



Marine
Ventilation

ELTA

Since 1974, Elta has been a trusted manufacturer of high performance fans for the marine industry, serving pleasure craft, commercial vessels, military ships, and both onshore and offshore applications.

Our fans are engineered to withstand the harshest environments, thanks to carefully selected materials and protective finishes that ensure long-term durability.

Whether for essential or non-essential use, above or below deck. Every solution is tailored to the unique demands of the application.







PRODUCTS

Marine ventilation systems must be robust, compact, and corrosion-resistant to withstand harsh marine conditions while also maintaining energy efficiency and minimising maintenance. Fans are designed and tested to the latest standards, to meet major marine classification authorities such including Lloyds, DNV and ABS, ensuring reliable operation and enhanced crew safety.

Products are available for various supply voltages and frequencies from 12 Volts DC to 440 Volts AC in 50Hz and 60Hz models. Axial, Centrifugal, and Mixed Flow variants can be offered for a wide performance range for applications from engine rooms to secondary ventilation.

EMEC AXIAL FANS

The EMEC Marine axial fan has been designed specifically for use in marine fan applications where maximum performance and compact size are critical, utilising brushless DC technology for low maintenance, low energy consumption and controllability.

Brushless design for **maintenance-free operation**

2 standard sizes; **250 & 315mm** diameter

Air volume flow rates up to **0.658 m³/s**

IP56 Protection Class Motor

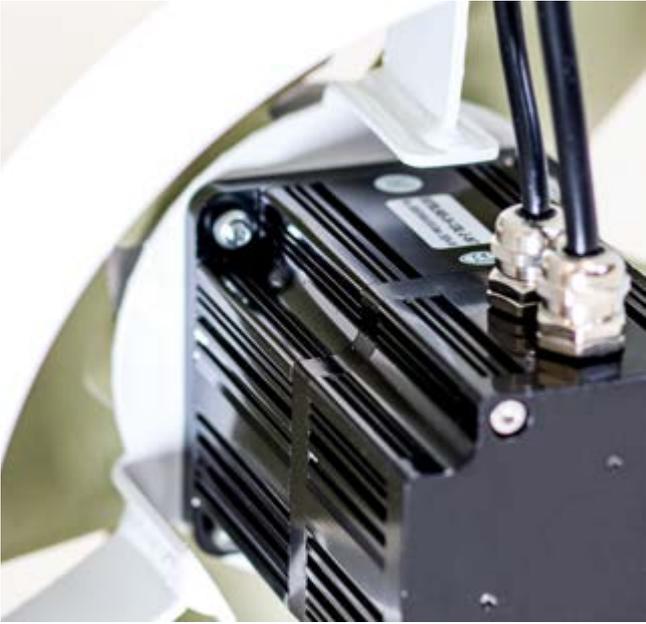
Suitable for operating temperatures up to **40°C**

Static pressures up to **683 Pa**

Control via DC voltage 2 to 10V, or a potentiometer

24V DC Power Supply

Product Code	Control Voltage	Speed r/min	Airflow m ³ /s @ Static Pressure Pa												Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500	Peak Amps			
EMEC-250-H20-A	10V	3570	0.497	0.486	0.474	0.462	0.449	0.422	0.390	0.348	0.274	0.189	0.152	-	10.07	Inlet	64	
																Outlet	65	
	7.5V	3000	0.411	0.398	0.386	0.372	0.358	0.321	0.247	0.171	0.128	-	-	-	6.42	Inlet	60	
																Outlet	60	
	5V	2050	0.276	0.262	0.242	0.212	0.158	0.065	-	-	-	-	-	-	2.34	Inlet	52	
																Outlet	51	
	2.5V	995	0.132	0.064	-	-	-	-	-	-	-	-	-	-	0.49	Inlet	35	
																Outlet	34	
EMEC-250-H27-A	10V	3395	0.616	0.598	0.581	0.565	0.550	0.516	0.476	0.417	0.291	0.208	0.154	-	12.63	Inlet	64	
																Outlet	66	
	7.5V	2885	0.515	0.498	0.480	0.463	0.444	0.397	0.300	0.178	0.119	0.056	-	-	8.37	Inlet	61	
																Outlet	62	
	5V	2000	0.353	0.333	0.306	0.263	0.198	0.084	-	-	-	-	-	-	3.10	Inlet	52	
																Outlet	52	
	2.5V	975	0.165	0.084	-	-	-	-	-	-	-	-	-	-	0.57	Inlet	38	
																Outlet	36	
EMEC-315-H11-A	10V	3420	0.658	0.641	0.625	0.609	0.593	0.558	0.521	0.479	0.431	0.380	0.329	0.234	11.98	Inlet	72	
																Outlet	72	
	7.5V	2850	0.549	0.533	0.515	0.495	0.473	0.424	0.368	0.311	0.254	0.197	0.137	-	7.24	Inlet	68	
																Outlet	67	
	5V	1990	0.382	0.354	0.328	0.299	0.263	0.176	0.097	-	-	-	-	-	2.86	Inlet	58	
																Outlet	57	
	2.5V	980	0.185	0.110	0.036	-	-	-	-	-	-	-	-	-	0.83	Inlet	40	
																Outlet	40	



EMS AXIAL FANS

Axial fan with permanent magnet motor for marine applications, commonly used in engine rooms.

Manufactured from mild steel and epoxy **powder coated** white

2 standard sizes; **250 & 315mm** diameter

Durable product, able to withstand corrosive marine environments

Motors are class F insulation and rated **IP54**

Quiet & efficient in operation

24V DC Power Supply

Easy on-board installation

Product Code	Speed r/min	Airflow SFP	Airflow m ³ /s @ Static Pressure Pa								Electrical Data	dBA @ 3m	
			0	25	50	75	100	150	200	250	Peak Amps		
EMS250-24V-PM	3180	m ³ /s	0.493	0.470	0.444	0.414	0.375	0.200	0.081	-	10.09	Inlet	57
		W / (L/s)	0.35	0.38	0.43	0.48	0.56	1.05	2.89	-		Outlet	56
EMS315-24V-CW	2510	m ³ /s	0.965	0.935	0.906	0.877	0.846	0.774	0.683	0.561	22.67	Inlet	66
		W / (L/s)	0.51	0.53	0.56	0.58	0.61	0.68	0.79	0.79		Outlet	66



VERSALINE VL CENTRIFUGAL INLINE FAN

All metal in-line centrifugal fans which are ideally suited to a wide range of commercial and industrial applications.

They provide the ideal solution for high performance requirements in low airflow, medium pressure systems.

6 standard sizes from **100mm to 315mm**

Air volume flow rates up to **0.34 m³/s**

Static pressures up to **484 Pa**

Suitable for operating temperatures up to **+50°C**

230V Single Phase 50Hz

Speed Controllable

Product Code	Speed r/min	Airflow SFP	Airflow m ³ /s @ Static Pressure Pa											At Best Efficiency Point		Electrical Data		dBA @ 3m
			0	25	50	75	100	150	200	250	300	350	400	Overall Eff %	Input kW	Peak Amps		
VL100	2725	m ³ /s	0.060	0.053	0.047	0.040	0.033	-	-	-	-	-	-	13.5	0.025	0.14	Inlet	42
		W/(L/s)	0.42	0.47	0.53	0.61	0.73	-	-	-	-	-	-				Outlet	37
VL125	2690	m ³ /s	0.059	0.054	0.048	0.041	0.031	0.014	-	-	-	-	-	12.6	0.026	0.14	Inlet	43
		W/(L/s)	0.43	0.47	0.53	0.62	0.80	1.79	-	-	-	-	-				Outlet	38
VL150	2595	m ³ /s	0.130	0.125	0.120	0.115	0.108	0.094	0.078	0.060	0.039	0.001	-	25.2	0.062	0.28	Inlet	52
		W/(L/s)	0.49	0.52	0.53	0.55	0.56	0.62	0.70	0.85	1.20	44.13	-				Outlet	50
	2300	m ³ /s	0.112	0.108	0.101	0.092	0.081	0.065	0.051	0.036	0.015	-	-	20.3	0.051	0.26	Inlet	49
		W/(L/s)	0.48	0.52	0.55	0.59	0.64	0.75	0.86	1.08	2.15	-	-				Outlet	47
	2120	m ³ /s	0.090	0.081	0.065	0.055	0.049	0.038	0.029	0.017	-	-	-	13.0	0.045	0.25	Inlet	46
		W/(L/s)	0.59	0.67	0.85	0.97	1.04	1.21	1.43	2.06	-	-	-				Outlet	44
VL200	2565	m ³ /s	0.243	0.235	0.227	0.218	0.210	0.193	0.175	0.155	0.133	0.106	0.070	38.4	0.104	0.46	Inlet	46
		W/(L/s)	0.39	0.43	0.46	0.48	0.48	0.50	0.51	0.51	0.51	0.63	0.96				Outlet	45
	2395	m ³ /s	0.225	0.217	0.208	0.199	0.188	0.166	0.141	0.117	0.091	0.065	0.036	30.8	0.088	0.43	Inlet	44
		W/(L/s)	0.34	0.45	0.50	0.52	0.50	0.50	0.51	0.57	0.73	1.03	1.89				Outlet	43
	2100	m ³ /s	0.206	0.199	0.190	0.179	0.164	0.132	0.104	0.078	0.053	0.030	0.013	22.4	0.092	0.43	Inlet	42
		W/(L/s)	0.42	0.46	0.50	0.53	0.56	0.67	0.78	0.91	1.05	1.59	3.66				Outlet	41
VL250	2555	m ³ /s	0.232	0.225	0.218	0.211	0.203	0.186	0.168	0.146	0.122	0.092	0.056	35.3	0.105	0.48	Inlet	47
		W/(L/s)	0.42	0.46	0.48	0.50	0.51	0.53	0.55	0.57	0.62	0.79	1.31				Outlet	46
	2295	m ³ /s	0.216	0.208	0.199	0.189	0.179	0.156	0.131	0.104	0.077	0.049	0.018	26.5	0.100	0.45	Inlet	44
		W/(L/s)	0.43	0.47	0.51	0.53	0.55	0.60	0.67	0.75	0.88	1.29	3.42				Outlet	43
	2115	m ³ /s	0.204	0.194	0.184	0.172	0.158	0.127	0.099	0.075	0.052	0.030	-	20.2	0.099	0.44	Inlet	43
		W/(L/s)	0.45	0.49	0.54	0.58	0.62	0.74	0.88	1.04	1.25	1.98	-				Outlet	41
VL315	2190	m ³ /s	0.342	0.327	0.312	0.297	0.283	0.254	0.224	0.190	0.153	0.111	0.070	30.6	0.156	0.69	Inlet	46
		W/(L/s)	0.42	0.46	0.49	0.52	0.55	0.61	0.66	0.72	0.80	1.02	1.61				Outlet	47
	1965	m ³ /s	0.323	0.301	0.283	0.266	0.250	0.215	0.175	0.127	0.082	0.051	0.030	24.5	0.144	0.66	Inlet	44
		W/(L/s)	0.40	0.45	0.49	0.54	0.58	0.66	0.78	0.99	1.33	1.94	3.32				Outlet	44
	1785	m ³ /s	0.299	0.284	0.267	0.246	0.220	0.163	0.118	0.085	0.060	0.040	0.023	17.6	0.139	0.64	Inlet	42
		W/(L/s)	0.42	0.46	0.51	0.57	0.63	0.84	1.10	1.37	1.64	2.17	3.77				Outlet	43

LONG & SHORT CASED AXIAL FANS

Axial Fan experts since 1974

Known for our reliability and efficiency, our Axial fans can be found across the globe in a wide array of applications.

Available in diameters ranging from 150mm to 2000mm, these fans are ideal for ventilating engine rooms, crew quarters, and other onboard spaces.

Custom Build Capability

Our engineering team collaborates closely with our customers to develop bespoke solutions tailored to specific marine requirements, including compliance with major marine classification authorities.

- 17 diameters available from 315mm to 2000mm.
- High aerodynamic efficiency.
- A wide range of nominal speeds can be provided.
- Standard speeds from 2 to 8 pole, alternative speeds including 2 speed options are available.
- A wide range of impeller hub sizes and impeller blade combinations.
- Numerous performance variations are available.
- Minimum IP55 protection, others on application.
- 220-240 Volts / 1 Phase - 50 & 60 Hz.
- 220-240 / 380-415 Volts - 3 Phase 50 Hz.
- 440-480 Volts - 3 Phase 60 Hz.
- 690 Volts - 3 Phase 60Hz.
- Other voltages are available on request.
- Standard operating temperature range -20°C to + 54°C (standard models) up to 1000m above sea level.









APPLICATIONS

Our marine fans can be manufactured to meet the requirements of the major marine classification authorities including Lloyds, DNV and ABS.

We offer custom-built fans for special requirements, along with standard axial cased fans for wider ventilation applications including engine rooms. applications including engine rooms.

APPLICATIONS & MANUFACTURING

Stay safe, improve engine lifespan, and navigate with confidence.

Our marine fans are designed in close cooperation with marine architects. From leisure boats to battleships, our marine fans are built to withstand the most rigorous conditions.

Typical applications include:

Vehicle decks

Leisure craft

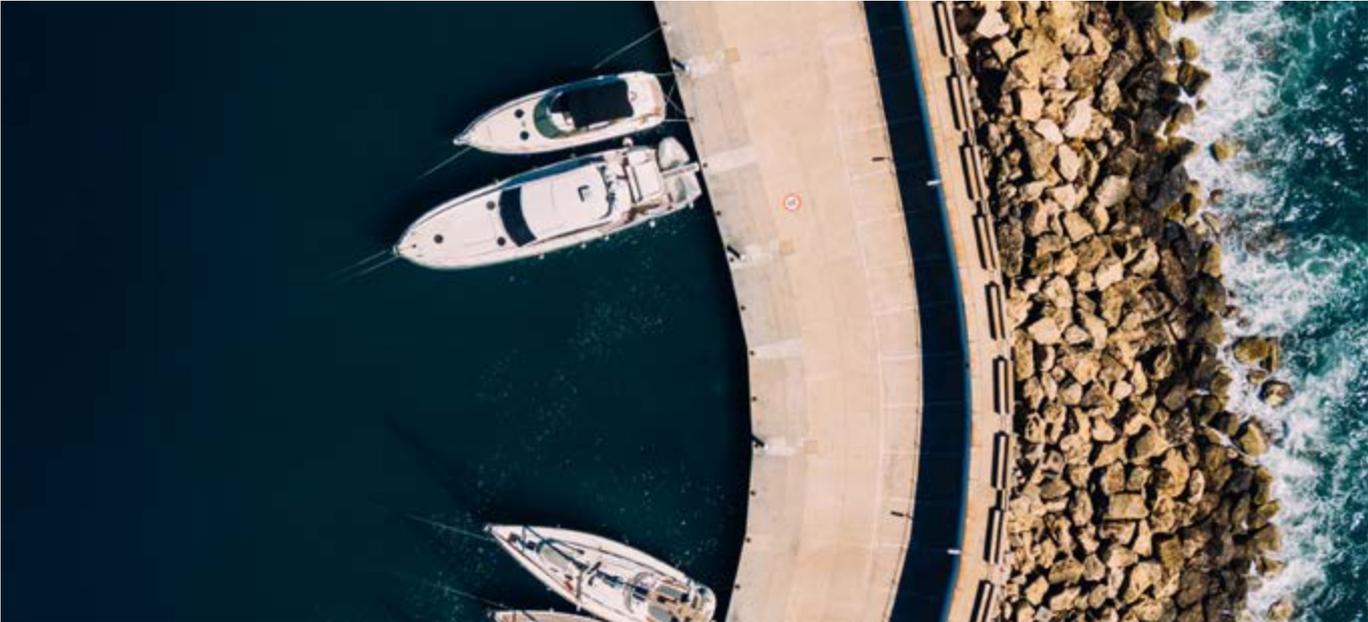
Cruise Ships

Cargo & container holds

Livestock transport

Engine rooms

Machinery rooms



TRULY BRITISH MANUFACTURED PRODUCTS

Since 1974, Elta has been at the forefront of creating top-quality fans through technical innovation, quality manufacture, and exceptional customer service. Fan manufacturing forms the core of our business, and is the heartbeat of our products. We pride ourselves on providing a comprehensive range of industrial, commercial, and domestic ventilation products directly from stock, and we also offer an extensive selection of standard and specialist products, ranging from ATEX requirements, to car park ventilation, and emergency extract applications.

Our commitment to manufacturing excellence extends beyond fans. We have the expertise and capability to design and manufacture acoustic solutions, control panels and a full range of fan accessories tailored to meet the unique requirements of any application. At Elta, versatility and precision define our manufacturing capabilities, ensuring we deliver optimal solutions for all your projects.

With our manufacturing sites located across the UK and Europe, we pride ourselves on unbeatable lead times, ensuring that your projects are executed efficiently by our own exceptional team.



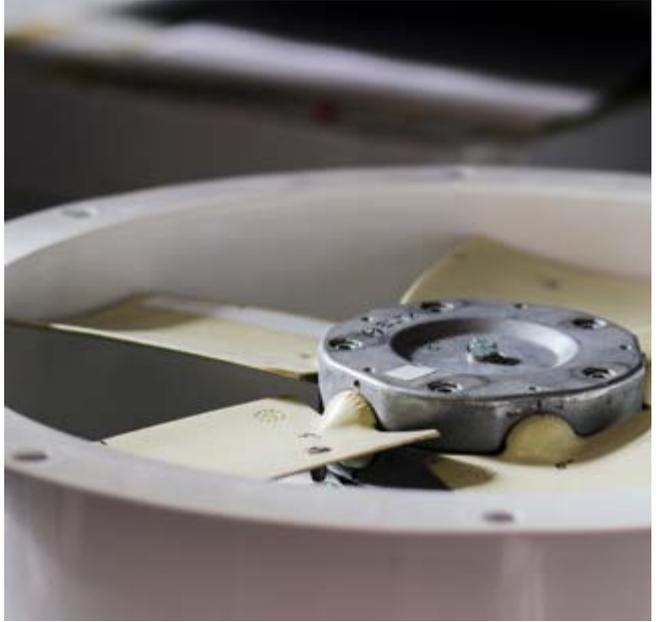
ENGINEERED PRODUCTS OF THE HIGHEST STANDARD

Our stringent quality standards allowed us to become one of the first fan companies to be granted the BS EN ISO 9001 certification. Today, all of our products are designed and manufactured to the latest BS EN ISO standards.

Prior to dispatch, our products are end-of-line tested to ensure that they meet the highest of standards.

For product development, our own dedicated test facilities are AMCA accredited and products are tested to BS EN ISO 5801 (Airflow Performance), BS EN ISO 5136 (Sound Performance) and BS ISO 13347-2 (Reverberation Room Method).

This testing process enables us to confidently provide accurate performance and sound data. Products are always fully conformity marked in line with the applicable legislation and standard requirements.



ACCREDITATIONS

Elta are committed to conforming to the highest standards. We hold a number of internationally recognised accreditations and certifications, including:

BS EN ISO 9001

Kite Mark – BS EN12101-3

IECEX

ATEX

CompEX

We are also active members of professional organisations that help to shape and direct the research, legislation, trends and issues of the present and future:

FETA

FMA

EVIA

HEVAC Association

BSRIA

AMCA

Smoke Control Association

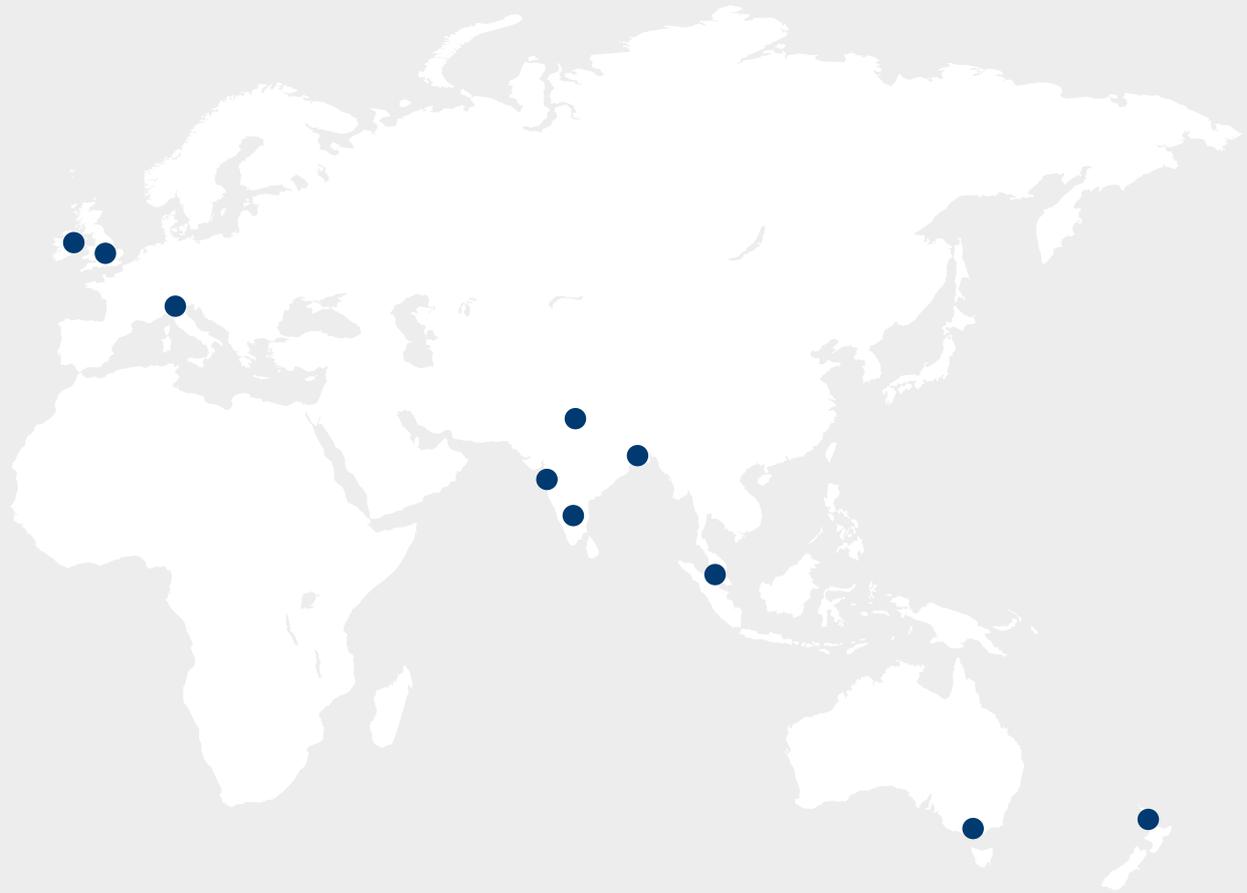
BCIA

All welders are coded to the following:

ASME Boiler & Pressure Vessel Code – Section IX (welding procedure qualification records & individual welder performance qualifications)

BS ISO 15614-1:2004 A2:2012 (welding procedure qualifications records)

ISO 9606-1:2013 (individual welder performance qualifications)



PART OF ELTA GROUP

Across all of our people, in all of our businesses, on all continents on which we operate, Elta Group has one purpose: To enhance life through air.

Since 1996, **Elta Group** has expanded over 3 continents to become an international group of businesses specialising in air movement, air quality & essential equipment. We are a proudly independent, family-owned group and our foundations were built on an entrepreneurial spirit and a clear vision of meeting market needs and improving air quality. These have seen us become a leader in high-integrity solutions for applications in agriculture to building services, to industrial and OEM. We're never standing still, always living and breathing our cause, and looking to the horizon.



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A MEMBER OF  ELTA GROUP