

## MIXING/CIRCULATING SYSTEM



# PMF-301A

- ACCURATE
  - PRECISE
  - AUTOMATIC
- ## Volumetric Mixing

- **Like having two machines built into one**, this system is designed for today's high-speed printing presses & features a **Redundant Fail-Safe Backup** for each major system component assuring reliable, dependable performance.
- To guarantee consistent, fresh and accurate solution, the **PMF-301A** isolates the pre-mixed solution in a separate mix tank with a conductivity monitor and alerts the operator via a visual alarm when there is a problem with the mix ratio. This allows corrections to be made before the solution is transferred to the circulator tank and to the presses and assures top-notch print quality.
- Advance Warning System with a Flashing Light & Digital Status Annunciator Panel indicating 21 system functions including conductivity fluctuation, low reagent level, low water pressure, needed filter change & pump failure.
- Fail-Safe Dual Stainless Steel Supply Pumps alternate every 4 hours and automatically switch to back-up for constant solution supply and even wear and tear on the pumps reducing maintenance costs and downtime.
- Built-In Circulation Loop provides continuous mixing of concentrate.
- Programmable Logic Circuit (PLC) for reliable performance.
- UV Sterilizer Loop through Circulator assures the freshest possible chemistry to and from the press dampeners.
- Duplexed Stainless Steel Filtration Canisters for forced filtration and extended filter life.
- Reagent Totalizer monitors total reagent consumption.
- Manufactured with panels that can be removed in just seconds for maximum convenience and accessibility.



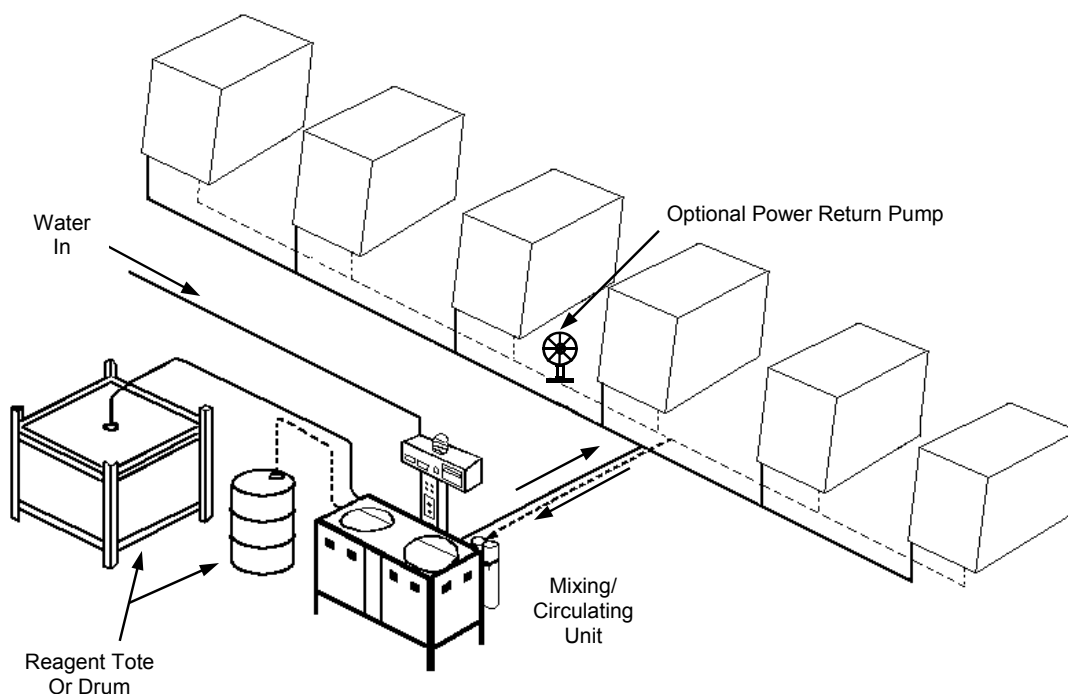
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# PMF-301A Options

- **Remote Reagent Supply**  
Supplies Raw Fountain Solution from Remote Location to Day Tank at PMF-301A System Location
- **Remote Digital L.E.D. Meter**  
For Monitoring Conductivity or pH up to 2,000' from the Main Unit
- **Digital pH Meter**  
With High and Low Alarm Set Points including Terminals for Remote Meter Connection
- **Chilling System**  
1 to 7 1/2 Ton – Air or Water Cooled
- **Power Return Pump**  
1/2" or 1" sized by head pressure & distance
- **Stainless Steel Heat Exchanger**  
With Automatic Control Valve and Digital Control Mounted on the Unit
- **UV Sterilizer for Bacteria Control**  
Pre-Wired and Piped into the By-Pass Loop Interlocked with the Supply Pumps
- **Power Return System**  
For 3-stage filtration. Includes ink absorption and debris filter.
- **Spare Parts Package**



## Specifications & Dimensions

### General

|               |   |
|---------------|---|
| Model:        | PMF-301A  |
| Cabinet Size: | 62" L x 26" D x 41" H                                     |
| Control:      | Programmable Logic Controls<br>Mitsubishi FXIN            |
| Paint:        | Safety Blue (or other colors)                             |
| Weight:       | Shipping: 1,200 lbs.<br>Operating: 1,250 lbs. (estimated) |

### Service Requirements & Connections

|             |  |
|-------------|--|
| Electrical: | Standard power: 208-230V/10 Hz/60<br>(optional voltages available) |
| Water:      | 3/4" fpt 8 GPM at 40 psi Pressure                                  |
| Air:        | 100 psi max at 5 cfm dry and non-lubricated                        |
| Drain:      | 1" fpt connection supplied and recommended                         |

### Operational

|                  |  |
|------------------|--|
| Mixing Capacity: | 240 GPH 1 to 7 oz./gal.<br>(other capacities available)    |
| Siphon Probe:    | 50" long for tote bins standard<br>(others available)      |
| Alarm:           | 2 line programmable status<br>annunciator panel with alarm |