



“excellence in engine room ventilation systems”



**Product Brochure**



## OUR SERVICES

Marine Air Flow manufacture ventilation systems for use in both the marine industry and commercial plant & equipment rooms.

Our products are Australian made and are packaged and shipped worldwide. Our easy to install systems include:

- Moisture and dust reducing air intake grilles
- AC & DC Fans
- Air Dampers
- Air-On-Demand (auto fan speed controllers)

## OUR MISSION

We aim to produce quality, reliable engine room ventilation equipment for our clients, that is developed using innovative technologies & sustainable systems. We will be proud to contribute to the economic and social health of our local & global clients & community.

By continuously striving for excellence we will offer our clients long term solutions that deliver beyond expectations.

## OUR STORY

Marine Air Flow International was established in 2005 with the primary purpose of engineering a product to enable better engine room operating conditions. The added advantage of promoting a safer working environment for all those working in the marine industry, and the ability to support greater environmental operational practices is also of high importance to us.

We are a business that knows first hand the problems experienced in an engine room environment and how best to combat the issue of salt and water induction into this operating space.

Our products are Australian made and are packaged and shipped worldwide from our factory on the Gold Coast, Queensland.

## OUR SUSTAINABILITY

We are very proud of our how green we as a company, and how green our products are.

- Our factory is also our home so we have eliminated the dreaded daily "commute"
- We have solar power that generates more than we can use on a monthly basis
- All our scrap is recycled
- Our products help our clients to save on both fuel economy and operating efficiency



## GRILLES

Air intake grilles that remove the salt laden moisture from the air being inducted into your engine room.

## FANS

AC & DC fans for your plant or engine room that assist with not only ventilation but help to alleviate heating challenges.

## AIR DAMPERS

Semi-automatic or remote activated fire flaps (air dampers) to limit oxygen supply to your engine room.

## AIR-ON-DEMAND

Fully automated controller designed to regulate the speed of your engine room fans. Can be bridge controlled with a simple selector switch.

## COMBO SYSTEMS

Our air intake, outlet, fans, dampers and controller components can be combined into a complete engine room ventilation system.



### AC/DC High Volume Fans



#### Best Suited For:

AC/DC high volume engine room fans will suit higher volume and higher pressure situations and applications.

These fans are designed for a longer service life and will be suitable for larger engine rooms with high levels of running time.

### Compact DC Fans



#### Best Suited For:

Dc Fans have a smaller footprint and physical volume making them ideal for tight locations. They are significantly more cost effective, easier to install and wire.

They can be banked (multiple fans installed together) for larger applications although in this situation our AC Fans would probably be a better option.

#### FEATURES

Sizes	Materials	Finish	Extras
390x390mm	Housing: Marine grade aluminium. Impellers: Synthetic	Supplied powder coated to your selected color.	Variable speed controls. (Air-On-Demand)
490x490mm			
590x590mm			
850x850mm			

Due to the air volume produced this can result in high levels of noise. This can be easily overcome by the use of air-on-demand variable speed drive controls. These controls are fully automatic and preprogrammed to suit the application. Available as an option.

#### FEATURES

Sizes	Materials	Finish	Extras
9" (250x250mm)	Housing from fibre reinforced plastic. Synthetic impellers	Black.	Can be banked together.
12" (340x340mm)			

Due to the air volume produced this can result in high levels of noise. This can be easily overcome by the use of air-on-demand variable speed drive controls. These controls are fully automatic and preprogrammed to suit the application. Available as an option.



## Air Intake Separator Grilles



Salt spray and mist in your engine room has traditionally been one of the most difficult issues to control. Now with Marine Air Flow moisture reducing air intake grilles, you can remove the problem altogether.

Air is drawn into the face of the grille. The moisture laden air then passes through a system of vanes which trap the moisture in the air and cause it to run vertically down the face of the vanes and then be expelled via the external drain.

## Stainless Steel Air Dampers

We can manufacture and supply Air Dampers (Fire Flaps) either in conjunction with our intake grilles, or supplied on their own.

They can be mounted immediately rear of the grilles, within the ductwork itself, although ideally the best application is to mount on the bulkhead or deck head penetration.

This allows structural fire protection to be easily fitted directly to the damper for survey purposes.



### FEATURES

Sizes	Materials	Finish	Extras
Made to order in almost any shape and/or size.	100% aluminium with no dis-similar metals.	Acid stripped and dipped. Chromated and powder coated to chosen color.	Custom colors available at additional cost.

Grilles are able to be designed and manufactured to suit internal locations which will ensure they remain concealed, however, this involves additional internal plumbing by the ship builder.

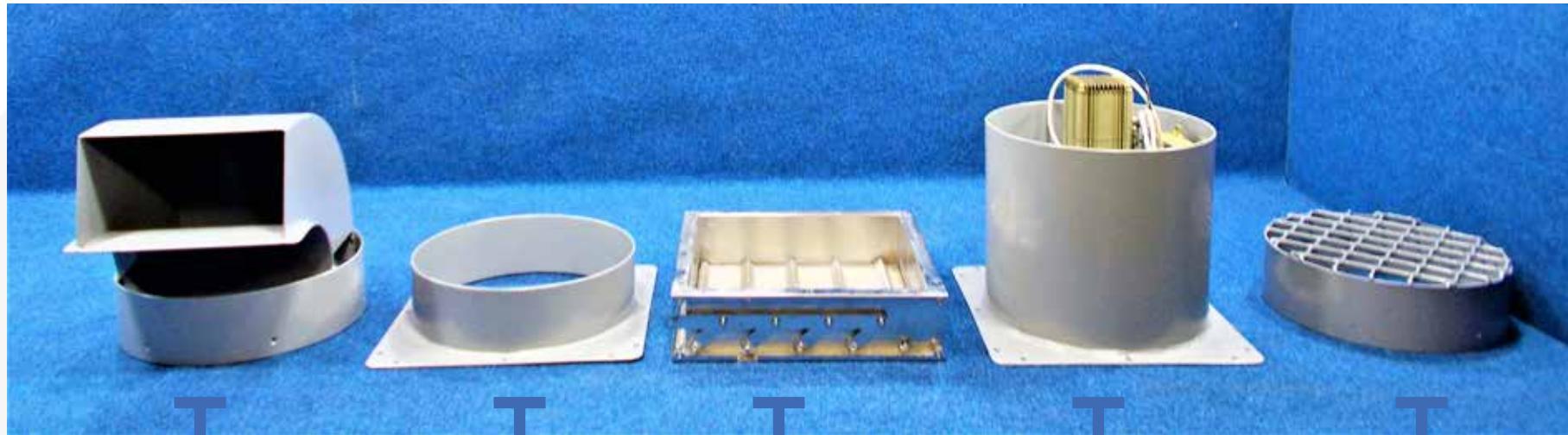
### FEATURES

Sizes	Materials	Finish	Extras
Matches fan and accessory footprint	Stainless steel 316 marine grade. Fully welded.	Electropolished.	24v actuators.

Stainless steel dampers are supplied standard with a manual actuation and installation kit, however, a 24 volt DC actuator can be supplied as an option.



## Accessories and Adaptors



Adjustable Air Diverter

Diverter adapter.

Air Damper (fire flap)

AC/DC Fan Housing

Finger Guard

We can supply air diverters, adapters, housings and finger guards for all our products. A full system ensures you meet the safety standards you are required to, and are able to make the most of your system by diverting air flow to the necessary parts of your engine room, ensuring the best possible results.



## Testimonials

### John - Maratimo Boat Owner

Today I gave them quite a work out, I had the trim all out of shape for around 10 minutes (my brain was working backwards) in quite bad conditions, heading nose on at 31 knots (yes I had the boat going way too fast). With the windscreen wipers running flat out, you still could not see ANYTHING!!!!.

There was so much water, I am sure we must have looked like a Sub!!!.

We checked the back of the grills and in the box area between that and the grill into the engine room, there was ABSOLUTELY NO MOISTURE at all, ANYWHERE!!!. NONE ZERO, bone dry. Fantastic and actually quite amazing.

### Craig Finlay - Murrifin

We had the final Cat sea trial yesterday.

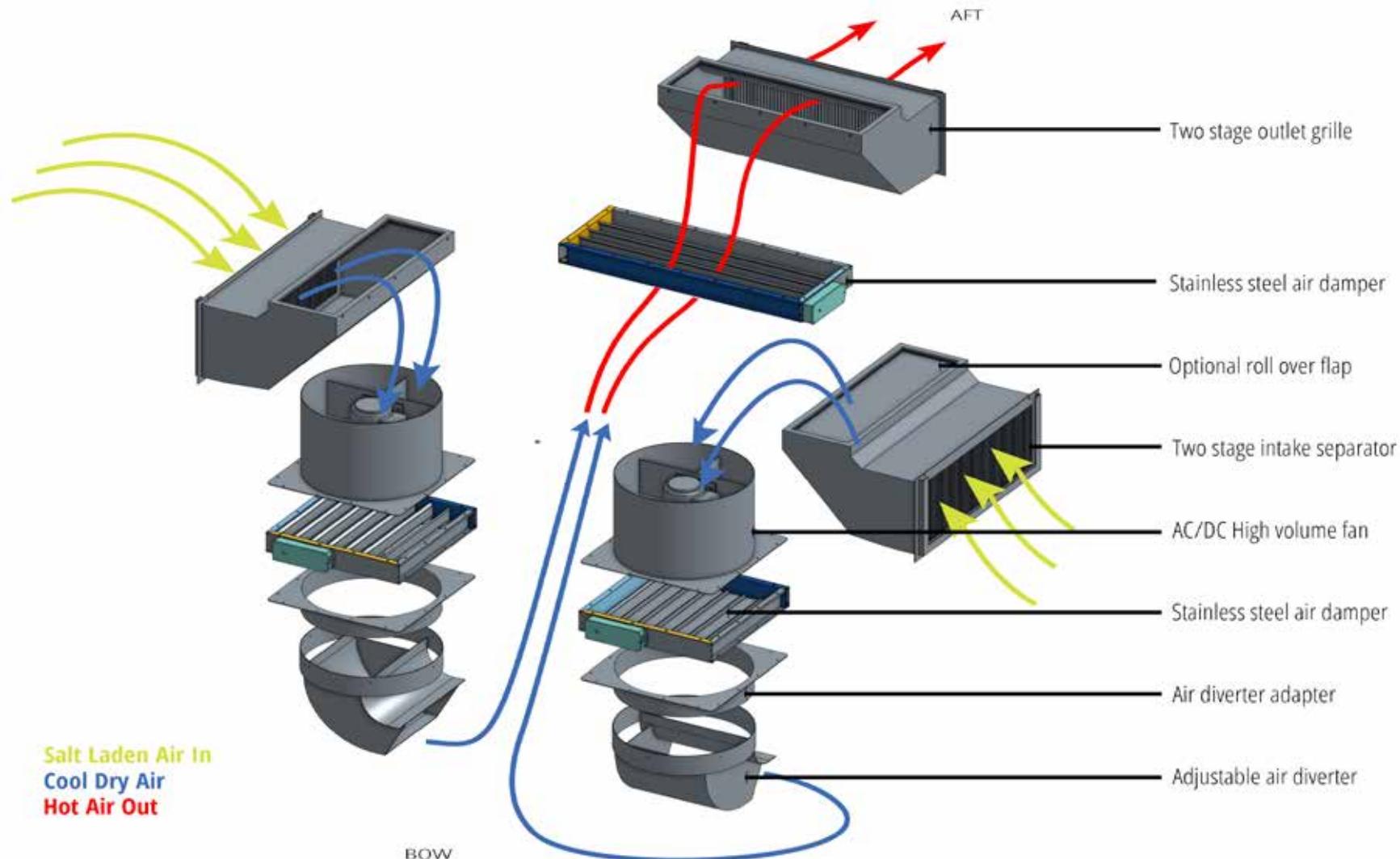
Engine room temps have dropped significantly. On the first sea trial temps were in the mid 50C mark and the engines were struggling for air at max revs which limited max revs to about 2470rpm when spec is 2500rpm.

Yesterday boat easily pulled 2550rpm, engine room temps through the entire range were around the 35 -38C deg which is an excellent result!

Also on Sunday we had a wet trip home with a heap of spray, when we got in there was basically no water or spray to be found other than a little from one of the shaft seals, thanks for your assistance through the project, the results are outstanding and I'm sure in the long run the investment in the grills will reduce maintenance in the engine room.



## PILOTS, TUGS, WORKBOATS & FERRIES | system flow chart





Built for extreme conditions

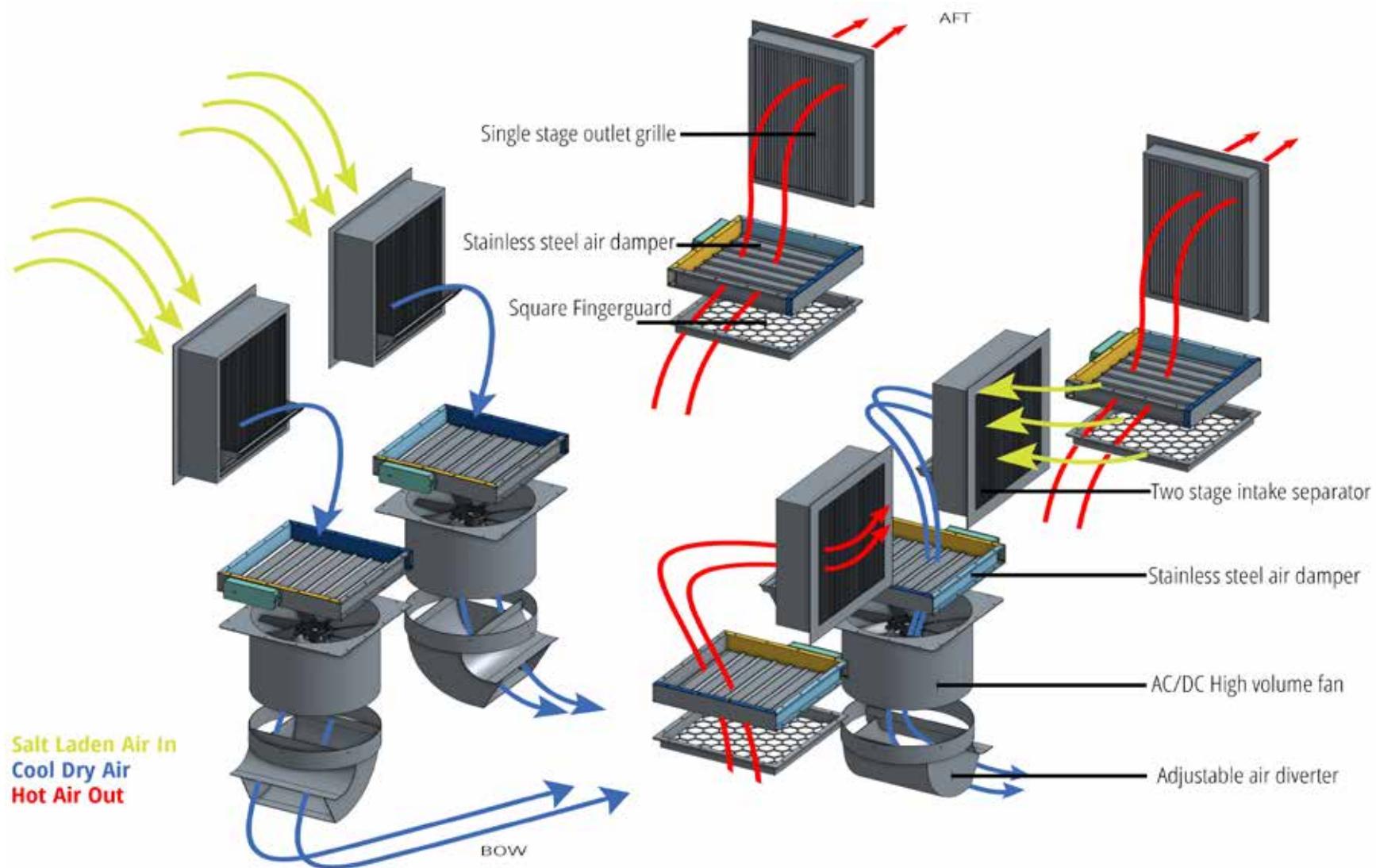
Optional Rollover Flaps available

Survey compliant





# COMMERCIAL FISHING, TRAWLER & RESEARCH VESSELS | system flow chart





Improve fuel economy

Better operating conditions for crew

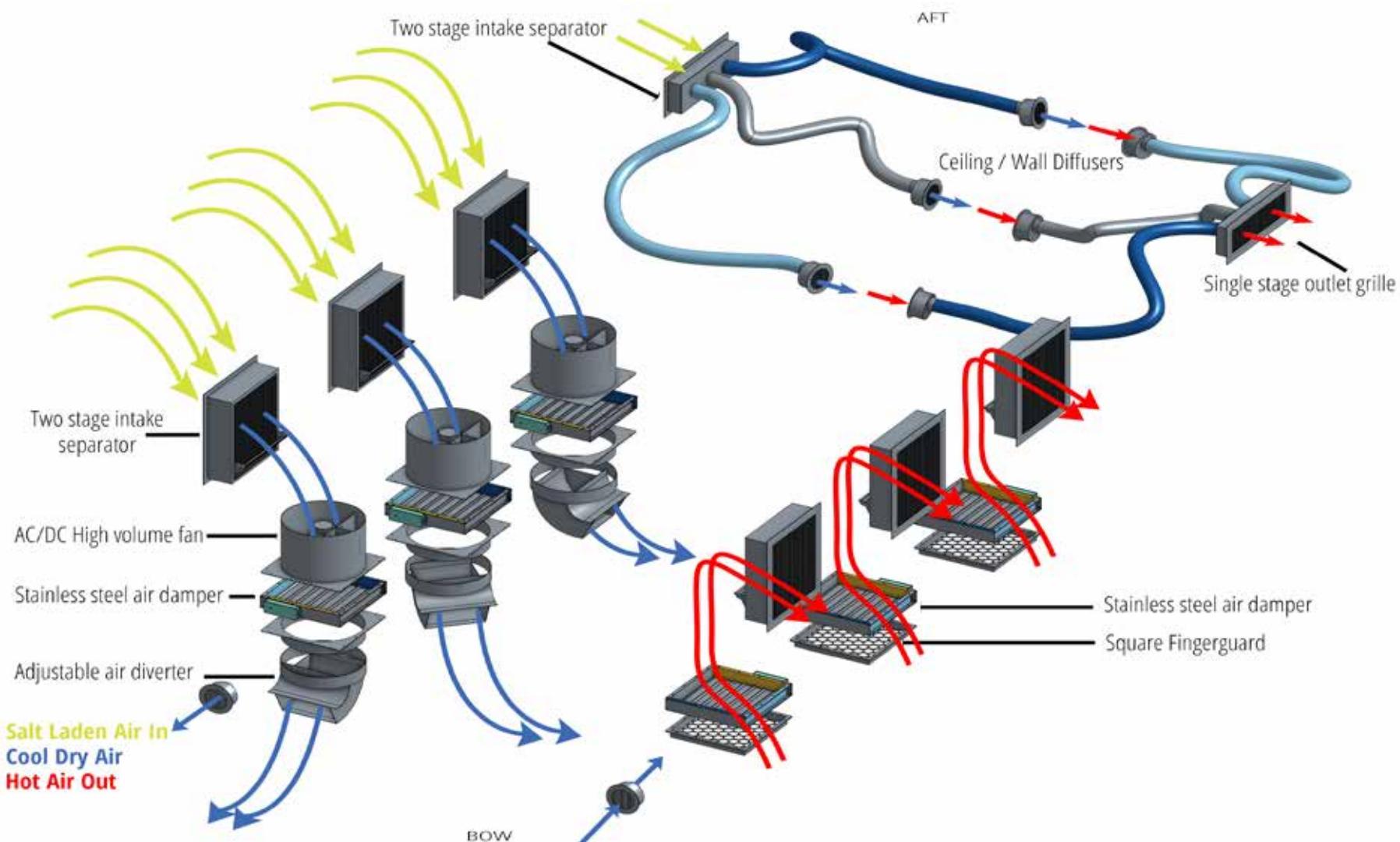
Systems for engine, plant and equipment rooms

Suitable for anything from Artic to tropical conditions





## LUXURY MOTOR YACHTS | system flow chart





Color matching  
available

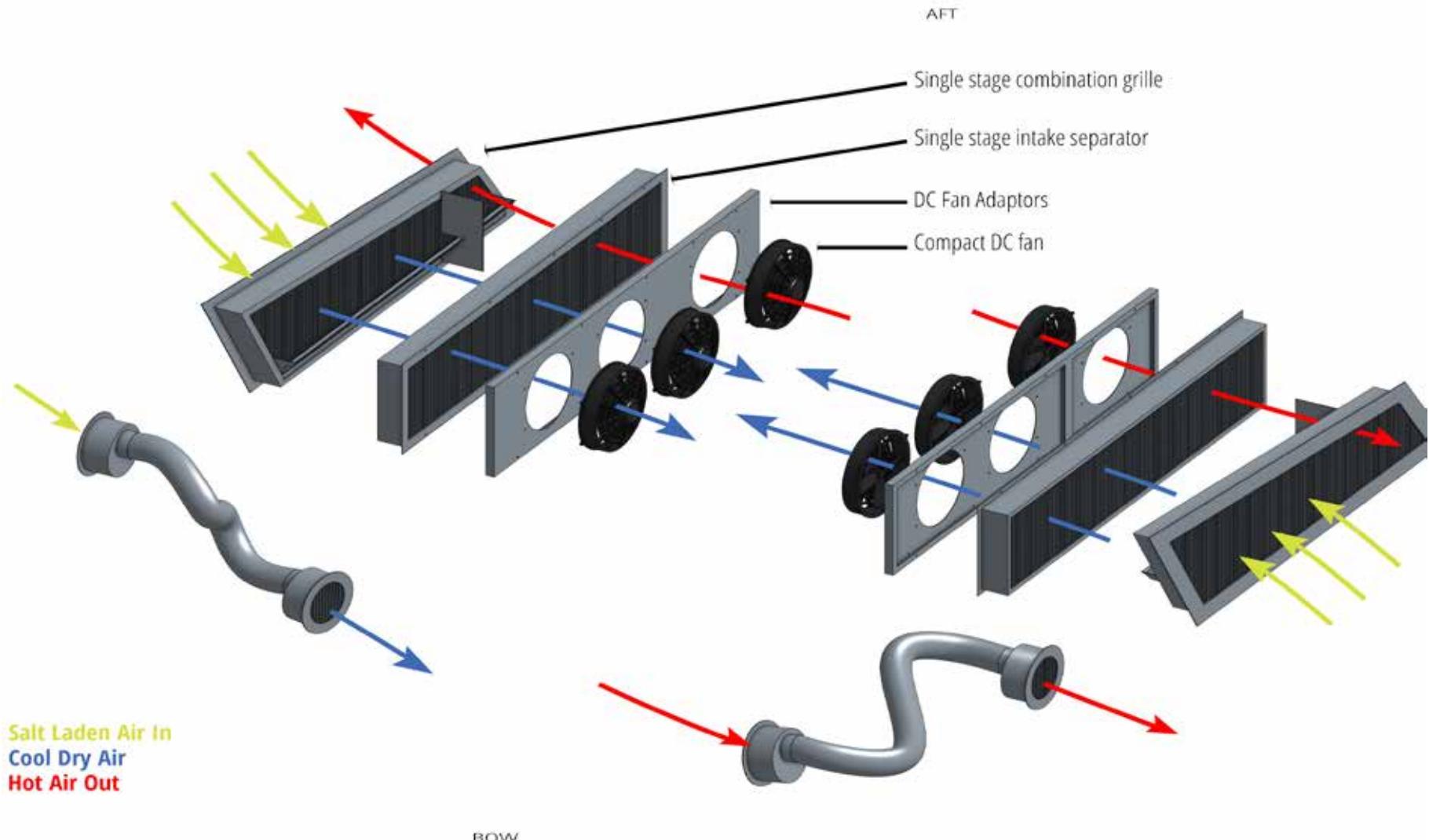
Concealed design  
possible

Systems for engine,  
plant and equipment  
rooms





## RECREATIONAL VESSELS | system flow chart





Color matching  
available

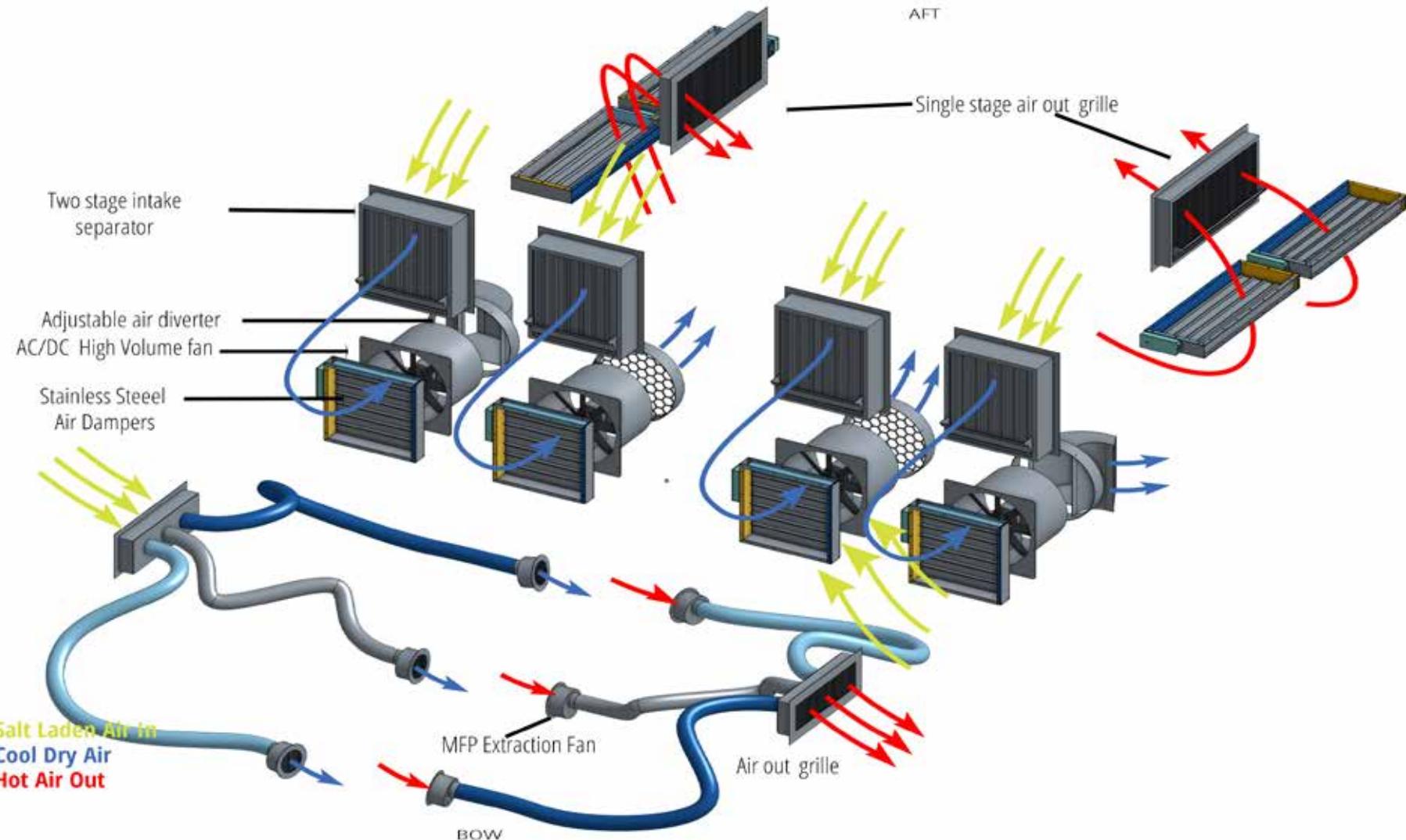
Supplied with full  
installation kit and  
instructions

Extends equipment  
lifespan





# COAST GUARD, CREW & RIG TENDERS, MILITARY CRAFT | system flow chart





Multi stage systems  
available

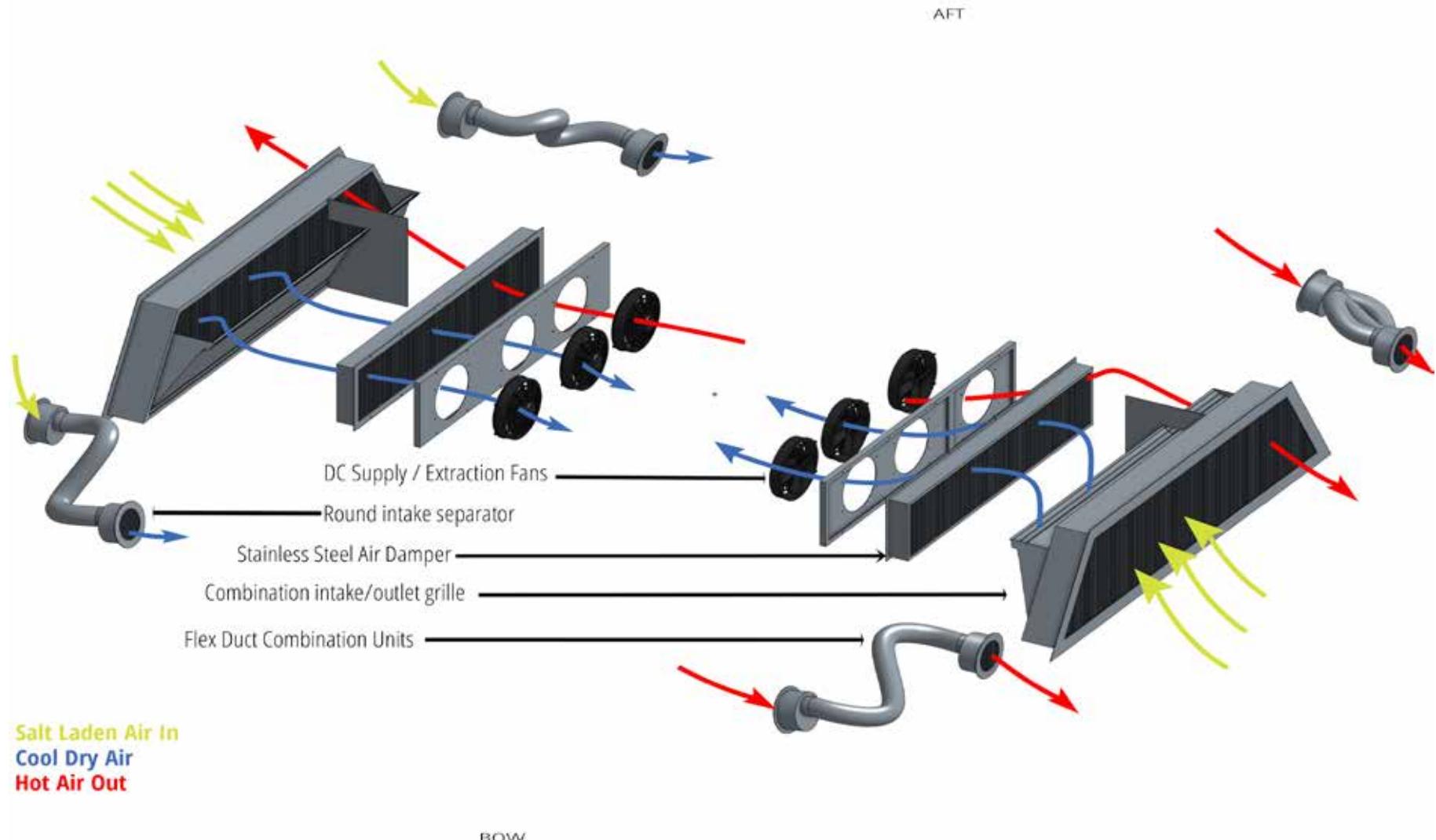
Air-On-Demand con-  
trollers (fan speed  
controls)

Mounting plates,  
adaptors and safety  
equipment available





## SAILING CRAFT | system flow chart



**Salt Laden Air In**  
**Cool Dry Air**  
**Hot Air Out**

BOW



Vessel assessments  
available

Retro fit systems  
possible

Designed to suit  
existing vessels or  
new builds



- obligation free quotes
- worldwide shipping
- on site vessel appraisals

Engine room ventilation systems that work when it matters!

**www.marineairflow.com**



**P:** +61 400 714 803  
+61 428 301 700  
**E:** [info@marineairflow.com](mailto:info@marineairflow.com)  
**E:** [office@marineairflow.com](mailto:office@marineairflow.com)

35 Paradise Ave  
Miami, QLD 4220  
AUSTRALIA

 **MAFI**  
Marine Air Flow International