Belimed
Infection Control

WA 290 Automation System

Product Description

The WA 290 Automation System is used with the WD 290 IQ washer–disinfector. Combined with a sliding glass return gate the system can be used in closed loop mode, with the racks always remaining on the system, or in a modified closed loop, removing racks from the system.

The system will queue racks, automatically move the next rack to an available washer, load the rack and start the washer cycle. It will then automatically unload the washer when the cycle is complete.

Application

For use in Healthcare facilities with the Belimed WD 290 IQ automated washer–disinfector.

Standards

- CENELEC EN 60947-4-1. Issued:2001/02/01
  Low-Voltage Switchgear and Controlgear Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters; A1:2002; A2:2005; IEC 60947-4-1: 2000
- IEC 60947-1:2011-03 Ed 5.1
  Low-Voltage Switchgear and Controlgear Part 1: General Rules (IEC 60947-1:2011-03 Edition 5.1)
- IEC 61000-3-2, 3-3, 4-4, 4-6, 4-8, 4-11. Electromagnetic Compatibility
- UL 60947-4-1A. Issue:2007/01/26 Ed:2 Rev:2011/04/29
  Low-Voltage Switchgear and Controlgear Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters
- CSA C22.2#60947-4-1. Issued: 2007/01/26
  Low-Voltage Switchgear and Controlgear Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters

Standard Features

Construction/Design

Panels – Stainless steel

Frames – Stainless steel for strength and durability

Power Source – Universal input power supply, 50/60hz, 90-240VAc with 24 VDC output

Conveyance – Accomplished through a hidden timing belt drive with 24 VDC motors which turn polymer rollers

Drainage – Stationary modules have integrated gravity drain port which is run to a floor drain

Queuing – Modular queuing allows 3-9 rack capacity

System Bypass – A suspend button located on the shuttle temporarily stops the system to allow a rack to be manually loaded into a washer

Weight Capacity – Will accommodate rack weight up to 265 lbs

Control System – ASi bus system with touch screen and PLC control.

Obstruction Detection – Shuttle includes a pressure sensitive switch and will stop when an obstruction is present

Travel Mode – Shuttle rides on a precision linear bearing and rail.

Vertical Lift Mechanism – Single air spring, rated at 1350 lbs. One per unload module

Shuttle Power – 24 VDC Battery, recharged while in home position

Shuttle Communication – Wireless to main control system

Preventive Maintenance

Belimed recommends regular preventive maintenance to ensure proper operation of the equipment. Belimed maintains a nationwide, factory trained Service Technician Group who can perform this maintenance and/or train Biomedical staff on the proper procedure. Belimed also offers a number of PM Plans.

Contact Belimed Technical Service for more details.

Technical Information - Refer to Cut Sheet
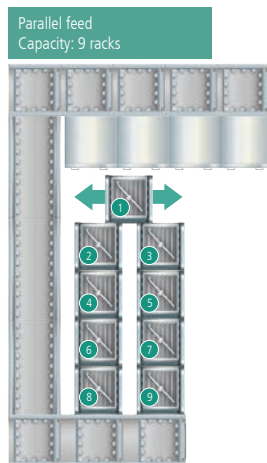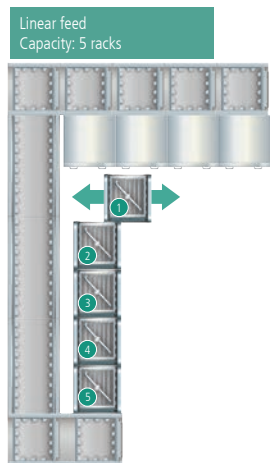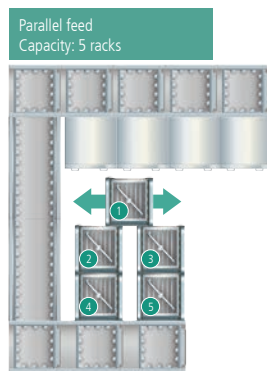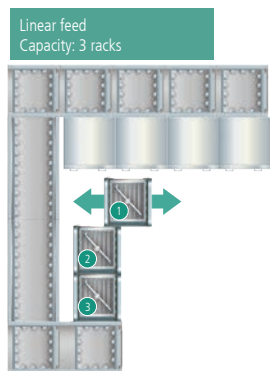
For more information, visit belimed.com

WA 290 Automation System

Configurations

System is available in many configurations, built from modular components: shuttle, unload module, staging return module, return conveyor, return gate, and queuing module.

In-Feed Queuing Options

· 3 rack queue, linear in-feed
· 5 rack queue, linear in-feed
· 5 rack queue, parallel in-feed
· 9 rack queue, parallel in-feed

Linear feed
Capacity: 3 racks

Parallel feed
Capacity: 5 racks

Linear feed
Capacity: 5 racks
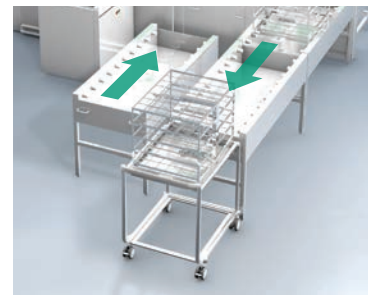
Parallel feed
Capacity: 9 racks

Optimized Workflows

Optimized workflows make a significant contribution to the efficiency of your CSSD. A good automation solution adapts to your processes. The WA 290 meets this requirement. The system is available as Direct Dock and Cross Conveyor.

Load and Un-load Option

· Direct Dock loads and unloads a rack to and from a transport cart
· Cross Conveyor keeps the racks on the WA 290 System, but also allows use of a transport cart
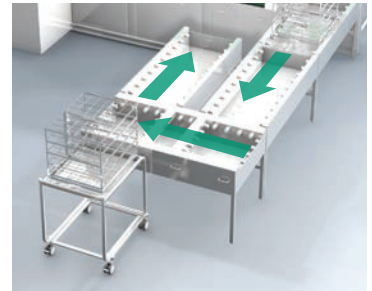
Direct Dock

· Less space required
· Return transport and feed line separated
· Automation support for loading transport carts

Cross Conveyor

· Closed loop
· Racks can remain on the system or be removed

Engineers of Confidence.

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