# AQUAFIN

# CARROUSEL HEAVY DUTY PUMP

## Peristaltic Spray Pump

manufactured by Quikspray for Aquafin, Inc.

- ☑ **Easy to operate**
- ☑ **Can run dry with no damage**
- ☑ **Low maintenance**
- ☑ **Easy to clean**

### Description

The Quikspray Carrousel Pump operates by peristaltic or squeeze principle. It utilizes three rollers (trigon) which rotate against a soft rubber tube and flatten it against the U-shaped pressure wall of the pump. This squeezing action then forces the material through the system. The soft rubber tube, the heart of the system, is the only part that contacts pumped material. It is inexpensive and easily replaced for damage or wear. The couplings and fittings have been designed to work with lower pumping pressures. Unlike the progressive cavity pump or rotor/stator pumps, the Carrousel can run dry indefinitely without any damage to the equipment, therefore eliminating the need for highly trained technicians.

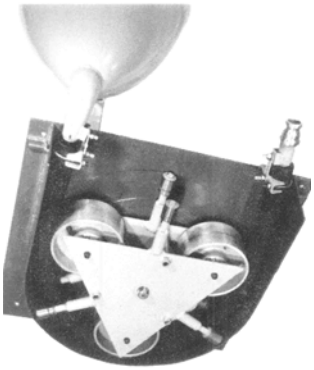
The Carrousel Pump is durable and very easy to maintain, with no moving parts in contact with the product being pumped. The parabolic 18 gallon (68 liters) hopper is designed for easy flow of materials with no corners to clog. Cleaning is simple, a cellulose sponge is inserted in the hopper, and run through the pump and hose with clean water.

The Carrousel Heavy Duty Pump by Quikspray, available with either constant torque AC/DC motor or air-pneumatic motor (hydraulic also available), offers variable speed for different applications. It will pump anything that is near liquid, and can be used for a range of materials including portland cement mixtures, plaster, uncured epoxy mortars and all types of aggregated building materials. The specially designed 8-jet venturi spray nozzle for fiber filled coatings eliminates clogging.

The Carrousel Pump is extremely mobile with its own 4.80/400 - 8 wheels and 16" (400 mm) pneumatic tires.

### Data

| | |
|---|---|
| Motor: | 115 V/60 Hz US (220 V/50 Hz Europe) electric (1 H.P.) or air pneumatic (2 H.P.) |
| Motor Speed: | Variable, 0 - 100% |
| Weight: | Approx. 300 lb (140 kg) |
| Dimensions: | 48" x 31" x 23" (122 x 80 x 60 cm) without hopper<br>53" x 35" x 36" (135 x 90 x 92 cm) with hopper |
| Note: | System requires external mixer and air compressor. Electric version also requires power supply. |
| Air Compressor: | Minimum 18 cfm for electric; 100 cfm for air pneumatic pump required. |




**View of trigon rollers and internal pumping hose**

### Typical Spray Specifications for various products

| | AQUAFIN-IC | | AQUAFIN-2K/M<br>AQUAFIN-1K | | AQUAFIN MORTAR-LN | | FIREPROOFING | |
|---|---|---|---|---|---|---|---|---|
| Quikspray Carrousel Pump | #1020VXS-3 | | #1020VXS-3 | | #12520VXS-3 | | #15020VXS-3-GAM | |
| Spray Hose I.D. | 1" | (25 mm) | 1" | (25 mm) | 1¼" | (32 mm) | 1½" | (38 mm) |
| Nozzle Diameter | ¼" or 5/16" | (6 or 8 mm) | ¼" or 5/16" | (6 or 8 mm) | 3/8" or 2" | (10 or 12 mm) | 5/8" | (16 mm) |
| Spray Pressure | 50 - 70 psi | (3.5 - 4.8 bar) | 70 - 80psi | (4.8 - 5.5 bar) | 25 - 30 psi | (1.7 - 2.1 bar) | 55-60 psi | (3.7-4.2 bar) |
| Pump Speed | 30% | ~ 8 min/bag | 30 - 40% | ~ 6 - 8 min/bag | 80 - 100% | ~ 2 - 3 min/bag | | |
| Output: 1-air jet Polegun | 0.5 G/min | (2 L/min) | 0.6-0.8 G/min | (2 - 3 L/min) | | | | |
| 8-air jet Polegun | 0.6 - 1 G/min | (2 - 4 L/min) | 0.8-1.6 G/min | (3 - 6 L/min) | 1.5-2.4 G/min | (5 - 9 L/min) | ~ 1 $y^3$/hr | (0.8 $m^3$/hr) |
| Spray Distance to Wall | 1.5 - 5 feet | (45 cm-1.5 m) | 1 - 2 feet | (30 - 60 cm) | 1 - 1.5 feet | (30 - 45 cm) | 1-1.5 feet | (30-45 cm) |

**Note:** All above values approximate. Different delivery outputs can be achieved by varying the pump speed, nozzle diameter, spray gun and pump type (gear box ratio, electric, air pneumatic or hydraulic).

USA 01/05

**DISTRIBUTED BY:**

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