

Moisture Eliminators

Barclay Mist Eliminator

Mist or Moisture Eliminators remove humidity from moving air. Typically they are used where there is a high likelihood of rain or moisture being drawn into a ventilation system through the air intake vents. The specially designed blade captures the moisture and drains it away in carefully designed drain channels so as no moisture is carried back into the air stream. The Barclay moisture eliminators can be design and manufactured in a range of shapes, sizes and colors to suit your vessel. Also available with coalescent pads.

APS AROSIO

Modular flexible and made of different materials, the Arosio Moisture Eliminators represent the most effective system to remove humidity. Thanks to their blade profile made of polypropylene they ensure a constant efficiency.

The polypropylene-bladed moisture eliminators are specially designed to meet many requirements in air treatment. The screwed extruded aluminium frame is extremely solid and gives sturdiness to the whole system. Also available with/without bottom drains.

Materials Used

- **Blades** polypropylene + talc / extruded aluminium
- **Distance- Setting Profile** polypropylene, pitch **25mm** and **33mm**
- **Vertical Closing Profile** polypropylene
- **Frame** extruded aluminium

Technical Data and Applications

- **PSG10 (170mm Blade)**
- Polypropylene / Aluminium
- Air straighter, open- air intakes
- Pitch **25mm** or **33mm**
- Face velocity **2-6m/sec**
- Temp **20°C / 95°C**
- **PSG20 (150mm Blade)**
- For larger quantities of water in the air
- Polypropylene
- Pitch **25mm** or **33mm**
- Face velocity **1-4m/sec**
- Temp **20°C / 95°C**
- **PSG30 (101mm Blade)**
- Polypropylene / Aluminium
- With cooling coils
- Pitch **25mm** or **33mm**
- Face velocity **2-5m/sec**
- Temp **20°C / 95°C**



Moisture Eliminator Which has been installed on an Acoustic Enclosure



Moisture Eliminator Which has been installed on an Acoustic Enclosure

BARCLAY'S SPRAY MIST ELIMINATORS DRAMATICALLY REDUCE BELOW DECK CORROSION



Water and salt spray carried on board with inlet air is a major source of corrosion on board any vessel. While salt-water spray is more serious, even fresh water spray will cause corrosion, increased maintenance, and damage to engines, accessory equipment and furnishings.

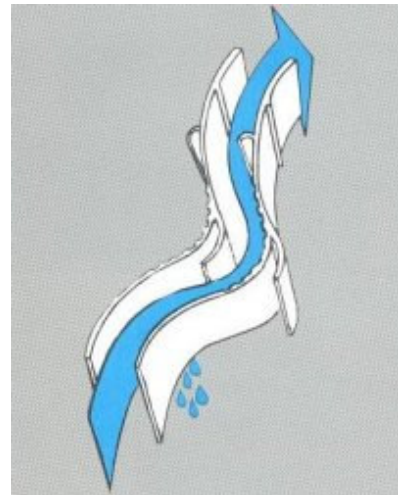
Barclay's marine mist eliminators installed at air inlets or in inlet ducts, ensure the air brought aboard is free from corrosion causing mist and spray. Non-metallic mist eliminator profiles are available in solid black or white material, giving you the ability to match most colour schemes and eliminating the need for painting.

BARCLAY'S SPRAY MIST ELIMINATORS PROFILES

Barclay's marine mist eliminators are assembled in modules, as shown, prior to installation in the vessel. Our custom design and fabricating team can fit available inlet openings on most vessels, whether it be pleasure yachts, fishing vessels, passenger ferries, crew boats, military vessels or tug boats. The system can be used for both engine room ventilation and dedicated engine combustion air for any type of propulsion engine or auxiliary power unit. Barclay Engineering understands how important unrestricted air flow is to engines and on board equipment. Restricted air flow to engines causes loss of power, increase in smoke and emissions and wastes precious fossil fuel.

Barclay marine mist eliminators are designed to operate with minimum pressure drop, thus ensuring that airflow is not unduly restricted, and engines and equipment are not starved for critical air. The patented aerodynamic shape of Munters' profile installed in the Barclay mist eliminators has been especially developed to minimize water and salt spray entry and maximize the airflow.

Barclay Engineering horizontal flow Mist Eliminators are available as single or multi-stage units. Single stage units remove heavy spray and rain with minimum flow restriction. Multi-stage units are suited for the exceptionally heavy spray and "green water" service. They can incorporate coalescer pads for increased removal of dry solids and liquid droplets down to 1-micron diameter.



Barclay Mist Eliminators allow inlet air to turn and pass between the profiles with minimum restriction. Drops impact the profile surface where they are collected and drained.



IT MAKES SENSE TO PROTECT YOUR INVESTMENT

Reduce maintenance costs, preserve your vessel's appearance and ultimately ensure reliable operation for the safety of your vessel, passengers and crew.

It's simple magic! Use the Barclay marine air mist eliminator system.

BARCLAY'S MARINE MIST ELIMINATOR FOR AIR INLET MIST REMOVAL

- Reduce maintenance costs
- Custom designs available to fit your vessel
- Minimum airflow restriction
- Specified by quality boat builders and designers
 - Eliminate salt and water
- Proven in over ten years of mist from your engine room use at sea
 - Environmentally sound



THE DATA AND SUGGESTIONS CONTAINED HEREIN ARE BASED ON INFORMATION MUNTERS BELIEVES TO BE RELIABLE. THEY ARE OFFERED IN GOOD FAITH, BUT WITHOUT GUARANTEE, AS CONDITIONS AND METHODS OF USE ARE BEYOND OUR CONTROL. WE RECOMMEND THAT THE PROSPECTIVE USER DETERMINE THE SUITABILITY OF OUR PRODUCTS BEFORE ADOPTING THEM ON A COMMERCIAL SCALE.

AHU COMPONENT - MOISTURE ELIMINATORS



Modular, flexible and made of different materials, the Arosio Moisture Eliminators represent the most effective system to remove humidity. Thanks to their blade profile made of polypropylene they ensure a constant efficiency.

The polypropylene-bladed moisture eliminators are specially designed to meet many requirements in air treatment. The screwed extruded aluminium frame is extremely solid and gives sturdiness to the whole system. Also available with/without bottom drains.



MATERIALS USED

- **BLADES** polypropylene + talc / extruded aluminium
- **DISTANCE-SETTING PROFILE** polypropylene, pitch 25 mm and 33 mm
- **VERTICAL CLOSING PROFILE** polypropylene
- **FRAME** extruded aluminium

TECHNICAL DATA AND APPLICATIONS

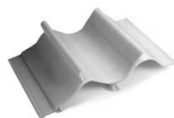
PSG10 (170mm blade)

- Polypropylene / Aluminium
- Air straightner, open-air intakes
- pitch 25 mm or 33 mm
- face velocity 2-6 m/sec
- temp -20°C / 95°C



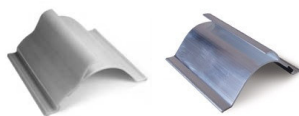
PSG20 (150mm blade)

- For large quantities of water in the air
- Polypropylene
- pitch 25 mm or 33 mm
- face velocity 1-4 m/sec
- temp -20°C / 95°C

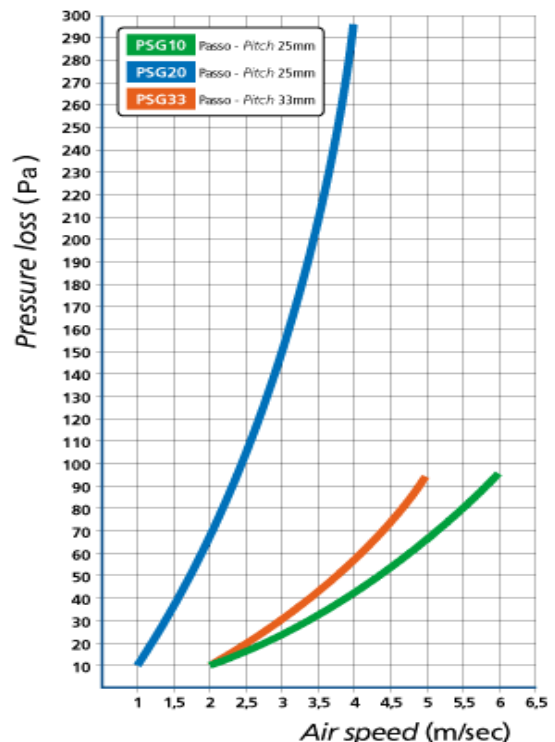


PSG33 (101mm blade)

- Polypropylene / Aluminium
- With cooling coils
- pitch 25 mm or 33 mm
- face velocity 2-5 m/sec
- temp -20°C / 95°C



PRESSURE LOSS GRAPH



For further information and a quote to suit your application, please contact us

Technical data sheet material EXTRUSION ALUMINIUM

6060 T6 EN AW 6060

Corrispondenza fra normative / *Compliance with standards*

USA	Italia / Italy	Germania / Germany		Francia / France	Gran Bretagna / Great Britain	Svizzera / Switzerland
A.A.	UNI	DIN	W.N.	Afnor	B.S.	S.N.
6060	EN AW 6060	AlMgSi0,5	3.3206	6060	6060	AlMgSi0.5

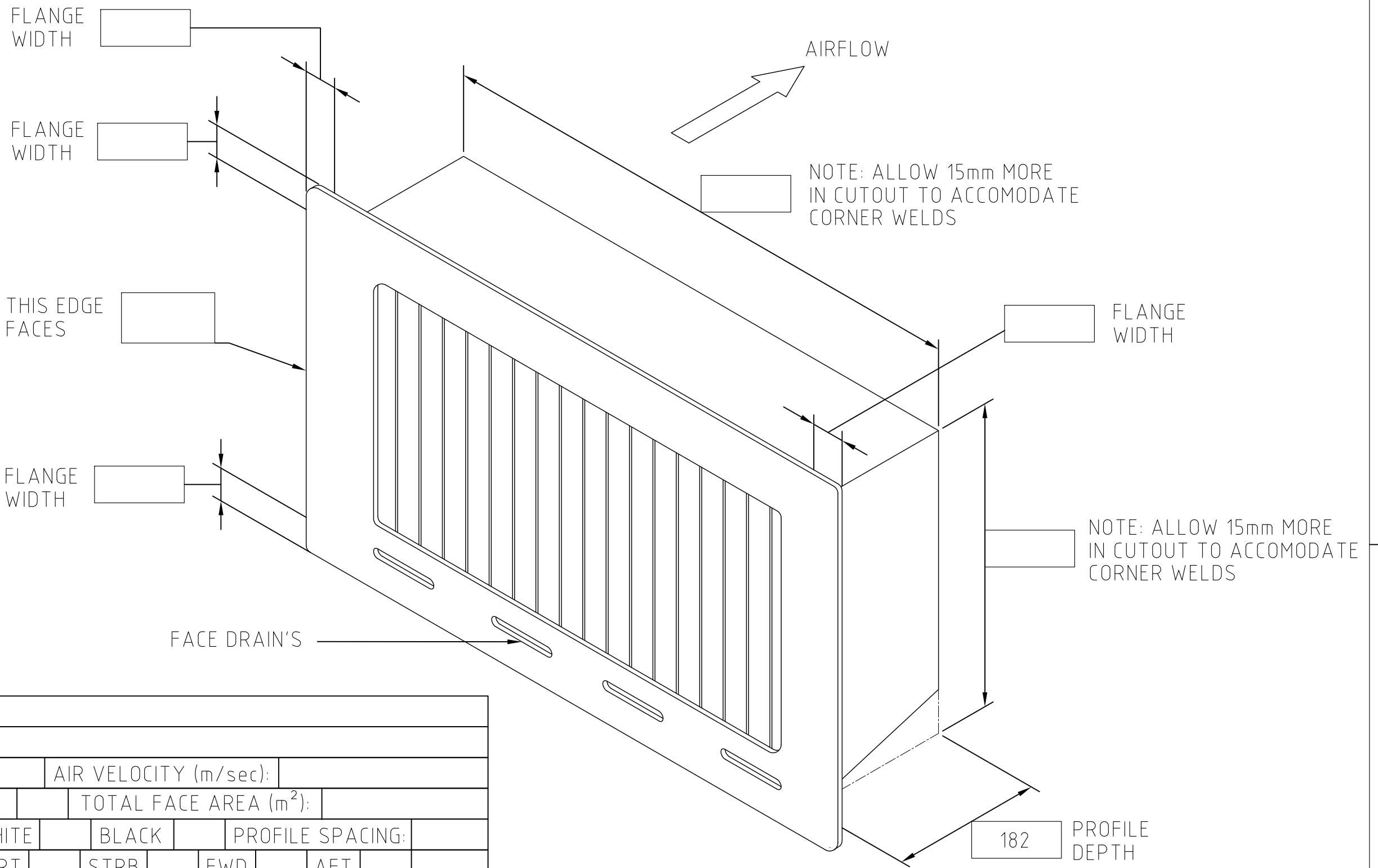
Composizione chimica / *Chemical composition*

Designazione numerica Numerical indication										Impurezza / Impurities	
A.A.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Zr	Ti	Ciascuna / Each	Totale / Total
6060	0.3-0.6	0.1-0.3	0.10	0.10	0.35-0.6	0.05	0.15	-	0.10	0.05	0.15

Caratteristiche meccaniche / *Mechanical properties*

Designazione numerica A.A. Numerical indication A.A.	Dimensioni mm x = Spessore Dimension mm x = Thickness	Stato fisico in base a UNI 8278 Physical status according to UNI 8278	Carico unitario di rottura a trazione Rm (N/mm ²) Tensile strength at break Rm (N/mm ²)	Carico di snervamento Rp 0.2 (N/mm ²) Yield point Rm 0,2 (N/mm ²)	Allungamento a rottura % Stretching to break point %	Allungamento a 50mm % Stretching to 50mm %
6060	≤ 3 3 < x ≤ 25	T6	190 170	150 140	8	6

Per informazioni / for more information www.apsariosio.com



CLIENT:			
APPLICATION:			
AIR FLOW (l/sec):		AIR VELOCITY (m/sec):	
PRESSURE DROP (Pa):		TOTAL FACE AREA (m ²):	
FRAME COLOUR:	WHITE	BLACK	PROFILE SPACING:
LOCATION QTY:	PORT	STRB	FWD AFT
TOTAL QTY REQUIRED:			
DATE REQUIRED:			
COMPLETED BY:		DATE:	

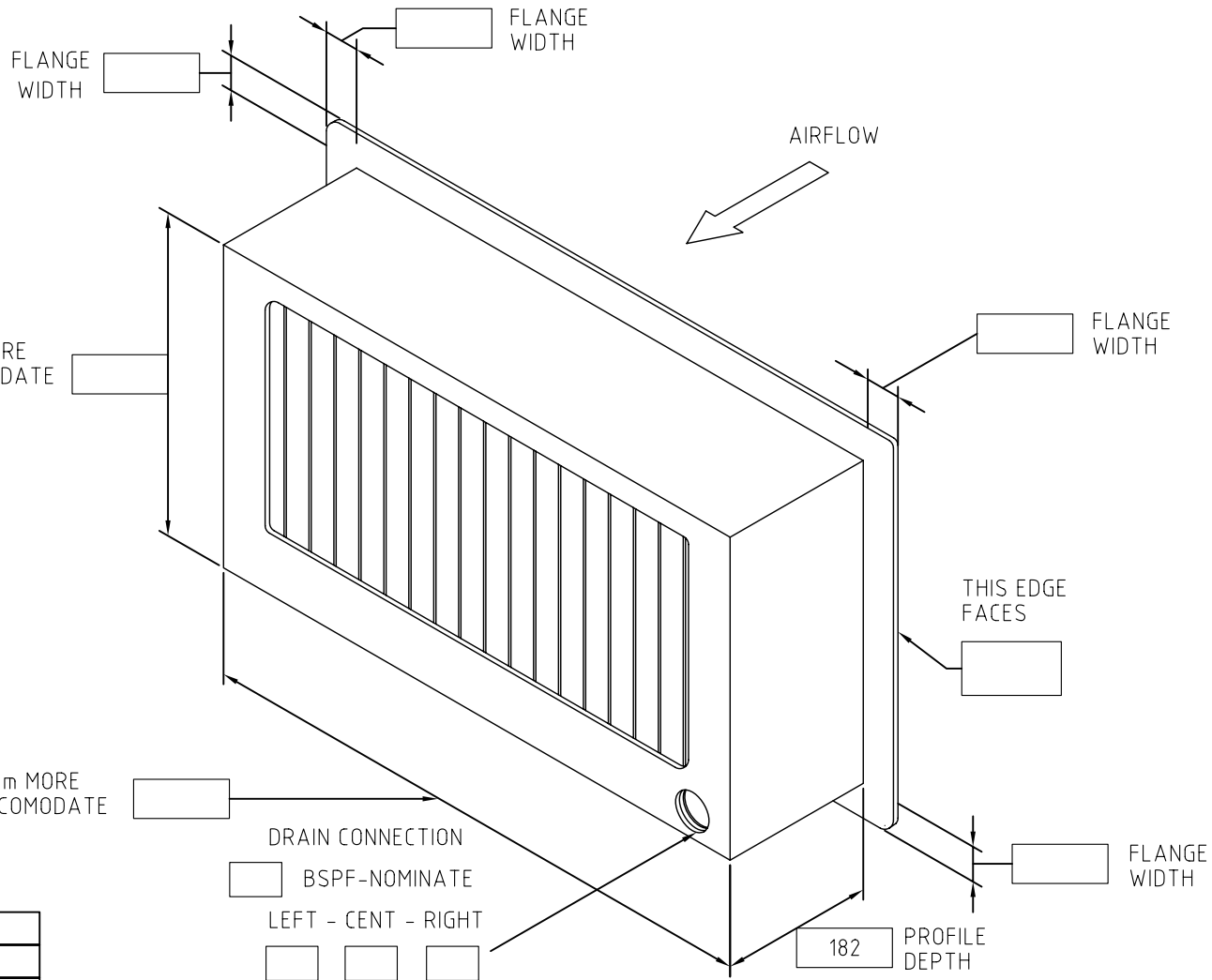


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MATERIALS:
 BLADES: BLACK PPTV (TALCUM RE-INFORCED POLYPROPYLENE)
 CASING: BLACK HDPE (HI-DENSITY POLYPROPYLENE - NOT UV STABILISED)
 WHITE PVC - UV STABILISED

FACE DRAINING MOISTURE ELIMINATOR
 STANDARD TEMPLATE
 MODEL No: BME180 _____

FILE NAME: data\...\BME-FD-HOR



NOTE: ALLOW 15mm MORE
IN CUTOUT TO ACCOMMODATE
CORNER WELDS

NOTE: ALLOW 15mm MORE
IN CUTOUT TO ACCOMMODATE
CORNER WELDS

STEVE

CLIENT:			
APPLICATION:			
AIR FLOW (l/sec):		AIR VELOCITY (m/sec):	
PRESSURE DROP (Pa):		TOTAL FACE AREA (m ²):	
FRAME COLOUR:	WHITE	BLACK	PROFILE SPACING:
LOCATION QTY:	PORT	STRB	FWD
TOTAL QTY REQUIRED:			
DATE REQUIRED:			
COMPLETED BY:		DATE:	

MATERIALS:
BLADES: BLACK PPTV (TALCUM RE-INFORCED POLYPROPYLENE)
CASING: BLACK HDPE (HI-DENSITY POLYPROPYLENE - NOT UV STABILISED)
WHITE PVC - UV STABILISED

REAR SUMP DRAINING MOISTURE ELIMINATOR

STANDARD TEMPLATE

MODEL No: BME180 _____

 **Barclay
Engineering**

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