

# UltraAccurate™ System

SOLOMON COLORS



## UltraAccurate™ System

The ColorSelect® PC UltraAccurate System uses a more accurate scale and smaller pumps to achieve a system accuracy of 0.015 pound per pigment. This accuracy is needed when the targets are very small. This is usually seen in plants running multiple small batches to make a multicolored product or plants using white cement. It takes very little pigment to color these batches.

The weigh chamber for the ColorSelect® PC UltraAccurate System uses the same enclosure as the Concrete Products System and has the same footprint. It has the same requirements for air, water and power. This system uses SPX-10 size hose pumps that pump the pigment at ¼ the speed of the SPX-15 hose pumps.

The pumps are controlled by a variable frequency drive and use the same panel as the Concrete Products Systems. The dimensions on the SPX-10 hose pump are 9 inches high, 12 inches wide and 20 inches long, mounted to the T-400 frame.

The holding tank is made from an 8-inch clear acrylic tube. The base has been machined with a greater slope to minimize the water needed for cleaning between batches. The tank sits on a 12 x 12 inch stainless steel scale with a 100-pound load cell configured to read +/- 0.002 pounds. Due to the weight of the tank, the system has a capacity of 30 pounds.



UltraAccurate™ System ●○● Technical Specifications



# UltraAccurate™ System Technical Specifications

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## ColorSelect® PC Liquid Dispensing System UltraAccurate™ System

### Specifications:

- Windows® XP based operating system with LCD (flat screen) monitor
- Solomon Colors Concrete Colors pre-loaded
- Capable of storing numeric and alphanumeric color descriptions
- 2 gallon weigh chamber with platform scale, air purge and water rinse
- Manual or automatic fill and dump cycles
- Four (or five) SPX-10 hose pumps
- Four (or five) V-bottom stationary supply totes, each 400 gallon capacity
- Usage stored in the computer for each pigment
- Continual reporting of on-hand inventory
- Alarms notify operator of out-of-spec conditions, incomplete operation, or malfunction
- NEMA 4 enclosure main panel with remote input/output, two variable speed drives with reversing capability, (one pre-wired as a back-up), five contactors, 1-24 volt power supply, 1-120 volt transformer
- Remote PC based interface with emergency stop

### Physical Size:

- |  |                     |
|--|---------------------|
| • Main Panel                               | 8 x 24 x 36 inches  |
| • 2 gallon weigh chamber (30 lb. capacity) | 22 x 28 x 43 inches |
| • SPX-10 Hose Pump Assembly                | 12 x 20 x 9 inches  |
| • V-bottom pigment supply totes            | 48 x 48 x 85 inches |
| • Delivery tote                            | 48 x 48 x 67 inches |

### System Requirements:

- |                  |  |
|------------------|--|
| • Air            | 80-100 PSI, 40-50 CFM, 3/8 inch FPT      |
| • Water          | 40 PSI continuous pressure, 3/4 inch FPT |
| • Electrical     |  |
| Main Power       | 460V 3-phase, 240V 3-phase               |
| Control Circuits | 110 V                                    |
| Communication    | Ethernet                                 |
| • Plumbing       |  |
| Pump Suction     | 1 1/2-inch suction hose                  |
| Pump Discharge   | 3/4 nylon tube                           |
| Delivery         | 1 inch rubber hose                       |

### System Configuration:

- Weigh Chamber must be located above mixer, 15 feet optimum
- Pumps to Weigh Chamber, 50 feet optimum
- Pump Panel should be located in close proximity to pumps
- Pump Panel to PC, 300 feet maximum

