

Halton Marine Cruise Segment References

Halton Marine, one of the world's leading suppliers of marine HVAC, develops, manufactures and markets reliable, high-quality ventilation solutions specifically designed for the marine, oil & gas and navy applications. Halton Marine's main product groups are HVAC dampers, galley and cabin ventilation, droplet separators, airflow distribution and management products.

Cruise ships and offshore installations today welcome large numbers of passengers and employees worldwide. Outside conditions can be extreme, but the requirements stay the same. Typically passengers and crew appreciate **comfortable air conditioning, good air quality, and a safe indoor environment**. Halton Marine concentrates on providing safety and comfort aboard ships with high-quality ventilation solutions.

The technical quality and proper functioning of Halton's solutions, built in state-of-the-art production facilities, are tested in Halton's own laboratories and test facilities as well as in independent research laboratories around the world. Halton's R&D centers offer Indoor Climate Testing services to test and verify the performance of each solution.

Scope of supply

- Cabin ventilation systems including energy-efficiency
- Galley ventilation equipment including UV-light technology and demand based ventilation
- A wide range of fire and gas dampers. Droplet separators
- Airflow management and distribution products



Cruise ship photo courtesy of MSC Cruises

Owner	Hull	Name	Shipyard	Year	GH	CV	FD
Azamara Cruises	31Q	Azamara Journey	Atlantique	2000		X	
Azamara Cruises	31Y	Azamara Quest	Atlantique	2000		X	
Aida Cruises	3	Aida Vita	Aker MTW	2002	X		X
Aida Cruises	4	Aida Aura	Aker MTW	2003	X		X
Birka Cruises	442	Birka Paradise	Aker Finnyards	2004	X		X
Carnival Cruise Lines	499	Carnival Spirit	Kvaerner Helsinki	2001	X		X
Carnival Cruise Lines	500	Carnival Pride	Kvaerner Helsinki	2001	X		X
Carnival Cruise Lines	501	Carnival Legend	Kvaerner Helsinki	2002	X		X
Carnival Cruise Lines	503	Carnival Miracle	Kvaerner Helsinki	2004	X		X
Carnival Cruise Lines	5979	Carnival Triumph	Fincantieri	1999	X		X
Carnival Cruise Lines	6045	Carnival Victory	Fincantieri	2000	X		X
Carnival Cruise Lines	6057	Carnival Conquest	Fincantieri	2002	X	X	X
Carnival Cruise Lines	6058	Carnival Glory	Fincantieri	2003	X	X	X
Carnival Cruise Lines	6082	Carnival Valor	Fincantieri	2004	X	X	X
Carnival Cruise Lines	6111	Carnival Liberty	Fincantieri	2005	X	X	X
Carnival Cruise Lines	6129	Carnival Freedom	Fincantieri	2007	X	X	X
Carnival Cruise Lines	6135	Carnival Splendor	Fincantieri	2008	X	X	X
Carnival Cruise Lines	6151	Carnival Dream	Fincantieri	2009	X	X	X
Carnival Cruise Lines	6167	Carnival Magic	Fincantieri	2011	X	X	X
Carnival Cruise Lines	6201	Carnival Breeze	Fincantieri	2012	X	X	X
Celebrity Cruises	31R	Celebrity Millenium	Atlantique	2000		X	X
Celebrity Cruises	675	Celebrity Solstice	Meyer Werft	2008			X
Celebrity Cruises	676	Celebrity Equinox	Meyer Werft	2009			X
Celebrity Cruises	677	Celebrity Eclipse	Meyer Werft	2010			X
Celebrity Cruises	679	Celebrity Silhouette	Meyer Werft	2011			X
Celebrity Cruises	691	Celebrity Reflection	Meyer Werft	2012			X
Costa Crociere	6086	Costa Fortuna	Fincantieri	2003	X	X	X
Costa Crociere	6087	Costa Magica	Fincantieri	2004	X	X	X
Costa Crociere	6122	Costa Concordia	Fincantieri	2006	X	X	X
Costa Crociere	6130	Costa Serena	Fincantieri	2007	X	X	X
Costa Crociere	6155	Costa Luminosa	Fincantieri	2008	X	X	X
Costa Crociere	6164	Costa Deliziosa	Fincantieri	2010	X	X	X
Costa Crociere	6188	Costa Favolosa	Fincantieri	2011	X	X	X
Costa Crociere	6189	Costa Fascinosa	Fincantieri	2012	X	X	X
Costa Crociere	498	Costa Atlantica	Kvaerner Helsinki	2000	X		X
Costa Crociere	502	Costa Mediterranea	Kvaerner Helsinki	2003	X		X
Crystal Serenity	32H	Crystal Serenity	Atlantique	2003	X	X	X
Cunard Line	32G	Queen Mary 2	Atlantique	2003	X	X	X
Disney Cruise Line	687	Disney Dream	Meyer Werft	2011			X
Disney Cruise Line	688	Disney Fantasy	Meyer Werft	2012			X

GH » galley water wash hoods, canopies
CV » cabin ventilation equipment such as cabin units and controllers
FD » fire and gas dampers, fire dampers

Owner	Hull	Name	Shipyard	Year	GH	CV	FD	N
Hapag-Lloyd	495	Europa	Kvaener Helsinki	1999	X			
Hapag-Lloyd	H33	Europa 2	STX Europe	2013	X		X	X
Holland America Line	6035	Volendam	Fincantieri	1999	X		X	
Holland America Line	6052	Amsterdam	Fincantieri	2000	X		X	
Holland America Line	6063	Zaandam	Fincantieri	2000	X		X	
MSC Cruises	32K	MSC Lirica	Atlantique	2003		X	X	
MSC Cruises	32L	MSC Opera	Atlantique	2004	X	X	X	
MSC Cruises	32Q	MSC Musica	Atlantique	2006	X	X	X	
MSC Cruises	32R	MSC Orchestra	Atlantique	2007	X	X	X	
MSC Cruises	S32	MSC Poesia	Aker France	2008	X	X	X	
MSC Cruises	A33	MSC Fantasia	Aker France	2008	X	X	X	X
MSC Cruises	B33	MSC Serenata	STX Europe	2009	X	X	X	X
MSC Cruises	T32	MSC Magnifica	STX Europe	2010	X	X	X	
MSC Cruises	U32	MSC Divina	STX Europe	2012	X	X	X	X
Norwegian Cruise Line	649	Norwegian Dawn	Meyer Werft	2003			X	
Norwegian Cruise Line	7671	Pride of America	Lloyd Werft	2005			X	
Norwegian Cruise Line	667	Norwegian Jewel	Meyer Werft	2005		X	X	
Norwegian Cruise Line	668	Pride of Hawaii	Meyer Werft	2006		X	X	
Norwegian Cruise Line	669	Norwegian Pearl	Meyer Werft	2006		X	X	
Norwegian Cruise Line	670	Norwegian Gem	Meyer Werft	2007		X	X	
Norwegian Cruise Line	C33	Norwegian Epic	STX Europe	2010	X	X	X	
Oceania Cruises	6194	Marine	Fincantieri	2010	X	X	X	
Oceania Cruises	6195	Riviera	Fincantieri	2012	X	X	X	
Oceania Cruises	31H	Regatta	Atlantique	1998		X		
Oceania Cruises	31I	Insignia	Atlantique	1998		X		
Oceania Cruises	31P	Nautica	Atlantique	2000		X		
Regent Seven Seas	31G	Paul Gauguin	Atlantique	1998		X		
P&O Cruises Australia	6044	Oceana	Fincantieri	2000	X		X	
P&O Cruises Australia	6131	Emerald Princess	Fincantieri	2007	X	X	X	
P&O Cruises Australia	6132	Ventura	Fincantieri	2008	X	X	X	
P&O Cruises Australia	6166	Azura	Fincantieri	2010	X	X	X	
P&O Cruises Australia	31N	Pacific Princess	Atlantique	1999		X		
P&O Cruises Australia	31O	Tahitian Princess	Atlantique	1999		X		
Princess Cruises	5956	Grand Princess	Fincantieri	1998	X		X	
Princess Cruises	5988	Sea Princess	Fincantieri	1998	X		X	
Princess Cruises	6050	Golden Princess	Fincantieri	2001	X		X	
Princess Cruises	31Z	Royal Princess	Atlantique	2001		X		
Princess Cruises	32C	Coral Princess	Atlantique	2002	X	X	X	
Princess Cruises	32D	Island Princess	Atlantique	2003	X	X	X	
Princess Cruises	6051	Star Princess	Fincantieri	2002	X		X	
Princess Cruises	6067	Caribbean Princess	Fincantieri	2004	X		X	

GH » galley water wash hoods, canopies
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FD » fire and gas dampers, fire dampers
N » energy efficiency network in cabin ventilation

Owner	Hull	Name	Shipyard	Year	GH	CV	FD
Princess Cruises	6100	Crown Princess	Fincantieri	2005	X		X
Princess Cruises	6150	Ruby Princess	Fincantieri	2008	X	X	X
Princess Cruises	2180	Sapphire Princess	Mitsubishi	2004		X	X
Princess Cruises	2181	Diamond Princess	Mitsubishi	2004		X	X
Royal Caribbean Cruise Line	655	Radiance OTS	Meyer Werft	2001			X
Royal Caribbean Cruise Line	656	Brilliance OTS	Meyer Werft	2002			X
Royal Caribbean Cruise Line	657	Serenade OTS	Meyer Werft	2003			X
Royal Caribbean Cruise Line	658	Jewel OTS	Meyer Werft	2004			X
Royal Caribbean Cruise Line	1344	Voyager OTS	Kvaerner Turku	1999			X
Royal Caribbean Cruise Line	1345	Explorer OTS	Kvaerner Turku	2000			X
Royal Caribbean Cruise Line	1346	Adventurer OTS	Kvaerner Turku	2001			X
Royal Caribbean Cruise Line	1347	Navigator OTS	Kvaerner Turku	2003	X		X
Royal Caribbean Cruise Line	1348	Mariner OTS	Kvaerner Turku	2003	X		X
Royal Caribbean Cruise Line	1352	Freedom OTS	Kvaerner Turku	2006			X
Royal Caribbean Cruise Line	1353	Liberty OTS	Kvaerner Turku	2007			X
Royal Caribbean Cruise Line	1354	Independence OTS	Aker Turku	2008			X
Royal Caribbean Cruise Line	1363	Oasis of the Seas	STX Finland	2009			X
Royal Caribbean Cruise Line	1364	Allure of the Seas	STX Finland	2010			X

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