



# M-iQ

## B-M74 SERIES

## HOT WATER SANITIZING MULTIPLE-TANK FLIGHT TYPE WAREWASHERS

## The clean solution

### Special Features:

- **Industry-leading low water, energy and chemical consumption**  
At less than 60 gallons (227 liters) per hour, M-iQ is one of the most efficient dishwashers in the world. Advanced technologies further reduce energy and detergent use.
- **M-iQ Filter Technology**  
Each tank features a multiple stage filtration process that first collects food soil, then flushes it out of the tank completely in high-pressure cycles. This improves performance, eases cleanup and reduces detergent consumption by up to 50%.
- **M-iQ Airflow Management**  
M-iQ features an advanced, fully integrated airflow system that retains and redirects hot air within the machine. This improves heating efficiency and reduces exhaust emissions.
- **M-iQ Tank Management**  
Each tank is equipped with an M-Filter system. Water levels are monitored and controlled intelligently and automatically. M-iQ automatically diverts water within the machine to maintain optimum level control and soil distribution.
- **M-iQ Washing Dynamics**  
M-iQ employs a higher-pressure wash for improved soil removal and reduced water consumption. Water flow has been modeled using computational fluid dynamics. Water, energy and chemical consumption are all dramatically reduced.
- **M-iQ Energy Management**  
M-iQ incorporates a 3-stage energy control system, as well as a variable-output booster heater, for optimal energy balance. The system dynamically adjusts to changes in heating distribution for minimal energy consumption.
- **M-iQ Control System**  
M-iQ features a *CC Touch* glass touch screen with a high resolution color display. Screen information is customized based on the machine's operating mode for fast, intuitive operation. Kitchen management, dishroom staff and service personnel can quickly call up customized information, or save data to the controller's built-in memory.
- **M-iQ Intuitive Cleaning**  
M-iQ features an automatic cleaning mode. Assisted by the soil removal capabilities of the M-Filter, this dramatically reduces cleanup time. Areas that require regular manual cleaning are marked in **blue** for less wasted effort by the staff.



### Standard Features:

- ENERGY STAR Qualified
- Wash chamber with 3 HP (2.2 kW) pump motor
- Power rinse chamber with 1 HP (0.75 kW) pump motor
- Pumped final rinse with 3/4 HP (0.55 kW) pump motor
- Integral heated blower dryer with 2/3 HP (0.5 kW) motor
- Choice of prewash sections:
  - **B-M74 V6 N\*\* P8:** 1' 11-5/8" (600mm) prewash with 1 HP (0.75 kW) pump, conveyor speed 6.0' (1.8m)/min., 56.2 gals. (212.7 liters)/hr.
  - **B-M74 V8 N\*\* P8:** 2' 7-1/2" (800mm) prewash with 3 HP (2.2 kW) pump, conveyor speed 6.5' (2.0m)/min., 56.8 gals. (215.0 liters)/hr.
- Conveyor width 29-1/2" (750mm); passing height 15-3/4" (400mm); accommodates standard 18 x 26" sheet pans
- 304-series stainless steel construction
- Fully automatic operation. Prewash, wash, power rinse and final rinse are activated only when ware is present
- Front-sloping tanks for complete drainage and easier cleaning. Automatic self-cleaning and drain feature is accessed from control panel to eliminate manual drain levers
- Double-wall insulated construction on front, top and back improves operator safety, conserves heating energy, and reduces noise and heat loss into the dishroom. Insulation is fully waterproofed to eliminate heavy doors and unsanitary waterlogging
- Standard lifting doors are full-width for each chamber, including the blower drying zone, for improved access
- Pumps are vertically-mounted to be self-draining and easily removed for servicing. Pumps include safety alert feature to inform the operator of a leaking pump seal

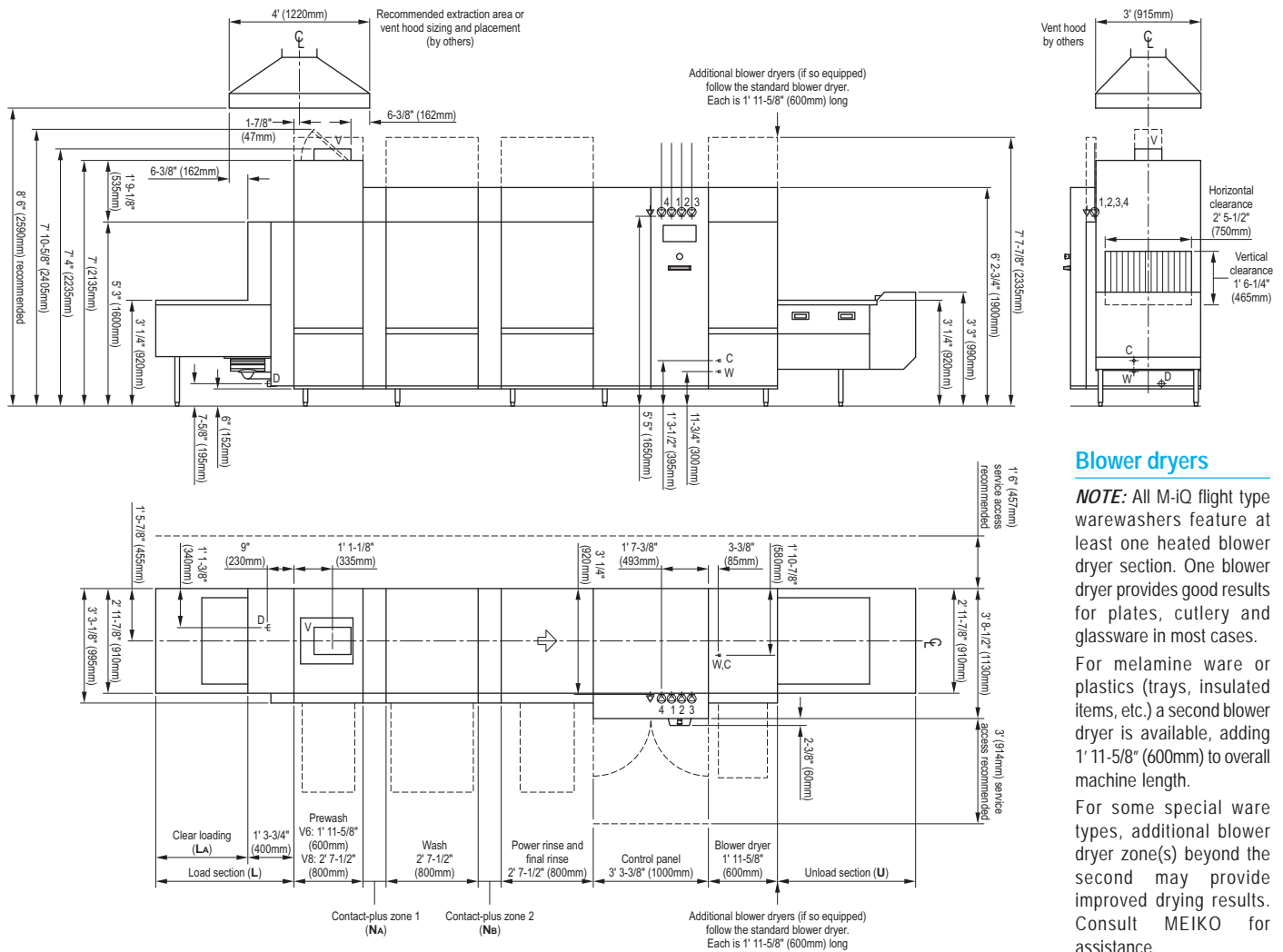
### Optional Features:

- Hinged doors
- Drain water tempering
- Flanged, bolt-down feet
- Single-point electrical connection (electrically-heated machines only; standard on steam-heated machines)

*This dishwasher is compliant with the Reduction of Lead in Drinking Water Act (2011) amendment to the Safe Drinking Water Act (SDWA).*



# M-iQ Flight - B-M74 Series - Electric heat, left to right



## Blower dryers

**NOTE:** All M-iQ flight type warewashers feature at least one heated blower dryer section. One blower dryer provides good results for plates, cutlery and glassware in most cases.

For melamine ware or plastics (trays, insulated items, etc.) a second blower dryer is available, adding 1' 11-5/8" (600mm) to overall machine length.

For some special ware types, additional blower dryer zone(s) beyond the second may provide improved drying results. Consult MEIKO for assistance.

## Load sections (L)

Load section (L)	Clear loading (LA)
3' 3-3/8" (1000mm)	1' 11-5/8" (600mm)
3' 11-1/4" (1200mm)	2' 7-1/2" (800mm)
4' 7-1/8" (1400mm)	3' 3-3/8" (1000mm)
5' 3" (1600mm)	3' 11-1/4" (1200mm)
5' 10-7/8" (1800mm)	4' 7-1/8" (1400mm)
6' 6-3/4" (2000mm)	5' 3" (1600mm)
7' 2-5/8" (2200mm)	5' 10-7/8" (1800mm)
7' 10-1/2" (2400mm)	6' 6-3/4" (2000mm)
8' 6-3/8" (2600mm)	7' 2-5/8" (2200mm)
9' 2-1/4" (2800mm)	7' 10-1/2" (2400mm)
9' 10-1/8" (3000mm)	8' 6-3/8" (2600mm)

**NOTE:** Load sections with a lowered loading height of 2' 7-1/2" (800mm) are available for specific applications, such as when the loading area is underneath a table or tray conveyor. Consult MEIKO for details.

### Recommended load sections:

- Single worker loading items while standing at the end of the machine - **L** = 3' 11-1/4" (1200mm)
- Two workers loading items, each standing on one side of the machine - **L** = 4' 7-1/8" (1400mm)
- Large items placed flat on the belt (totes, containers, etc.) - **LA** = 2' (600mm) longer than the item
- Operations with special delivery systems and/or multiple workers loading items may require extended load sections. Consult MEIKO for assistance.

## Contact-plus 1 (NA)

Contact-plus 1 (NA)	Contact-plus 2 (NB)	Model number code
None	7-7/8" (200mm)	B-M74 V? <b>N02</b> P8
7-7/8" (200mm)	7-7/8" (200mm)	B-M74 V? <b>N22</b> P8
11-7/8" (300mm)	11-7/8" (300mm)	B-M74 V? <b>N33</b> P8
1' 3-3/4" (400mm)	1' 3-3/4" (400mm)	B-M74 V? <b>N44</b> P8
1' 7-5/8" (500mm)	1' 7-5/8" (500mm)	B-M74 V? <b>N55</b> P8
1' 11-5/8" (600mm)	1' 11-5/8" (600mm)	B-M74 V? <b>N66</b> P8
2' 7-1/2" (800mm)	2' 7-1/2" (800mm)	B-M74 V? <b>N88</b> P8
3' 3-3/8" (1000mm)	3' 3-3/8" (1000mm)	B-M74 V? <b>N1010</b> P8

**NOTE:** As ware proceeds through the machine and closer to the final rinse, the water contacting the ware becomes warmer and cleaner. Large items and flat items (particularly sheet pans, trays, totes, etc.) can carry over cooler, soiled water forward in the machine. The contact-plus zone provides a landing area for this water, allowing it to return to the previous tank. This reduces detergent consumption and tank heating energy use.

Wider contact-plus zones also provide a surface that may be used to front-mount detergent or rinse aid systems.

### Recommended contact-plus zone configurations:

- For machines washing plates/glasswares - **N02**
- For machines washing a typical ware mix - cafeteria trays and some sheet pans in addition to plates and glasswares - **N22**
- For machines washing a high proportion of sheet pans - **N33**
- For machines washing large containers - **N44** or larger, depending on the size of the container
- For machines with front-mounted detergent and rinse aid dispensers - **N33** or larger, depending on the size of the dispensing systems

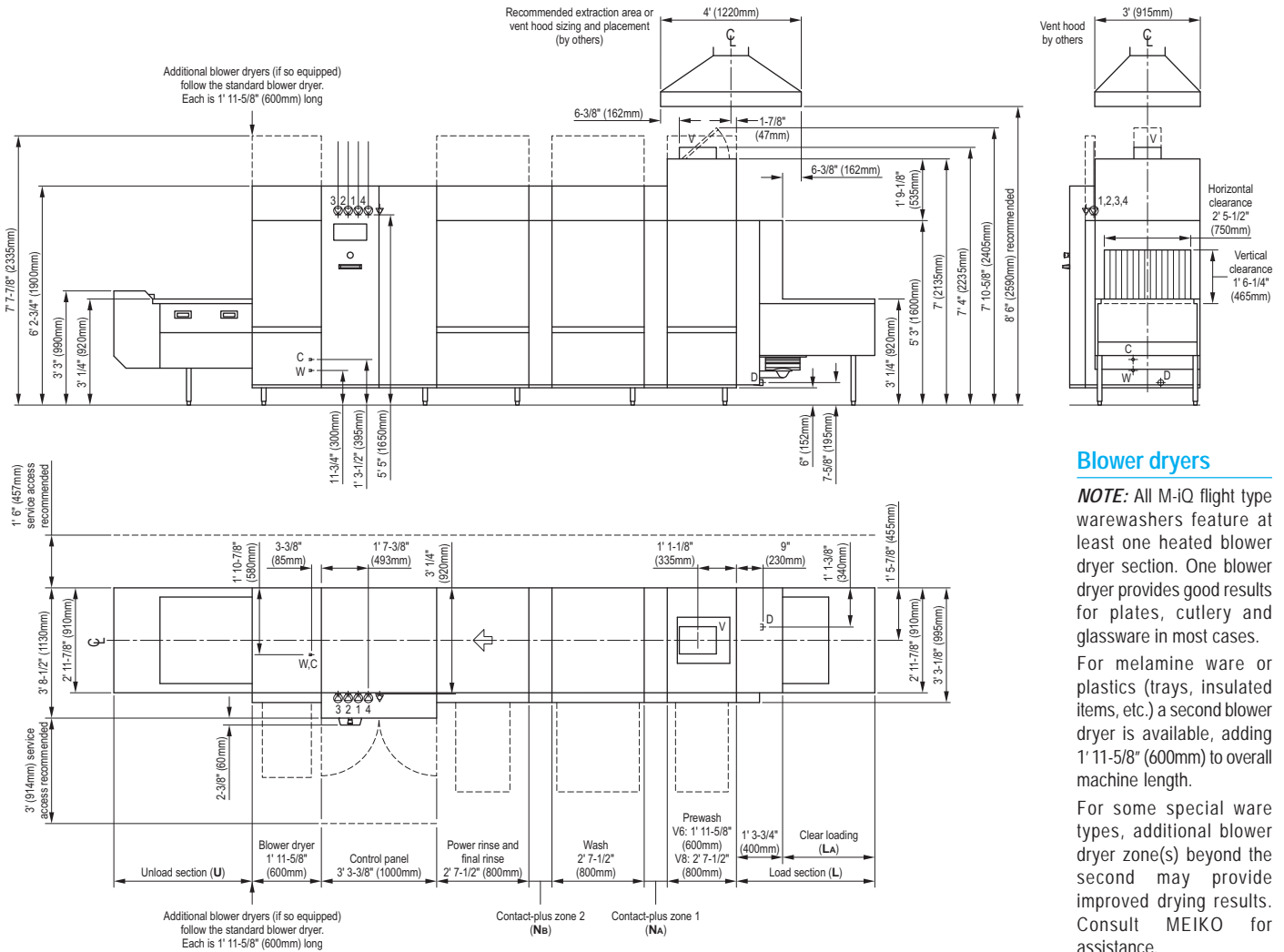
## Unload sections (U)

2' 7-1/2" (800mm)
3' 3-3/8" (1000mm)
3' 11-1/4" (1200mm)
4' 7-1/8" (1400mm)
5' 3" (1600mm)
5' 10-7/8" (1800mm)
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7' 2-5/8" (2200mm)
7' 10-1/2" (2400mm)
8' 6-3/8" (2600mm)
9' 2-1/4" (2800mm)
9' 10-1/8" (3000mm)

### Recommended unload sections:

- Typical ware mix, limited space available - **U** = 3' 11-1/4" (1200mm)
- Typical ware mix, more space available - **U** = 4' 7-1/8" (1400mm) or longer for improved drying
- Large items placed flat on the belt (totes, containers, etc.) - **U** = at least 1' (300mm) longer than *twice* the length of the item

# M-iQ Flight - B-M74 Series - Electric heat, right to left



## Load sections (L)

Load section (L)	Clear loading (LA)
3' 3-3/8" (1000mm)	1' 11-5/8" (600mm)
3' 11-1/4" (1200mm)	2' 7-1/2" (800mm)
4' 7-1/8" (1400mm)	3' 3-3/8" (1000mm)
5' 3" (1600mm)	3' 11-1/4" (1200mm)
5' 10-7/8" (1800mm)	4' 7-1/8" (1400mm)
6' 6-3/4" (2000mm)	5' 3" (1600mm)
7' 2-5/8" (2200mm)	5' 10-7/8" (1800mm)
7' 10-1/2" (2400mm)	6' 6-3/4" (2000mm)
8' 6-3/8" (2600mm)	7' 2-5/8" (2200mm)
9' 2-1/4" (2800mm)	7' 10-1/2" (2400mm)
9' 10-1/8" (3000mm)	8' 6-3/8" (2600mm)

**NOTE:** Load sections with a lowered loading height of 2' 7-1/2" (800mm) are available for specific applications, such as when the loading area is underneath a table or tray conveyor. Consult MEIKO for details.

### Recommended load sections:

- Single worker loading items while standing at the end of the machine - **L** = 3' 11-1/4" (1200mm)
- Two workers loading items, each standing on one side of the machine - **L** = 4' 7-1/8" (1400mm)
- Large items placed flat on the belt (totes, containers, etc.) - **LA** = 2' (600mm) longer than the item
- Operations with special delivery systems and/or multiple workers loading items may require extended load sections. Consult MEIKO for assistance.

## Contact-plus 1 (NA)

Contact-plus 1 (NA)	Contact-plus 2 (Nb)	Model number code
None	7-7/8" (200mm)	B-M74 V? <b>N02</b> P8
7-7/8" (200mm)	7-7/8" (200mm)	B-M74 V? <b>N22</b> P8
11-7/8" (300mm)	11-7/8" (300mm)	B-M74 V? <b>N33</b> P8
1' 3-3/4" (400mm)	1' 3-3/4" (400mm)	B-M74 V? <b>N44</b> P8
1' 7-5/8" (500mm)	1' 7-5/8" (500mm)	B-M74 V? <b>N55</b> P8
1' 11-5/8" (600mm)	1' 11-5/8" (600mm)	B-M74 V? <b>N66</b> P8
2' 7-1/2" (800mm)	2' 7-1/2" (800mm)	B-M74 V? <b>N88</b> P8
3' 3-3/8" (1000mm)	3' 3-3/8" (1000mm)	B-M74 V? <b>N1010</b> P8

**NOTE:** As ware proceeds through the machine and closer to the final rinse, the water contacting the ware becomes warmer and cleaner. Large items and flat items (particularly sheet pans, trays, totes, etc.) can carry over cooler, soiled water forward in the machine. The contact-plus zone provides a landing area for this water, allowing it to return to the previous tank. This reduces detergent consumption and tank heating energy use.

Wider contact-plus zones also provide a surface that may be used to front-mount detergent or rinse aid systems.

### Recommended contact-plus zone configurations:

- For machines washing plates/glasswares - **N02**
- For machines washing a typical ware mix - cafeteria trays and some sheet pans in addition to plates and glasswares - **N22**
- For machines washing a high proportion of sheet pans - **N33**
- For machines washing large containers - **N44** or larger, depending on the size of the container
- For machines with front-mounted detergent and rinse aid dispensers - **N33** or larger, depending on the size of the dispensing systems

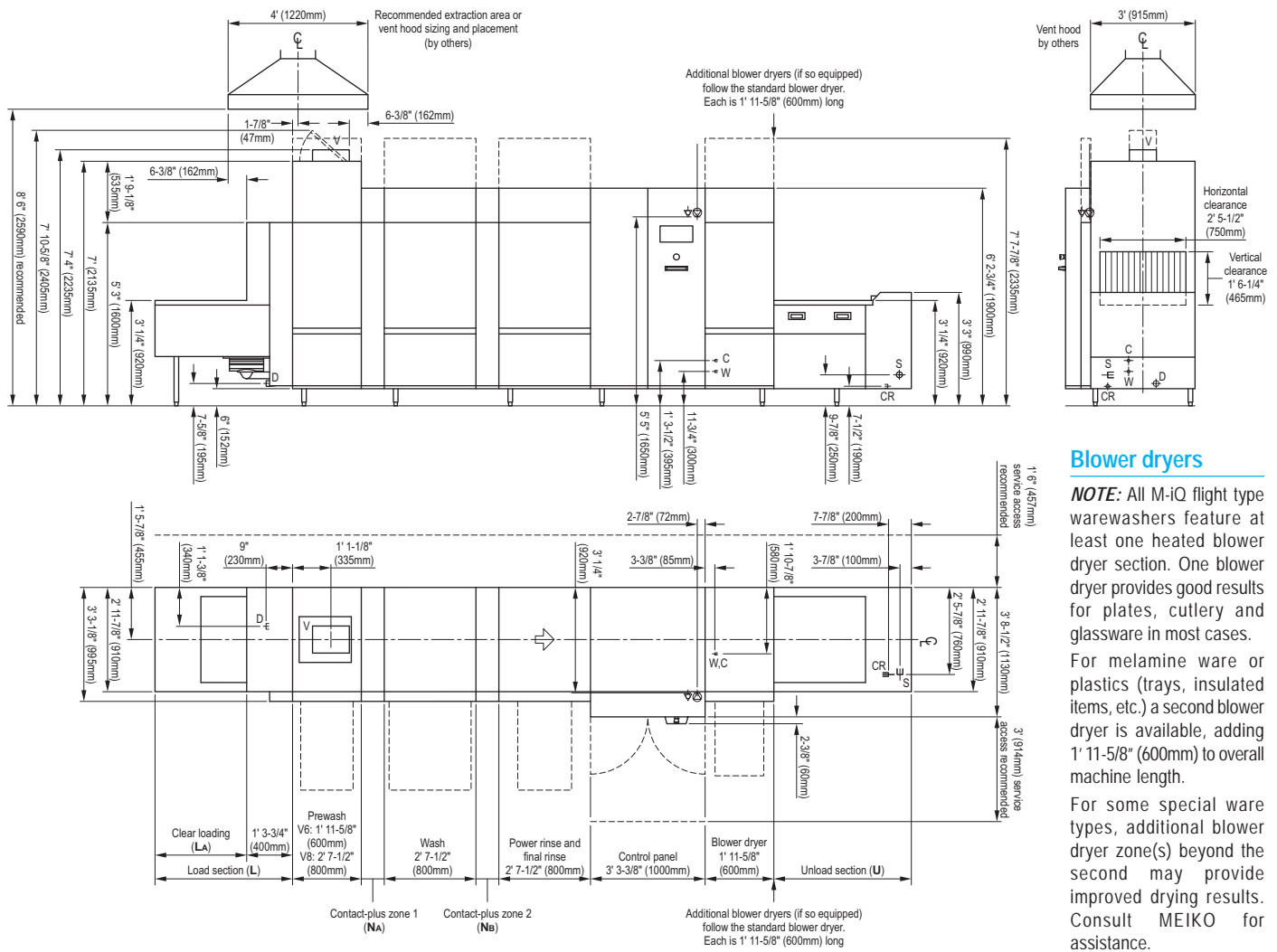
## Unload sections (U)

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### Recommended unload sections:

- Typical ware mix, limited space available - **U** = 3' 11-1/4" (1200mm)
- Typical ware mix, more space available - **U** = 4' 7-1/8" (1400mm) or longer for improved drying
- Large items placed flat on the belt (totes, containers, etc.) - **U** = at least 1' (300mm) longer than *twice* the length of the item

# M-iQ Flight - B-M74 Series - Steam heat, left to right



## Blower dryers

**NOTE:** All M-iQ flight type warewashers feature at least one heated blower dryer section. One blower dryer provides good results for plates, cutlery and glassware in most cases. For melamine ware or plastics (trays, insulated items, etc.) a second blower dryer is available, adding 1' 11-5/8" (600mm) to overall machine length.

For some special ware types, additional blower dryer zone(s) beyond the second may provide improved drying results. Consult MEIKO for assistance.

## Load sections (L)

Load section (L)	Clear loading (LA)
3' 3-3/8" (1000mm)	1' 11-5/8" (600mm)
3' 11-1/4" (1200mm)	2' 7-1/2" (800mm)
4' 7-1/8" (1400mm)	3' 3-3/8" (1000mm)
5' 3" (1600mm)	3' 11-1/4" (1200mm)
5' 10-7/8" (1800mm)	4' 7-1/8" (1400mm)
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## Contact-plus zone 1 (NA)

Contact-plus zone 1 (NA)	Contact-plus zone 2 (NB)	Model number code
None	7-7/8" (200mm)	B-M74 V? <b>N02</b> P8
7-7/8" (200mm)	7-7/8" (200mm)	B-M74 V? <b>N22</b> P8
11-7/8" (300mm)	11-7/8" (300mm)	B-M74 V? <b>N33</b> P8
1' 3-3/4" (400mm)	1' 3-3/4" (400mm)	B-M74 V? <b>N44</b> P8
1' 7-5/8" (500mm)	1' 7-5/8" (500mm)	B-M74 V? <b>N55</b> P8
1' 11-5/8" (600mm)	1' 11-5/8" (600mm)	B-M74 V? <b>N66</b> P8
2' 7-1/2" (800mm)	2' 7-1/2" (800mm)	B-M74 V? <b>N88</b> P8
3' 3-3/8" (1000mm)	3' 3-3/8" (1000mm)	B-M74 V? <b>N1010</b> P8

**NOTE:** As ware proceeds through the machine and closer to the final rinse, the water contacting the ware becomes warmer and cleaner. Large items and flat items (particularly sheet pans, trays, totes, etc.) can carry over cooler, soiled water forward in the machine. The contact-plus zone provides a landing area for this water, allowing it to return to the previous tank. This reduces detergent consumption and tank heating energy use.

Wider contact-plus zones also provide a surface that may be used to front-mount detergent or rinse aid systems.

### Recommended contact-plus zone configurations:

- For machines washing plates/glasswares - **N02**
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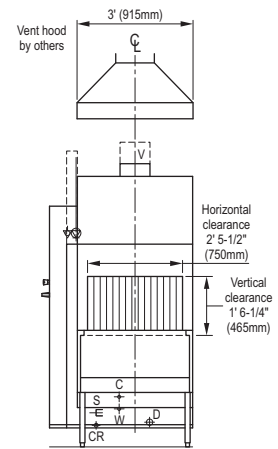
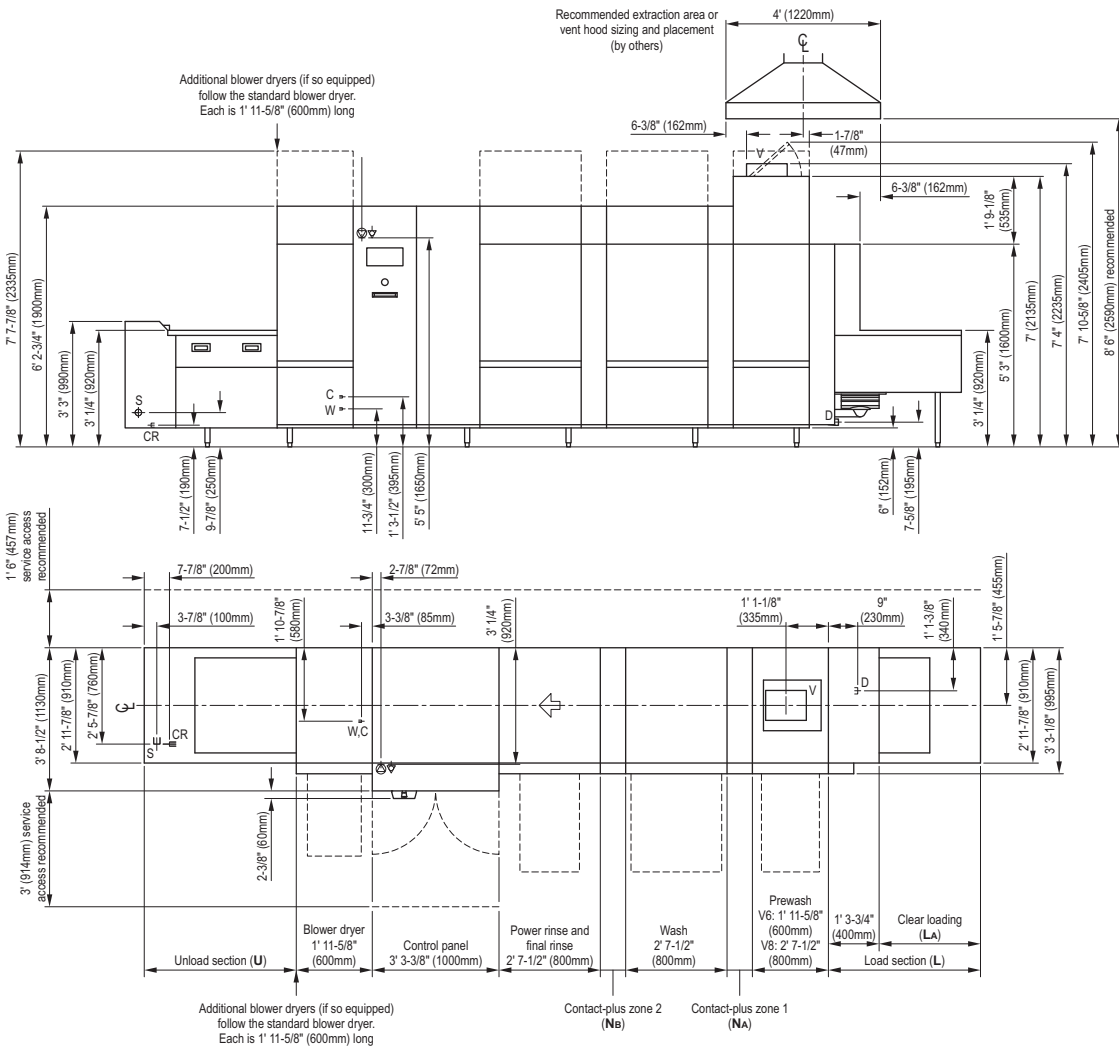
## Unload sections (U)

2' 7-1/2" (800mm)
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3' 11-1/4" (1200mm)
4' 7-1/8" (1400mm)
5' 3" (1600mm)
5' 10-7/8" (1800mm)
6' 6-3/4" (2000mm)
7' 2-5/8" (2200mm)
7' 10-1/2" (2400mm)
8' 6-3/8" (2600mm)
9' 2-1/4" (2800mm)
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### Recommended unload sections:

- Typical ware mix, limited space available - **U** = 3' 11-1/4" (1200mm)
- Typical ware mix, more space available - **U** = 4' 7-1/8" (1400mm) or longer for improved drying
- Large items placed flat on the belt (totes, containers, etc.) - **U** = at least 1' (300mm) longer than *twice* the length of the item

# M-iQ Flight - B-M74 Series - Steam heat, right to left



## Blower dryers

**NOTE:** All M-iQ flight type washers feature at least one heated blower dryer section. One blower dryer provides good results for plates, cutlery and glassware in most cases.

For melamine ware or plastics (trays, insulated items, etc.) a second blower dryer is available, adding 1' 11-5/8\" (600mm) to overall machine length.

For some special ware types, additional blower dryer zone(s) beyond the second may provide improved drying results. Consult MEIKO for assistance.

## Load sections (L)

3' 3-3/8" (1000mm)	1' 11-5/8" (600mm)
3' 11-1/4" (1200mm)	2' 7-1/2" (800mm)
4' 7-1/8" (1400mm)	3' 3-3/8" (1000mm)
5' 3" (1600mm)	3' 11-1/4" (1200mm)
5' 10-7/8" (1800mm)	4' 7-1/8" (1400mm)
6' 6-3/4" (2000mm)	5' 3" (1600mm)
7' 2-5/8" (2200mm)	5' 10-7/8" (1800mm)
7' 10-1/2" (2400mm)	6' 6-3/4" (2000mm)
8' 6-3/8" (2600mm)	7' 2-5/8" (2200mm)
9' 2-1/4" (2800mm)	7' 10-1/2" (2400mm)
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**NOTE:** Load sections with a lowered loading height of 2' 7-1/2" (800mm) are available for specific applications, such as when the loading area is underneath a table or tray conveyor. Consult MEIKO for details.

### Recommended load sections:

- Single worker loading items while standing at the end of the machine - **L** = 3' 11-1/4" (1200mm)
- Two workers loading items, each standing on one side of the machine - **L** = 4' 7-1/8" (1400mm)
- Large items placed flat on the belt (totes, containers, etc.) - **LA** = 2' (600mm) longer than the item
- Operations with special delivery systems and/or multiple workers loading items may require extended load sections. Consult MEIKO for assistance.

## Contact-plus 1 (NA)

None	7-7/8" (200mm)
7-7/8" (200mm)	7-7/8" (200mm)
11-7/8" (300mm)	11-7/8" (300mm)
1' 3-3/4" (400mm)	1' 3-3/4" (400mm)
1' 7-5/8" (500mm)	1' 7-5/8" (500mm)
1' 11-5/8" (600mm)	1' 11-5/8" (600mm)
2' 7-1/2" (800mm)	2' 7-1/2" (800mm)
3' 3-3/8" (1000mm)	3' 3-3/8" (1000mm)

**NOTE:** As ware proceeds through the machine and closer to the final rinse, the water contacting the ware becomes warmer and cleaner. Large items and flat items (particularly sheet pans, trays, totes, etc.) can carry over cooler, soiled water forward in the machine. The contact-plus zone provides a landing area for this water, allowing it to return to the previous tank. This reduces detergent consumption and tank heating energy use.

Wider contact-plus zones also provide a surface that may be used to front-mount detergent or rinse aid systems.

### Recommended contact-plus zone configurations:

- For machines washing plates/glasswares - **N02**
- For machines washing a typical ware mix - cafeteria trays and some sheet pans in addition to plates and glasswares - **N22**
- For machines washing a high proportion of sheet pans - **N33**
- For machines washing large containers - **N44** or larger, depending on the size of the container
- For machines with front-mounted detergent and rinse aid dispensers - **N33** or larger, depending on the size of the dispensing systems

## Contact-plus 2 (Nb)

None	7-7/8" (200mm)
7-7/8" (200mm)	7-7/8" (200mm)
11-7/8" (300mm)	11-7/8" (300mm)
1' 3-3/4" (400mm)	1' 3-3/4" (400mm)
1' 7-5/8" (500mm)	1' 7-5/8" (500mm)
1' 11-5/8" (600mm)	1' 11-5/8" (600mm)
2' 7-1/2" (800mm)	2' 7-1/2" (800mm)
3' 3-3/8" (1000mm)	3' 3-3/8" (1000mm)

## Model number code

B-M74 V? <b>N02</b> P8
B-M74 V? <b>N22</b> P8
B-M74 V? <b>N33</b> P8
B-M74 V? <b>N44</b> P8
B-M74 V? <b>N55</b> P8
B-M74 V? <b>N66</b> P8
B-M74 V? <b>N88</b> P8
B-M74 V? <b>N1010</b> P8

## Unload sections (U)

2' 7-1/2" (800mm)
3' 3-3/8" (1000mm)
3' 11-1/4" (1200mm)
4' 7-1/8" (1400mm)
5' 3" (1600mm)
5' 10-7/8" (1800mm)
6' 6-3/4" (2000mm)
7' 2-5/8" (2200mm)
7' 10-1/2" (2400mm)
8' 6-3/8" (2600mm)
9' 2-1/4" (2800mm)
9' 10-1/8" (3000mm)

### Recommended unload sections:

- Typical ware mix, limited space available - **U** = 3' 11-1/4" (1200mm)
- Typical ware mix, more space available - **U** = 4' 7-1/8" (1400mm) or longer for improved drying
- Large items placed flat on the belt (totes, containers, etc.) - **U** = at least 1' (300mm) longer than *twice* the length of the item

# M-iQ Flight - B-M74 Series - Utility Legend

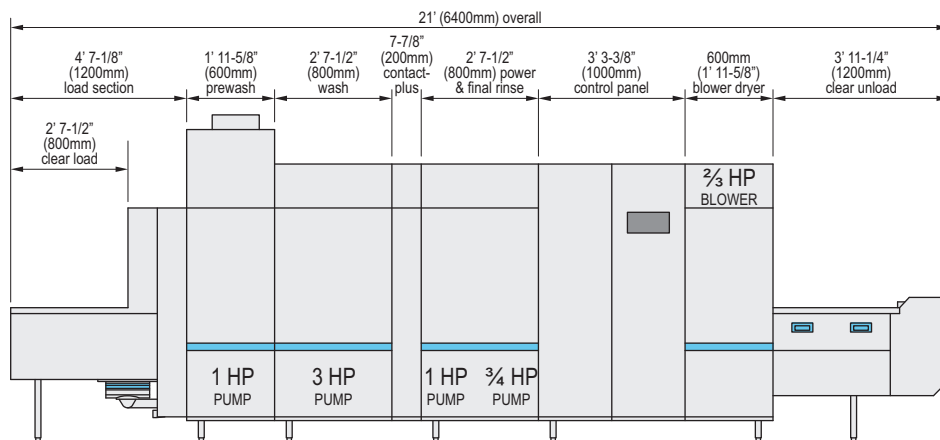
- E** Electrical connection(s)
  - Electrically-heated machines have four (4) connections. Steam-heated machines have one (1) connection. Incoming leads must be appropriately sized for electrical supply. Individual circuit breaker/disconnects with lockout/tagout strongly recommended (provided by others).
  - Ampacity shown on utility chart, Page 7
- D** Drain connection
  - Connection to 2" (50mm) OD horizontal drain outlet (HDPE piping).
  - Indirect routing to 4" (100mm) floor drain recommended. Pipe to be connected to 2" (50mm) OD line (or 1-1/2" pipe) via no-hub. Additional piping to drain to be supplied by others.
- S** Steam connection (steam-heated machines only)
  - Connection 1-1/2" NPT
  - Constant steam pressure is REQUIRED (pressure to be specified at time of order). If pressure is below minimum shown, consult factory. If pressure is above maximum shown, use of a regulator is REQUIRED (supplied by others).
  - Pressure ranges (specify at time of order):
    - 7-14 PSI (0.51-1.0 bars)
    - 15-22 PSI (1.1-1.5 bars)
    - 23-29 PSI (1.6-2.0 bars)
  - Consumption on utility chart, Page 7
- W** Water, warm (initial fill connection)
  - Connection 1/2" NPT
  - Temperature 110-140°F (43-60°C). 140°F (60°C) recommended to reduce start-up time
  - Recommended water hardness 1-3 grains per U.S. gal.
  - Initial fill volume on utility chart, Page 7
- C** Water, cold (final rinse connection)
  - Connection 1/2" NPT
  - Temperature cold as available. 50°F/10°C recommended to reduce steam emissions
  - Recommended water hardness 1-3 grains per U.S. gal.
  - Final rinse consumption on utility chart, Page 7
- CR** Condensate return connection (steam-heated machines only)
  - Connection 1" NPT
  - Condensate return line must be pressure-free
- V** Vent connection
  - Machine vent is powered, intended for indirect vent connection
  - Extraction area detailed on drawings (pages 2-5) and utility chart (page 7)
  - Exhaust air volume on utility chart (page 7)

## M-iQ Flight - B-M74 Series - Standard MTS Configurations

MEIKO M-iQ series dishwashers are available in a wide variety of configurations. For easier machine selection, the "MTS" configurations shown below are standard configurations optimized for common washing requirements. Non-standard configurations are also possible, as shown in the option tables on the preceding pages. Consult MEIKO for assistance with machine selection.

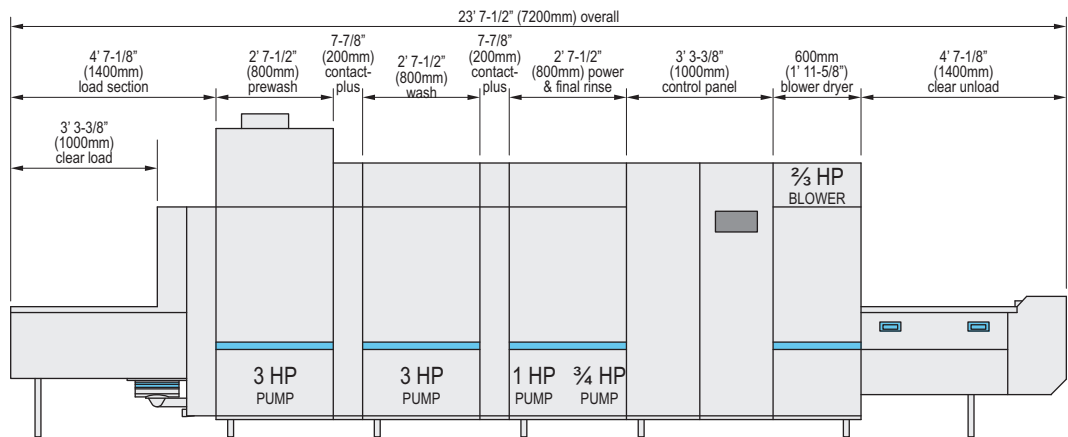
### MTS1

**M-iQ B-M74 V6 N02 P8**  
Trayless cafeterias or limited length available



### MTS2

**M-iQ B-M74 V8 N22 P8**  
General purpose - cafeterias with large numbers of trays, hospitals, limited numbers of sheet pans



# M-iQ Flight - B-M74 Series - Technical Specifications

## Operating Capacities and Conveyor Specifications (NSF Rated)

	B-M74 V6 N** P8	B-M74 V8 N** P8
Conveyor belt speed (max.)	6.0' (1.8m)/min.	6.5' (2.0m)/min.
Dishes per hour (max.) <sup>1</sup>	9,995	10,828
Water consumption/hr. (max)	56.2 gal. (212.7 liters)	56.8 gal. (215.0 liters)
Horizontal clearance	2' 5-1/2" (750mm)	2' 5-1/2" (750mm)
Vertical clearance	1' 6-1/4" (465mm)	1' 6-1/4" (465mm)
Minimum peg spacing	2-1/8" (54mm)	2-1/8" (54mm)

<sup>1</sup> Maximum dishes per hour as calculated with NSF formula (120 x CS x CW / PD), where CS = conveyor speed in ft/min, CW = conveyor width in inches and PD = peg distance in inches. This formula assumes full belt utilization regardless of conveyor speed or ware size. This loading generally cannot be achieved under actual operating conditions. For assistance with ware throughput calculations and machine selection, contact MEIKO at [sales@meiko.us](mailto:sales@meiko.us).

<sup>2</sup> Heat load shown is for dishwasher only and does not include heat emitted by ware exiting the machine. Heat emitted by ware is site-specific and outside the scope of this spec sheet. For assistance, contact MEIKO at [sales@meiko.us](mailto:sales@meiko.us).

## Venting Specifications

	With standard loading sections (load height 3' 1/4" / 920mm)	With lowered loading sections (load height 2' 7-1/2" (800mm))	
Machine exhaust	155 CFM (263m <sup>3</sup> /h)	155 CFM (263m <sup>3</sup> /h)	
Recommended room air	345 CFM (586m <sup>3</sup> /h)	445 CFM (756m <sup>3</sup> /h)	
Recommended total	500 CFM (850m <sup>3</sup> /h)	600 CFM (1019m <sup>3</sup> /h)	
Recommended extraction area	3' (900mm) W x 4' (1220mm) L	3' (900mm) W x 5' (1520mm) L	
Machine heat load <sup>2</sup>	<i>Sensible</i>	<i>Latent</i>	<i>Total</i>
@ 208V/60Hz/3Ph	19,108 BTU/hr (5.6 kW)	9,554 BTU/hr (2.8 kW)	28,662 BTU/hr (8.4 kW)
Per add'l blwr dryer	+ 1,024 BTU (0.3 kW)	+ 341 BTU (0.1 kW)	+ 1,365 BTU (0.4 kW)
@ 230V/60Hz/3Ph	18,426 BTU/hr (5.4 kW)	9,213 BTU/hr (2.7 kW)	27,639 BTU/hr (8.1 kW)
Per add'l blwr dryer	+ 1,024 BTU (0.3 kW)	+ 682 BTU (0.2 kW)	+ 1,706 BTU (0.5 kW)
@ 460V/60Hz/3Ph	19,449 BTU/hr (5.7 kW)	9,554 BTU/hr (2.8 kW)	29,003 BTU/hr (8.5 kW)
Per add'l blwr dryer	+ 1,365 BTU (0.4 kW)	+ 1,024 BTU (0.3 kW)	+ 2,389 BTU (0.7 kW)

## Water and Drain Specifications

Minimum water temperatures:

- Prewash tank ..... No minimum - 110-140°F (43-60°C) typical
- Wash tank ..... 150°F (66°C)
- Power rinse ..... 162°F (72°C)
- Final rinse ..... 180°F (82°C)

Incoming water temperatures:

- Initial fill line ..... 110°-140°F (43°-60°C)
- Final rinse line ..... Cold as available, 50°F (10°C) recommended

Incoming water line sizes:

- Initial fill line ..... 1/2" NPT
- Final rinse line ..... 1/2" NPT

	B-M74 V6 N** P8	B-M74 V8 N** P8
Initial fill	67.6 gal. (276.0 liters)	76.1 gal. (288.0 liters)
Consumption at 100% cap.	56.2 gal. (212.7 liters)/hr	56.8 gal. (215.0 liters)/hr
Recommended water hardness	1-3 grains/gal	

Drain specifications:

- Connection (standard) ..... 2" (50mm) OD
- Connection (with no-hub) ..... 1-1/2" pipe
- Recommended floor drain (min.) ..... 4" (100mm)
- Maximum drain flow rate ..... 15 gals. (56.8 liters) per minute

## Machine Electrical Specifications

	208 V/60 Hz/3 Ph				230 V/60 Hz/3 Ph				460 V/60 Hz/3 Ph			
	TB1	TB2	TB3	TB4	TB1	TB2	TB3	TB4	TB1	TB2	TB3	TB4
Electric tank heat, B-M74 V6 N** P8	29.15 A	94.33 A	9.00 A	52.50 A	29.05 A	84.60 A	7.50 A	45.60 A	19.91 A	43.50 A	5.00 A	23.70 A
Electric tank heat, B-M74 V8 N** P8	35.25 A	94.33 A	9.00 A	52.50 A	35.15 A	84.60 A	7.50 A	45.60 A	23.06 A	43.50 A	5.00 A	23.70 A
Steam tank heat/elec. blower dryer, B-M74 V6 N** P8	45.11 A	--	--	--	42.59 A	--	--	--	27.19 A	--	--	--
Steam tank heat/steam blower dryer, B-M74 V6 N** P8	36.11 A	--	--	--	35.09 A	--	--	--	22.19 A	--	--	--
Steam tank heat/elec. blower dryer, B-M74 V8 N** P8	51.21 A	--	--	--	48.69 A	--	--	--	30.34 A	--	--	--
Steam tank heat/steam blower dryer, B-M74 V8 N** P8	42.21 A	--	--	--	41.19 A	--	--	--	25.34 A	--	--	--
Per additional elec. blower dryer section (electric machine)	+ 2.25 A	--	+9.00 A	--	+ 2.25 A	--	+ 7.50 A	--	+ 1.30 A	--	+ 5.00 A	--
Per additional elec. blower dryer section (steam machine)	+ 11.25 A	--	--	--	+ 9.75 A	--	--	--	+ 6.30 A	--	--	--
Per additional steam blower dryer section	+ 2.25 A	--	--	--	+ 2.25 A	--	--	--	+ 1.30 A	--	--	--

## Component Electrical Specifications

Prewash pump motor, B-M74 V6 N** P8	1.0 hp (0.75 kW)
Prewash pump motor, B-M74 V8 N** P8	3.0 hp (2.20 kW)
Wash pump motor	3.0 hp (2.20 kW)
Power rinse pump motor	1.0 hp (0.75 kW)
Final rinse pump motor	0.75 hp (0.55 kW)
Vent motor	0.17 hp (0.13 kW)
Conveyor motor	0.34 hp (0.25 kW)
Blower dryer motor (each)	0.67 hp (0.50 kW)
Loading deck flushing pump	0.134 hp (0.10 kW)
M-Filter pump, prewash	0.134 hp (0.10 kW)
M-Filter pump, wash	0.134 hp (0.10 kW)
M-Filter pump, power rinse	0.134 hp (0.10 kW)
Control system, 208V/60Hz/3Ph or 230V/60Hz/3Ph	0.48 kW
Control system, 460V/60Hz/3Ph	3.30 kW

Electric Heating Elements (electrically-heated units only)

	208 V/60 Hz/3 Ph	230 V/60 Hz/3 Ph	460 V/60 Hz/3 Ph
Wash tank heat	14.88 kW	15.52 kW	15.40 kW
Power rinse tank heat	19.12 kW	18.18 kW	19.20 kW
Booster heater (max.) <sup>1</sup>	18.90 kW	18.30 kW	18.90 kW
Blower dryer heat (each)	3.20 kW	3.00 kW	4.00 kW

<sup>1</sup> Maximum heater output shown. Incoming cold water is pre-heated by heat captured from machine exhaust air prior to being heated to sanitizing 180°F (82°C) by booster heater. Booster heater incorporates variable output and is automatically regulated to ensure proper final rinse temperature, regardless of incoming water temperature or machine operating status (startup, operation, idle).

Typical booster output at operating temperature:

- B-M74 V6 N\*\* P8 ..... 7.025 kW
- B-M74 V8 N\*\* P8 ..... 7.100 kW

## Steam Specifications (steam-heated units only)

Steam supply connection	1-1/2" NPT		
Condensate return connection	1" NPT		
Steam supply pressure (must be specified):			
7-14 PSI (0.51-1.0 bars)	15-22 PSI (1.1-1.5 bars)	23-29 PSI (1.6-2.0 bars)	

Steam consumption (max.):

- Machine with electric blower dryer ..... 195 lbs/hr (56.47 kW)
- Machine with steam heated blower dryer ..... 206 lbs/hr (59.66 kW)
- Per additional steam blower dryer section ..... + 11 lbs/hr (3.20 kW)

**Note:** All specifications are subject to change without notice based on MEIKO's dedicated product improvement program.

# Equipment Specification: M-iQ B-M74 V \_\_\_ N \_\_\_ P8 - Item No. \_\_\_\_\_

## Unit will be a:

\_\_\_ **MEIKO M-iQ B-M74 V6 N\_\_\_ P8** multiple tank flight type rackless conveyor dishmachine, consisting of a load section, 1' 11-5/8" (600mm) prewash compartment with 1 hp (0.75 kW) pump motor, 2' 7-1/2" (800mm) wash compartment with 3 hp (2.2 kW) pump motor, contact-plus zone between wash and rinse sections, 2' 7-1/2" (800mm) combination rinse compartment (with 1 hp /0.75 kW power rinse pump motor and 3/4 hp / 0.55 kW final rinse pump motor), 5' 3" (1600mm) combination control panel / heated blower drying zone, and a clear, level unloading area. Unit will be NSF rated at a maximum conveyor belt speed of 6.0' (1.8m)/minute. Final rinse water consumption will not exceed a maximum of 56.2 U.S. gal. (212.7 liters)/hour.

\_\_\_ **MEIKO M-iQ B-M74 V8 N\_\_\_ P8** multiple tank flight type rackless conveyor dishmachine, consisting of a load section, 2' 7-1/2" (800mm) prewash compartment with 3 hp (2.2 kW) pump motor, 2' 7-1/2" (800mm) wash compartment with 3 hp (2.2 kW) pump motor, contact-plus zone between wash and rinse sections, 2' 7-1/2" (800mm) combination rinse compartment (with 1 hp / 0.75 kW power rinse pump motor and 3/4 hp / 0.55 kW final rinse pump motor), 5' 3" (1600mm) combination control panel / heated blower drying zone, and a clear, level unloading area. Unit will be NSF rated at a maximum conveyor belt speed of 6.5' (2.0m)/minute. Final rinse water consumption will not exceed a maximum of 56.8 U.S. gal. (215.0 liters)/hour.

Unit will be NSF and ETL listed. Unit will have a conveyor belt width of 29-1/2" (750mm) and a conveyor peg spacing of 2-1/8" (54mm).

Unit will utilize an internal booster heater to maintain a minimum 180°F (82°C) minimum fresh water sanitizing rinse. Wash tank temperature will be automatically maintained at a minimum temperature of 150°F (66°C). Power rinse tank temperature will be automatically maintained at a minimum temperature of 162°F (72°C).

All tank, final rinse and blower dryer heating will be accomplished by:

\_\_\_ Electric heaters      \_\_\_ Steam coil heaters \*

\* *NOTE: Some steam-heated machine configurations use electrically-heated blower dryers. Consult MEIKO for additional information.*

If steam, specify pressure:

\_\_\_ 7-14 PSI      \_\_\_ 15-22 PSI      \_\_\_ 23-29 PSI  
(0.51-1.0 bars)      (1.1-1.5 bars)      (1.6-2.0 bars)

Operating voltage will be:

\_\_\_ 208V/60Hz/3Ph      \_\_\_ 230V/60Hz/3Ph      \_\_\_ 460V/60 Hz/3 Ph

Direction of operation will be:

\_\_\_ Left to right      \_\_\_ Right to left

Unit will be equipped with the following blower dryer system:

\_\_\_ A single heated blower dryer for complete drying of all dishes, crockery and silverware, with a 0.67 hp blower dryer motor. Drying tunnel will be 1' 11-5/8" (600mm) in length.

\_\_\_ Dual adjacent heated blower dryers for complete drying of all dishes, crockery and silverware, and improved drying of plastic trays. Each drying tunnel will feature a 0.67 hp blower dryer motor and will be 1' 11-5/8" (600mm) in length.

Unit will feature a glass touch screen control panel and display. Display will provide customized information based on the machine operating mode, including tank and final rinse temperatures and selection of three different operating speeds. Display will provide service diagnostic information, automatic logging of operating history, and the ability for the operator to enter manual log entries for later retrieval.

Unit will feature a single-point drain connection and single-point indirect ventilation connections. Steam-heated machines will feature a single-point electrical connection.

## Unit will have the following standard features:

### Operating Features

Unit will feature fully automatic operation. Ware placed on the belt and entering machine will activate water flow and pump operation. Ware sensing will be by mechanical limit arm for reliable operation under exposure to steam and water droplets. Final rinse activates only when ware is located in the machine to conserve water, chemicals and heating energy. Pumped final rinse provides consistent results and water consumption regardless of variations in supply water pressure. Waste Air Heat Recovery System reclaims waste heat generated by the machine as free energy to preheat the incoming rinse water, reducing energy consumption and allowing hot-water sanitizing from a cold water supply (minimum 50°F / 10°C). Water will be delivered from Waste Air Heat Recovery System exchanger to an internal booster heater to provide the required rise for a minimum 180°F (82°C) sanitizing final rinse. Booster heater will incorporate variable output and will be automatically regulated to ensure optimum performance regardless of incoming water temperature or machine operating status (startup, operation, idle).

Unit will feature fully automatic operation with one-touch selection of three different conveyor speeds. Unit will feature a main control panel on the front of the machine to include a push-pull emergency stop switch, and separate start-stop controls at each end of the machine for operator convenience. Main control panel will be a glass touch screen display providing access to temperature displays, machine status, service diagnostics and machine logs as well as operating controls. Display will be capable of displaying information in multiple selectable languages to include English, French, Spanish and German.

## Construction Features

Conveyor will be 29-1/2" (750mm) in width, and will accommodate flat trays, dishes, 18x26" (460x660mm) sheet pans, and standard 20x20" (500x500mm) dishracks. Clearance height for ware within the machine will be 1' 6-1/4" (465mm). Unless optional lowered load end is selected, conveyor loading and unloading height will be 3' 1/4" (920mm) A.F.F. (+/- 1/2" / 12mm from adjustable legs), and conveyor will maintain level height throughout machine without gradients for easier loading/unloading and ware stability.

Unit will feature double-wall, insulated stainless steel construction on front, top and rear panels to retain heat inside the machine, conserve energy and provide a cool-to-the-touch exterior. Prewash, wash and power rinse manifolds will be internally mounted to ensure a cool-to-the-touch rear panel, and will be spaced from rear wall of tank for easier cleaning.

Tank drains will feature magnetic switches to prevent operation if drain plug is not in place. Tank pump motors will be vertically-installed for easier serviceability and self-draining. Motors will include a safety switch to automatically signal the operator if a leaking pump seal is detected.

Wash arms of unit will be mounted in easily-removed assemblies, and will feature concave, slotted nozzles to minimize clogging. All prewash, wash, power rinse and final rinse arms will be of stainless steel construction. Final rinse nozzles to feature individual, screw-in stainless steel orifices for durability and simple cleaning. Front-sloping wash tanks will be of all 304-series stainless steel construction.

## Cleaning Features

Load section of unit will include an interval-based cascade of water to push food soil directly into a single, front-accessible scrap tray. Prewash, wash and power rinse tanks will each feature a multi-stage filtration system with multiple, nesting scrap screens. Food soil will be collected and sorted by nested scrap screens and flushed into the drain line using a dedicated 0.134 hp M-Filter active filtration pump. Active M-iQ filtration will completely eliminate the need to manually remove and empty scrap baskets during operation. Upon shutdown, unit will use water already inside the machine, as well as a minimal amount of fresh water, for an automatic cleaning mode to reduce the need for manual cleaning. All components of unit that require regular manual cleaning will be marked in a blue accent color for easy identification. Prewash, wash and power rinse arm end caps will be tethered to arms with braided stainless steel wire to prevent loss during cleaning.

## Efficiency Features

Unit will feature a single-point vent connection. Heat will be drawn the length of the machine to the load end vent for superior temperature distribution, reduced air emissions and reduced energy consumption. Load end vent will incorporate a MEIKO Waste Air Heat Recovery System heat exchanger to preheat incoming final rinse water and cool exhaust air, permitting final rinse operation using a cold water supply. Unit will employ active soil filtration and removal in each tank to reduce detergent consumption by up to 50%.

## Unit will have the following optional features:

\_\_\_ Drain water tempering - reduces drain water below 140°F (60°C)  
\_\_\_ Single-point electrical connection (electrically-heated machines only)  
\_\_\_ Flanged, bolt-down feet

Unit will include the following doors:

\_\_\_ Spring-loaded lifting doors extending the full width of each applicable section (prewash, wash, rinse, blower dryer). All doors will feature dual-wall, insulated construction, and door safety switches to prevent operation while in the open position.  
\_\_\_ Hinged doors extending the full width of each applicable section (prewash, wash, rinse, blower dryer). All doors will feature dual-wall, insulated construction, and door safety switches to prevent operation while in the open position. Tanks and sections 2' (600mm) in length or shorter will feature a single door. Longer tanks and sections will feature dual doors.

## Unit will have the following contact-plus zones:

Contact-plus zones between prewash and wash sections (optional) and between wash and rinse sections (standard) minimize cool/soiled water carryover between tanks, which reduces heating energy and detergent consumption.

### Between prewash and wash sections (first digit after "N" in model number)

\_\_\_ 0: None (standard)      \_\_\_ 2: 7-7/8" (200mm)      \_\_\_ 3: 11-7/8" (300mm)  
\_\_\_ 4: 15-3/4" (400mm)      \_\_\_ 5: 19-5/8" (500mm)      \_\_\_ 6: 23-5/8" (600mm)  
\_\_\_ 8: 31-1/2" (800mm)      \_\_\_ 10: 39-3/8" (1000mm)

### Between wash and rinse sections (second digit after "N" in model number)

\_\_\_ 2: 7-7/8" (200mm, standard)      \_\_\_ 3: 11-7/8" (300mm)  
\_\_\_ 4: 15-3/4" (400mm)      \_\_\_ 5: 19-5/8" (500mm)      \_\_\_ 6: 23-5/8" (600mm)  
\_\_\_ 8: 31-1/2" (800mm)      \_\_\_ 10: 39-3/8" (1000mm)