



smartfans™

STD series

FAN SERIES COVERING DIAMETERS 1829 MM (6') TO 4880 MM (16'), SPECIFICALLY DESIGNED FOR FIELD ERECTED COOLING TOWERS, AIR COOLED HEAT EXCHANGERS AND AIR COOLED CONDENSER.



“SMART FANS”

The STD series belongs to the smartfans™ family.

Axial Fans Int. has denominated “SMART FANS” the fans family which is employing a very innovative patented design for the blade attachment. Such a blade attachment is causing the blade to be almost insensitive to the alternating loads caused by air turbulence and any other exciting factor. As a consequence, the vibrations on the plant structure are greatly reduced, thus avoiding to the customers a type of problems which too frequently occurs. The vibrations problems are generally detected during commissioning, when very little time is available for an action, therefore can lead to delay in a plant delivery.

PARTICULAR FEATURES

Five different blade profiles, having particular shapes and width, can be used in this fan series.

The possible choice of the profile type associated to the number of blades, has it made possible to better satisfy the customer requirements in a variety of different application, giving preference either to noise reduction or high efficiency.

Any diameter between 6' and 16' can be supplied either for clockwise and counterclockwise rotation.

The blades, which have an adjustable pitch angle, can be assembled easily and as quickly as no other fan in the market. The hub is provided with a conical bushing to shorten the required assembly time.

MATERIALS

Special attention has been given to use, as a standard, materials resistant to corrosion and, when not possible, to protect them against corrosion.

The hub material is aluminum alloy, whereas the airfoil profile, aluminum alloy or UV resistant and antistatic FRP.

For wet cooling tower applications the leading edge of FRP profile is protected by a maintenance free stainless steel sheet.

The blade attachments components are hot deep galvanized steel and aluminum alloy.

Additional polyurethane coating can be applied to any of the above element.

The fasteners are geomet protected steel but stainless steel can be provided on request.