WATERBOOST

Water Boosting Systems

OPERATION & MAINTENANCE MANUAL

Covering the full WaterBoost range (excluding AWB)

Slimline | Slimline EXT | Coffin | Advant | Compact

Supplied by

WaterBoost.co.uk

Unit 1-2, The Drift, Nacton Road, Ipswich IP3 9QR

www.waterboost.co.uk

Doc Ref: WB-OM-001 | Issue 1.1 | May 2026

1. General

1.1 About WaterBoost

WaterBoost is a range of mains-fed water pressure boosting systems designed and supplied by WaterBoost.co.uk. Each system combines a cold water storage tank with a DAB variable-speed inverter pump set, a pressure vessel and all associated valves and pipework connections.

WaterBoost is designed for domestic and light commercial pressure boosting applications. All wetted components are high quality and approved for use with drinking water.

1.2 Applications

WaterBoost systems are suitable for:

- Domestic properties experiencing low mains water pressure or flow
- Light commercial buildings, hotels, care homes and multi-occupancy dwellings
- Properties where the mains supply is inadequate to meet peak demand

WARNING — WaterBoost must not be installed in areas classified as hazardous or where there is a risk of explosion. It must not be used to pump any liquid other than clean potable water. The manufacturer does not accept responsibility for damage caused by incorrect application.

1.3 Delivery & Inspection

On delivery, inspect the system thoroughly. Report any damage to WaterBoost immediately and confirm in writing within 48 hours of delivery. The weight and size of the unit may require lifting equipment — always handle safely.

1.4 Warranty

All WaterBoost systems are supplied with the following warranty terms:

- DAB pump components: 3-year warranty against manufacturing defects.
- Storage tanks (Slimline, Advant and all non-coffin models): 10-year warranty.
- Coffin tanks (200 / 320 / 450 — black): 5-year warranty.
- Coffin tanks (340 / 500 — blue): 5-year warranty.

For warranty claims or technical support contact WaterBoost at www.waterboost.co.uk or sales@waterboost.co.uk.

WARNING — This warranty is void if the system is modified, tampered with, installed contrary to the instructions in this manual, or used to pump liquids other than clean potable water.

1.5 Site Storage

If the system must be stored before installation, keep it in a safe, dry location away from moisture, dust, frost and direct sunlight.

2. WaterBoost Product Range

The following products are covered by this manual. All models use DAB variable-speed inverter pumps unless stated otherwise.

Model	Tank Options	DAB Pump	Typical Application
WaterBoost Slimline Fixed Speed	150 / 300 / 500 litre	DAB Divertron / DTron	1–3 bed, cost-effective
WaterBoost Slimline INT Variable Speed	300 / 500 litre	esybox Diver	3–5 bed, energy efficient
WaterBoost Slimline EXT	150 / 300 / 500 litre	esybox Mini 3 or esybox	3–5 bed, external pump for easy access
WaterBoost Coffin Mini 3	200 / 320 / 450 litre (black)	esybox Mini 3	Low-ceiling installs, 2–4 bed
WaterBoost Coffin Esybox	320 / 450 litre (black)	esybox	Low-ceiling installs, higher demand
WaterBoost WB-Coffin 340 / 500 Mini 3	340 / 500 litre (blue)	esybox Mini 3	Low-ceiling installs, larger storage
WaterBoost WB-Coffin 340 / 500 Esybox	340 / 500 litre (blue)	esybox	Low-ceiling installs, high demand
WaterBoost Coffin POP	200 litre	esybox POP	1–2 bed, entry-level
WaterBoost Advant	500 / 1000 litre	esybox Mini 3 or esybox	Larger domestic / light commercial
WaterBoost Advant Twin	1000 litre	esybox Twin	High-demand / multi-occupancy
WaterBoost Advant Variable Speed	1000 litre	esybox Diver	Larger domestic / light commercial

NOTE — The WB-Coffin 340 and WB-Coffin 500 are the new blue coffin range introduced in May 2026. They share the same DAB pump options as the existing 200 / 320 / 450 (black) coffin range — Mini 3 (70 l/min, 5.5 bar) or Esybox (120 l/min, 6 bar) — but with larger blue UV-stabilised polyethylene tanks. Refer to Section 4 for tank dimensions.

3. Installation Checklist

Work through this checklist before and during installation. A completed sign-off version is provided in Section 13.

- Check the unit for any visual defects on delivery. Contact WaterBoost immediately if any are found.
- Choose a suitable location — refer to Section 4 (Location Considerations) before proceeding.
  - Check that the cold water storage tank capacity is sufficient for the property's water demand.
- Connect inlet pipework and overflow pipework as per the installation diagram (Section 5).
  - Fit full-bore isolation valves before and after the unit to allow servicing.
  - Install a suitably designed bypass to allow emergency water supply during servicing — see Section 5.3.
  - For the last 1 m of connection pipework, use Speedfit or similar pipework (pressure-rated) to reduce noise and accommodate unit movement.
  - All pipework must comply with local Water Authority regulations.
- Fill the storage tank through the fill valve.
- All electrical connections must be made by a qualified electrician in accordance with current regulations.
  - Isolate the electrical supply fully before working on the pump, controller or any part of the unit.
  - Do not energise the supply until all covers are intact and all connections are complete.

4. Location Considerations

NOTE — If installing above ceilings or in loft spaces, check the building structure can support the full filled weight of the system and take appropriate safety measures in the event of a leak (e.g. drip tray, leak detector, isolated/bunded area).

Installations significantly higher than the mains stop tap will reduce the tank refill rate.

- Install in a dry, well-ventilated area away from extreme temperatures and frost. An ambient temperature below 20 °C is required to limit bacteria growth in stored water.
- WaterBoost may be sited outdoors only within a weather-proof, frost-proof, rodent-proof enclosure that is adequately ventilated during warm weather.
- All pipework that may be exposed to freezing conditions must be fully insulated.
- Position the unit to allow safe access for inspection and servicing in compliance with health and safety requirements.
- Check the floor loading capacity. A litre of water weighs 1 kg — a 500-litre tank filled with water, pump and fittings can exceed 550 kg. Verify that the proposed floor or base can support this load evenly.
- Allow adequate lighting at the installation location for ease of maintenance.
- Allow sufficient space above the tank for correct pipework installation and for removing the pump for inspection — at a minimum, allow two-thirds of the tank height above the unit.

4.1 Foundation & Mounting

Mount WaterBoost on a solid, flat and level foundation that can support the full weight of the unit when filled. A concrete plinth or solid floor is the recommended surface. Wooden structures are not recommended where noise or vibration may be a concern.

For the larger storage tanks used in the Advant range, a reinforced concrete base is essential. The base should be at least 300 mm larger than the tank footprint and have a minimum depth of:

- 102 mm (4") for tanks up to 2,500 litres

Allow 7–10 days for new concrete to fully cure before positioning the tank.

4.2 Storage Tank

WaterBoost slimline and coffin tanks incorporate an integral cold water storage cistern. When connected to a mains supply, the system must be installed in accordance with the Water Supply (Water Fittings) Regulations 1999. All wetted parts are potable quality and suitable for drinking water.

Water quality in stored tanks will deteriorate over time if ambient temperature exceeds 20 °C. If the system is left idle for any period, it is recommended to drain the tank completely before returning it to service.

4.2.1 WB-Coffin tank dimensions (blue range)

The new WB-Coffin 340 and 500 (blue) tanks have the following dimensions:

Tank	Capacity	Dimensions (L × W × H)	Empty weight
WB-Coffin 340	340 litres	1500 × 600 × 630 mm	~36 kg
WB-Coffin 500	500 litres	2200 × 600 × 630 mm	~48 kg

4.3 Assist Tank

Where additional water storage is required, an assist tank can be used to increase the system capacity. To maintain proper flow-through of water, the incoming mains supply should be delivered to the assist tank only. Contact WaterBoost for guidance on specific configurations.

5. Installation

5.2 Pipework

To maximise WaterBoost performance:

- Use large bore pipework for as far as possible from the unit before reducing to the final pipe size.
- Avoid reduced-bore fittings, 15 mm tail fittings and domestic flexible braided hoses — these will restrict flow and significantly reduce outlet pressure.
- For the final 1 m of pipework connecting to the unit, use Speedfit or equivalent flexible pipework (rated for the working pressure). This reduces noise transmission into the building fabric and allows for slight movement of the unit without stressing the tank connections.
- Fit full-bore isolation valves immediately before and after the unit to allow the system to be isolated for servicing without interrupting the building water supply.
- Support all pipework independently — do not allow any pipework to impose mechanical load on the tank fittings or pump connections.
- All pipework must comply with local Water Authority regulations.

5.3 Bypass

It is strongly recommended to install a cold water mains bypass around the system. This allows the occupants to maintain a low-pressure mains supply should the WaterBoost require servicing or experience a fault. The bypass must be installed in compliance with the Water By-law Regulations and should be isolated and drained when not in use to prevent water stagnation.

5.5 Tank Commissioning Fill

Fill the storage tank through the fill valve. Loosen the outlet connection slightly, or unscrew the pump priming port, to allow any air trapped in the pump to escape as the tank fills. Once the tank is completely full and there is no discharge from the overflow connection, retighten the outlet connection and proceed with commissioning.

6. Electrical Installation

WARNING — All electrical connections must be carried out by a qualified electrician in accordance with the latest IEE/BS 7671 regulations. The WaterBoost must be earthed. Fully isolate the electrical supply before removing any covers or working on any part of the system.

6.1 Supply Requirements

All WaterBoost systems operate on a single-phase 230 V ±10%, 50 Hz supply. The system must be protected by a correctly sized MCB or fuse (maximum 13 A for single-pump models).

Systems supplied with a fitted plug may be used with a domestic 13 A socket. Systems supplied with a flying lead only must be connected by a qualified electrician to a suitable fused spur or distribution board.

6.2 Full Load Currents

WaterBoost Model	DAB Pump	Power	Full Load Current
Slimline Fixed Speed	DAB Divertron / DTron	up to 1 kW	~5 A
Compact / Slimline / Coffin / Slimline EXT	DAB esybox Mini 3	0.85 kW	4.8 A
WB-Coffin 340 / 500 Mini 3	DAB esybox Mini 3	0.85 kW	4.8 A
Slimline INT	DAB esybox Diver	0.96 kW	5.5 A
Coffin Esybox	DAB esybox	1.4 kW	~10 A
WB-Coffin 340 / 500 Esybox	DAB esybox	1.4 kW	~10 A
Advant 500 / 1000	DAB esybox	1.4 kW	~10 A
Advant Twin	DAB esybox (×2)	1.4 kW ×2	~20 A
Advant Variable	DAB esybox Diver	0.96 kW	5.5 A
Coffin POP	DAB esybox POP	0.3 kW	1.5 A

NOTE — For the Advant Twin model, a 20 A circuit is required. Consult WaterBoost if in doubt about the required circuit specification.

6.3 DAB esybox Electrical Requirements

For full and specific electrical requirements, refer to the DAB esybox Installation Manual supplied with the unit.

- The system must be correctly and safely earthed.
- The supply voltage may vary on start-up. Use a dedicated circuit where possible to avoid interaction with other appliances.
- The esybox Mini 3 protection class is IP X4. The standard esybox is IP X4.
- Do not connect any pipe to the 1" port on the esybox housing — the non-return valve.

7. Commissioning

7.1 Pre-Commissioning Checks

- Make a visual check to confirm all pipework and electrical connections are correctly installed and secure.
- Close any isolation valves on the bypass line. Disconnect the bypass if necessary to comply with water regulations.
- Check and open the isolation valve on the tank inlet.
- Check the expansion vessel pre-charge pressure. The correct pre-charge satisfies the formula: Pair = SP – RP – 0.7 bar. At factory defaults (SP = 3.0 bar, RP = 0.3 bar) this is 2.0 bar. Adjust if the set pressure has been changed.

7.2 Priming the DAB Pump

For WaterBoost EXT and Advant models, the DAB pump is a self-priming unit. Before connecting power:

Pour clean water into the pump body — at least 2.2 litres for the esybox, or 1.5 litres for the esybox Mini 3.

7.3 Starting the System

- Open the nearest cold water outlet tap.
- Turn on the electrical supply. The esybox display will illuminate.
- The system checks for water flow in the first 10 seconds. If flow is detected, the pump primes automatically and enters normal operation. Close the tap.
- If no flow is detected within 10 seconds, the display will prompt for first-priming. Press '+' to start the priming procedure. The pump runs for up to 5 seconds — do not interrupt. Once flow is detected at the open tap, the pump enters normal operation.
- If the pump fails to prime within 5 seconds, disconnect the power, add more water via the filling cap, wait 10 seconds and repeat.
- Slowly open the outlet isolation valve. The pump should start automatically as pressure drops below the start threshold.
- Close the tap and confirm the pump stops after the T2 switch-off delay (factory default 10 seconds).
- Check all pipework for leaks.
- For variable-speed models, check and adjust the operating pressure as required — see Section 8.

INFO — If a dry-run alarm (BL) is displayed shortly after start-up, there is likely air trapped in the pump body. Loosen the lower connection on the control unit to bleed the air, then reset by pressing '+' and '-' simultaneously.

8. Pump Specification & Pressure Settings

8.1 DAB Pump Performance Data

Model / Pump	WaterBoost Range	Max Flow	Max Pressure	Power
DAB Divertron / DTron (fixed speed)	Slimline Fixed Speed	100 l/min	4.5 bar	up to 1 kW
DAB esybox Mini 3 (variable speed)	Slimline EXT Mini3, Coffin Mini3, WB-Coffin 340/500 Mini3, Advant Mini3	70 l/min	5.5 bar	0.85 kW
DAB esybox (variable speed)	Slimline EXT Esybox, Coffin Esybox, WB-Coffin 340/500 Esybox, Advant Esybox	120 l/min	6 bar	1.4 kW
DAB esybox Diver (submersible, variable speed)	Slimline INT, Advant Variable	100 l/min	5 bar	0.96 kW
DAB esybox Twin (dual pump, variable speed)	Advant Twin	240 l/min	6 bar	1.4 kW ×2
DAB esybox POP (variable speed)	Coffin POP	50 l/min	3.2 bar	0.3 kW

8.2 Factory Default Settings (esybox and esybox Mini 3 models)

Parameter	Code	Default	Description
Setpoint pressure	SP	3.0 bar	Target operating pressure
Restart pressure drop	RP	0.3 bar	Pump restarts when pressure falls to SP – RP = 2.7 bar
Anti-cycling	AY	Disabled	Enable if leaks cause frequent cycling
Switch-off delay	T2	10 s	Delay after demand ceases before pump stops
Dry-run block time	TB	10 s	Time before BL alarm triggers
Expansion vessel pre-charge	Pair	2.0 bar	= SP – RP – 0.7 bar

8.3 Adjusting Operating Pressure

All WaterBoost DAB pump systems allow the setpoint pressure (SP) to be adjusted on site. All models are factory preset to 3 bar. The permitted ranges are: 1–6 bar for the esybox, 1–5.5 bar for the esybox Mini 3, 1–5 bar for the esybox Diver, and 1–3.2 bar for the esybox POP.

esybox & esybox Mini 3 — LED ring display

- Press the '+' key once to display the current working pressure on the LED ring.
- A fixed GREEN LED = 1 bar of pressure. A flashing GREEN LED = 0.5 bar.
- The setting is saved automatically in permanent memory (EEPROM) as each key is pressed.

esybox POP — on-board buttons

- Use the on-board push buttons on the POP control panel to view and adjust the setpoint pressure.
- Advanced settings including SP, RP and anti-cycling can also be configured via the DAB H2D app over Wi-Fi.

esybox Diver — DConnect app

- The esybox Diver has no physical keypad. All pressure settings are made via the DAB DConnect app on a smartphone or tablet.
- Open the app, navigate to pump settings and adjust SP (setpoint pressure) as required.
- RP (restart pressure drop), anti-cycling and all other parameters are also configurable through the app.

WARNING — Do not set the operating pressure higher than the pump's maximum capability. Setting SP too high will prevent the system from reaching the setpoint and will trigger a false 'no water' (BL) alarm. Maximum settings: esybox 6 bar; esybox Mini 3 5.5 bar; esybox Diver 5 bar; esybox POP 3.2 bar.

8.4 Expansion Vessel Pre-charge

The integrated expansion vessel should be pre-charged to satisfy the formula:

Pair = SP – RP – 0.7 bar

At factory defaults: Pair = 3.0 – 0.3 – 0.7 = 2.0 bar. If SP or RP are changed, recalculate and adjust the vessel air pressure accordingly using the Schrader valve in the technical compartment.

Check the vessel pre-charge every 4–6 months. Always check and adjust with the delivery system fully depressurised and the pump disconnected from power. The 2-litre vessel volume is small — connect a pressure gauge very briefly to avoid significant air loss.

NOTE — An external expansion vessel of any capacity can be added to the system by tee-ing it into the delivery pipework after the pump. This increases the water reserve and reduces pump cycling frequency.

9. Controller Operation

9.1 Keypad & Display

The DAB esybox and esybox Mini 3 share the same control logic. The interface consists of a keypad with MODE, SET, + and – keys, an LCD display (esybox) or LED ring (esybox Mini 3), plus three warning LEDs:

- POWER (white): lit continuously when the unit is powered. Flashes when the motor is manually disabled.
- ALARM (red): lit when the unit is in a blocked/fault condition.
- COMM (blue): lit when wireless communication is active and operating. Flashes slowly if communication is configured but unavailable. Flashes rapidly during association with another device.

9.2 Menu Access (esybox LCD model)

Menu	Key Combination	Hold Time
User Menu	MODE	Release immediately
Monitor Menu	SET + –	2 seconds
Setpoint Menu (SP)	MODE + SET	2 seconds
Manual Menu	SET + + + –	5 seconds
Installer Menu	MODE + SET + –	5 seconds
Technical Assistance Menu	MODE + SET + +	5 seconds
Reset Factory Values	SET + + at power-on	2 seconds

NOTE — The SET key exits the current menu. It does not need to be pressed to save a parameter — values are saved automatically.

9.3 Operating States

Display / LED State	Meaning
SB (motor stopped)	System pressurised, no demand. All taps closed. Pump waiting.
GO (motor running)	Demand detected. Pump running and supplying water at set pressure (SP).
DIS (motor disabled)	Motor manually disabled. Press '+' and '–' simultaneously to re-enable.
BL (blocked — dry run)	Pump has detected no water and stopped. See Section 10 for reset procedure.
ANTICYCLING	Pump is cycling excessively due to a leak in the delivery system. Pump stopped. Repair leak and reset.

9.4 Enabling & Disabling the Motor

To disable the motor, press '+' and '–' simultaneously for 2 seconds. The motor will retain its enabled/disabled state (the setting is retained in memory even after power is removed). When disabled, the white POWER LED blinks. To re-enable, press '+' and '–' simultaneously again.

9.5 Multi-pump (Twin) Systems — Advant Twin

The WaterBoost Advant Twin uses two DAB esybox units communicating wirelessly. Key operating points:

- Both units must run identical firmware versions.
- Associate the two units via the AS page of the Installer Menu: hold '+' for 5 seconds on each unit in turn until the blue COMM LED flashes, then confirms a solid connection.
- One unit acts as the adjustment leader and controls the start sequence. The second unit starts only when the first reaches maximum speed and flow demand remains high.
- Sensitive parameters (SP, RP, T2, TB etc.) are automatically synchronised across both units when changed on either one.
- An anti-stagnation algorithm rotates pump priority every 23 hours to keep both impellers exercised and prevent water stagnation.

10. Troubleshooting

10.1 Fault Code Reference — DAB esybox & esybox Mini 3

Code	Cause	Auto Reset?	Action
BL	No water / dry running. No water in supply, blocked suction, pressure sensor fault.	Yes — retries at 10 min intervals (×6), then hourly (×24), then daily (×30)	Restore water supply. Press '+' and '–' to reset.
BP1	Internal pressure sensor fault.	Yes — when fault clears	Contact WaterBoost.
PB	Supply voltage outside specification (too high or too low).	Yes — when voltage normalises	Check mains voltage. Check supply cable cross-section.
OC	Motor overload — continuous overcurrent.	Yes — retry sequence same as BL	Check fluid is potable water only. Check pump for mechanical blockage.
OT	Power stage overheating.	Yes — when temperature falls	Ensure water is flowing through the inverter. Allow to cool.
SC	Short circuit between motor phases.	No — manual reset only (wait 10 s first)	Check motor winding and cable insulation. Press '+' and '–' to reset.
ESC	Earth short circuit / current leakage.	No	Check cable insulation. Contact WaterBoost.
PH	Pump overheating (manual / test mode)	Yes — after 15 min cooldown	Avoid running pump without water flow for more than 5 minutes.
NC	Motor disconnected / not detected.	No	Check motor wiring and connections.
ANTICYCLING	Excessive cycling due to delivery leak.	No — manual reset	Inspect delivery pipework for leaks. Repair and reset with '+' and '–'.

INFO — For internal errors E18–E21, keep the unit powered and wait 15 minutes — the system will self-reset.

10.2 General Symptoms

Symptom	Probable Cause	Remedy
Pump does not start — no display	No power supply	Check socket, MCB/fuse and supply cable.
Pump does not start — display on, no alarm	System pressure above start threshold	Check SP and RP settings. Utility may be at height greater than Pstart equivalent.
Pump does not stop	Leak in delivery system or check valve stuck open	Inspect all fittings and pipework. Clean or replace check valve (see Section 12.3).
Pump starts and stops repeatedly	Leak in system or expansion vessel flat/damaged	Find and repair leak. Check vessel air pressure (Section 8.4).
No immediate pressure when tap opened	Expansion vessel air pressure too low or diaphragm failed	Check vessel. If water exits Schrader valve, vessel diaphragm is broken — replace.
Low pressure / flow at outlets	Pipework undersized, blocked suction filter, pump air-locked	Check pipework bore. Inspect suction filter. Bleed air from pump.
Shaft blocked — pump fails to start after long idle period	Mineral deposits on motor shaft	Use screwdriver in shaft groove to free (see Section 12.4).
Clicking noise on every start	Self-priming recirculation pipe shutter	Inhibit self-priming where below-head installation is permanent (see Section 12.5).

11. Water Quality

In the event that water remains unused inside the tank for an extended period, the tank should be drained and flushed to maintain water quality. The tank may be drained by running the pump to empty it and/or via the drain plug at the base.

For commercial applications, the tank must be cleaned in accordance with the relevant regulations governing the installation. For domestic installations it is recommended that tanks are drained and cleaned as required by the conditions of the installation.

WARNING — Water quality deteriorates over time when stored at ambient temperatures above 20 °C. If the system has been left idle, drain and flush the tank completely before returning to service. Do not use WaterBoost to pump any liquid other than clean potable water.

12. Maintenance

WARNING — Always disconnect and fully isolate the electrical supply before carrying out any maintenance work on the system.

12.1 Routine Maintenance Schedule

Frequency	Task	Notes
Monthly	Visual inspection — tank, pump, pipework and all connections for leaks	Check overflow pipe is clear
Every 4–6 months	Check expansion vessel air pre-charge pressure	Target: SP – RP – 0.7 bar (default 2.0 bar). Check with system depressurised.
Annually	Full tank clean in accordance with applicable regulations	Record date of cleaning in maintenance log
As required	Inspect and clean non-return valve	Sand or debris in water can cause the valve to stick open — see Section 12.3

12.2 Emptying the System

- Disconnect the power supply.
- Open the delivery tap nearest the system to relieve system pressure and empty pipework.
- Close the check valve immediately downstream of the system (if fitted) to retain water in the downstream plant.
- Close or disconnect the suction pipe at the system inlet to avoid draining the suction line.
- Remove the drainage cap (Face E — horizontal; or base drain plug) and allow water to drain.
- Approximately 2.5 litres of residual water may remain in the pump body after draining.

12.3 Non-Return Valve (esybox & esybox Mini 3)

The esybox has an integrated non-return valve, accessible via the screw cap on Face B of the unit. Sand or debris in the water can cause the valve to stick open, resulting in the pump failing to stop. Proceed as follows to service:

- Remove the valve access cap on Face B.
- Insert the accessory cross key (end 'F') into the cap opening so that the hooks engage the perforated tab on the valve cartridge.
- Extract the cartridge without rotating — some resistance is normal. The cartridge will remain on the key.
- Disengage the cartridge by pushing the key and cartridge against each other to release the hooks, then slide the cartridge sideways off the key.
- Clean the valve under running water. Inspect for damage and replace the cartridge if necessary.
- Re-insert the cartridge into its seat using end 'D' of the cross key to apply pressure (two O-rings must compress). Do not use end 'F' for reinsertion — the hooks will re-engage and prevent removal.
- Replace the access cap finger-tight.

WARNING — If any O-rings are lost or damaged during this procedure, they must be replaced before reinserting the cartridge. The system will not operate correctly with missing or damaged O-rings.

12.4 Motor Shaft

The esybox electronic control provides soft starting to protect mechanical components. However, after a prolonged period of inactivity — particularly with the system drained — mineral deposits can form between the motor shaft and the pump body, causing resistance on start-up. If the pump fails to start after a long idle period:

- Remove the motor shaft access cap on Face B.
- Insert a flat-bladed screwdriver into the groove at the end of the motor shaft.
- Turn the shaft in both directions to free any deposits.
- If the shaft turns freely, reconnect power and restart the system.
- If the shaft remains seized, do not apply excessive force. Contact WaterBoost.

12.5 Inhibiting Self-Priming

All WaterBoost DAB pumps are self-priming as standard. For below-head installations where the pump is always supplied from a pressurised tank, the self-priming recirculation channel can be permanently closed. This eliminates the clicking sound of the shutter on every start. The maximum permitted inlet pressure is 2 bar.

To inhibit self-priming, the metal spring must be repositioned inside the drain cap so it holds the shutter permanently closed. Refer to the DAB esybox Installation Manual (supplied with the unit) for the detailed procedure, or contact WaterBoost for assistance.

13. Commissioning Checklist

Complete this checklist at the time of commissioning and retain with the building records.

Installer Details

Installer Name: _____

Company: _____

Email: _____

Mobile / Tel: _____

Client Details

Client / Property Name: _____

Address: _____

Email: _____

Mobile / Tel: _____

Tank Details

WaterBoost Model: _____

Tank Size (litres): ☐ 150 ☐ 200 ☐ 300 ☐ 320 ☐ 340 ☐ 450 ☐ 500 ☐ 1000 ☐ Other: _____

Tank Serial Number *: _____

Build Reference Number *: _____

Date Installed: _____

Commissioning Date: _____

DAB Pump Model: ☐ esybox Mini 3 ☐ esybox ☐ esybox Twin ☐ esybox Diver ☐ Divertron / DTron ☐ esybox POP

System Type: ☐ Slimline ☐ Slimline EXT ☐ Coffin (200/320/450 black) ☐ WB-Coffin (340/500 blue) ☐ Advant ☐ Compact ☐ Coffin POP

NOTE — * The Build Reference Number and Tank Serial Number are located on the label affixed to the side of the tank.

Installation & Commissioning Items

Item	Yes	No	N/A
Visual inspection of WaterBoost — no defects found	☐	☐	☐
WaterBoost installation label present on tank	☐	☐	☐
Unit positioned in a safe, suitable location away from hazards	☐	☐	☐
Unit installed away from direct sunlight and frost risk	☐	☐	☐
Tank and pump mounted on a solid, level base	☐	☐	☐
Cold water mains bypass installed (compliant with water by-laws)	☐	☐	☐
Isolation valve fitted on tank inlet	☐	☐	☐
Isolation valve fitted on tank outlet	☐	☐	☐
Insulation jacket fitted (where specified)	☐	☐	☐
Correct overflow pipework selected and installed for tank	☐	☐	☐
Overflows piped separately with no sharp bends causing restriction	☐	☐	☐
Incoming mains pressure tested and appropriate fill valve selected and tested	☐	☐	☐
28 mm pipework used for main connections (or equivalent reduced-bore rationale documented)	☐	☐	☐
Flexible Speedfit or equivalent used for final 1 m connection to unit	☐	☐	☐
Unit installed in adequately ventilated area	☐	☐	☐

Electrical supply connected by a qualified electrician, in accordance with current regulations	☐	☐	☐
Earth connection confirmed	☐	☐	☐
Expansion vessel pre-charge pressure checked and set correctly	☐	☐	☐
DAB pump primed successfully	☐	☐	☐
System operating pressure checked, adjusted and confirmed	☐	☐	☐
Full test of overflow pipes completed	☐	☐	☐
All pipework and fittings checked for leaks — none found	☐	☐	☐
System fully commissioned and tested	☐	☐	☐
Pressure reducing valves on line? If yes, operating pressure adjusted accordingly	☐	☐	☐

Pressure Readings

Incoming mains pressure to WaterBoost: _____ bar

WaterBoost set pressure (SP): _____ bar

Expansion vessel pre-charge: _____ bar

Sign Off

Print Name	Signature	Position	Date
Installer:			
Client / Engineer:			

14. Contact & Support

For technical support, warranty claims, spare parts, servicing or installation enquiries, contact WaterBoost:

Company: WaterBoost

Address: Unit 1-2, The Drift, Nacton Road, Ipswich IP3 9QR

Email: sales@waterboost.co.uk

Website: www.waterboost.co.uk

For DAB pump technical support, firmware assistance or authorised service, contact WaterBoost who will liaise directly with the DAB technical and service network on your behalf.

WaterBoost Water Boosting Systems

Supplied by WaterBoost.co.uk | Doc Ref: WB-OM-001 | Issue 1.1 | May 2026