

ProvenAir Sales Ltd

INTRODUCTION

ProvenAir Sales Ltd manufactures bespoke air movement equipment, acoustic components and ductwork for the H & V industry.

We produce a wide range of standard and bespoke products which are of particular interest to Consulting Engineers and Contractors, wishing to offer their customers well engineered and cost effective H & V solutions. We manufacture without fail to industry standards and continuously seek to improve both the reliability and quality of our products.

With over 30 years experience in the industry, our solution driven expertise and experience has encouraged the development of innovative solutions, allowing us to offer our customers high quality systems at a competitive price.

We know that enquiry response times and rapid scheduled deliveries are important. Our engineering and commercial staff take particular pride in offering a reliable and fast service to our customers.

The bespoke nature of *ProvenAir Sales Ltd* solutions is unique in the industry, as is our capability in manufacturing air movement equipment, acoustic components and ductwork. **This reference document offers the Consulting Engineer and Contractor information on our products; however, we welcome and recommend that our customers contact us at the earliest convenient time in the specification cycle. This allows us to engage in the process of specifying the optimum and most competitive solution for the end user.**

ProvenAir Sales Ltd particularly welcome inspection visits to our production units where our customers may see the quality of our products and better understand the unique, cost effective solutions which are available to them.

For a rapid response to your enquiry, please call 0116 269 7373.

Many Thanks

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AIR MOVEMENT EQUIPMENT, ACOUSTIC COMPONENTS and DUCTWORK

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ProvenAir Sales Ltd

COMPANY PROFILE

ProvenAir Sales Ltd is a manufacturing organisation geared specifically to the needs of the heating, ventilating and air conditioning industry. Offering a diverse range of products to the trade, *ProvenAir* has established itself in a niche corner of the market, offering the customer specialist 'made to order' items of high quality at a competitive price. Response times to enquiries and delivery periods are also a key factor. It is therefore our main objective to satisfy client's needs in these areas.

ProvenAir has three main areas of business : Air Handling Units, Acoustic Items and Ductwork.

Air Handling Units

ProvenAir's range of air handling units have proved themselves to be amongst the market leaders with features to catch the imagination of the architect, consulting engineer and the contractor.

Our air handling units are built around a satin anodised aluminium pentapost framework with 25mm double skinned and insulated panels as standard. Access doors are held securely by flush fit key operated quick release catches.

Two finish types are usually offered: a visually pleasing plastisol coated goosewing grey finish for external applications or where generally on view; alternatively a galvanised finish is offered as a more cost effective option.

Typically, our units are built for horizontal installation although vertical units are an option. The units can comprise of a wide variety of components including Panel and Bag Filters, Electric Heaters, LPHW & Steam Heating Coils, Gas Fired Heaters, Chilled Water and DX Cooling Coils. With energy efficiency becoming ever more crucial we also incorporate air to air Heat Exchangers on combined supply / extract units where required.

Also, with energy efficiency and closer control in mind, we have now introduced compact high performance centrifugal plug fans into our range. These fans utilise the latest EC motor technology whereby the fan duty is easily regulated using a 0-10v remote signal input or a simple low cost potentiometer.

Where the above solution is not practical, fans will of the double inlet centrifugal type and either direct or belt driven depending on the duty requirement. Belt driven fans are mounted on a fully floating frame with anti-vibration mountings and canvas connection to the casing. Please note: our only limitation is that of physical size, so we tend to work with air volumes upto no more than 7.5 m³/s.

To support the air handling unit range, we also offer single skinned twin fan extract units and fan boxes which may be acoustically lined if required.

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continuation.....

Acoustic Items

Within our acoustic range, we offer rectangular and circular silencers, cross talk silencers and acoustic louvres. The silencers can be supplied to match any flange drilling detail.

Commonly, our acoustic items are supplied as standard with a galvanised finish, although plastisol coated goosewing grey or powder paint finishes are in many instances available as an option.

Ductwork

ProvenAir are manufacturers of rectangular and circular ductwork..

Whether the project specification calls for compliance with HVCA DW144 standards or to higher grade smoke extract specifications we pay close attention to detail and will always ensure we strictly comply.

We are fully modernised, having “in-house” computerised plasma profiling and de-coiling facilities which enables us to be competitively priced whilst consistently maintaining high standards.

We also have computerised costing which guarantees consistent pricing whilst enabling a rapid turn-around on enquiries whether we are working to straightforward “take-off” listings or to the project drawings / layouts.

Additionally, we offer hoods and canopies to suit any application which can be supplied in either stainless steel, aluminium or galvanised steel.

Finally we would clarify that as our manufacture is all bespoke and made to order, we are not restricted to a set range of parameters / sizes. *ProvenAir* are consequently able to manufacture to suit your site restrictions such as limited access, limited room available or aesthetic considerations.

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SECTION 1 - AIR HANDLING UNITS

INTRODUCTION

The *ProvenAir* 'PAA' range of units offer a robust outer frame work manufactured from a satin anodised aluminium pentapost section built around black "push-fit" corner pieces. The panels are 25mm double skinned and insulated using 45kg/3 density mineral wool offering good sound attenuation and fire resistance.

Removable (or hinged) access doors are provided with door catches of our standard chrome finish flush fit quick release type, key operated. Access and connection handings are tailored to suit on site requirements.

Internal units are supplied with galvanised inner and outer panels as standard. Externally mounted units, or those where appearance is a key consideration, are supplied with galvanised inner panels and the outer panels having a colour coat leather grain plastisol grey finish to BS 10A05 goose wing grey.

Filters

We offer disposable pleated filters and bag filters. Pleated disposable air filters are commonly to G4 grade and consist of a high performance, non-woven cotton and synthetic fabric media, which is more acceptable than glass fibre.

Bag filters will usually be of the 100mm deep "millennium" mini-pleat type with grades ranging from F6 through to F9 available. The "millennium" filters utilise a 100% polypropylene filter media made from a meltblown process with the addition of extruded polypropylene separators added to ensure low initial resistance and longer lifespan. The pleated media is encased within a galvanised enclosing frame.

Heating & Cooling

The various available types are LPHW, Steam, Electric & Gas Fired Heating, Chilled Water and DX Cooling. All coil thermal calculations are computer assisted for greater accuracy, all LPHW and Chilled Water Coils are pressure tested to 250 psi, all DX Condensers and Steam Coils are pressure tested to 350 psi.

Heat Recovery

We utilise PVC air to air plate heat exchangers. These can be supplied with an integral face and bypass damper whenever required.

Fans

We utilise compact high performance centrifugal plug fans. These fans incorporate the latest EC motor technology whereby the fan duty is easily regulated using a 0-10v remote signal input or a simple low cost potentiometer. Alternatively, fans will be of the double inlet centrifugal type in direct drive or belt driven options depending on the duty requirement.

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AIR HANDLING UNIT RANGE

Construction Specifications

Standard Unit :

Construction	'PAA' type : Satin Anodised Aluminium Pentapost Hollow Framework assembled around Aluminium Die Cast Corners Painted Black. All Panels 25mm thick, Double-Skinned & Insulated.
Panel Material	Prime Quality Galvanised Mild Steel.
Material Specification	BS EN10142/1991/FEPO 2G.
Insulation	'Rocksil' LR45 Mineral Wool, 25mm thickness.
Access & Connections	Handing can be either Left or Right Hand looking in direction of airflow (to be advised at time of ordering).
Access Door Catches	Quarter-turn, Key Operated type Flush Fitting with Chrome Finish.
Access Door Seal	4-lip Sponge Rubber - 'EPDM' Black, 25° Shore.

Baseframe (Optional) :

Description	125mm x 50mm 10swg. Fabricated Galvanised type
Finish	Self Colour Galvanised.

Weatherproofing (Optional) :

Construction / Materials	As per Standard Unit (above) but incorporating additional Tented Roof Panel to shed water.
Finish / Specification	Leather Grain, Plastisol Outer Skinning Colourcoat HP200.
Colour	BS 10-A-05, Goosewing Grey.

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TWIN FAN UNIT INTRODUCTION

ProvenAir Sales Ltd. offer a comprehensive range of units, tailored to suit the individual requirements of each project. Each unit contains two fans arranged for run and standby operation. We utilise fans of the forward curved centrifugal type in direct drive or belt driven options depending on the duty requirement. The twin fan units are manufactured suitable for indoor mounting as standard. We can however manufacture for external mounting if required.

Direct Driven

The direct driven units contain 2 No. fans suitable for single phase electrical supply with the motor / impeller assembly resiliently mounted to the scroll casing. The fans are fixed to a common outlet plenum which utilises our own unique swing blade back-draught shutter arrangement. The fans are pre-wired to a terminal box fitted on the outside of the unit casing.

The casing is single skin with 25mm acoustic lining applied internally. Access into the casing is achieved by simply un-screwing the top panel. These units can however be installed upside down, allowing access via the underside.

Inlet and discharge spigots are left plain allowing the customer scope to determine the type of connection to be adopted.

Please refer to the 'Direct Drive Twin Fan Specifications' for further details.

Belt Driven

The belt driven units contain 2 No. fans. The motors are suitable for three phase electrical supply. Each fan / motor assembly is mounted on a fully floating frame with canvas flexible connections to the unit casing. Each fan discharges through a back-draught shutter and is fitted with an air flow switch, enabling detection of belt failure. 2 No. terminal boxes will be fitted to the outside of each unit, pre-wired to the motor and airflow switch for each fan.

The belt driven twin fan units are built using our satin anodised aluminium pentapost framework with 25mm double skinned and insulated panels as standard. An access door held securely by flush fit quick release catches is provided on both sides of the unit, allowing servicing of the pulley drive arrangement. In accordance with current 'CE' regulations, protective guard covers are fitted to each drive arrangement.

The inlet and discharge spigots are provided with 20mm mezz type flanges for rectangular ductwork connection.

Please refer to the 'Air Handling Unit Specifications' for further details.

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DIRECT DRIVE TWIN FAN SPECIFICATIONS

Standard Unit :

Construction	Single Skin, Spot Welded Casing with Integral Support Angles.
Material Type	Prime Quality Galvanised Mild Steel.
Material Specification	BS EN10142/1991/FEPO 2G.
Material Thickness	PTF-1 & PTF-2 Units : 1.0mm (\pm 0.09mm) PTF-3 & PTF-4 Units : 1.2mm (\pm 0.1mm).
Swing Blade	1.2mm Commercial Grade Aluminium.
Access	Top Access (Indoor Units can be Installed Upside-down to give Bottom Access).

Acoustic Lining (Standard) :

Thickness	25mm with Self Adhesive Backing
Density (to BS 4443)	80 to 100 kg/m ³
Working Temp. Range	-30 to 100°C
Colour	Black
Flammability Properties	Class "O" to Building Regs. 1985 [Para A8(b)] Doc B
Thermal Conductivity	0.048 W/MK

Fan Details :

Type	Direct Driven, Forward Curved Centrifugal.
Electrical Supply	230 v, 1 phase, 50 Hz.
Wiring	Fans Pre-Wired to IP 56 Weatherproof Terminal Box on Outside of Unit Casing with Common Neutral & Earth Connections.

Weatherproofing (Optional) :

Construction / Materials	As per Standard Unit (above) but incorporating Cross-Folded Top Access Panel with Fixings into Side of the Unit to Prevent Water Ingress ** Note ** Also will include 45° Discharge Hood c/w Mesh instead of circular discharge spigot.
Finish	Full Polyester Powder Paint
Colour	BS 00-A-05 Matt Finish (other colours available upon request).

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DIRECT DRIVE TWIN FAN ANCILLIARY SPECIFICATIONS

Flexible Connectors (Standard) :

Description	PVC coated Polyester Cloth mechanically locked between galvanised sheet steel strips. (45mm metal / 60mm fabric / 45mm metal)
Working Temp. Range	-30 to 70°C.

A/V Mountings (Standard) :

Description	Neoprene Turret type.
Model Reference	UNM-A

Isolator (Optional) :

Reference	'Sector' S416R1
Description	Padlockable Surface Mounted Rotary 4-Pole Type Suitable for Single and Three Phase Supplies
Maximum Current	16 Amps
Protection Category	IP 65

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"Standard" Auto-Changeover Panel Specifications

Standard Auto-Changeover Panel (Direct Drive Units below 4.0 Amps FLC):

Reference	ACOP 1/A
Compatible Units	PTF-1-A & B. PTF-2-C, D, E & Ex. PTF-3-F, G, H, I, J. PTF-4-M & P
Description	Housed in a Plastic Enclosure Size : 150mm wide x 100mm high x 60mm deep
Duty Selection	2-position switch for Manual Selection Auto-Changeover Occurs by Current Overload of Duty Fan (i.e. Duty Fan Fuse Failure in the Panel). Fan Run & Fan Fail Indicator Lamps are provided : If Fan 1 is selected & Fail Lamp is lit then Changeover has occurred.
Volt Free Contacts	Terminal No's F1 & F2 are incorporated within the Changeover Panel. Volt-Free Fail Indication is given by Closure of a Normally Open Contact (10 Amp Resistive). Contacts are automatically Re-set upon Fuse Replacement.
Maximum Current	4.0 Amps
Fuse Sizes Available	3.15A & 6.3A (anti-surge type)
Protection Category	IP 44

Standard Auto-Changeover Panel (Direct Drive Units above 4.0 Amps FLC):

Reference	ACOP 1A/A
Compatible Units	PTF-3-K PTF-4-L, N, O, Q & R
Description	Housed in a Plastic Enclosure Size : 200mm wide x 150mm high x 80mm deep
Duty Selection	2-position switch for Manual Selection Auto-Changeover Occurs by Current Overload of Duty Fan (i.e. Duty Fan Fuse Failure in the Panel). Fan Run & Fan Fail Indicator Lamps are provided : If Fan 1 is selected & Fail Lamp is lit then Changeover has occurred.
Volt Free Contacts	Terminal No's C & NO are incorporated within the Changeover Panel. Volt-Free Fail Indication is given by Closure of a Normally Open Contact (10 Amp Resistive). Contacts are automatically Re-set upon Fuse Replacement. (Alternatively, this panel can be wired to detect a Normally Closed Contact by wiring to Terminal No's C & NC.)
Maximum Current	7.0 Amps
Fuse Sizes Available	6.3A & 10.0A (anti-surge type)
Protection Category	IP 56

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“Optional” Duty Sharing Auto-Changeover Panel Specifications

Optional Duty Sharing Auto-Changeover Panel (for Direct Drive Units) :

Reference	PACDS 2(A)
Description	Housed in Plastic Enclosure Size : 210mm wide x 260mm high x 100mm deep
Duty Selection	12 hour Automatic Duty Sharing Auto-Changeover Occurs by Current Overload of Duty Fan. Fail & Power Indicators are provided.
Volt Free Contacts	Terminal No's C & NO are incorporated within the Changeover Panel. Volt-Free Fail Indication is given by Closure of a Normally Open Contact (10 Amp Resistive). Contacts are automatically Re-set upon Fuse Replacement. (Alternatively, this panel can be wired to detect a Normally Closed Contact by wiring to Terminal No's C & NC.)
Maximum Current	7.0 Amps
Fuse Sizes Available	3.15A, 6.3A & 10.0A (all anti-surge)
Protection Category	IP 56

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OTHER PRODUCTS AVAILABLE

Silencers

Silencers for our Air Handling Units and Twin Fan Units can be selected by our technical staff. These offer a wide range of insertion loss to suit your requirements. The silencers can be selected for the inlet and the supply side of the units and may require a taper connection between the two; this can be supplied on request.

V.C.D. / Mixing Boxes

Volume control dampers and mixing boxes are available to suit our units or your needs.

Ductwork

Distribution ductwork; either rectangular or straight seamed circular is also manufactured in-house to your dimensional and specification requirements.

Grille Boxes / Plenum Boxes

Grille boxes / plenum boxes are available custom built to your requirements.

Flexible Connections

Inlet and outlet flexible connections are available to suit the *ProvenAir* range of units.

NOTE : Our aim is to provide good quality products at competitive prices with very good delivery.

Our range of products is continually expanding so whatever your requirements are call *ProvenAir Sales Ltd. 0116 269 7373.*

In the interest of continuous product improvement, the company reserve the right to change specifications where necessary.

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SECTION TWO - ACOUSTIC RANGE

RANGE COVERED

Cylindrical Silencers

ProvenAir manufacture cylindrical silencers ranging from a minimum diameter of 75mm to a maximum of 1300mm internally.

The length of cylindrical silencers is usually a multiple of the diameter although intermediate lengths do not pose any problem to us and are therefore not subject to a cost premium.

We can incorporate pods from 250mm diameter upwards.

Casings are usually supplied drilled to suit particular fan flanges although spigotted ends can be provided at no extra cost.

Rectangular Bend & Splitter Silencers

Our range of rectangular silencers is almost unlimited.

We work to a range of airway widths from 50mm to 200mm with variation on length usually from 600mm upto 2400mm.

In instances where a silencer would be particularly large these would be supplied in modular form for ease of construction and handling on site.

There are also many standard types of silencer available to directly match up to a variety of mixed flow, centrifugal and kerb mounted fans currently on the market.

We provide flanged or spigotted ends to suit each particular request.

Cross-Talk Silencers

These are usually supplied for mounting in the smaller branch legs of a ductwork system and can be either rectangular type with either flanged or spigotted ends, or of the circular type with spigotted ends.

Any length can be specified although 600mm is most common.

Acoustic Louvres

We manufacture two types of acoustic louvre ; 300mm deep single bank and 600mm deep double bank. The minimum available size is 600 x 600mm.

Similarly with the rectangular silencers we would provide particularly large assemblies in modular form for ease of construction and handling on site.

All of our acoustic louvres are provided with 25mm sq. bird guard as standard.

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CONSTRUCTION DETAILS

Casing Details

All low and medium pressure casings are constructed in accordance with the requirements of the relevant HVCA DW 144 tables.

For high pressure applications (where specified) the material thickness is up-rated in order to accommodate the increased duty.

Our standard material is BS EN10142/1991/FEPO 2G high quality galvanised mild steel throughout although other materials such as aluminium or stainless steel can be utilised.

Where applicable on our rectangular silencers, flanges are provided at the sizes specified in DW144. Unless otherwise requested flanges will be the galvanised rolled steel section type with internal sealant, although other flange material such as mild steel angle can be made available. All flanges are sealed to the silencer casings to meet the standard heating and ventilation requirements.

Our circular silencers are quite unique in the method of construction adopted.

The casings incorporate staged ribbings suitably spaced along the length to provide re-inforcement.

The end caps are made in such a way that in conjunction with the casing construction the strength is improved such that the possibility of damage is reduced during normal carriage and handling procedures.

These can be supplied with zinc plated metric nutserts spaced to suit customers requirements or with a spigot connection

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Splitter Details

All splitter and side liners are assembled from high quality galvanised sheet and fitted with non-combustible rock fibres bonded with a high performance binder.

All surfaces are lined with a glass tissue to prevent particle erosion then enclosed with a galvanised perforated sheet secured in place with rivets.

The completed splitter forms a robust section and adds to the overall strength of the casing when rivetted in place.

Splitters are also available with melinex lining for special application.

All splitters come fitted with Vee fairing or Bull leading edge to help minimise air pressure loss.

Standard silencers come with vertical splitters but can be used in the horizontal providing the span of the splitter is no wider than 1200mm.

Air flow direction labels are provided on all rectangular silencers to assist installation.

Pod Details

Our pods are assembled using galvanised perforated sheet rolled into a cylindrical shape. Galvanised end caps are fitted to retain the in-fill material.

As standard, all surfaces are lined with a glass tissue to prevent particle erosion although melinex lining is available upon request.

For silencers up to 800mm diameter, we utilise our unique method for retaining the pod. Threaded rods are held to the pod assembly which are then located into nutserts suitably positioned around the internal circumference of the silencer body. apart from the immediately noticeable neat appearance, the main advantage of this method is that the pod can easily be removed for access or cleaning purposes.

In-Fill Details

Fire performance, non-combustible when testing in accordance with BS476 : Part 4 : 1970.

The fibre slabs are Class 0 to building regulations, achieving Class 1 (surface of very low flame spread) when tested in accordance with BS476:Part 7:1971 and the required indices of performance to BS476:Part 6:1968.

The fibre slabs are rot proof, odourless, non-hygroscopic, will not sustain vermin and will not encourage growth of fungi, mould or bacteria. The fibre will not settle under vibration when tested in accordance with BS2972:1975. The fibre slabs remain dimensionally stable under varying conditions of temperature and humidity.

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SECTION THREE - DUCTWORK

Rectangular Ductwork

Our straight rectangular galvanised ductwork is de-coiled in lengths of 1500mm. De-coiling virtually eliminates waste whilst at the same time ensures consistent standards of manufacture.

Rectangular fittings are profiled by our computerised plasma machine which ensures economical use of materials whilst again maintaining accurate and consistent sizing of component parts.

These investments in equipment combined with our experience and skills across the organisation combine to ensure we meet a high standard of manufacture whilst remaining competitively priced.

Depending on the project specification and ductwork sizes, we would usually fit proprietary “mezz” type flanges, however where alternatives are required, R.S. Angles flanges or internal collars can easily be adopted.

Circular Ductwork

Our circular ductwork is straight-seamed and would usually be supplied in de-coiled lengths of upto 1500mm.

As with the rectangular ductwork the fittings are plasma cut which again maintains accuracy and consistency of patterns whilst ensuring economical use of materials.

Depending on size and specification, the circular ductwork would be manufactured with big end and small end slip joints or may be joined using the “spiralmate” type of flanges, flat bar rings or rolled steel angle flanges.

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SECTION 4 - PREVIOUS PROJECTS

Through our established client base we have found our products being installed with end users as follows :

ALDI
ARGOS
BRISTOL COUNCIL
CO-OP
COSWORTH
FARM FOODS
IKEA
ILMOR / MERCEDES H.P.E.
McCAINS
NEXT
PREMIER FOODS
RITZ HOTEL
ROLLS-ROYCE
SAINSBURYS
SOMERFIELD
TESCO
WALKERS CRISPS
WEETABIX

to name but a few

All of these end users obviously expect nothing less than a very high standard of product, service and back-up.

This in-turn is reflected back into repeat work for our customer in these prestigious environments.

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