

# Professional cleaning and decontamination

SCBA, PPE and other firefighting-related equipment



Contamination is real, and it's dangerous.

# Breathe easy with TopClean M

The simple solution for reliable cleaning and decontamination

As the leading global designer and manufacturer of cleaning, sanitizing and disinfection technology for nearly 100 years, MEIKO can help you take safety and hygiene to a whole new level.

**TopClean M** decontaminates and cleans breathing apparatus equipment thoroughly, providing the same high level of protection every time to reduce additional exposure to carcinogens.



**NIKE** **GiO**  
controlled MODUL  
MEIKO technology

Inside cabinet height:  
16.54" (420 mm)

MEIKO's DECON Series equipment washers have been qualified by MSA to clean MSA G1 SCBA.

**Dimensions:**  
Height: 33.38" - 35.43" (860-900 mm)  
Width: 23.62" (600 mm)  
Depth: 23.62" (600 mm)

## DECON Series: Firefighter tested, reliable and economical

The DECON Series of equipment washers was first conceptualized in 2010 by MEIKO's parent company, headquartered in Germany. Phase 1 focused on creating a top-of-the-line respiratory mask washer. Called TopClean M, members of the product development team included the country's leading respiratory protection equipment manufacturers, and professionals in the German fire service.

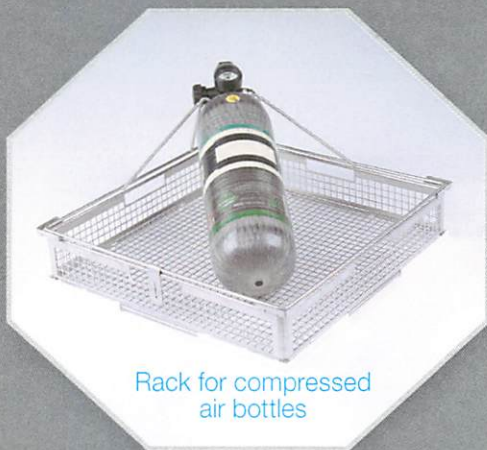
## Today, MEIKO offers a multiple-machine solution: DECON TopClean M and TopClean D

These specialized equipment washers use temperature, time and chemo-mechanical action to provide exceptional cleaning that helps protect firefighters from residual fire-related toxins.

And these expertly built machines draw on nearly 100 years of professional warewashing knowledge and experience to produce clean like you've never seen. It's clean you can see. Clean you can smell. Clean you can trust. Only from MEIKO.

## TopClean M | DECON SERIES racks and holders

Respirator rack comes standard with TopClean M



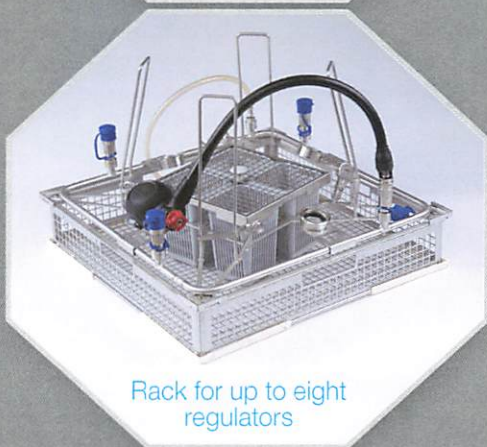
Rack for compressed air bottles



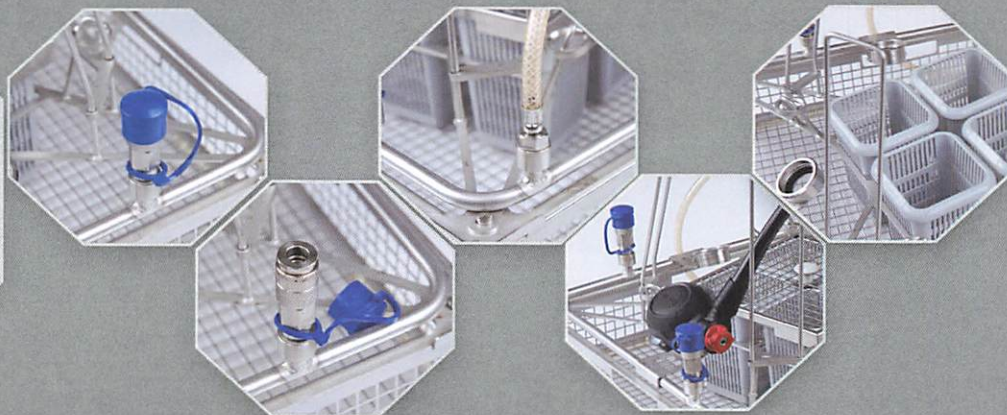
Rack for up to 4 respirator masks



Rack for SCBA



Rack for up to eight regulators



## TopClean M

The benefits are clear from the very first wash

### MEIKO *GiO* MODULE:

Technology that provides the **purest water possible**.

The highest quality water produces the cleanest possible masks and equipment, reducing the risk of exposure to residual toxins.

### MEIKO's reverse osmosis (RO) system components and safety assembly include:

- Stop valve.
- 10  $\mu\text{m}$  integrated fine filter.
- Pipe vent/non-return valve.
- Active integrated charcoal filter.

### How you benefit:

- Best-in-Class cleaning results.
- Longer maintenance intervals.
- Enhanced equipment safety and reliability.

### Process safety and reliability

Regulators can be pressurized with **breathing air** throughout the entire cleaning cycle. This ensures that no moisture penetrates during the cleaning process.

### The right chemistry

For the best cleaning results from your equipment, we recommend MEIKO's DECON detergents and rinse aids.

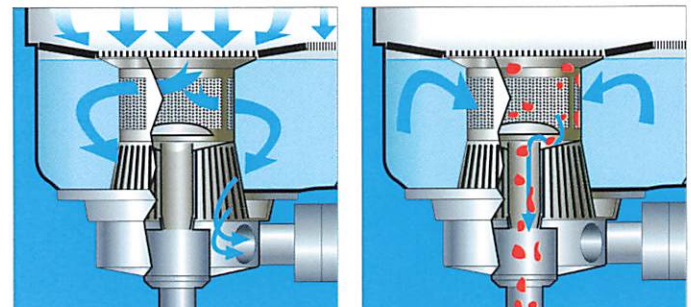
They're specially formulated to remove and decontaminate even the heaviest soils and grime.



Be confident in your clean with MEIKO's **ActivePlus** wash-water filter system

Our innovative ActivePlus fine-filter technology creates the cleanest wash water possible.

Combined with MEIKO's ultra-efficient rinsing system, our unique system achieves superb cleaning results.



With ActivePlus, the tank water is filtered multiple times throughout the wash cycle, and dirt is actively eliminated from the tank as the filter is backflushed at specific intervals.

The most innovative and thorough technology in the industry for cleaning and decontaminating respiratory and firefighting-related equipment.



**Reassemble the masks and store**  
*(approximately 5 mins.)*

**Fast and reliable cleaning time**

TopClean M cleans and decontaminates masks almost **4 times faster** than conventional manual cleaning methods.

Conventional cleaning time: Approximately 4½ hours  
**Top Clean M cleaning time: About 1¼ hours**



**Start at the sink**  
Quickly pre-rinse equipment to remove heavier grime and soiling  
*(about 1 min.)*



**Dry masks after washing**  
*(approximately 1 hour)*



**Rack the masks**  
Disassemble each mask and place it in a TopClean M rack  
*(2-3 mins.)*



**Remove residual water**  
Shake masks gently to remove excess water  
*(2-3 mins.)*



**Turn on TopClean M**  
Cleaning and decontamination cycle begins  
*(3-8 mins.)*

Reliable cleaning means doing the job just once. Short cycle times let you optimize your workflows. Less detergent, rinse aid and water means savings!

**Short cycle**

Lightly soiled masks

2 minutes, 33 seconds

23 cycles per hour;  
**92 masks per hour**

**Standard cycle**

Moderately soiled masks

4 minutes

15 cycles per hour;  
**60 masks per hour**

**Intensive cycle**

Heaviest grime and soil; incorporates an automatic water change for deep clean

8 minutes, 14 seconds

7 cycles per hour;  
**28 masks per hour**

**Self-contained system means operators have no direct contact with detergents, ensuring safety.**

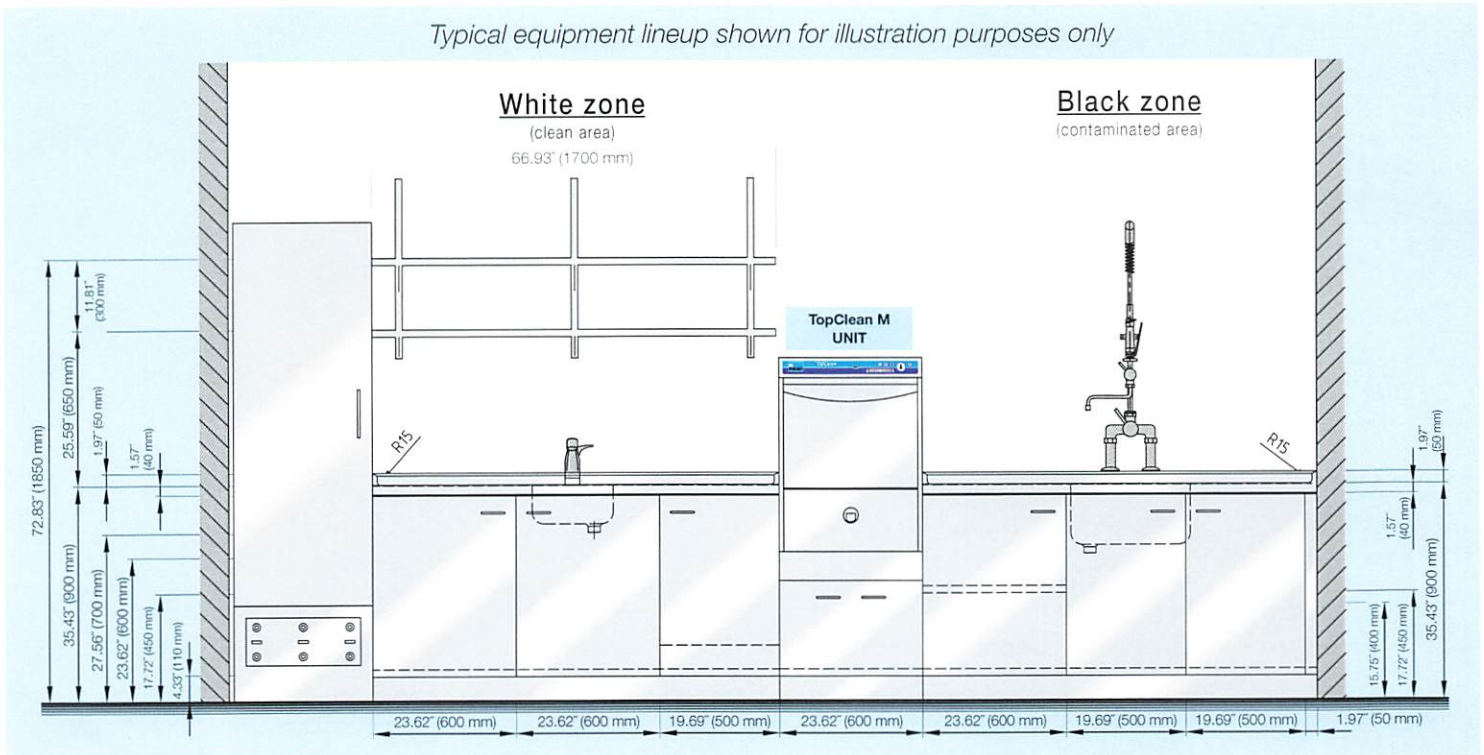
In a single cycle, TopClean M can quickly clean a mix of different equipment together, including: respirator masks, regulators, self-contained breathing apparatus (SCBA) and compressed air bottles.

Its extremely economical use of water for both short and standard cycles, just slightly more than one U.S. gallon (4.2 liters) per cycle, not only conserves water (eco-friendly), it helps reduce utility costs.

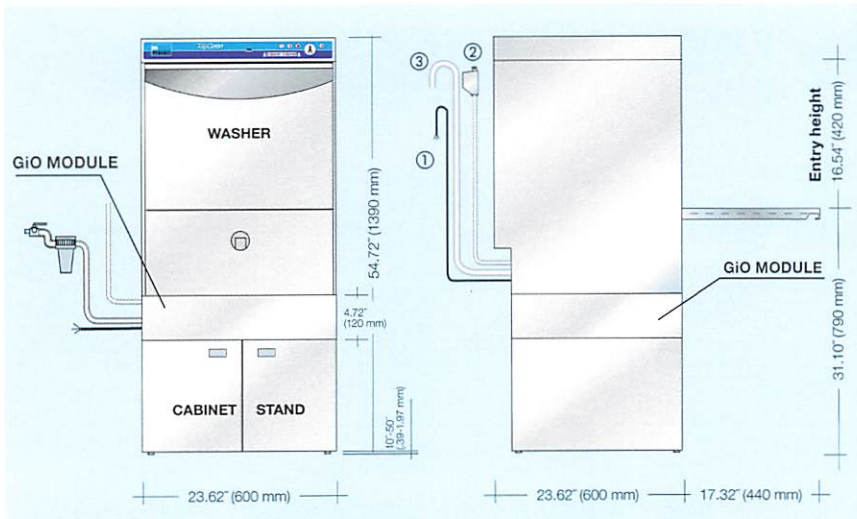
# TopClean M

Creating and maintaining a respiratory protection workshop

## Technical data



We'll help you design, redesign, extend or renovate your respiratory protection workshop to meet the most current health and hygiene standards when you're ready to order your TopClean M.



TopClean M Specifications		
Rack dimensions	19.69" x 19.69"	500 x 500 mm
Pump motor	3/4 HP	
Tank capacity: wash tank	3.48 U.S. gallons	13.17 liters
Final rinse	1.11 U.S. gallons	4.2 liters
Tank heating	4 kW	
Built-in water heater Temperature of cold water supply: 70°F (121°C)	7.5 kW	

For more information and complete specifications, please request a TopClean M spec sheet or visit the MEIKO website at: [www.meiko.us](http://www.meiko.us).

# TopClean D

For the toughest job in cleaning and decontamination today



## Experience and expertise

Since 2010, MEIKO has been working closely with the fire services in Germany and many other European countries. Specialists from the country's professional fire brigade, as well as leading German manufacturers of respiratory protection technology were consultants on the DECON Series development team.

Years of research went into the design of MEIKO's DECON equipment. Purposefully built, technically advanced machines, they're designed to handle one of the toughest cleaning and decontamination tasks of all: *Your precious PPE.*

TopClean D gets your gear clean like you've never seen.



Inside cabinet height:  
32-3/8" x 26-1/2" x 28"  
(820 x 670 x 710 mm)

MEIKO's DECON Series equipment washers have been qualified by MSA to clean MSA G1 SCBA.



Dimensions:  
Height: 70-5/8" (1794 mm)  
Width: 40-1/2" (1030 mm)  
Depth: 35-1/4" (895 mm)

# TopClean D

Performance and reliability

Technology that gives you operating control and convenience

Meet **MIKE 2**, the fully electronic control system from MEIKO. It's standard on DECON Series equipment washers. The system uses easy-to-read and understand international symbols. Choose from the three wash programs with a single touch on the keypad.



During the cycle, wash and rinse temperatures are clearly displayed, along with the operating status and any relevant messages. MIKE 2 makes operation and control of your DECON machines so easy, it will seem like child's play. **MIKE 2's infrared interface has features that help you work fast, and accurately.** And thanks to MIKE 2's intelligent M-Commander W system, reading, defining and modifying data couldn't be easier.

**MEIKO** **MIKE controlled**

Temperature display for wash and final rinse, and info operating status

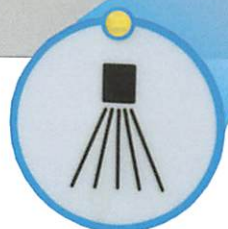
Short program  
Standard program  
Intensive program  
Start button  
Off button

**Push One Button To Choose From Three Wash Programs**

**Short: 3 minutes**  
*(for lightly soiled equipment)*

**Standard: 8 minutes**  
*(for most soiled equipment)*

**Intensive: 8 minutes**  
*(includes an automatic water change for deep cleaning)*



Another thoughtful feature is a second "start" button located next to the door handle. This ergonomic position lets you stand up while starting the machine – so no bending or stooping to aggravate your back!

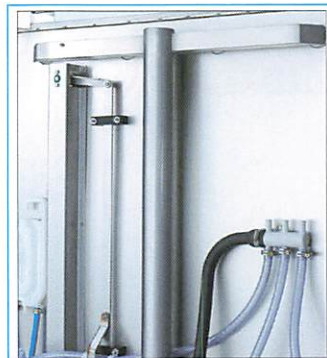
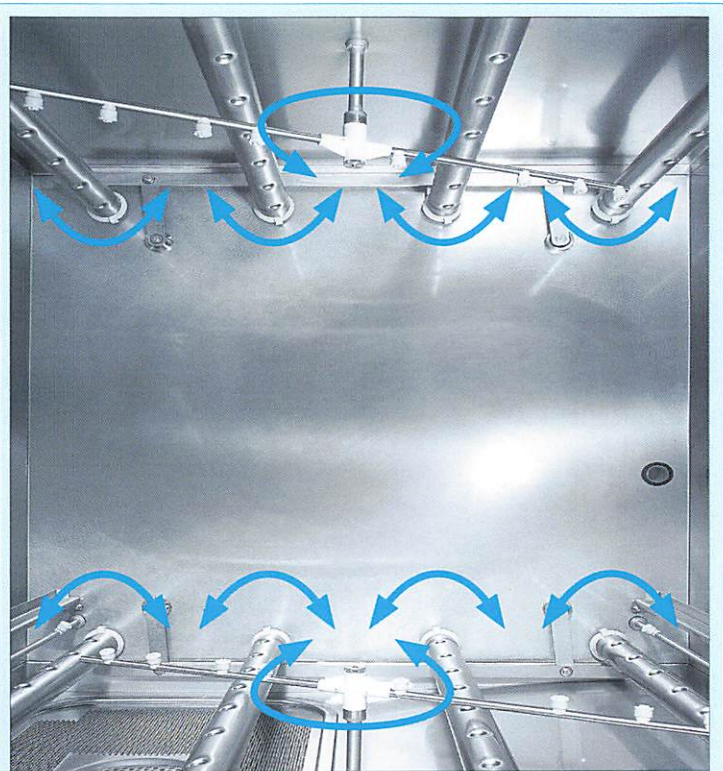


Upgraded features are standard  
Years of research went into the design and functionality of the TopClean D.

### Our extra care paid off

TopClean D's oscillating wash arms use a computer-designed wash pattern. Combined with a rotary final rinse system, 100% coverage of equipment is ensured during both the cleaning and rinse cycles – even in the corners.

Our proprietary wash-and-rinse system design generates an enveloping wall of clean that dirt, grime and contaminants simply cannot hide from.



**Bye, bye pipes that get in the way!** MEIKO keeps them out of the way in the space you're working in, so you have more room.

Spacious wash chamber for fast, easy loading and unloading

TopClean D's ergonomic door design provides access to an expansive wash chamber, allowing easy loading and unloading of masks, SBCA, tanks, helmets and other PPE gear.

While TopClean D has a considerable number of thoughtful standard features, there's one big advantage that stands apart from the others – **it's built by MEIKO**, the industry leader in innovative cleaning technology.



**Double-wall insulation keeps it cool and quiet.** Unexpected extras are what you always get from MEIKO. The extra insulation keeps noise low, and more heat stays in the machine, keeping it cool to the touch.

### The result

DECON Series equipment washers get your gear exceptionally clean.

And with every wash, you can count on getting the same consistently high level of clean, every time.

#### Oscillating wash arms

Constructed from high-grade stainless steel tubing, our computer-designed wash arms move from side-to-side and are guaranteed to provide 100% coverage within the entire wash tank – even in the corners.

#### Rotating and lateral final rinse system

Also crafted from durable high-grade stainless steel, our rinse system provides an enveloping fresh water final rinse to ensure thorough cleaning.



#### DECON Series: TopClean D

The inside rack has a tall clearance to accommodate bulky and large items: 32-3/8" x 26-1/2" x 28" (820 x 670 x 710 mm) [W x D x H] and a spacious 12.9-cubic-foot wash chamber.

MEIKO's DECON Series equipment washers have been qualified by MSA to clean MSA G1 SCBA.



**Perforated tank filter screens**

Residues flow into the *ActivePlus* double-filtration system, creating a "dustpan" effect that enhances the removal of contaminants.

***ActivePlus* wash-rinse water filter system**

Water is filtered multiple times to ensure that dirt, residues and debris are removed, for first-class clean.



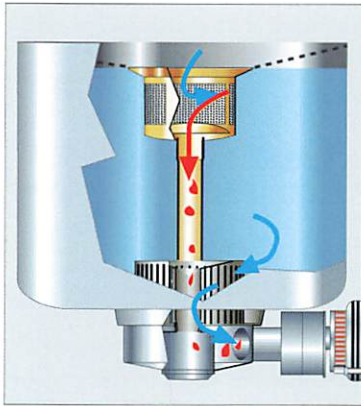
*Images courtesy of the  
**Ottawa Fire Services,  
Ottawa, Canada***

OFS responds from 45 stations located across the City of Ottawa. Collectively, these stations provide service to over 950,000 residents across 2,796 square kilometres. The OFS team is comprised of career fire fighters, volunteer firefighters as well as inspection, education, safety and communications personnel.

## Standard features aren't just upgraded, they're outstanding!

There's nothing lightweight about TopClean D. Both top and bottom wash arms are **constructed of high-grade stainless steel.**

**Inside, the sloped ceiling design** prevents wash water from dripping back onto clean items.

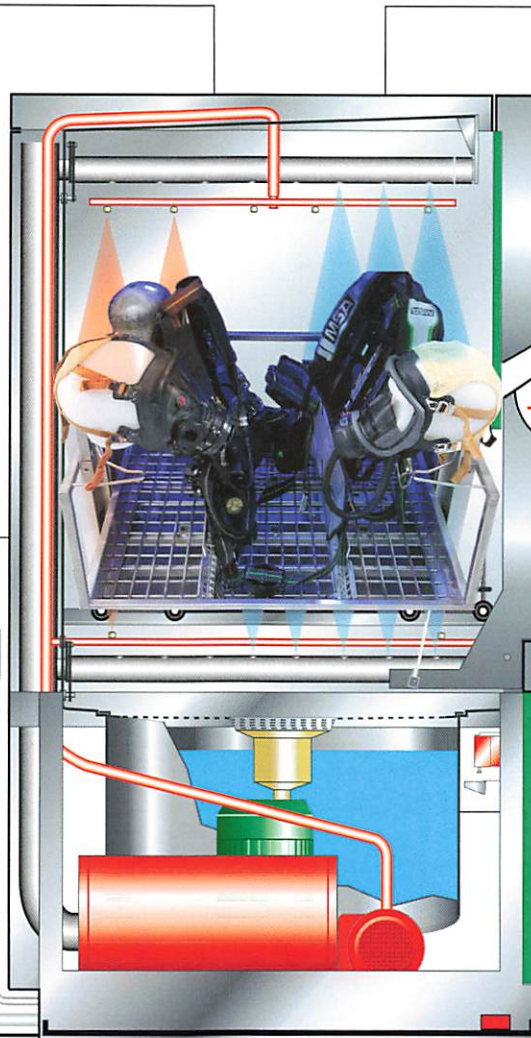


MEIKO's incredible, multi-stage **ActivePlus filter system** ensures the highest possible level of cleaning by actually *washing* the wash and rinse water.

Our installation connection kit (water, waste water and power) is included so your machine is up and running fast. Our integral drain pump design enables a waste discharge height of up to 25-7/8" (700 mm).



- Ergonomic hinged/sliding door combination provides easy opening and closing.
- Nearly 6" of floor clearance provides height that makes loading and unloading more comfortable and easier (5-15/16"; 150 mm).
- Components are clearly and logically arranged for easy service access.



**Double-wall construction** with extra insulation keeps it cool to the touch on the outside and reduces noise.

**Smooth inner walls** with minimal piping are easy to clean.

**Built-in, self-cleaning program**

**Fully electronic control system** has a touch sensitive keypad and infrared interface.

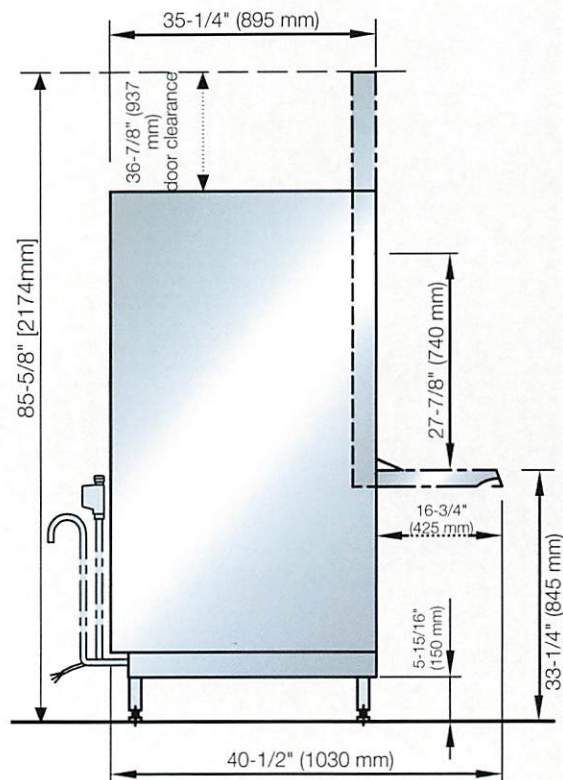
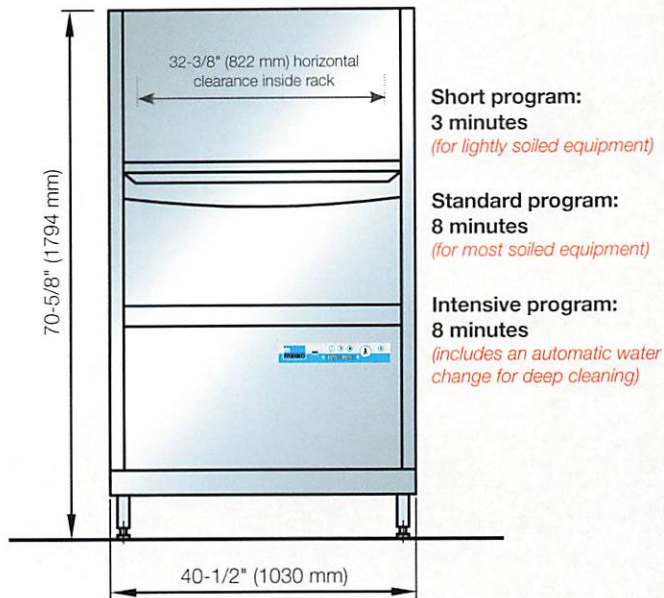
**Curved, deep-drawn wash chamber** is roomy and easy to clean.

**Fully automatic water change program** means you can change the water with one touch of a button, to clean with fresh water immediately.

Constant rinse water volume and temperature is ensured by **the rinse booster pump**, regardless of water pressure.

**Proprietary AquaStop System with drip tray** automatically detects water leaks, providing extra protection.

# Technical data



TopClean D Specifications			
Overall Dimensions (W x D x H)	40-1/2" x 35-1/4" x 70-5/8" (1030 x 895 x 1794 mm)		
Inside Clearance	32-3/8" x 26-1/2" x 28" (820 x 670 x 710 mm) [inside rack dimensions, W x D x H]		
Wall Clearance	Rear 1" (25mm) min.		
Clearance height	27-7/8" (740 mm)		
Pump motor	2.2 kW		
Wash tank capacity	22.45 gallons (85 litres)		
Booster heater tank capacity	4.14 gals. (15.67 liters)		
Final rinse quantity	1.53 gallons (5.8 litres/rack)		
Tank heating	6.0 kW		
<b>Built-in water heater</b>			
113°F (45°C) inlet temperature	6.0 kW		
50°F (10°C) inlet temperature	12.0 kW		
<b>Total connected load</b>			
113°F (45°C) inlet temperature	8.7 kW		
50°F (10°C) inlet temperature	14.7 kW		
	11.7 kW		
<b>Electrical Requirements:</b>			
Wash Tank Heat	9 kW		
Booster Heater	12 kW		
Wash Pump	3.5 HP (2.6 kW)		
Drain Pump	0.09 hp (0.07 kW)		
<b>Electrical supply</b>	<b>Peak load ampacity</b>	<b>Min. supply circuit ampacity</b>	<b>Max. breaker/disconnect</b>
<b>Standard machine</b>			
208-230V/	64.5A @ 208V	90A	90A
60Hz/3Ph	71.7A @ 230V	90A	90A
460V/60Hz/3Ph	37.0A @ 460V	50A	50A
<b>Machine with powered vent option</b>			
208-230V/	65.0A @ 208V	100A	100A
60Hz/3Ph	72.2A @ 230V	100A	100A
460V/60Hz/3Ph	37.3A @ 460V	50A	50A
<b>Water Requirements:</b>			
Incoming Water Temperature (Optimum)	120°F (49°C)		
Recommended Water Hardness	1-6 grains per U.S. gal.		
Water Consumption per Cycle	2.37 gals. (8.97 liters)		
Water Consumption per Hour (max.)	47.40 gals. (179.43 liters)		
Flow Pressure	8.7-72.5 psi (0.6-5.0 bars)		
Incoming Waterline	3/4" garden hose		
Drain line size	7/8" ID, 1-1/8" OD flexible hose		
Maximum drain flow rate	33 gals. (124.9 liters) per minute		

**NOTE:** MEIKO's DECON Series equipment washers have been qualified by MSA to clean MSA G1 SCBA.

## Contact us:

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**Pasco Co. Fire Rescue changed their cleaning processes.**



"The MEIKO (DECON) unit is definitely a game-changer."  
**John Schmidt, Division Chief**  
<http://bit.ly/PPE-DECON>

