

UMP SERIES

2 and 3 product Warewash Control Systems

The UMP Series offers the most comprehensive and versatile line of warewash control. With a proven history of durability and reliability, the UMP Series now adds digital technology, 3 product capability, and a fresh new look. The new generation of UMP offers a digital menu that simplifies operation and installation. The platform also offers specialized ready to use models to facilitate installation whether you need probe, probeless, or autosense. Any warewash application can be accommodated by the UMP family.



UMP Probeless



UMP Digital



UMP AutoSense



- Multiple product models offered for maximum application and price flexibility
- Component interchangeability with original UMP and Micro-Pro series dispensers
- **UMP Digital:** Premiere digitally programmable warewash chemical feed and control system that offers probe, probeless, and autosense functionality.
- **UMP AutoSense:** The first in the industry! UMP AutoSense is made so there is no electrical wiring necessary, so anyone can install. The UMP AutoSense is pre-configured with a probe setting designed to operate without a requirement for a detergent signal.
- **UMP Probeless:** Value price unit that is pre-configured to operate in probeless mode
- **UMP Classic:** Versatile analog warewash unit with both probe or probeless functionality

UMP Digital Benefits and Features

UMP Digital, UMP Probeless, UMP AutoSense



- Easy to program digital menu
- Multi-language including English, Spanish, French, German, Dutch, Italian and Polish
- Password protected
- Rack count functionality
- Numeric variable speed, rinse limit, rinse delay, and alarm delay
- Precise and accurate digital settings
- No need to open the unit to set the controls
- Reduced training and installation times
- Durable, water resistant plastic case
- New circuit board design and pump motors for maximum reliability

- A** Rinse Pump
- B** Detergent Pump
- 1** Rinse Pump
- 2** Sanitizer Pump
- 3** Detergent Pump



Easy to Set-Up and Maintain

Knight's new UMP Digital is built to save you money, and make warewash set-up and control easy. There is no need to open the case to adjust the controls. The digital programming menus and push button calibration offer quick set-up for chemical, timer, and other controlled functions. The digital numerical settings ensure accurate control over your warewash needs. The intuitive user interface is incredibly fast and easy to program. Set up in just 5 minutes! You can dramatically reduce service time and offer accurate control for bottom line cost savings.

Specifications

| | UMP 2 Product | UMP 3 Product |
|----------------------|--|---|
| Size | W 8.75" x H 7.5" x D 5" (W 22 cm x H 19 cm x D 13 cm) | W 9" x H 8" x D 5" (W 23 cm x H 20 cm x D 13 cm) |
| Power | 120, 208, 240 VAC, 50/60 Hz | 120, 208, 240 VAC, 50/60 Hz |
| Rinse Flow Rate | .1 oz/min - 1.5 oz/min (3-45 ml/min) | .1 oz/min - 1.5 oz/min (3-45 ml/min) |
| Detergent Flow Rates | 8 oz/min (230 ml/min) | 8 oz/min (230 ml/min) |
| Sanitizer Flow Rates | | .2 oz/min - 3.0 oz/min (6-90 ml/min) |

UMP SERIES Model Feature Comparison

| Mode | UMP Digital | | | | | | UMP AutoSense | | UMP Probeless | | UMP Classic | | | |
|---|-------------|------------|------------|------------|------------|------------|---------------|------------|---------------|------------|-------------|------------|------------|------------|
| | Probe | | Probeless | | AutoSense | | AutoSense | | Probeless | | Probe | | Probeless | |
| Dishmachine Type | Door | Conveyor | Door | Conveyor | Door | Conveyor | Door | Conveyor | Door | Conveyor | Door | Conveyor | Door | Conveyor |
| Digital | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Analog | | | | | | | | | | | ● | ● | ● | ● |
| Rinse Speed | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% |
| Sanitizer Speed (Only available for 3 product UMP) | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | 0-100% | | | | |
| Rinse Limit | 0-30s | | 0-30s | | 0-30s | | 0-30s | | 0-30s | | 0-30s | | 0-30s | |
| Rinse Delay | 0-14s | | 0-14s | | 0-14s | | 0-14s | | 0-14s | | 0-14s | | 0-14s | |
| Initial Charge | | | 0-150s | 0-128s | | | | | 0-150s | 0-128s | | | 0-60s | 0-128s |
| Recharge | | | 0-30s | 0-10s | | | | | 0-30s | 0-10s | | | 0-10s | 0-10s |
| Recharge After n Racks | | | 1-20 | 1-20 | | | | | 1-20 | 1-20 | | | | |
| Concentration | 0-100k | 0-100k | | | 0-100k | 0-100k | 0-100k | 0-100k | | | 0-100k | 0-100k | | |
| Auto Concentration | | | | | 0-20 | 0-20 | 0-20 | 0-20 | | | | | | |
| Alarm Delay | 0-512s | 0-512s | | | 0-512s | 0-512s | 0-512s | 0-512s | | | 0-512s | 0-512s | | |
| Password | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Language | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Reset Rack Count | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Reset Initial Charge Count | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Low Level Alarm for det. / rinse | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Concentration Alarm | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | | |
| Prime Function | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 | Output 1+2 |
| Mute Function | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Rack Count | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| Delime Mode | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |

UMP SERIES

The UMP platform offers specialized ready to use models to facilitate installation whether you need probe, probeless, or autosense functionality. UMP products offers maximum applications and price flexibility, depending on your needs. Any warewash application can be accommodated by the UMP family.

UMP Digital



**Any warewash needs
Probe, Probeless, AutoSense
Flexibility**

UMP Digital is a multi-product, state of the art warewash chemical feed and control system for commercial dishwashing machines of all sizes. The UMP Digital has the versatility of handling probe or probeless or autosense. The simple interface and digital menu allows for quick and installation and simple operation. The UMP Digital offers flexibility, a complete set of features, and simply makes your warewash needs easy. It is simply the premiere digitally programmable warewash control system.

- 2 or 3 product units
- Probe, Probeless, or AutoSense
- Complete functional flexibility
- Comprehensive features
- Versatile to any warewash needs
- Fast, easy, and precise set-up
- Digital menu and settings

UMP AutoSense



**No electrical wiring!
Just plug it into the wall
Anyone can install**

UMP AutoSense is a revolutionary warewash unit that needs no wiring. It is ready to go right out of the box! With an optional plug to plug into the wall, it simplifies installation so anyone can install. The UMP AutoSense is pre-configured with a probe setting designed to operate without a requirement for a detergent signal. Detergent feed is activated by the probe when it detects water. When water is detected, the UMP will dispense detergent until the set point is reached. This will dramatically reduce installation time and incredibly simplify the set-up!

- 2 or 3 product units
- Pre-configured to operate in autosense mode
- Ideal for those who don't want to do electrical wiring
- Anyone can install it, just plug it into the wall with an optional plug
- Value priced with a full line of features

UMP Probeless



**Probeless mode
Digital menu and setting
Value priced**

UMP Probeless is a digital warewash unit that is pre-configured to operate in probeless mode. UMP Probeless controls detergent concentration without a probe and is based on timed detergent feed modes. This allows for a quicker and easier probeless installation at a value price. The UMP Probeless offers full line of features such as a digital menu, password protection, multi-language, and rack count.

- 2 or 3 product units
- Pre-configured to operate in probeless mode
- Quick and simple installation
- Digital menu and settings
- Precise pump speed control
- Password protection
- Rack count
- Full line of features
- Value priced

UMP Classic

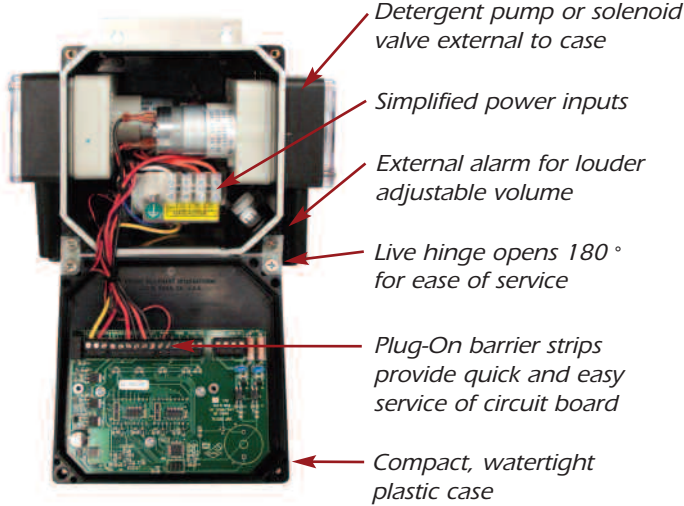


**History of reliability
Probe or Probeless
Analog Controls**

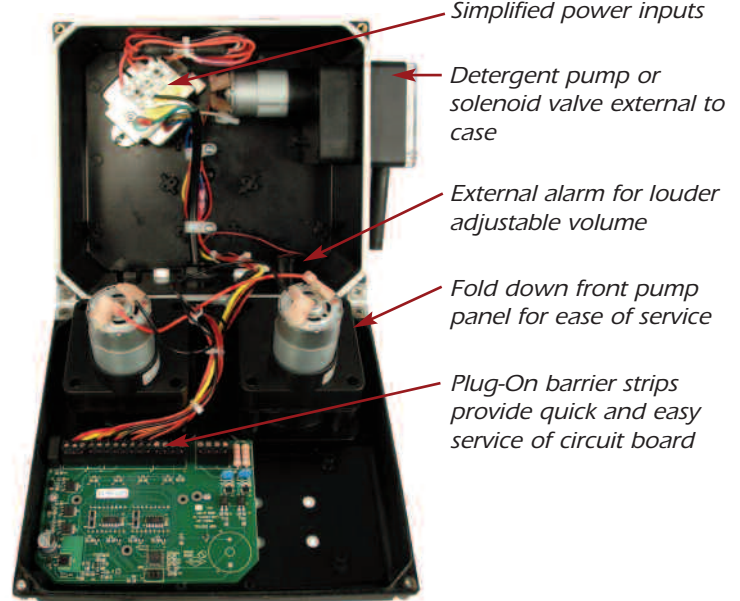
The UMP Classic is Knight's traditional warewash unit with a fresh new look. UMP Classic offers a long history of reliability and durability. The UMP Classic provides the options of probe or probeless detergent control through advanced micro-processor design. With the capability of controlling up to two products, and the choice of liquid or dry detergent, most warewash application can be accommodated.

- 2 product unit
- Analog controls with potentiometer settings
- Versatile to warewash needs
 - Probe or Probeless
 - Liquid or dry detergent
 - Door and conveyor dishwashers
- Proven history of reliability and durability
- Alarm volume control
- New pump motors

UMP 2 Product



UMP 3 Product



ORDERING INFORMATION

UMP Series

UMP DIGITAL

| Model | Part Number | Description | |
|-------------------|-------------|---|----------------------|
| UMP Digital-100 L | 7162900-07 | UMP Digital with KP-500 (7.7 oz)(227 ml.) Pump for Liquid Detergent | 115/208/230V 50/60Hz |
| UMP Digital-100 D | 7162905-07 | UMP Digital with Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |
| UMP Digital-200 L | 7162910-07 | UMP Digital with KP-500 (7.7 oz)(227 ml.) Pumps for Liquid Detergent and Rinse | 115/208/230V 50/60Hz |
| UMP Digital-200 D | 7162915-07 | UMP Digital with KP-500 (7.7 oz)(227 ml.) Pump for rinse and a Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |
| UMP Digital-300 L | 7162310-07 | UMP Digital with KP-500 (7.7 oz)(227 ml.) Pumps for Liquid Detergent and Rinse and Sanitize | 115/208/230V 50/60Hz |
| UMP Digital-300 D | 7162315-07 | UMP Digital with KP-500 (7.7 oz)(227 ml.) Pump for rinse and a Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |

UMP PROBELESS

| Model | Part Number | Description | |
|---------------------|-------------|---|----------------------|
| UMP Probeless-100 L | 7162900-PS | UMP Probeless with KP-500 (7.7 oz)(227 ml.) Pump for Liquid Detergent | 115/208/230V 50/60Hz |
| UMP Probeless-100 D | 7162905-PS | UMP Probeless with Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |
| UMP Probeless-200 L | 7162910-PS | UMP Probeless with KP-500 (7.7 oz)(227 ml.) Pumps for Liquid Detergent and Rinse | 115/208/230V 50/60Hz |
| UMP Probeless-200 D | 7162915-PS | UMP Probeless with KP-500 (7.7 oz)(227 ml.) Pump for rinse and a Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |
| UMP Probeless-300 L | 7162310-PS | UMP Probeless with KP-500 (7.7 oz)(227 ml.) Pumps for Liquid Detergent and Rinse and Sanitize | 115/208/230V 50/60Hz |
| UMP Probeless-300 D | 7162315-PS | UMP Probeless with KP-500 (7.7 oz)(227 ml.) Pump for rinse and a Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |

UMP AUTOSENSE

| Model | Part Number | Description | |
|---------------------|-------------|---|----------------------|
| UMP AutoSense-100 L | 7162900-AS | UMP AutoSense with KP-500 (7.7 oz)(227 ml.) Pump for Liquid Detergent | 115/208/230V 50/60Hz |
| UMP AutoSense-100 D | 7162905-AS | UMP AutoSense with Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |
| UMP AutoSense-200 L | 7162910-AS | UMP AutoSense with KP-500 (7.7 oz)(227 ml.) Pumps for Liquid Detergent and Rinse | 115/208/230V 50/60Hz |
| UMP AutoSense-200 D | 7162915-AS | UMP AutoSense with KP-500 (7.7 oz)(227 ml.) Pump for rinse and a Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |
| UMP AutoSense-300 L | 7162310-AS | UMP AutoSense with KP-500 (7.7 oz)(227 ml.) Pumps for Liquid Detergent and Rinse and Sanitize | 115/208/230V 50/60Hz |
| UMP AutoSense-300 D | 7162315-AS | UMP AutoSense with KP-500 (7.7 oz)(227 ml.) Pump for rinse and a Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |

UMP CLASSIC

| Model | Part Number | Description | |
|-------------------|-------------|---|----------------------|
| UMP Classic-100 L | 7162815-07 | UMP Classic with KP-500 Pump (7.7 oz)(227 ml.) for Liquid Detergent | 115/208/230V 50/60Hz |
| UMP Classic-100 D | 7162805-07 | UMP Classic with Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |
| UMP Classic-200 L | 7162810-07 | UMP Classic with KP-500 (7.7 oz)(227 ml.) Pumps for Liquid Detergent and Rinse | 115/208/230V 50/60Hz |
| UMP Classic-200 D | 7162815-07 | UMP Classic with KP-500 (7.7 oz)(227 ml.) Pump for rinse and a Water Solenoid for Dry Detergent | 115/208/230V 50/60Hz |

UMP ACCESSORIES

| Model | Part Number | Description |
|-------|-------------|--|
| | 7110126 | Flow Switch 18, w/o bell, with 25' of cable, 18" probe with float sensor |
| | 7110127 | Flow Switch 8.8, w/o bell, with 10' of cable, 9" probe with float sensor |

KNIGHT LIMITED WARRANTY

Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE YEAR. All Electronic Control Boards have a TWO YEAR warranty. Warranty applies only to the replacement or repair of such parts when returned to the factory with a KRA number, freight prepaid and found to be defective upon factory inspection. Rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty. Knight products are not for use in potentially explosive environments. Any use of our equipment in such an environment is at the risk of the user. Knight does not accept any liability in such circumstances.

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