

A-C Fire Pump Builds Large, Two-Piece Fire Pump House System

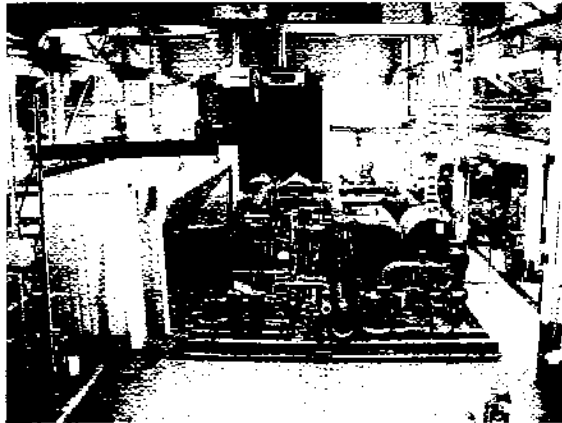
A-C Fire Pump Systems recently designed, built and shipped one of the largest two-piece fire protection packages ever built. The package was so large that it had to be built in two pieces so that it could be shipped via truck from the factory in Morton Grove, Illinois to the installation site in Romulus, Michigan where it was finally assembled.

The A-C Fire Pump package protects the Mesaba Airlines hangar and its expensive aircraft inside at Detroit Metropolitan Airport. Mesaba is Northwest Airlines shuttle airline serving the greater Midwest. Most of the airline's fleet burns highly flammable jet fuel, and because these aircraft are regularly inside the hangar for maintenance, exceptional fire suppression measures are necessary.

The original hangar was destroyed by a windstorm, and the resulting immediate need for a new hangar required that the fire protection equipment be built and installed as a fast track project. The project team included the installing contractor, SimplexGrinnell from Troy, Michigan, the distributor, Underwood Fire Equipment, Inc. from Novi, Michigan, and also the manufacturer, A-C Fire Pump Systems from Morton Grove, Illinois. This team worked together to design, build and install the custom engineered system on an expedited schedule.

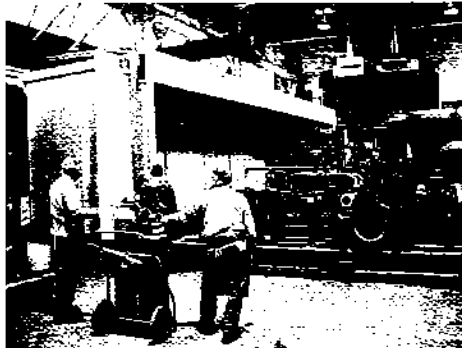
To protect the new 48,000 square foot hangar from fire, Mesaba's foam suppressant system relies on fast delivery of water — 16,000 gallons per minute, under high pressure.

To meet the demanding fire suppression requirements of the Mesaba installation, A-C Fire Pump designed an exceptionally large packaged system that includes four engine-driven fire pumps, altitude valves, suction header, main relief valves, complete discharge piping, and two Bell & Gossett heat transfer packages. The heat transfer packages



protect the water supply by heating one-million gallons of water to prevent it from freezing.

The complete fire pump house system is 40 feet long, 22 feet wide and weighs 50-½ tons. It was built in two separate sections in A-C Fire Pump's Morton Grove

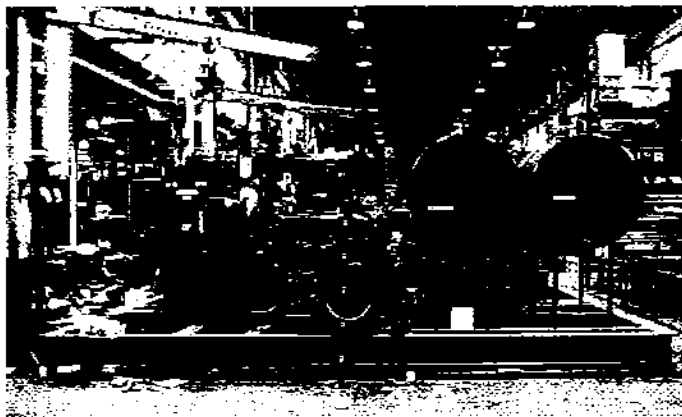


factory, and then the sections were connected together to assure that the halves — and all the piping, couplings and electrical connections would fit together precisely at the airport site.

After a water pressure test and a thorough inspection at the factory by SimplexGrinnell and Underwood Fire Equipment, the inspection team approved the fire protection package. Then the two halves of the pump house were separated for highway shipment to Detroit and final assembly at the airport. One of the final

assembly steps involved the unfolding of a one-piece, sealed roof that covers both sections of the building.

This unique fire protection package for Mesaba



Airlines demonstrates A-C Fire Pump's ability to go above and beyond the ordinary with unique engineering and manufacturing capabilities.

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