-----------------------------|--------------|
| (Mandatory installation)    |              |

Air inlet straight extension

Flue outlet straight extension

Flue outlet support elbow

Adjustable support foot

Water heater bracket kit

Concentric T-adaptor

1m straight extension

0.5m straight extension

With any alternative flue system used, the installer must ensure that the flue system is sufficiently supported, and the air inlet and flue outlet connections are not under any weight stress.

# Service and warranty

#### **Commissioning**

We strongly recommend that all water heaters are commissioned by our service department. As well as ensuring your product is set up correctly for maximum efficiencies you will receive extra benefits on warranty (see below). On completion, you will get a report with details of the initial operating settings.

#### **Service**

Installed water heaters will experience a wide variation in operating conditions that can occur due to differing patterns of usage and the variable chemical nature of distributed water supplies. It is therefore strongly recommended that water heaters be drained and inspected within 3 months of the initial commissioning. Once the levels of calcium deposition are established a suitable maintenance schedule can be implemented, however as a minimum all water heaters should be serviced annually.

To maintain your water heaters, we have a range of servicing options that can be tailored to your requirements. For more information on commissioning and service please contact Hamworthy Heating Service Department.

#### **Warranty**

The Dorchester DR-SG comes with a 5-year warranty on the tank and 2 year warranty on the components.

We offer tailored packages to suit the individual customer requirements, many of which include extended warranty benefits. Full details of warranty terms and conditions are available on request.



 Speak to our service team today to find out more about commissioning and service offering or ask us to add it to your project quote.

Telephone:

01202 662555

Email:

service@hamworthy-heating.com

Website:

hamworthy-heating.com/commissioning

#### **Spares**

Essential to any maintenance and service regime is the availability of quality spare parts.

By coming to us you can be assured of genuine spare parts and may also benefit from technological improvements. We have a long-term commitment to spare parts for our products.

### The

# Hamworthy difference

#### **Delivery**

Dorchester water heaters are delivered factory assembled and mounted within frames, shrinkwrapped and on a wooden pallet. Standard delivery for all Hamworthy products is free of charge. Deliveries are closely co-ordinated with the customer, to suit the site construction programme. Products are delivered to ground level and it is the responsibility of the customer to arrange movement of products from here to the required location on site.

To enquire about special delivery services including FORS and time critical deliveries (additional charges apply) please contact our customer services team.

# British engineering excellence

Here in the UK, we design, test, manufacture and source market-leading products. We know our products inside out, back to front and from start to finish. You can trust that we know what we're talking about.

# Everyone's got history, we've got heritage

Our roots date back to 1914 when two brothers in Poole set up Hamworthy Engineering. Decades of experience go in to every nut, screw and bolt, and every phone call, text and email.

Since 2008, we've been part of Groupe Atlantic, a company with a similar ethos to us. Groupe Atlantic was founded in 1968 by two engineers and is now one of the market leaders in the European heating and hot water industry. We're part of their growing UK, ROI and North America Divisions.



# Lifetime support

From design and specification, through to commissioning, training and maintenance, as well as commitment to spares availability. We support businesses through their lifetime of commercial heating and hot water needs.

### **Aftersales support**

#### Got a question?

Don't hesitate to get in touch. Your local contact is listed on the back cover, or speak to one of the team in head office:

**Sales team:** 01202 662552

Service team: 01202 662555

**Spares team:** 01202 662525

**Technical support:** 01202 662505

You can speak to us online via our web chat service or visit our technical library to download full product information including CAD files, BIM objects and data tables.

hamworthy-heating.com sales@hamworthy-heating.com

#### Request a free site survey

Our free site survey brings our experts directly to you.

hamworthy-heating.com sales@hamworthy-heating.com

01202 662500

### **Product training**

## Get hands-on training on Dorchester water heaters

Training can be provided onsite, online or at one of our training centres.

Delivered by Groupe Atlantic engineers with years of product knowledge and industry experience, the training session will provide hands-on product training and guide you through the servicing of products to ensure they are operating at their maximum efficiencies.

We recommend you encourage your customer to attend too so they are confident understanding fault codes and associated control operation.

We're also accredited with CIBSE to deliver approved Continuing Professional Development (CPD) courses.



To enquire about hands-on training or a CPD module with us, please contact your local area sales manager or email sales@hamworthy-heating.com

### **Notes**

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





#### **Hamworthy Heating Limited**

Wessex House, New Fields Business Park, Stinsford Road, Poole, Dorset BH17 0NF

Tel: 01202 662500 Email: sales@hamworthy-heating.com hamworthy-heating.com

#### **Hamworthy Heating Accreditations**

ISO 9001 Quality Management System ISO 14001 Environmental Management System ISO 45001 Health & Safety Management System

Every effort has been taken to ensure the details in this guide are accurate. Hamworthy Heating does not, however, guarantee the accuracy or completeness of any information nor does it accept liability for any errors or omissions in the information.

Hamworthy Heating reserves the right to make changes and improvements which may necessitate alteration to product specification without prior notice.