

CS720/CS721 Cart Washer Product Specification

Product Description

The CS720/CS721 Cart Washers are designed to effectively, and quickly, wash and dry case carts, containers, basins and utensils while using minimal water. Both base models are available in various chamber sizes to fit capacity and throughput needs of each SPD. All models are dual door.

Application

Sterile Processing Departments

Models & Dimensions

Model	Chamber Size w x h x d (cm)	Install Dimensions w x h x d in (cm)
CS720 160/175	39" x 69" x 63" (100 x 175 x 160)	120" x 114" x 108" (305 x 290 x 275)
CS720 160/200	39" x 79" x 63" (100 x 200 x 160)	120" x 126" x 108" (305 x 320 x 275)
CS720 230/175	39" x 69" x 90" (100 x 175 x 230)	120" x 114" x 135" (305 x 290 x 340)
CS720 230/200	39" x 79" x 90" (100 x 200 x 230)	120" x 126" x 135" (305 x 320 x 340)
CS720 270/175	39" x 69" x 106" (100 x 175 x 270)	120" x 114" x 151" (305 x 290 x 380)
CS720 270/200	39" x 79" x 106" (100 x 200 x 270)	120" x 126" x 151" (305 x 320 x 380)
CS721 160/175	39" x 69" x 63" (100 x 175 x 160)	120" x 114" x 108" (305 x 290 x 275)
CS721 160/200	39" x 79" x 63" (100 x 200 x 160)	120" x 126" x 108" (305 x 320 x 275)
CS721 230/175	39" x 69" x 90" (100 x 175 x 230)	120" x 114" x 135" (305 x 290 x 340)
CS721 230/200	39" x 79" x 90" (100 x 200 x 230)	120" x 126" x 135" (305 x 320 x 340)
CS721 270/175	39" x 69" x 106" (100 x 175 x 270)	120" x 114" x 151" (305 x 290 x 380)
CS721 270/200	39" x 79" x 106" (100 x 200 x 270)	120" x 126" x 151" (305 x 320 x 380)

Note: Reference only. Refer to cut sheet for construction purposes

Options & Accessories

Options

- No Pit Option
- Seismic Anchoring Kit

Accessories

- Container Wash Cart



Standards

Standard Features

Construction / Design

Loading Height – Standard configurations require a pit mount for ground level loading. A no pit option, with in and out ramps is available when a pit cannot be constructed

Chamber – The Stainless Steel pan is self-supported without seams to protect against leaks. The roof is designed as a ridged structure to support the additional components. The stainless steel ceiling is pitched to avoid accumulation of water droplets. External surfaces, roof and sides, are insulated with fiberglass and covered with steel sheeting

Angled Chamber Ceiling – A pitched angle ceiling directs water to the sides of the chamber and minimizes dripping on the washed goods, aiding in reduction of the dry time

Doors – Inward opening bi-fold doors prevent water from dripping outside the chamber. Doors include round windows for observation

Control System - Stored-program control with 8 megabytes flash memory. Handling time 2.5 ms. RS 485 / RS 232 - user interface
 Safety switching (cycle monitor in case of programs fault)
 9 combinations of wash and disinfecting programs
 Service Mode for checking the inputs and outputs
 Adjustable programs by means of the front panel
 System Cycle Counter
 Easy to read LCD front Panel
 Program Indication and Fault indication

Wash Rings – Dual wash ring system dedicates one ring to wash water and a second to rinse water. Three selections for cart height, on the input display, are available. The rings will only

CS720/CS721 Cart Washer Product Specification

travel as high as the selected height to maximize time spent applying water to the carts. The wash and rinse rings surround the entire cart and apply fluid to all 4 sides

Tilt Mechanism - By means of pneumatically driven cylinders mounted on the chamber roof the traveling rail pallet can be brought into an inclined position during both wash and dry programs. The inclined position prevents formation of water puddles on flat cart surfaces and increases the drying effect.

Rinse Heat Exchanger - The rinse water is heated inside the tubular heat exchanger by a steam coil and control valve. Hot water passes through the heat exchanger during the rinse cycle to super heat the loaded carts and rinse away residues from cleaning.

Dryer – A standard dryer is include with all CS720 models while the CS721 models include a high capacity drier for faster cycle times

Tank Wash System – Wash water is saved and reused to minimize water use. It is programmed to dump and refill once a day

Display Panel – A color touch panel is used for operator control and display of cycle parameters.

Cycle Description

Wash – Hot water is dosed and stored in a wash tank and recirculated. Once a day the tank is emptied to the drain and refilled and re-dosed with detergent.

Rinse / Thermal Rinse – Fresh hot water is used and heated by a steam driven heat exchanger. The rinse water is then sent to the wash tank, as a refresh, and is dosed with detergent.

Drying – Fresh air is pulled in and then passed over a steam heat exchanger. The air is vented through a damper.

Automation

Not available with these models.

Preventive Maintenance

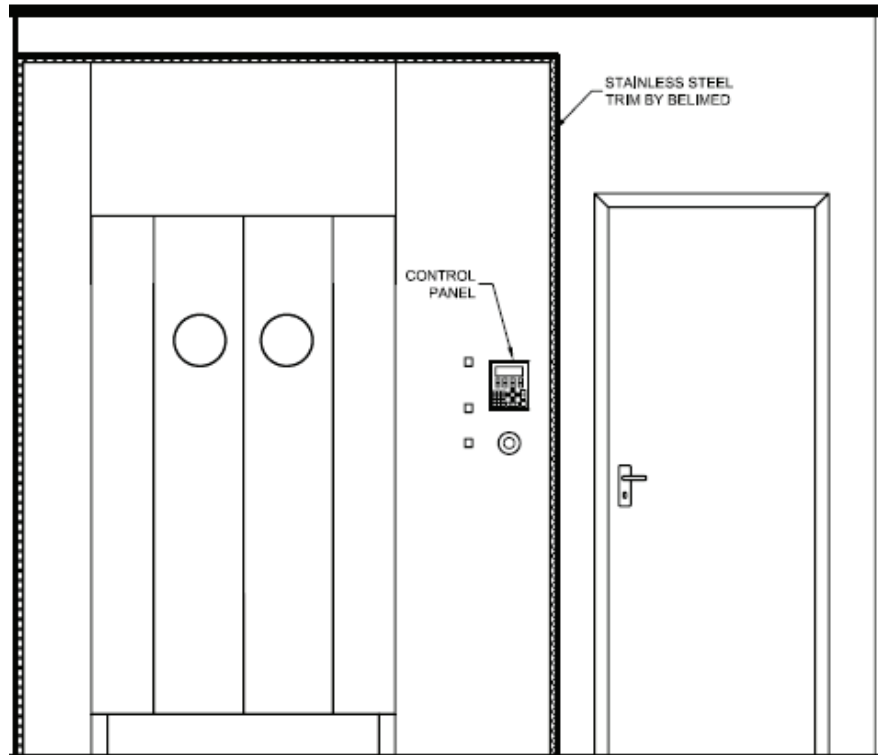
Belimed recommends regular preventive maintenance to ensure proper operation of the equipment. Belimed maintains a nationwide, factory trained Service Technician Group who can perform this maintenance and/or train Biomedical staff on the proper procedure. Belimed also offers a number of PM Plans. Contact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

CS720/CS721 Cart Washer Product Specification

Technical Information

For REFERENCE Only – Refer to Cutsheets for Construction Purposes

Model	Install Dimensions w x h x d in (cm)
CS720 160/175	120" x 114" x 108" (305 x 290 x 275)
CS720 160/200	120" x 126" x 108" (305 x 320 x 275)
CS720 230/175	120" x 114" x 135" (305 x 290 x 340)
CS720 230/200	120" x 126" x 135" (305 x 320 x 340)
CS720 270/175	120" x 114" x 151" (305 x 290 x 380)
CS720 270/200	120" x 126" x 151" (305 x 320 x 380)
CS721 160/175	120" x 114" x 108" (305 x 290 x 275)
CS721 160/200	120" x 126" x 108" (305 x 320 x 275)
CS721 230/175	120" x 114" x 135" (305 x 290 x 340)
CS721 230/200	120" x 126" x 135" (305 x 320 x 340)
CS721 270/175	120" x 114" x 151" (305 x 290 x 380)
CS721 270/200	120" x 126" x 151" (305 x 320 x 380)



Note: Access door to the service area not supplied by Belimed

CS720/CS721 Cart Washer Product Specification

BELIMED CART WASHER MODEL CS-720						
Ref.	Utility	Connection	Pressure	Peak Consumption	Consumption Per Load	Utility Requirement Per Cart Washer (By Customer)
1 2 (HW)	Hot Water	3/4" NPT	35-70 psig	8 gpm	9.5 gal	Water must be softened to 0-60 ppm. Minimum water temperature is 120°F.
3 4 12 (SS)	Steam	1" NPT	40-70 psig	12 lb/min	19 lb	Steam must be dry, saturated, free from all impurities such as gases, oil, dirt, or other contaminants. Provide steam strainer with (0.03"-0.045") mesh size. Steam drop must be piped from top of steam supply line.
5 6 13 (CD)	Condensate	3/4" NPT				Condensate removal by customer as per local code.
7 (CA)	Compressed Air	1/2" NPT	100 psig	25 CFM	7 ft3	Air must be dry and oil free. Connection must be provided above service clearance line.
8 (EL)	Electricity	Junction Box			1.2 kWh	5-Wire ; 3-Phase ; 208 V ; 60 Hz ; 50A. Customer must provide neutral and ground. Connection must be provided above service clearance line.
9 (SD)	Supply Tank Drain	2"Ø				Provide 2" copper drainpipe leading to drain #10, after cart washer is in place.
10 (FD)	Floor Sink	3"Ø				Provide drain and trap, flush with pit bottom.
11 (EX)	Exhaust	8"Ø		880 CFM		10" minimum duct diameter. Exhausted air will be at 100% relative humidity. Duct materials can be synthetic polypropylene, galvanized steel, or stainless steel. All joints and seams must be sealed. Fresh make-up air is suctioned from inside the equipment room. Connection must be provided above service clearance line.
14 (WC)	Water Hose Connection					Provide standard garden hose connection for cleaning of supply unit bin.

Cart Washer Size	Net usable dimensions			Weight [lb]
	Width [in]	Length [in]	Height [in]	
160/175	39 1/4	63	68 7/8	4730
160/200	39 1/4	63	78 3/4	4840
230/175	39 1/4	90 1/2	68 7/8	4840
230/200	39 1/4	90 1/2	78 3/4	4950
270/175	39 1/4	106 1/2	68 7/8	4950
270/200	39 1/4	106 1/2	78 3/4	5060

Supply Unit	Consumption per tank fill*
Water:	92.5 gal
Steam:	70.5 lb
Weight:	1452 lb (full)
Width:	24 1/2"
Length:	41 1/4"
Height:	58 3/4"

Heat Transfer	
Area	Rate [W]
Utility room:	2400
Decontam side:	800
Clean side:	800
Total:	4000

* The supply unit can be programmed to dump its contents, reload, and reheat water as required. Daily water and steam consumption will vary based on number of cycles per day and program choice.

Additional Information:

- NPT = Male pipe thread
- Customer to provide lighting for cart washer utility room. Location must be above service clearance line.
- Customer to provide Shut-off valves for HW, SS, CD, CA and WC.
- Detergent containers will be located inside cart washer utility room.
- All final utility connections are by customer, after equipment has been erected in final location.

CS720/CS721 Cart Washer Product Specification

BELIMED CART WASHER MODEL CS-721						
Ref.	Utility	Connection	Pressure	Peak Consumption	Consumption Per Load	Utility Requirement Per Cart Washer
1, 2 (HW)	Hot Water	3/4" NPT	35-70 psig	8 gpm	9.5 gal	Water must be softened to 0-60 ppm. Water temperature range between 120-140 °F.
3, 4, 5 (SS)	Steam	1" NPT	40-70 psig	12 lb/min	19 lb	Steam must be dry, saturated, free from all impurities such as gases, oil, dirt, or other contaminants. Provide steam strainer with mesh opening of (0.03"-0.045"). Steam drop must be piped from top of steam supply line.
6, 7, 8 (CD)	Condensate	3/4" NPT				Condensate removal by customer as per local code.
9 (CA)	Compressed Air	1/2" NPT	100 psig	25 CFM	7 ft3	Air must be dry and oil free. Connection must be provided above service clearance line.
10 (EL)	Electricity	Junction Box			1.2 kWh	5-Wire ; 3-Phase ; 208 V ; 60 Hz ; 50A. Customer must provide neutral and ground. Connection must be provided above service clearance line.
11 (SD)	Supply Tank Drain	2"Ø				Provide 2" copper drainpipe leading to drain #7, after cart washer is in place.
12 (FD)	Floor Sink	3"Ø				Provide drain and trap, flush with pit bottom.
13 (EX)	Exhaust	8"Ø		880 CFM		10" minimum duct diameter. Exhausted air will be at 100% relative humidity. Duct materials can be synthetic polypropylene, galvanized steel, or stainless steel. All joints and seams must be sealed. Fresh make-up air is suctioned from inside the equipment room. Connection must be provided above service clearance line.
14 (WC)	Water Hose Connection					Provide standard garden hose connection for cleaning of supply unit bin.

Cart Washer Size	Net usable dimensions			Weight [lb]
	Width [in]	Length [in]	Height [in]	
160/175	39 1/4	63	68 7/8	4730
160/200	39 1/4	63	78 3/4	4840
230/175	39 1/4	90 1/2	68 7/8	4840
230/200	39 1/4	90 1/2	78 3/4	4950
270/175	39 1/4	106 1/2	68 7/8	4950
270/200	39 1/4	106 1/2	78 3/4	5060

Supply Unit	Consumption per tank fill*
Water:	92.5 gal
Steam:	70.5 lb
Weight:	1452 lb (full)
Width:	24 1/2"
Length:	41 1/4"
Height:	58 3/4"

Heat Transfer	
Area	Rate [W]
Utility room:	2400
Decontam side:	800
Clean side:	800
Total:	4000

* The supply unit can be programmed to dump its contents, reload, and reheat water as required. Daily water and steam consumption will vary based on number of cycles per day and program choice.