

April 2000

SYMPHONY FLOATING FOUNTAIN SPECIFICATION

A. General

The successful supplier will provide a total of _____ Symphony Floating Fountains as manufactured by Aeromix Systems of Minneapolis, Minnesota. Each Symphony provided shall be complete and include all necessary components to make a fully operating system. This includes, but is not limited to: float, motor/pump assembly, spray nozzle, submersible electrical cable, mooring line and timer controller. Each will be of ½ horsepower (0.37 kw), and shall pump water from below the surface into the air, producing a decorative spray pattern. The water spray produced shall transfer oxygen from the atmosphere into the water body. The pumping action shall create mixing within the water body and distribute the dissolved oxygen.

B. Motor Specifications

The motor shall be a water-cooled, water-lubricated, no maintenance design specially manufactured to operate completely submerged. It shall include a stainless steel outer housing, waterproof electrical connector assembly, hermetically-sealed windings and stainless steel shaft. The motor shall be U.L. recognized and incorporate special thrust bearings to take up the propeller thrust load. The motor shall be 115 VAC, single phase, 60 hertz.

C. Propeller Pump Specification

A non-fouling, high-efficiency, axial-flow propeller pump shall be used. The propeller shall be precision cast stainless steel to assure it will not deform due to temperature changes and to maximize abrasion resistance. The pump housing shall be stainless steel for maximum corrosion and abrasion resistance.

D. Fountain Nozzle Disk

A disk with multiple nozzles shall be supplied to produce three separate spray patterns. The disk shall be designed so it can be easily rotated or removed. The nozzle shall be constructed from PVC, polypropylene or polyethylene to assure maximum abrasion and ultraviolet resistance. Four different spray patterns shall be available, three with the nozzle disk and one with the disk removed.

E. Float Specifications

Floats shall be one-piece molded polyethylene with ultraviolet inhibitor. Special molded areas for tie-downs and lighting packages shall be included. Each float shall be filled with marine grade rigid foam. The pump and motor assembly shall mount directly to the float and be easily removed for service.

F. Timer Control

The portable outdoor timer shall include a ground fault circuit interrupt and a grounded plug. The timer control shall be rain proof and made of high impact, outdoor grade plastic.

G. Submersible Electrical Cable

Each aerator shall be supplied with 100 feet (30 m) of 12 gauge SEO type or equal submersible electrical cable.

H. Mooring Line

Each aerator shall be supplied with 75 feet (22.5 m) of nylon mooring line adequately sized for the intended loads.

I. Testing

To confirm proper operation and amp draw, all units shall be completely assembled, operated and tested for proper amp draw in water prior to shipment.

J. Miscellaneous

All components of the Symphony Fountain shall be manufactured in whole or in part in the United States.