



Ballast Flow Rates



USCG Type Approved BWMS

Company	Type	Flow Rate (m ³ /hr)
OceanSaver	Electro-chlorination	200 –7,200 (selling 1000 model)
Alfa Laval	Ultraviolet	85–3,000
Optimarin	Ultraviolet	167–3000
Sunrui	Electro-chlorination	170–8,500
EcoChlor	Chemical injection	500–16,200
<i>ErmaFirst (applied)</i>	Electro-chlorination	100–3,000

Typical Pumping Rates

Vessel Type	Flow Rate (m ³ /hr)
Tanker	5,000 – 20,000
Float-on, float-off	10,000 – 15,000
Ore	10,000
Liquefied-gas	5,000 – 10,000
Dry bulk	5,000 – 10,000
Heavy lift	5,000
Barge-carrying cargo	1,000 – 2,000
Roll-on, roll-off	1,000 – 2,000
General cargo	1,000 – 2,000