

Air Medium

Air aspirated through the blower must be filtered and contain no explosive or flammable gases. The maximum air inlet temperature must not exceed 40 degrees Celsius. ESAM has a range of cartridge filters (as seen left), in-line filters and intake filters (below left) for all blowers. Please refer to the ESAM general brochure or contact ESAM for further information.



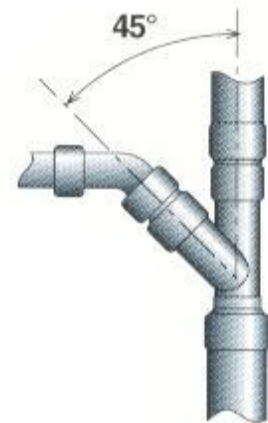
Electrical Connection

Connection to the electrical supply must be carried out in accordance with the diagram on the terminal block cover. Electrical connection must be carried out only by persons qualified to do so. Blower must be installed in accordance with local regulations.



Pipe Connection

In order to minimise losses to friction in the pipe-system and achieve optimum performance of the blower all bends installed should be 'long-radius'. There should be no angles in the pipe-system greater than 45 degrees, where a 90 degree angle is required, 2 x 45 degree bends should be used (see left). Pipe diameters should be as large as practicable.

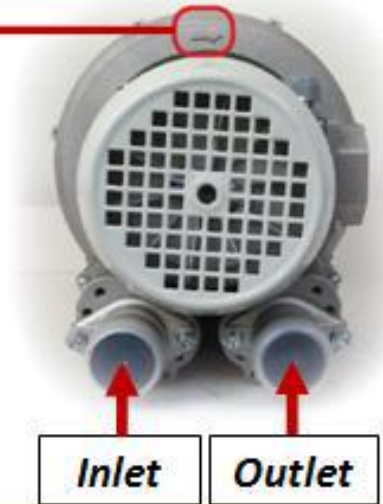


Connection of 2 or More Blowers in Parallel

A non-return valve must be fitted to each blower when connected to a common pipe-system. NB: Blowers cannot be installed in series that is inlet of one blower connected to exhaust of another blower.

Three Phase Single Stage Blower

BEFORE connecting to the INLET and OUTLET ports of this blower, complete the electrical installation, power the blower briefly and check the blower rotation as per the arrow cast into the turbine casing



Three Phase 2 Stage Blower

BEFORE connecting to the INLET and OUTLET ports of this blower, complete the electrical installation, power the blower briefly and check the blower rotation as per the arrow cast into the turbine casing



ESAM AUSTRALIA

5 Sheppard St Thornbury VIC 3071
Ph. 03 9484 5719 | Fax: 03 9484 4052
esam@esam.com.au
www.sidechannelblowers.com.au

INSTRUCTIONS

OPERATING AND INSTALLATION



General Warning

Aspiration and compression occur rapidly; take precautions to prevent objects entering the blower when activated before running the blower. The blower must be installed and serviced only by persons authorised and qualified to do so. No operations may be carried out while the blower is running. Motor must be isolated from electrical power source (and provisions made to ensure it remains isolated) before performing any operation on the blower.

Installation and General Information

The blower should be installed in a location with adequate ventilation and protected from weather. The unit should be installed in an area that does not contain corrosive, flammable or explosive materials. The ambient temperature should not be greater than 40 degrees Celsius and be no lower than -15 degrees Celsius.

The blower must be protected from over-current with a thermal overload device/magnetic phase protection, set no higher than the blower's maximum amperage value stated on motor nameplate (refer to F value).

The unit should be fitted with a correctly set relief valve to prevent the blower from operating at pressures beyond its rated values (refer to D and E values). The blower must be fitted with an appropriate filter to prevent particles entering the turbine – please refer to the ESAM accessories catalogue for details on the range of filters.

The blower may be connected to a frequency inverter – the blower must not run beyond 60 Hz. and no lower than 30 Hz. The blower must not start more than 10 times per minute.

Direction of Rotation – 3 Phase Blowers

The turbine must rotate in the correct direction as indicated by the arrow on the unit.

