AirEng – Accessories

In addition to the standard fan assembly, the following accessories are available.

1 Inlet boxes

Aerodynamically designed for optimum performance. Can be integrated with the fan casing, or designed as a separate unit. Complete with pre-drilled rectangular inlet flange and either a pre-drilled circular discharge flange, or plain spigot. Available in different orientations.

2 Dampers

Available as parallel or louvre bladed inlet or outlet. Opposed blade operation for outlet dampers. Bearings can be rolling or plain, operation manual or automatic.

3 Damper actuator

Affords more precise control over damper.

Pneumatic or electric are the most common type. These can be fitted with positioners.

4 Structural sub-base

Supports entire fan assembly, and is available with vibration isolator for reduced transmission of vibration.



Automatic lubrication system des meet American Petroleum Institut standards.

5 Vibration/Temperature sensors

Available for motor and fan bearing monitoring the "health" of the fan.

6 Silencers

Reduce noise levels at inlet and/or discharge.

7 Evasé

Available for improved fan performance. Converts velocity pressure to the more useful static pressure. (Sometimes called static regain.)



nternal drive Variable Inlet Var Ost effective design.

8 Inspection door

Quick-release or standard bolt-on design, available as curved or flat, raised or flush.

9 Safety guards

Inlet and discharge screens, belt guards and shaft guards.

10 Cooling fins/heat deflectors

Dissipates heat from shaft/bearings when fan is operating in high temperature environment.

11 Drain points

Available as threaded plug or ball plug types.

12 Volume measurement

Annubars and other similar equipment can be fitted to measure volume flow at either fan inlet or discharge.

13 Shaft seals

Available in many different types depending on application i.e. noise containment, temperature or to reduce gas contamination.

14 Flexible connections

For isolating any fan vibration from the ducting or structure.

15 Water sprays

Used to reduce buildup materials on the impeller.

16 Lagging and cladding

Insulating the fan for noise or gas temperature.

17 Motors

Electric, pneumatic, combustion, steam turbines, hydraulic etc can be used to power the fan.

18 Welding

Either AirEng Certified Welding Standard or other International Welding Standards can be employed.

19 Anti roll-back clutches

Anti roll-back clutches can be fitted if required.

20 Wear liners

Impellers can be fitted with wear plates for operation in highly erosive environments.

21 Special materials/coatings

Special materials of construction and coatings can be employed in the fan where erosion, high temperature or corrosion may occur, to prolong operational life of the fan.

22 Anti-spark rings

Anti-spark rings can be fitted where flammable or explosive mixtures are moving through the fan.



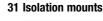
External drive Variable Inlet Vane Used for high temperature or con

23 Lubrication

Automatic lubrication connections, extension oil recirculation and cooling systems can be factory fitted to the fan.

24 Split casing

The fan casing can be constructed in two parts to facilitate easy removal and fitting of the impeller where required.



Are essential where fans are mounted on structures or where transmitted vibration is an issue.

77

32 Modular construction

Fan manufactured in components to allow for installation restrictions, change overs, high wear application etc...



25 Drives

V-belts, direct, coupling, gearbox, variable speed drives can be supplied and fitted to meet the individual requirements of the fan.

26 Hollow shafts

Generally used for high temperature application, lowering the shaft inertia or reducing bearing loads.

27 Variable inlet vanes

A VIV is fitted to control fan airflow were a system requires accurate process control.

28 In-motion balancing

Fixed equipment which continually refines the balance of the fan, this is ideal for fans subject to high concentrations of contaminant.

29 Fully seal welding

Is employed to reduce corrosion at weld joint especially where special coatings are employed.

30 Floating pedestals

Isolating the pedestal from the casing to allow for thermal expansion in high temperature applications.

