

**Ultrasonic cleaning appliances**

Technical information	m25i	m40i	m80i600	m80i	m120i	m160i	m160i2400
Volume l	25	40	80	80	120	160	160
External dimensions mm	540x400x500	640x390x540	760x460x720	760x460x720	740 x 580 x 750	1340x460x770	1340x460x770
Tank dimensions mm	385x280x250	460x265x300	585x330x400	585x330x400	585 x 450 x 450	1180x330x400	1180x330x400
Wash basket dimensions mm	345x240x195	420x225x225	540x290x340	540x290x340	540 x 400 x 390	1110x280x300	1110x280x300
Ultrasonic power W nom./peak	300/600	600/1200	600/1200	1200/2400	1200/2400	1200/2400	2400/4800
Ultrasonic frequency kHz	30*)	30*)	30*)	30*)	30*)	30*)	30*)
Heating power W	1000	1500	2000	2000	4000	6000	6000
Voltage V/Hz	230/50	230/50	230/50	230/50	(230)/400/50	(230)/400/50	(230)/400/50
Filling valve	R 1/4	R 1/4	R 1/4	R 1/4	R 1/4	R 1/4	R 1/4
Drain valve	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4
Overflow weir valve	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4
Connecting load W	1300	2100	2600	3200	5200	7200	8400

\*) Available alternatively at 40kHz

Dryers	m40 dr	m80 dr
External dimensions mm	800x390x510	920x460x720
Wash basket dimensions mm	420x225x225	540x290x340
Heating power W	2000	3300
Voltage V/Hz	230/50	230/50
Fan m3/h	500	700
Safety thermostat	Yes	Yes
Max. operating temperature C°	80	80
Connecting load W	2200	3500

**Fluid handling - Closed loop filtrations**

- 10" filter, magnetic driven pump
- 10" filter, centrifugal pump
- 20" filter, centrifugal pump
- P1S bag filter, centrifugal pump
- P2S bag filter, centrifugal pump
- Air bubble agitation
- Storage tank with oil separation system
- Storage tank with band skimmer
- Rinse water regeneration system

**Options for mi-range**

- Rinse tanks
- Dewatering tanks
- Hot air dryers
- Manually rotated drums
- Motorized rotating drums
- Platforms
- Drip plates
- Opto liquid level sensors
- Extended rims
- Ventilation rims
- Spray bar fittings
- Basket dunk system
- Jet spray under immersion
- mSBT transport system
- mSBT multi basket function

**mSBT transport system**

mSBT & mSBT20 information available on request. Please contact your nearest Finnsonic distributor.



4/05 Specifications subject to change

**m industrial  
Ultrasonic cleaning**  
Flexible and Affordable Product Range  
for Maintenance and Production



# Modular mi-series for perfect cleaning results

The m industrial ultrasonic cleaning tanks are used as single-stage bench top appliances or as part of a fully integrated modular cleaning system. They are designed for demanding production and maintenance cleaning. The m industrial range consists of standard sizes including options for building a multi-stage process.



m40i modular wash process: wash, rinse, final demin water rinse, hot air drying  
Ultrasonic transducers typically bonded to tank bottom

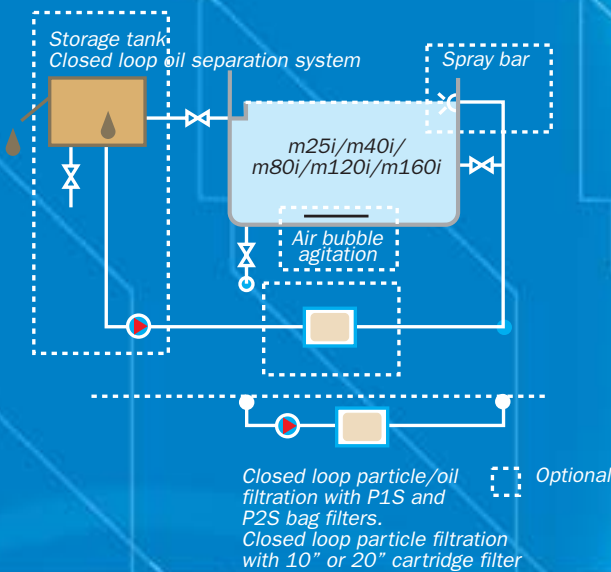
## Wash

- The m industrial features include
- Powerful ultrasonics for precision cleaning
  - Booster & Sweep m80i 1200 W, m120i & m160i
  - m40im, m80im: transducers on tank sides
  - Welded construction ensuring equal material thickness for long service life
  - Full width overflow weir with cut-off valve for surface skimming or overflow cascading
  - Spray under immersion: alternative to ultrasonics
  - Tank material acid proof stainless steel AISI 316
  - Level sensor for protection of heating elements and ultrasonics against dry run
  - Electronic control panel for monitoring and storing of wash time and temperature
  - Double lid with thermal and acoustic insulation

## Fluid handling

The m industrial fluid handling options help you to reach the required cleanliness level and to cut operating costs. The closed loop filtration and oil removal options increase the life of wash and rinse liquids whilst providing more consistent cleaning results.

Free oil can be removed from the wash liquid by the storage tank with an oil separation system. A spray bar enables effective surface skimming to the overflow weir.



## Rinse

The m industrial rinse tanks are used for removing detergent residues from cleaned parts. Spotless rinsing results are achieved with demineralised water.

The industrial dewatering tanks are made for non-heated dewatering fluids.

## Dry

The m industrial dryer dries even most complicated parts effectively with circulating hot air. Temperature up to 80°C.

1. Extended rim 2. Full width overflow weir is a standard feature 3. Drip plate  
4. Spray bar for surface skimming 5. Opto sensor for non-conductive liquids  
6. Standard baskets m25 (5kg), m40 (5 kg), m80 (20kg), m120 (35kg) m160 (40 kg)  
7. The electronic control panel is easy to use 8. Air bubble agitation for effective rinsing



m40 jet, m80 jet spray under immersion, also suitable for A III -solvents

Spray under immersion is recommended for components, not suitable for ultrasonic cleaning

Basket dunking creates liquid flow for better wash and rinse results



Wash stage: m80i ultrasonic wash with P2S closed loop filtration. Rinse stage: m80ir with air bubble agitation and closed loop filtration with 10" cartridge filter.

## Basket handling and automation



Unique, ergonomic design. Wash baskets are also available for heavier loads up to 40 kg. The handles always remain cool. New m160i for cleaning of long parts; filters, profiles etc.



Advanced mSBT and mSBT20 fully automatic basket transport systems. Maximum loads 10 kg and 20 kg.

PT Easy Lift. Pneumatically operated assist lift up to 25 kg. For all tank sizes.

Automated cleaning processes give consistency where effectiveness and high cleanliness are vital. The mSBT and mSBT 20 transport systems are fully automatic for up to 8 stages of washing, rinsing and drying.

The fully automatic transportation has clear advantages:

- Reduced labour costs
- Uniform cleaning result
- Operator is not exposed to chemicals
- Flexible up to 8 stages
- User friendly, control from PLC
- Dunking action in wash and rinse stages
- 7-day timer