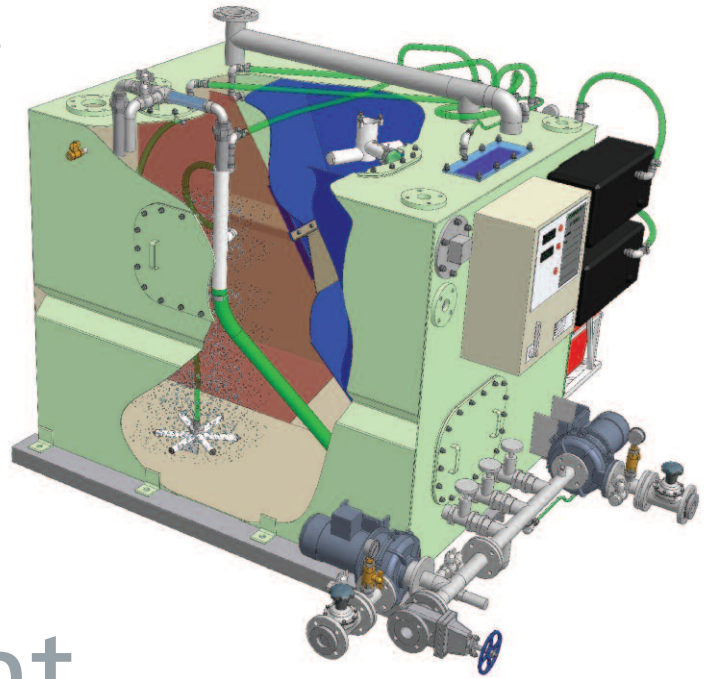


Sewage Treatment Plant

Super Trident
STA-C series and ST-C series

Water Systems

STA-C Series



Super Trident sewage treatment plant

The efficient, hygienic end to waste

Hamworthy is the world's leading manufacturer of marine sewage treatment plant. For over three decades Super Trident sewage treatment plant have been widely regarded as standard specification on all vessels.

Plant installed on existing ships on or after 1 January 2010 and on new ships whose keels are laid on or after this date must meet the new IMO MEPC 159(55) guidelines, which are more stringent than the longstanding IMO MEPC 2(VI) guidelines.

The STA-C and ST-C series of Hamworthy plant is certified to meet IMO MEPC 159(55).

An STA-C or ST-C unit is fully compatible with gravity and vacuum collection systems, and uses the activated sludge system, which accelerates natural biological processes. Chemical disinfection and dechlorination are employed to produce a clean, safe, effluent suitable for discharging at sea.

To enable ships to continue discharging black and grey water in especially sensitive waters, where regulations demand tighter controls, Hamworthy have developed a range of MBR (Membrane Bioreactor) plants.

Please refer to your local Hamworthy representative for details on the latest developments in wastewater technology.

Leaders in marine sewage treatment

The product of many years' experience in the design and manufacture of marine sanitation devices.

High efficiency

Utilises the extended aeration process - highly developed for marine application.

Automatic control

Unattended operation, minimum maintenance.

Compact design

Compact modular construction, suitable for between deck installation.

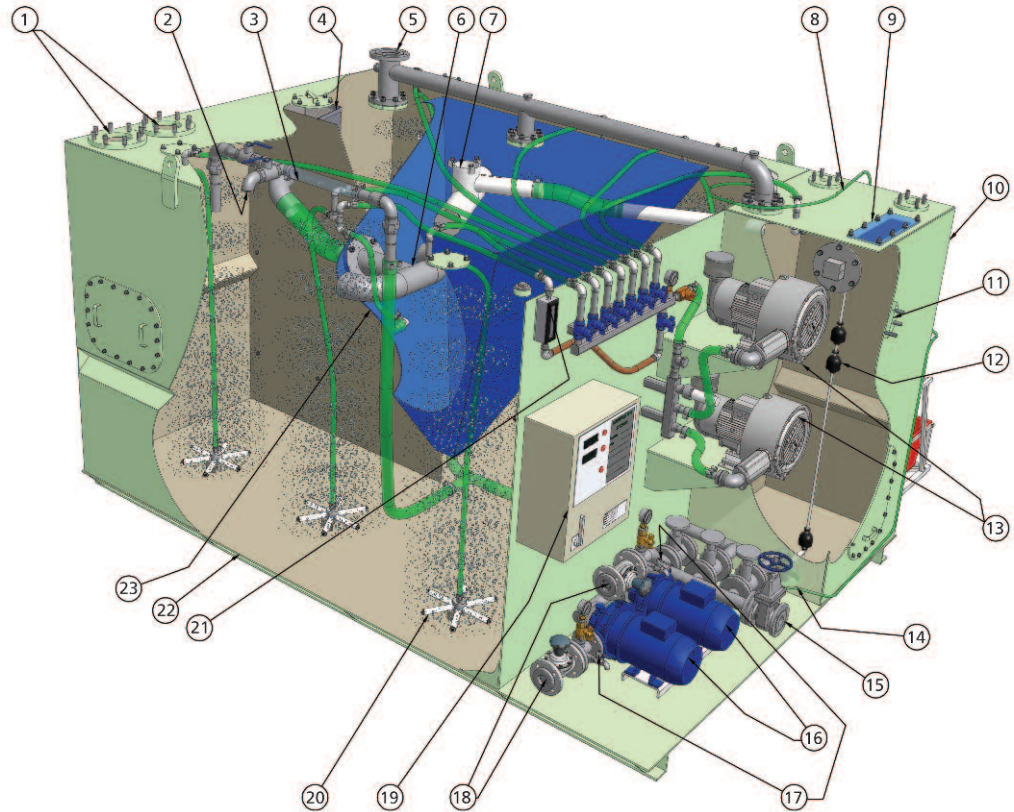
Safe operation

Unaffected by ship's motion.

Flexible operation

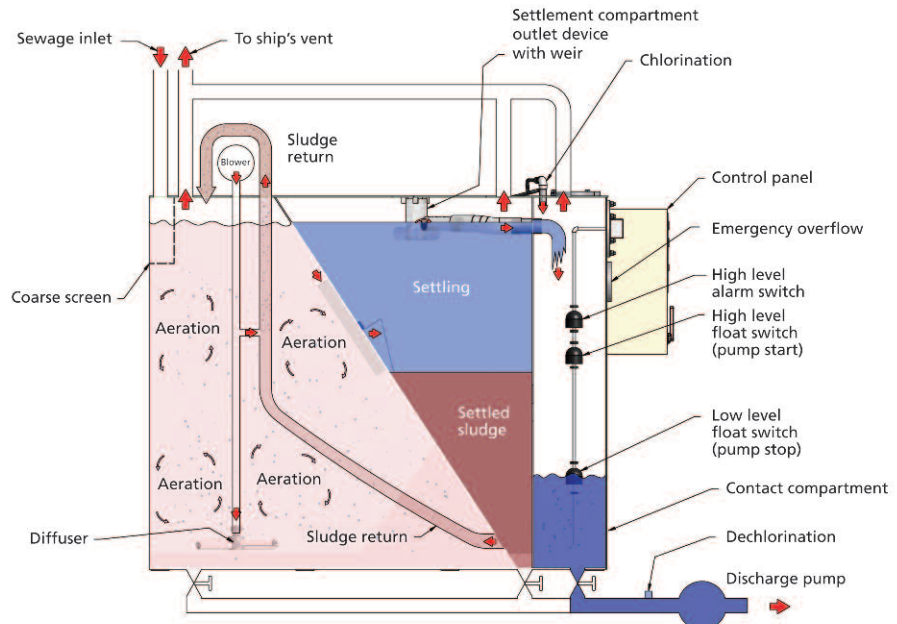
Suitable for use with conventional gravity and vacuum sewage collection systems.

ST-C Series



Features

- | | |
|---|--------------------------------|
| 1. Raw sewage inlets | 13. Air blowers |
| 2. Returned activated sludge (R.A.S.) calibration point | 14. Pipe for sodium bisulphite |
| 3. Visual indication pipe for returned activated sludge | 15. Filling connection |
| 4. Filter screen | 16. Discharge pumps |
| 5. Vent | 17. Sample points |
| 6. Settlement compartment inlet | 18. Pump discharge |
| 7. Settlement compartment outlet device | 19. Control panel |
| 8. Pipe for sodium hypochlorite | 20. Air diffuser assemblies |
| 9. Contact compartment inspection hatch | 21. R.A.S. air flow meter |
| 10. Contact compartment | 22. Aeration compartment |
| 11. Emergency overflow | 23. Settlement compartment |
| 12. Float switches | |

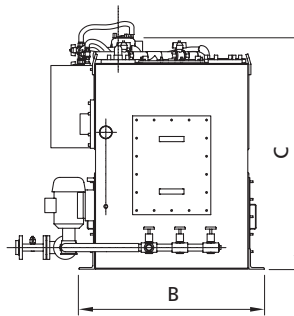
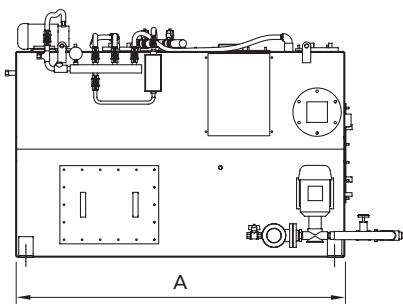


For operating principles and detailed specification refer to data sheets HWS0066 & HWS0067

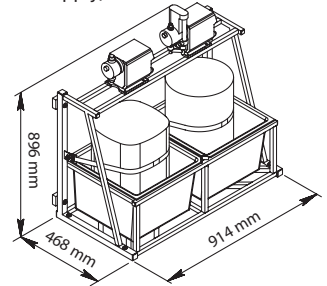
Model No.	Certified* Litres/Day (black water only)	Dimensions (mm)			Weight Full Kg
		A	B	C	
ST1A-C	1740	1890	1061	1181	1550
ST2A-C	3120	1960	1879	1293	2750
ST3A-C	4660	2050	1927	1640	3900
ST4A-C	6010	2150	2030	1790	4910
ST6A-C	9360	2500	2277	1940	7270
ST8-C	11 840	3 000	2 270	2 000	9 350
ST10-C	15 810	3 400	2 470	2 000	11 655
ST13-C	20 830	4 400	2 470	2 000	15 680
ST15-C	25 704	3 700	2 970	2 300	17 980
ST20-C	33 974	4 620	2 970	2 300	23 230
ST25-C	40 778	4 620	3 220	2 500	27 830
ST30-C	47 422	5 012	3 220	2 700	33 080
ST40-C	64 150	6 012	3 670	2 680	40 330
ST50-C	80 182	7 000	3 970	2 900	51 310
ST60-C	100 800	7 000	3 970	3 500	66 780

* UK IMO Certificate

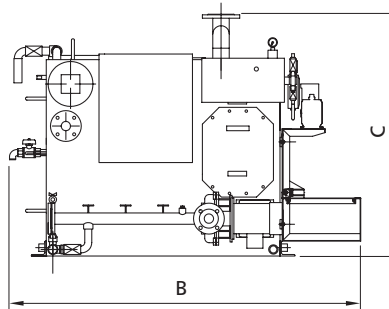
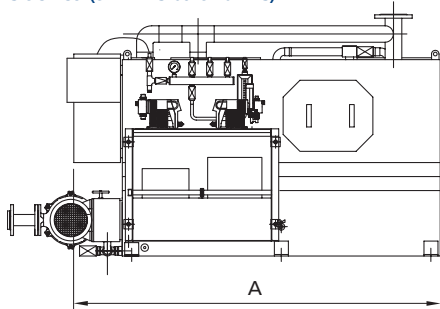
STA-C Series (ST1A-C)



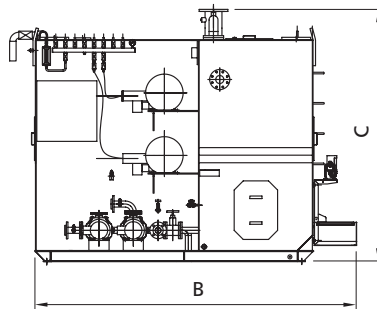
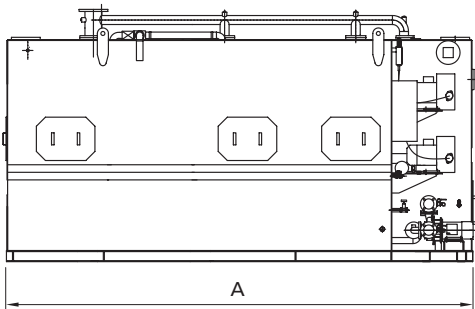
Chemical Dosing Unit
(Loose Supply)



STA-C Series (ST2A-C to ST6A-C)



ST-C Series (ST8-C to ST60-C)



Hamworthy Water Systems Limited
Fleets Corner Poole
Dorset BH17 0JT
England

tel: +44(0)1202 662600
fax: +44(0)1202 668793
e-mail: poolewater@hamworthy.com
web: www.hamworthy.com/watersystems



The manufacturers reserve the right to alter the specification and data to incorporate improvements in design. Certified drawings will be issued on request.

© All details copyright Hamworthy plc.

A subsidiary of Hamworthy plc