

SERIES 90U GUIDE SPECIFICATION

ALUMINUM ADJUSTABLE PITCH REVERSIBLE FAN ASSEMBLY, ULTRA HIGH TEMP, TYPE AAR

The Aluminum Adjustable Pitch Reversible Fan Assembly, Ultra High Temp, Type AAR, shall be manufactured by Hartzell Air Movement, Series 90U. Standard sizes are 60" and 72", 4 or 6 bladed. The propeller shall be packaged disassembled for shipment. By request it may be completely assembled, dynamically balanced and packaged ready to install.

The propeller blades of balanced airfoil design shall be cast of A240.1 aluminum. The blades feature a retention shoulder which shall fit into a recess in the hub for proper location. A loose cap of cast steel and similar in shape of the hub shall be placed over the exposed blade shank. Four bolts, S.A.E. Grade 5, cadmium plated with Class 2A threads shall be inserted in each cap and through the hub with heavy class nuts and lock washers to securely lock each blade at its proper pitch angle. The hub of welded steel shall be retained on the fan or motor shaft with a split taper bushing.

Standard rotation shall be right-hand or clockwise. Maximum standard construction operating temperature shall be 400° F. The hub and taper bushing shall be bolted together with three Grade 5 bolts. All blades shall have manually adjustable angles by loosening the bolts.

The propellers shall be manufactured in accordance with Hartzell's standard quality assurance procedures. Fan performance shall be obtained by testing full or exact scale models in Hartzell's AMCA accredited test laboratory in accordance with the latest revision of AMCA Standard 210 for air performance and AMCA Standard 300 for sound.

ACCESSORIES:

- Protective Coatings - Include epoxy, coal tar epoxy, and inorganic zinc.