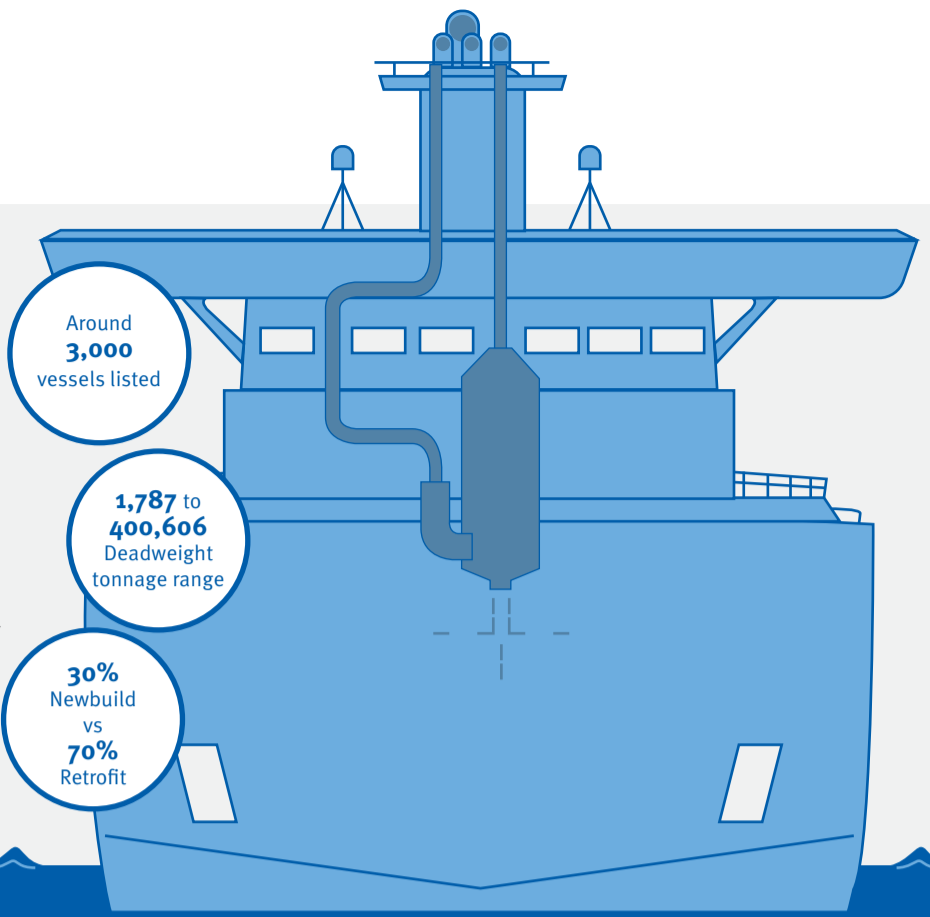


Argus scrubber database

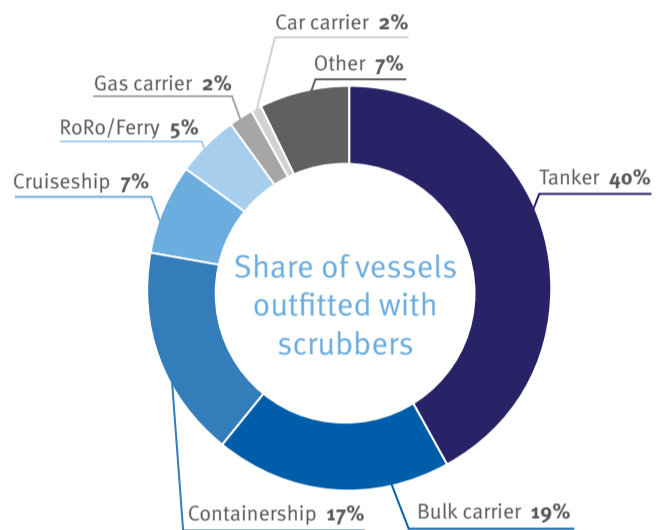
Updated monthly, the Argus scrubber database is the only database to provide comprehensive insight into vessels being fitted with exhaust gas scrubbers.

Find out more:
www.argusmedia.com/marine-fuels



Key uses for the Argus scrubber database

- HSFO suppliers can find out which vessels are outfitted with scrubbers so they can directly market their HSFO to the vessels' owners
- Shipowners can find out which of their competitors are investing in scrubbers.
- Companies interested in time-chartering vessels outfitted with scrubbers can determine which shipowners to approach.
- Shipowners interested in scrubber investment can see a list of all scrubber manufacturers.



Key data points included

Shipowner name	Vessel name	Vessel type	Vessel IMO #	Vessel size, DWT	Newbuild or retrofit	Scrubber commission year	Scrubber type	Scrubber manufacturer
Olympic Shpg & Mgmt	Olympic Trust	Tanker	9437177	319,616	Retrofit	2020	Open loop	Kangrim Heavy Industries
TMS Tankers	Gustavia S	Tanker	9859399	299,995	Newbuild	2020	Open loop	Wartsila
JX Ocean	Bright Crest	Tanker	9787792	312,501	Newbuild	2019	Open loop	Alfa Laval
Ocean Yield	Bulk Seoul	Bulk carrier	9849318	208,000	Newbuild	2019	Open loop	Alfa Laval
Nippon Yusen Kaisha (NYK)	Lily Fortune	Bulk carrier	9860257	91,443	Newbuild	2020	Open loop	Pureteq
NS United Kaiun Kaisha	NSU Trust	Bulk carrier	9782297	208,747	Retrofit	2019	Open loop	Wartsila
Mediterranean Shipping Company (MSC)	MSC Alghero	Containership	9618288	110,725	Retrofit	2019	Hybrid	Wartsila
Maersk	Matz Maersk	Containership	9619983	194,284	Retrofit	2019	Open loop	Valmet
Reederei M. Lauterjung	City of Beijing	Containership	9434474	34,334	Retrofit	2020	Open loop	CR Ocean Engineering

Sample of Argus exhaust scrubber database

TOP 10

Shipowner with the most scrubbers-outfitted vessels

Tanker	Bulk carrier	Containership
Scorpio Tankers	Star Bulk	Mediterranean Shipping Company
BoComm Leasing	Eagle Bulk Shipping	Evergreen Marine
Delta Tankers	Golden Ocean	Hyundai Merchant Marine
Frontline	Safe Bulkers	Imabari Shipping - Shoei Kisen Kaisha
ClearOcean Tankers	Genco Shipping & Trading	COSCO
Stena Bulk	2020 Bulkers	Yang Ming
DHT Management	Quantum Pacific Shipping	Hapag-Lloyd
Torm	Pacific Basin Shipping	MPC Container Ships
Okeanis Eco Tankers	Scorpio Bulkers	Capital Product Partners
Navig8	Delta Tankers/Marmaras Navigation	Seaspan

The Argus Scrubber Database is only available as part of the Argus Marine Fuel service. To learn more about the scrubber database or Argus' coverage of marine fuels visit: www.argusmedia.com/marine-fuels