

Guard Mounted Axial Fans



Industry standard fans comprise a single or three phase external rotor motor with integral sickle shaped steel blade and basket or flat guard attached for protection and easy mounting.

Single speed windings, 2, 4 & 6 pole types, with IP54 enclosure rating.

Ambient temperature operating range is from -30°C to +60°C.

Fans are normally measured by blade size and our range is 200mm to 900mm.

Fans are supplied with either a terminal box (containing the capacitor for single phase models), or long double insulated black 3 core cable.

Both sucking and blowing airflow models are available in all sizes. Sizes: 200, 250, 300, 315, 330, 350, 380, 400, 420, 450, 500, 550, 600, 630, 700, 800 & 900mm

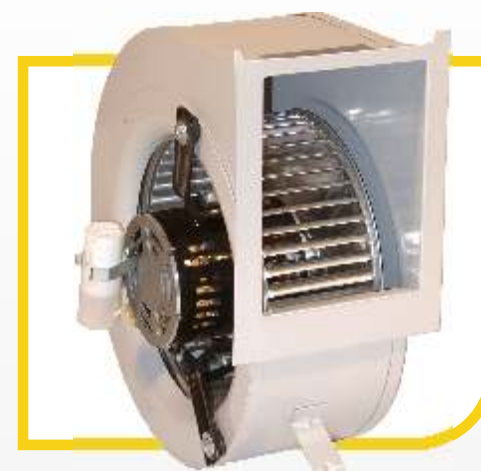
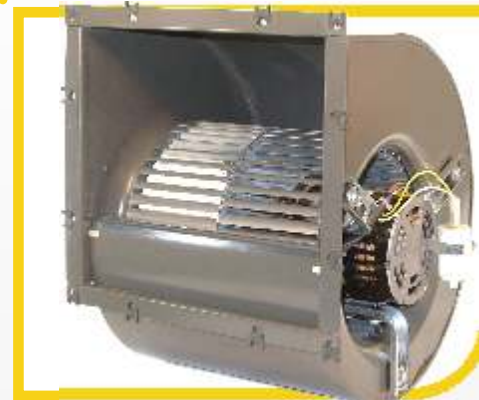
Full information can be seen on our website or call us for a catalogue

Single & Three Phase
2 Pole @ 2550RPM
4 Pole @ 1350RPM
6 Pole @ 900RPM
Terminal Box or Long Cables
Sucking or Blowing Airflow
Flat Guard or Basket Guard
PSC (Capacitor) or EC Motor
Industry Standard Dimensions

200mm	£47.89	450mm	£73.75
250mm	£49.16	500mm	£115.92
300mm	£51.70*	550mm	£131.38
315mm	£53.27	600mm	£152.24
330mm	£54.08*	630mm	£155.71
350mm	£54.41	710mm	£351.68
380mm	£54.41	800mm	£409.53
400mm	£59.82	900mm	£458.66
420mm	£69.52		

*Some models slightly more

Blowers



Applications include...

Most types of domestic, commercial and industrial warm air heating.

Our spares are generally direct replacements, providing similar performance and physical dimensions to ensure inter-changeability with original components, plus quick and easy site installation.

Electrical wiring and connection diagrams are included on all multi-speed, electrically reversible, capacitor, etc. motors.

Our technical office can offer guidance and assistance, when necessary, for service and maintenance engineers not familiar with exchanging electric motors and fans.

Our range includes small domestic heater spares used in kitchen kick-space or plinth heaters, etc. through medium sized commercial heaters like fan convectors, fan coil units, etc. to larger industrial heating and ventilation equipment like warehouse air curtains, factory gas and oil fired cabinet heaters, etc.

Accessories We have everything you need for replacing & installing blowers...



Fan Impellers - Aluminium



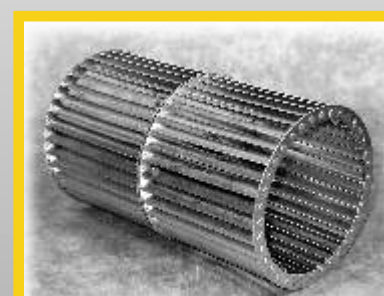
Fan Impellers - Steel



Fan Impellers - 2VC146.102/SP



Double Wheel - Aluminium



Double Wheel - Steel



Mounting - BMKS



Mounting - BMKL



Mounting - BB105 & BB120



Shaft Sleeves

Did you know...
You can now buy all accessories on our website along with our full range of fans, motors, blowers and fan decks!

Visit today!

ATTENTION!

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H&V MAINTENANCE FIRMS
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MOTORS | FANS | BLOWERS
EX-STOCK SPARES**



P. LE STAR
PRODUCTS LIMITED

Who we are ...

Pole Star Products Limited is probably the largest stockist of small electric motors, fans and blowers in the UK. We supply original equipment components and spare parts for use in most types of heating, ventilation, air conditioning, refrigeration, vending, catering, drinks dispense, etc. equipment.

Our customers include many OEM companies, wholesalers, building services engineers, maintenance firms.

Where we are ...

Our factory and warehouse is 30,000 sq ft and located in Lincolnshire. Almost all the 2,000+ models of motors and fans illustrated in our spares catalogue are available from stock with our inventory currently in excess of £1 million and growing fast.

We're close to Lincoln and ship parcels and pallets nationwide for next day delivery. Fans for refurbishing can be delivered and collected from site.

What we do ...

We stock a wide variety of small electric motors, fans and blowers which are used as original equipment or for spares use. Our range includes a large number of models which are direct replacements for old and obsolete units. In many cases the appliance manufacturer is no longer in business so the genuine spare part is not available.

We can supply a suitable equivalent when provided with brief details.

What we use ...

Over the years we have expanded our facilities and our machinery includes milling machines, lathe, sheet metal folders, hydraulic guillotine, corner notcher, fly presses, etc. We have access to CNC press brakes, folding, bending, rolling, punching and cutting machines.

Our fan trays are laser cut for extra precision, and metal components can be galvanised, powder coated, nickel plated, etc.

How to order ...

Account holders can order by telephone, fax, email, or online. New customers can open an account quickly although first orders are generally paid by credit card as goods are usually required urgently.

We offer a 25% from our catalogue list prices for account holders.

Spares enquiries are received, often with photographs sent by email, SMS message, Skype, etc. which we can easily identify and match.

Need a visit?

We offer nationwide representation.

Our sales engineer will be pleased to visit your offices, factory, stores or site to help identify any old or obsolete motors when the numbers involved are worthwhile.

Pole Star can supply new motors, fans and blowers - or refurbish any old or obsolete fans.

Savings over the cost of new fans are huge.

All refurbished fans supplied are guaranteed for twelve months.

Why not ask our Sales Engineer to call next time he is in your area?

**ACCOUNT HOLDERS
PRICES SHOWN ABOVE**

prices include

25%

discount from our list price.

OPEN AN ACCOUNT TODAY - and start saving!

www.psp.uk.com

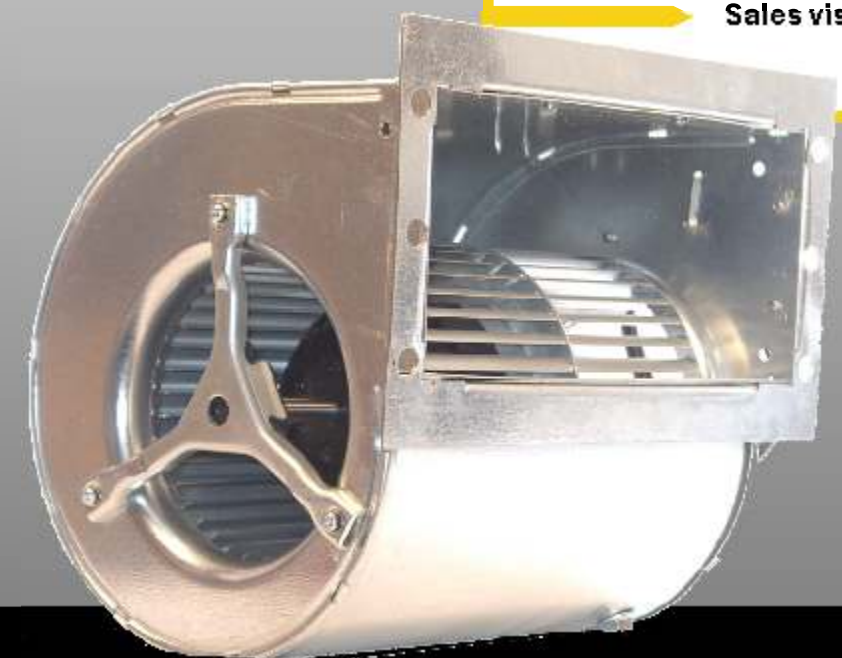
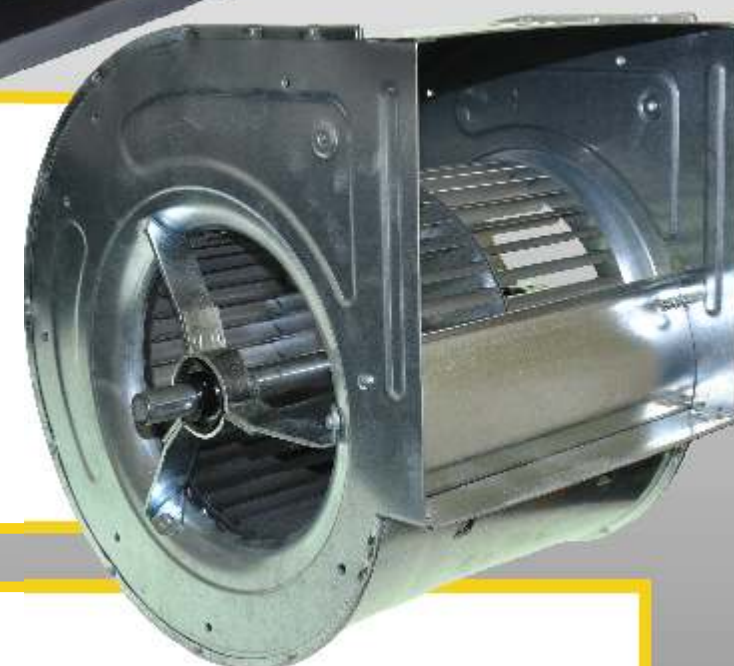
tel: 01526 399 711 | fax: 01526 399 744 | email: sales@psp.uk.com

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Fan Decks - New & Refurbished

Pole Star offers a comprehensive service for the Building Services Engineer, Maintenance Firms, Facilities Companies, Heating Contractors, Electrical Engineers, etc.

- We manufacture new fan decks, fans and blowers to match most designs, no matter how old or obsolete, in any quantity. Standard fans to match most other manufacturers units are readily available, though we specialise in replacing discontinued makes and models.
- Many other manufacturers, makes and models numbers are already familiar to us. Suitable alternatives and direct equivalents are easily produced. Good quality, high specifications, low prices and quick delivery ensures maintaining old HVAC equipment is cost effective.
- Pole Star can refurbish old fan decks, fans and blowers. The original galvanized fan trays, casings, housings and mountings are dipped and thoroughly cleaned. New fan motors are fitted as routine (ball bearing) and all service items are checked before re-assembly.
- Our refurbishing service is intended to return fan decks, fans and blowers delivered to site in excellent condition and likely to provide many years of reliable service. All refurbished fans and motors are tested on each speed for correct operation and guaranteed one year.
- Pole Star can supply all the components necessary for customers to undertake their own maintenance. Electric motor rewind and repair companies, site engineers, etc. sometimes prefer to repair fans on site. We can offer all the motors, impellers, brackets, etc. needed.
- We stock a complete range of Fan coil motors from 15W to 1250W and Blower motors from 8W to 2200W. Blower wheels and fan impellers from 96mm to 330mm diameter, fan casings and housings, resilient mounting bases, blower mounting kits, capacitors, couplings etc.



Pole Star Supplies...

1 New Fans & Blowers

- Fan decks, manufactured with 1, 2, 3 or 4 blower units
- Direct drive centrifugal fans - external rotor motor
- Direct drive centrifugal fans - conventional motor
- Belt drive fans - industry standard sizes and outputs
- Guard mounted axial fans - 200mm to 900mm blade
- Cased axial fans, plate mounted fans, tube axial fans
- Cross flow blowers or tangential fans

2 Refurbished Fans & Blowers

- Direct drive fans and blowers refurbished
- All parts thoroughly examined and cleaned
- New high quality ball bearing motors fitted
- Parts and work fully guaranteed for one year
- Deliveries and collections from site arranged
- Sales visits made to help identify old fan units

3 Parts for Service

- Fan coil motors from 13W to 1250W output
- Blower motors from 8W to 2200W output
- Replacement blower wheels or fan impellers
- Mountings, brackets, capacitors, fan casings
- Shaft couplings, adaptor bushes & sleeves
- Transformers, switches, thermostats, etc.

Fan Decks - 1, 2, 3 & 4 Centrifugal Blower Units

A Fan Deck Single Blower (Type A)

- Single Blower Unit with External Rotor Motor
- 2 Pole (2300RPM) & 4 Pole (1300RPM)
- Capacitor PSC or EC. From 1 to 4 Speed
- Impeller Dia: 120, 129, 133 & 146mm

From £85.00 New Deck
From £65.00 Refurbished



B Fan Deck Single Blower (Type B)

- Single Blower with Capacitor PSC or EC Motor
- 4 Pole (1300RPM) & 6 Pole (900RPM) 1 - 6 speed
- Air Volumes to Maximum 1000m³/hr or 600cfm
- Impeller Dia: 108, 133, 140, 146, 160 & 180mm

From £85.00 New Deck
From £65.00 Refurbished

C Fan Deck Double Blower (Type C)

- Double Blower with Capacitor PSC or EC Motor
- 4 Pole (1300RPM) & 6 Pole (900RPM) 1 - 6 speed
- Air Volumes to Maximum 3000m³/hr or 1800cfm
- Impeller Dia: 108, 133, 140, 146, 160 & 180mm

From £100.00 New Deck
From £75.00 Refurbished



D Fan Deck Triple Blower (Type D)

- Triple Blower 1 x Capacitor PSC or EC Motor
- 4 Pole (1300RPM) & 6 Pole (900RPM) 1 - 6 speed
- Air Volumes to Maximum 7000m³/hr or 4200cfm
- Impeller Dia: 108, 133, 140, 146, 160 & 180mm

From £160.00 New Deck
From £125.00 Refurbished



E Fan Deck Triple Blower (Type E)

- Triple Blower 2 x Capacitor PSC or EC Motor
- 4 Pole (1300RPM) & 6 Pole (900RPM) 1 - 6 speed
- Air Volumes to Maximum 7000m³/hr or 4200cfm
- Impeller Dia: 108, 133, 140, 146, 160 & 180mm

From £190.00 New Deck
From £155.00 Refurbished

F Fan Deck Quad Blower (Type F)

- Quad Blower 2 x Capacitor PSC or EC Motor
- 4 Pole (1300RPM) & 6 Pole (900RPM) 1 - 6 speed
- Air Volumes to Maximum 8000m³/hr or 4800cfm
- Impeller Dia: 108, 133, 140, 146, 160 & 180mm

From £175.00 Refurbished
From £230.00 New Deck



Quick Guide

Ref	Blowers	Motors	Refurb	New
A	1	1	£65	£85
B	1	1	£65	£85
C	2	1	£75	£100
D	3	1	£125	£160
E	3	2	£155	£190
F	4	2	£175	£230
G	4	1	£185	£250

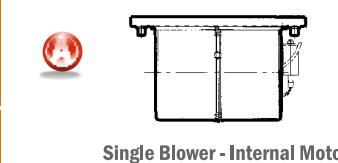
General Specifications

Double Inlet centrifugal blower units driven by single phase PSC capacitor motrs, 4 and 6 pole models, run speeds of 1300RPM and 900RPM approx. Single speed to 7 speed designs, almost always ball bearing with totally enclosed body, but we can offer sleeve bearings and open ventilated.

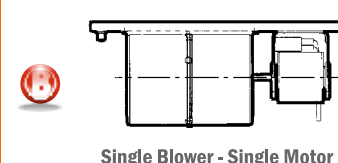
Steel can be painted or powder coated.

Pole Star fan decks are made with the best components

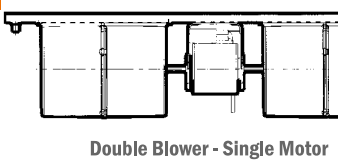
- High quality ball bearings. Cast aluminium motor end shields and bolted construction.
- Robust fan trays using thick 16swg, 1.6mm thick galvanised steel or from zintec material.
- Aluminium tablock wheels generally fitted. Ladder constriction or stamped an option.
- Plain galvanised steel finish is standard. We can offer powder coating in any colour.



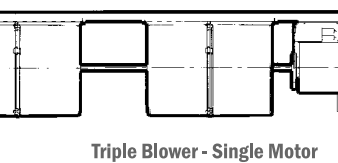
Single Blower - Internal Motor



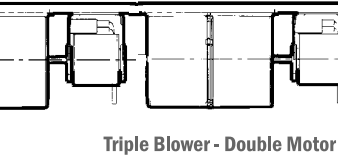
Single Blower - Single Motor



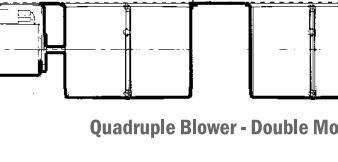
Double Blower - Single Motor



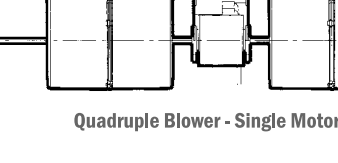
Triple Blower - Single Motor



Triple Blower - Double Motor



Quadruple Blower - Double Motor



Quadruple Blower - Single Motor

New Fan Decks - specials made to order

Any Quantity | Quick Delivery | Site Delivery

New fan decks are made to customer designs and specifications, or pattern copy of old fan deck made from sample supplied or drawing.

High quality new fan coil motors are fitted with ball bearings, instead of sleeve and cast aluminium end-shields with bolted construction.

Power outputs range from 8W to 630W with single and double shaft models, 1 to 7 run speeds. 4 pole (1300RPM) and 6 pole (900RPM)

Motors are wired with flying leads, sheathed cables or terminal strip. Cable assemblies and clear wiring diagrams for simple installation.

Whenever possible we fit same connectors or re-fit customer supplied plugs to make the electrical connections on site as easy as possible.



FAN TRAY OR MOTOR PLATE

Sheet steel fan tray is usually galvanised or zintec finish. Thickness is 16swg or 1.6mm approx as standard to give a robust assembly.

BLOWER WHEEL OR FAN IMPELLER

Blower wheels are stamped ladder construction or tablock type in aluminium or steel. We usually use the superior design tablock.

FAN CASING OR HOUSING

Fan casings have a pressed air inlet on one side and screwed inlet ring at the other side (outer). This makes impeller removal easier.



CABLE LEADS & CONNECTORS

OEM fan coil motors generally use sheathed leads or 3 core cable. We make the same or terminal strip or connectors to wire in quickly.

FAN COIL MOTOR

Fan coil motors range from 8W to 1250W power output. We stock hundreds of models that are direct replacements for OEM motors.

MOUNTING BASE

We can supply all types of resilient mounting base or cradle. Some original bases are welded to fan tray. Our motors will fit the old base.

CONNECTION DIAGRAMS

Fan coil and blower motors have a schematic wiring diagram which shows leads colours, capacitor position etc. to make wiring up easy.

New Fan Decks - Buffer Stock

Changing your Fan Decks often?

Why not get a couple of new fan decks made as buffer stock. Then you will have some spares and can have the old fan decks refurbished at your leisure.

NEW FAN DECKS Match old designs | Make any quantity | All inclusive prices
One year warranty | We deliver to site | Choice of finishes | Quality components



Backward curved fan

Single inlet, plastic or alloy impeller, driven by an external rotor motor. Single and three phase, 2, 4 & 6 pole, power inputs from 33W to 287W. Insulation class B. Enclosure rating IP23. Ambient temperature range is -25°C to +40°C. Used for medium specific speed applications; so high pressure, medium flow. Centrifugal fans with backward curved blades are used for intake suction and do not need any scroll or housing. Used in a box enclosure they can create a high pressure area around the wheel, discharging the air in any direction through either grilles or ducting. **Diameters:** 133mm up to 400mm



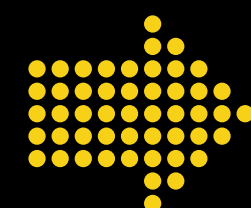
In-line duct fan

Single inlet, backward curved blade driven by an external rotor motor in a galvanised steel casing. Single phase, 2 pole, single speed. power inputs from 62W to 225W. Insulation class B, IP44, ambient temperature -40°C to +60°C. Used in ducting applications they can create high pressures with good airflow, they have inlet/outlet diameters from 100mm up to 315mm. Attached by feet or end ring clamps.



Forward curved fan

Single inlet, steel impeller with external rotor motor. Single & three phase, 2, 4 & 6 pole, power inputs from 55W to 210W. Insulation class B. Ambient temperature range is -30°C to +60°C. They need a housing plus an inlet ring to work properly and convert high kinetic energy in the airstream to useful static pressure. Diameters range from 120 to 220mm and widths from 45 to 102mm. The rotation is generally ACW as viewed from the inlet side. Forward curved fans are particularly suited to high flow, low pressure applications.



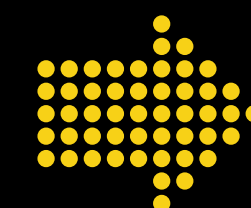
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