



YOUR RELIABLE PARTNER IN

# Exhaust gas cleaning pumps



Find our products and solutions within the areas of engine room pumps, cargo oil and ballast pumping system, fire water pump packages, exhaust gas cleaning pumps and offshore products, as well as global sales and after-sales services at [www.hamworthy-pumps.com](http://www.hamworthy-pumps.com)



# The right solution for ultimate efficiency and compliance

New environmental regulations are challenging for shipowners. Recognized as a leading expert in pumping systems for the marine industry, Hamworthy Pumps ensures the right pump solution for efficient exhaust gas cleaning systems (EGCS) and compliance to the latest sulphur limits.

Since introduction of EGC pumps in 2010, Hamworthy Pumps had supplied over 800 pumps for this application to Scrubber OEMs and System Integrators.

The latest 2020 IMO Sulphur Regulation forces shipowners to limit their fuel sulphur content to 0.5 percent in order to reduce the amount of sulphur oxide emissions from vessels. A powerful exhaust gas cleaning system (EGCS) is for many the answer to this challenge.

Whether the exhaust gas cleaning system (EGCS) is an open loop, closed loop or hybrid system, the line of scrubber or EGC pumps from Hamworthy Pumps are designed to fit easily, provide efficiency and reliability – even in the most difficult conditions – and to protect the environment. Furthermore it provides compliance, minimize operational downtime and costly fines with non-compliant EGC system.

Together with worldwide 24/7 service, decades of expertise and fast on-time delivery, Hamworthy Pumps is a partner that never leaves focus on what matters most: Results you can trust.



# Why choose EGC pumps from Hamworthy Pumps?

Hamworthy Pumps scrubber or EGC pumps are built for ultimate reliability, accessibility and efficiency and purposely designed for the arduous scrubbing water applications.



## Premium quality

Tough conditions call for tough materials and premium quality. Hamworthy EGC pumps are made of Super Duplex Stainless Steel or Ni-Al-bronze to endure uninterrupted operations and a long service life.



## Compact and configurable

Compact, application-specific and with multiple orientations and configuration options, EGC pumps ensure easy installation and optimum use of space. Where requirements are not within the scope of supply, Hamworthy Pumps will still be able to source and provide a complete pump package through strategic partnerships with global suppliers.



## Comprehensive range

Hamworthy Pumps offer vertical EGC pumps with capacities up to 2000 m<sup>3</sup> and pressures up to 160 mlc proven in exhaust gas cleaning applications.



## Fast on-time delivery

Besides stocking of various bare-shaft pump models, we have up to 85% spares requirement readily available for worldwide delivery to meet your project schedules.



## High performance and reliability

Hamworthy EGC pumps delivers excellent hydraulic performance with high efficiency and low NPSHr. Upgraded bearing and seal arrangements ensures ultimate operational reliability.







## Quality, health, safety & environment

Hamworthy Pumps operates with the QHSE management system, which conforms to ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 and is certified by DNV GL.

We also hold various product certifications under classification societies such as ABS, BV, DNV GL, LR, NK and we are able to provide other classifications upon request.



# Pumps and applications for exhaust gas cleaning systems

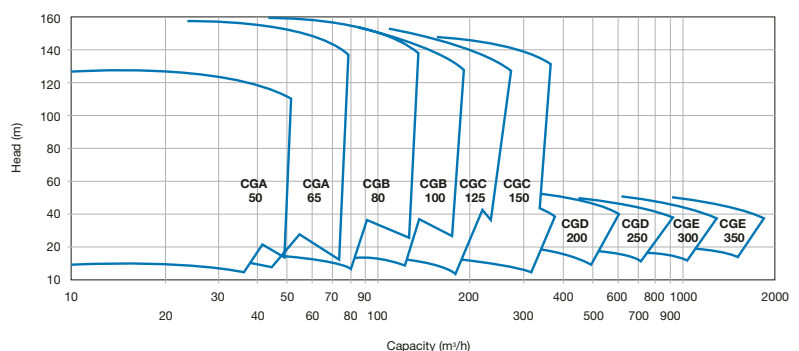
Hamworthy Pumps have a broad range of scrubber or EGC pumps that are optimized to suit the needs and challenges of ship owners around the world.



## Model CG

Vertical inline single stage pump in single suction impeller, radially split casing with flexible spacer coupling and hydrodynamic sleeve bearing.

### Capacity range



#### CAPACITY RANGE & PRESSURE

**Capacity:**  
30 – 1100 m³/h  
**Differential pressure:**  
15 – 120 m.c.

#### ADVANTAGES

Hydraulic design and compact size.  
Long and reliable service life.  
Easy maintenance.

#### APPLICATION

Scrubber process pump,  
scrubber seawater pump,  
circulation pump.

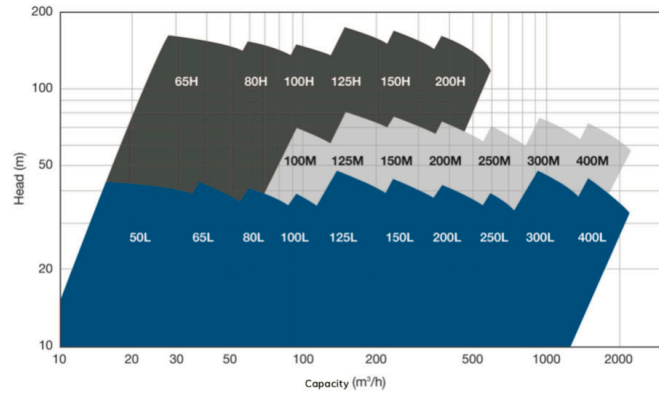




### Model CGX

Vertical in-line overhung pumps with single suction impeller, radially split casing with flexible coupling options. Comes with ball bearing and mechanical seal as an integral unit which enables quick maintenance turnaroundtime.

#### Capacity range



#### CAPACITY RANGE & PRESSURE

**Capacity:**  
30 – 1600 m³/h  
**Differential pressure:**  
15 – 150 mlc

#### ADVANTAGES

Three pressure classes (CGL, CGM, CGH).  
High suction performance and low power requirement.  
Very compact design and Integral feet and connection ugs for the motor pedestal. Easy maintenance.

#### APPLICATION

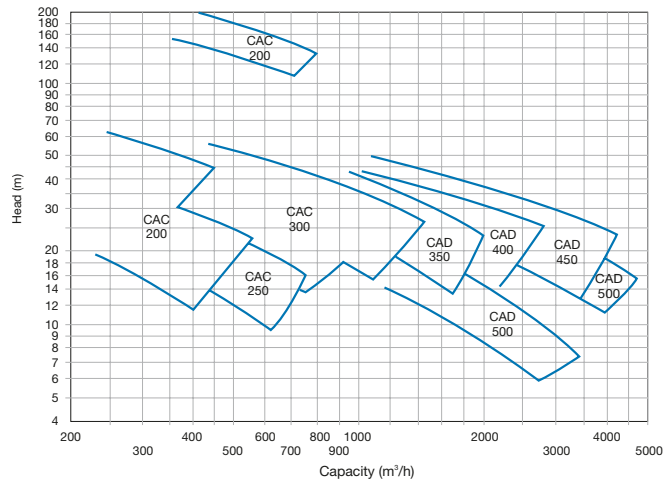
Scrubber process pump,  
scrubber seawater  
pump, circulation pump.

### Model CA

Between bearing pumps which can operate in both vertical in-line foot mounted and horizontal installations. Available in single and two stage impeller.



#### Capacity range



#### CAPACITY RANGE & PRESSURE

**SINGLE STAGE**  
**Capacity:**  
800 – 4500 m³/h  
**Differential pressure:**  
Up to 40 mlc.

**TWO STAGE**  
**Capacity:**  
100 – 400 m³/h  
**Differential pressure:**  
Up to 120 mlc.

#### ADVANTAGES

High efficiency and reliable suction performance. Compact and robust design. Double suction impeller.

#### APPLICATION

Scrubber process pump,  
scrubber seawater pump,  
circulation pump.



# Excellent service at all times

It is essential for any marine business to have the pumps running. With a strong worldwide service set-up Hamworthy Pumps ensures maximum competitiveness at all times.

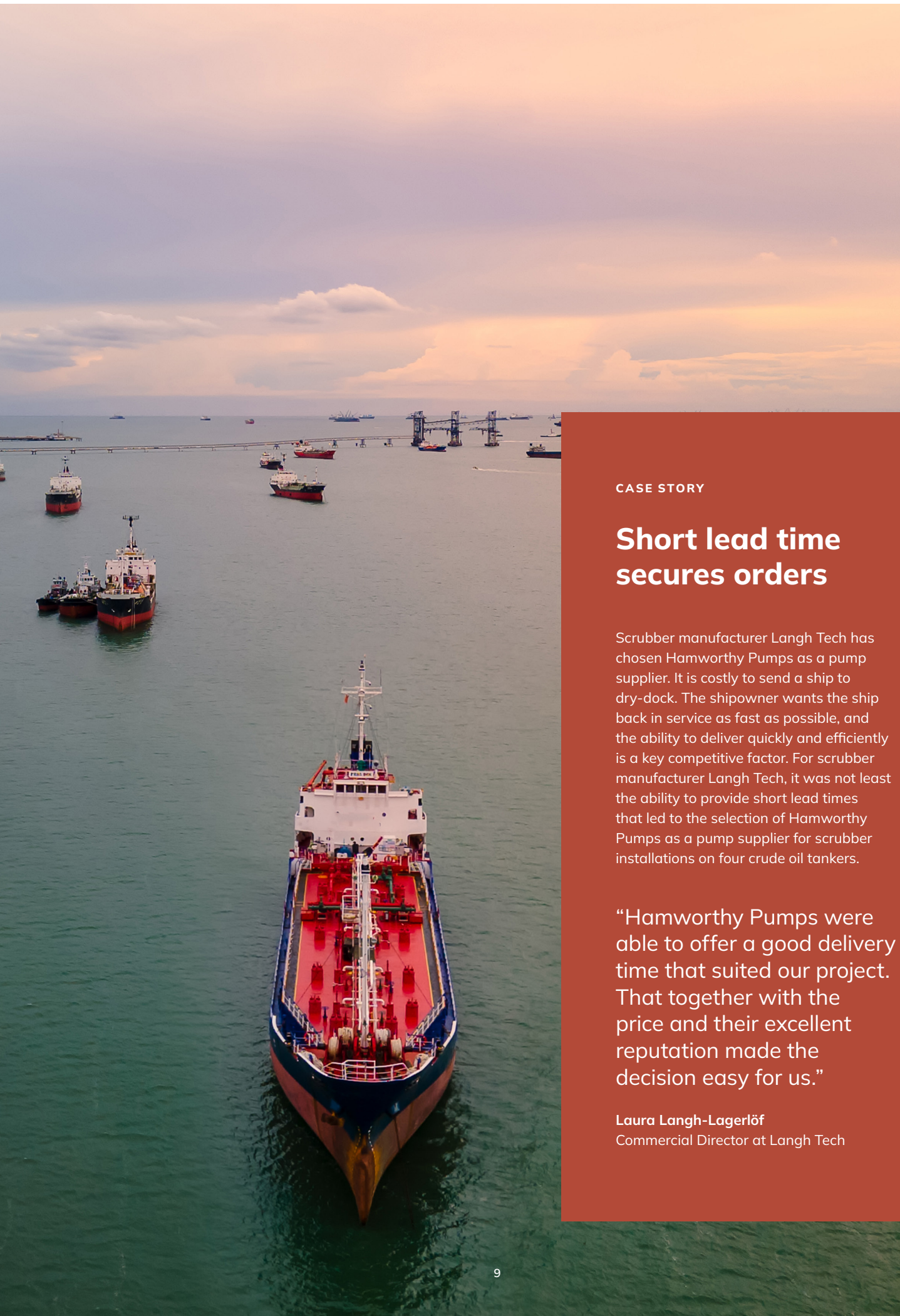
Problems need to be solved quickly in the marine industry. Every minute counts. The support and service of Hamworthy Pumps is designed to match these needs and take on challenges however difficult they might be. As a customer you can be sure of:

- 24/7 hotline managed by experienced experts
- On-site help within 24 hours at any location
- Rapid OEM spare part supply

Hamworthy Pumps also offers a wide range of repair and maintenance services, from performance optimisation to on-site training and monitoring.







#### CASE STORY

## Short lead time secures orders

Scrubber manufacturer Lanh Tech has chosen Hamworthy Pumps as a pump supplier. It is costly to send a ship to dry-dock. The shipowner wants the ship back in service as fast as possible, and the ability to deliver quickly and efficiently is a key competitive factor. For scrubber manufacturer Lanh Tech, it was not least the ability to provide short lead times that led to the selection of Hamworthy Pumps as a pump supplier for scrubber installations on four crude oil tankers.

“Hamworthy Pumps were able to offer a good delivery time that suited our project. That together with the price and their excellent reputation made the decision easy for us.”

**Laura Lanh-Lagerlöf**  
Commercial Director at Lanh Tech





Exhaust gas cleaning pumps



# A trusted marine partner since 1889

Hamworthy Pumps is a market-leading manufacturer of in-line pumps for the marine and offshore industries and delivers engine room pumps, cargo oil and ballast pumping system, fire water pump packages and scrubber pumps.

Committed to continuous improvement and solutions that keeps adding value, Hamworthy Pumps are known to develop strong partnerships and innovation that fits customers' competitive needs. To this belongs a firm focus on ways to reduce the

environmental impact of products, services and operations and actively contributing to UN's Global Goals for Sustainable Development. It is the will to do better every day. It comes with our name – and with being trusted by customers since 1889.







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