



Cleaned for take-off: MEIKO trolley washing solutions

MEIKO trolley washing machines



Fly on the wings of perfection
in terms of cleanliness, hygiene and safety



Security and safety are the most important values an airline can offer today. A great number of checks are required before the captain and cabin crew of an aircraft are finally able to welcome the first passenger on board. This includes, making certain that travellers will receive a clean and hygienic service. In this regard, airlines fully depend on the reliability of their caterers. With our trolley washing systems for inflight catering, we at MEIKO stand for a clean and perfect start. Our tailor-made systems make your trolleys available for another flight at the correct time and in perfectly hygienic condition.

This is the reason why you can find our technology everywhere around the globe where reliability, safety and efficiency count – from small business airports to large international traffic hubs. Discover the versatility of our tailor-made trolley washing systems. Find out what we at MEIKO call the clean solution.



Single-tank tunnel washer **BA 251-C**
for above-floor or pit installation and up to 160 trolleys/h



Fast, dependable and secure trolley cleaning and drying for limited spaces

MEIKO's washing solution *BA 251-C* is a single-tank tunnel washing machine and can process from 90 to 160 full-size airline-meal trolleys/h. The system is both versatile and flexible. Its versatility allows it to be tailored to the exact needs of each individual catering operation. And the flexibility of the ramp execution makes it easy to install the washer above ground. It also guarantees an effortless integration into any new or existing ware washing facility. Next to the ramp version, designed for situations in which room features and dimensions are set, *BA 251-C* is also available for installation in a pit to improve the ergonomics of loading and unloading. Another big plus: The ramp version can easily be converted into a pit version, should a change be beneficial at a later point time.



Easy loading – With a ramp height of only 400 mm, little effort is necessary to roll a full-size meal trolley onto the heavy-duty stainless steel belt, which transports the trolley through the washer, with little effort.



Unique belt design – Always level in the loading and unloading areas, the transport belt tilts to an angle during the washing process. This is to allow for a better flowing off of residual water from inside and outside the trolley, creating the necessary pre-conditions required for outstanding drying results.



Wash and pack – *BA 251-C* was designed with short changeover times in mind. Thanks to MEIKO's unique drying process, trolleys arriving in the clean zone are immediately ready-to-use.

Technical Data **BA 251-C**

| Usable passing... | | Machine length | | Pit length | Belt speed | Capacity |
|-------------------|----------------|----------------|-----------------------|------------|------------|----------------------|
| ...width (mm) | ...height (mm) | (mm) | with ramps up to (mm) | (mm) | (m/Min) | Full-Size Trolleys/h |
| 1,000 | 1,100 | 10,500 | 14,100 | | 0.5 - 0.9 | 90 - 160 |
| | | | | 11,300 | | |

Multi-tank tunnel washer **BA 252-C**
for above-floor or pit installation and up to 280 trolleys/h



Perfect results, fast and reliably, day after day

MEIKO's multi-tank tunnel washing machine BA 252-C is designed for the hygienic cleaning and drying of large quantities of meal trolleys in a short amount of time. With a groundspeed of up to 280 full-size airline-meal trolleys/h BA 252-C it is the ideal solution for large-size catering facilities and short changeover times. The MEIKO BA 252-C trolley washers can be tailored to the exact needs of each individual catering operation. It can be perfectly integrated into any new or existing ware washing facility – both in a pit and above ground to make the best use of the conditions on-site. In addition to this, all above-ground executions can easily be remodelled for use in a pit (or vice-versa) if future developments require it.



Optional clean zone – For optimal hygiene and process reliability the workspace can be separated into a soiled and a clean area.



Safety and simplicity – The clever design of the tunnel washer guarantees easy access for daily cleaning and servicing, adding extra protection of both trolleys and machine against damages caused by improper trolley handling.



Clever drying technology – Once loaded into the washer, the transport tilts the trolley to facilitate residual water flowing off the trolley's internal and external surfaces for the best drying results.



Ramp or pit – The above-ground version of the BA 252-C washer combines speed with flexibility in regards to the installation site. With a mere 400 mm ramp elevation, loading and unloading can be managed both comfortably and swiftly.

Technical Data BA 252-C

| Usable passing... | | Machine length | | Pit length | Belt speed | Capacity |
|-------------------|----------------|----------------|-----------------------|------------|------------|----------------------|
| ...width (mm) | ...height (mm) | (mm) | with ramps up to (mm) | (mm) | (m/Min) | Full-Size Trolleys/h |
| 1,000 | 1,100 | 13,500 | 17,100 | | 1.2 - 1.6 | 210 - 280 |
| | | | | 14,300 | | |

Details that turn trolley washing
from a bumpy ride into a smooth glide



Perfect results, fast and reliably, day after day

Engineered with German practicality

The wash arms and nozzles can be individually adjusted for optimal cleaning results in awkward corners on containers or trolleys. All detachable components, such as lids, filter inserts and screws, are fixed with strings or chains to allow handling while securing them against getting lost.

Excellent drying results

Optimally located air knives on the ceiling and inner walls ensure the ideal distribution of large quantities of heated dry air onto all surfaces of the trolleys. Robust stainless steel lateral wash-arms with strategically directed nozzles guarantee first class washing results with absolutely no spray shadow.



Separate cabinets for installations and electronics

All water, steam, and pumped hot water connections, as well as distributors, valves, meters and hot water aggregates are centrally fitted within the standard MEIKO installation cabinet, offering great operating comfort and ensuring easy access for service and maintenance.

Unique MEIKO features

Additional powerful wash systems located underneath the open belt ensure the cleaning of the underside of the trolleys, bulky boxes and containers and other bulky equipment. Where trolleys with unsealed bearings are still in use, the lower washing systems can be switched off independently. The heavy-duty stainless steel belt ensures unrivalled durability and an excellent stability of the trolleys even without arresting the brakes.



Stay in touch with every aspect of your washing operations



MEIKO Control Systems – Your blind flying days are over!

MEIKO's trolley washers come equipped with modern display control systems, making daily operating data statistics and system monitoring available at your fingertips.

Comprehensive

All cleaning operations can be controlled from the touch display.

User-friendly

Only the menu items that are required for a given operation are displayed, blocking out distracting information.

Powerful

Authorised persons can easily take control and systematically optimise functions.

Supportive

When needed, a library of supplementary information can be accessed via the high-res touch display (operating instructions, spare parts lists, contact data etc.).

Accessible

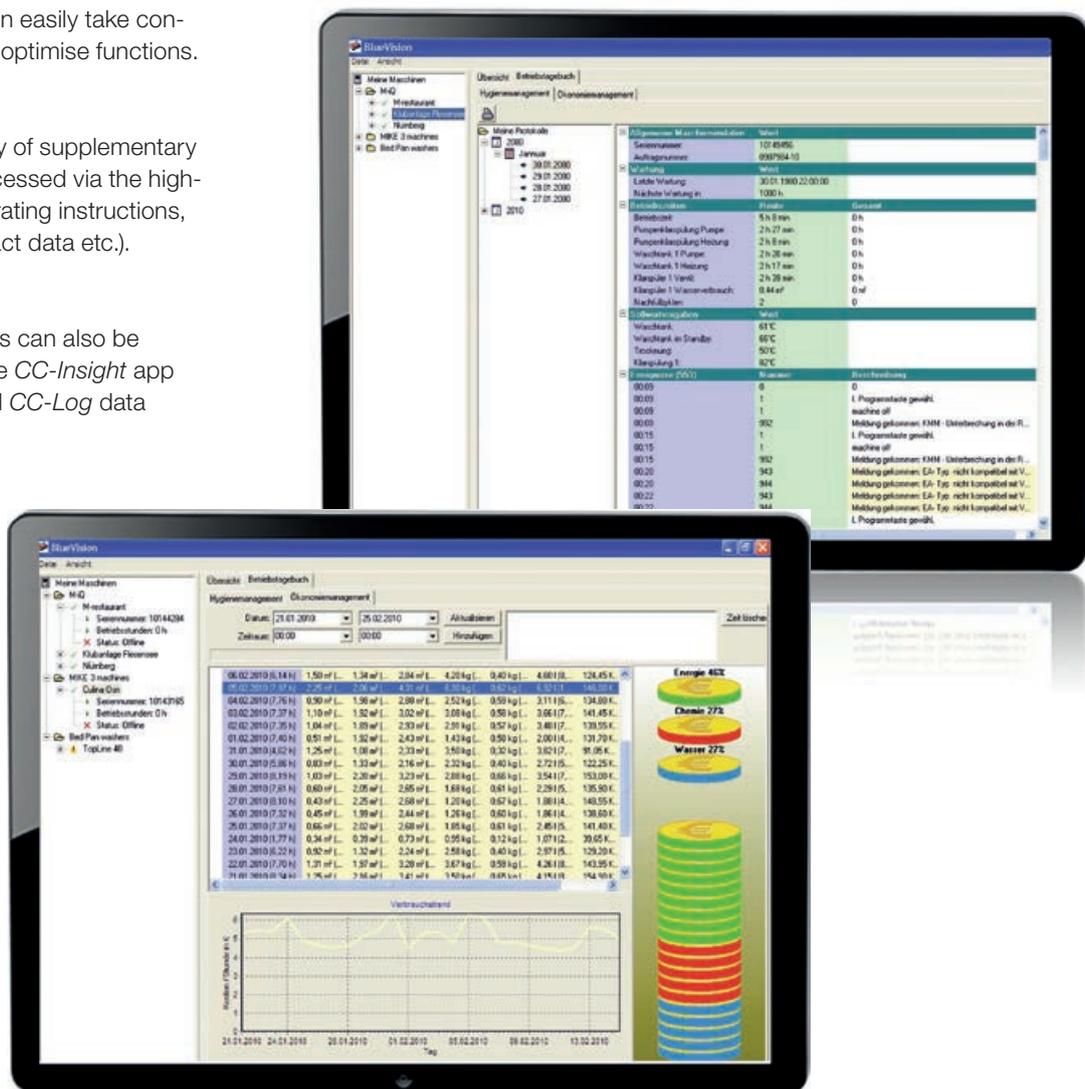
If required, all machines can also be accessed online via the *CC-Insight* app or through the handheld *CC-Log* data module.



A wireless login into the machine control unit provides for the transfer to and storage of all system-relevant data on an external handheld device within seconds. This ensures that changes to operating processes, analyses and diagnoses are possible at any time.



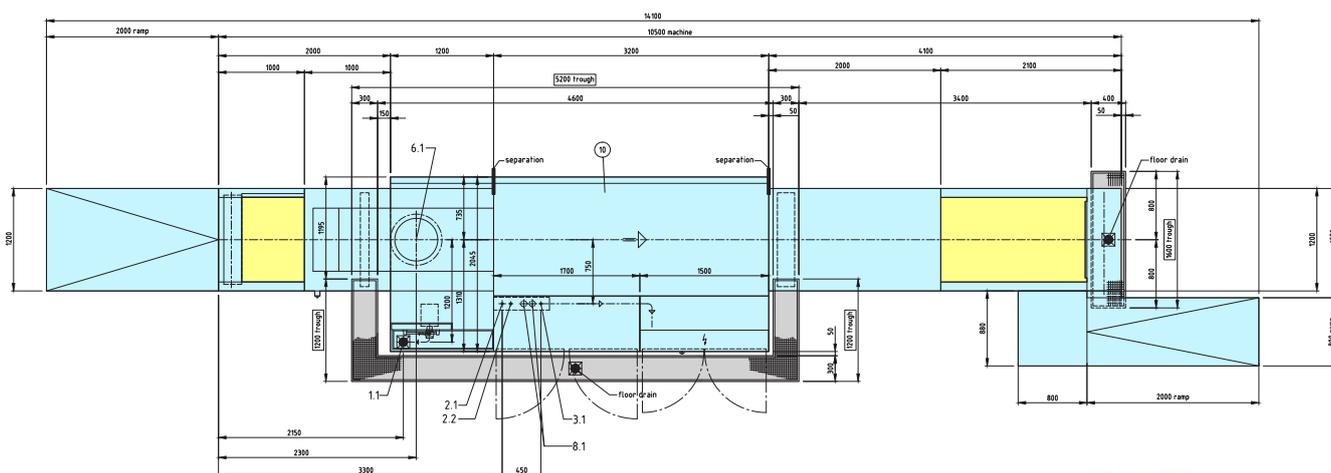
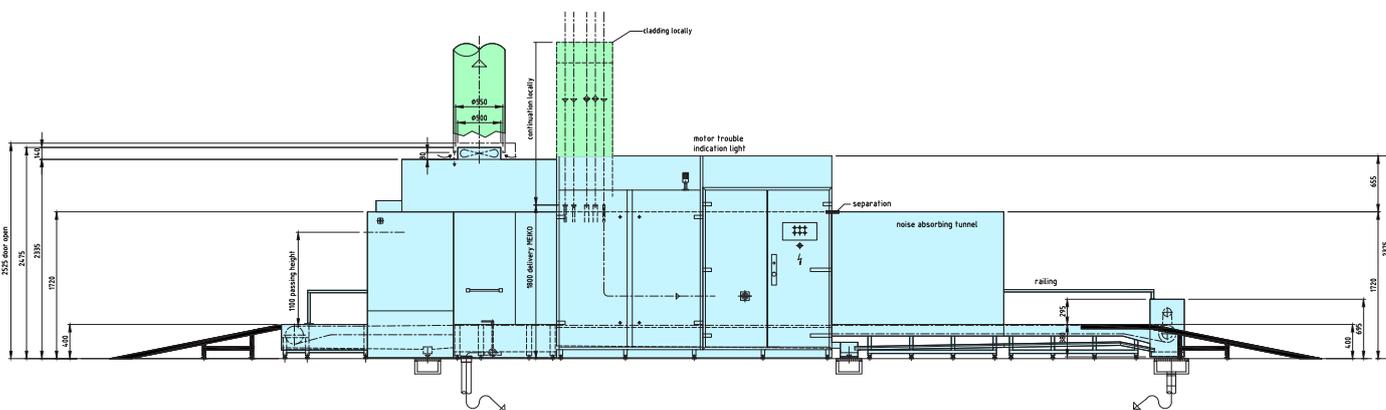
All system-relevant data, functions and operating processes are stored and displayed by the integrated KMM communication module. Operating conditions are analysed and diagnosed, and can be easily changed on your computer as necessary.



General plans and cross sections

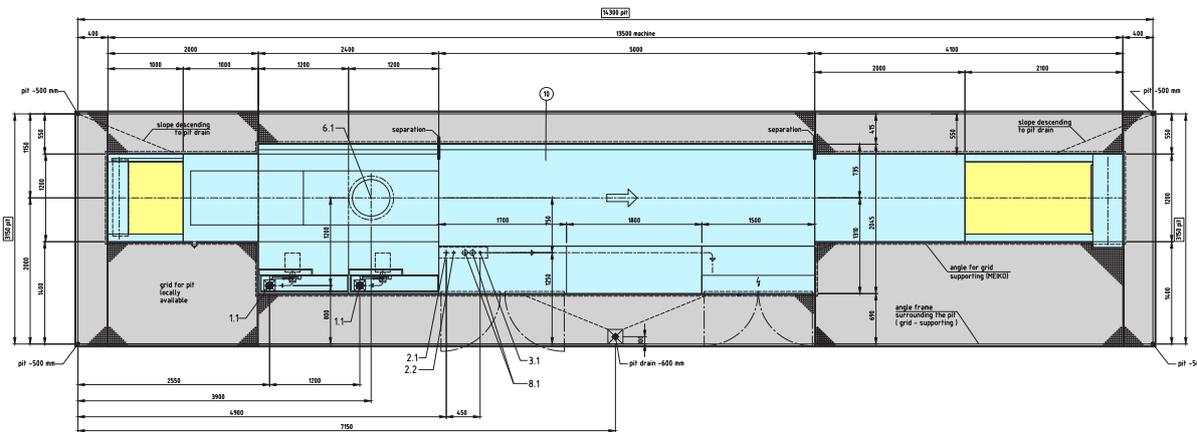
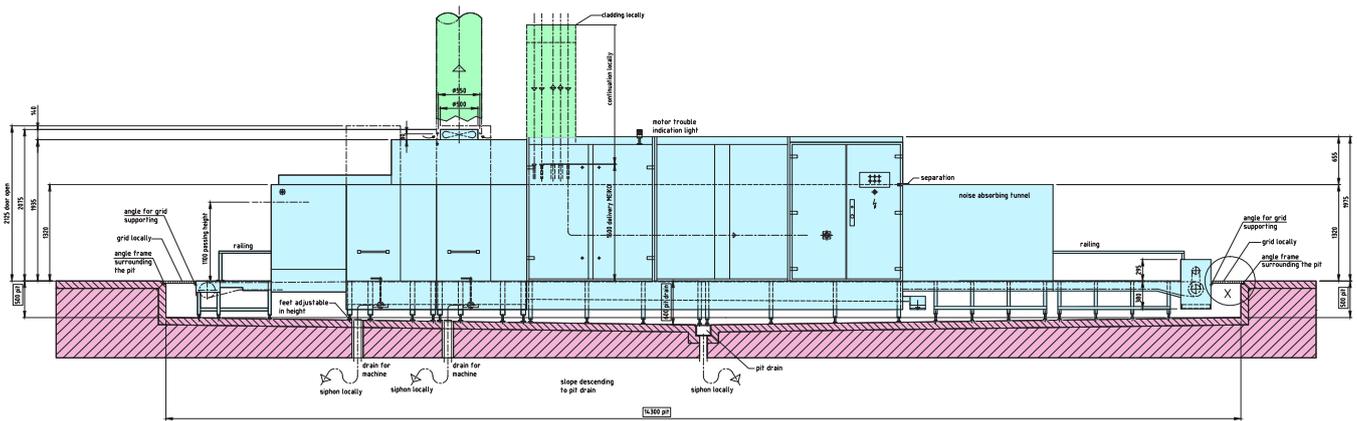
BA 251-C

Ramp version



BA 252-C

Pit version



Chamber type walk-in trolley washer **WS 125.2**
for above-floor and pit installation and up to 45 gastronorm tray trolleys/h



Compact, reliable and intelligent cleaning technology

With today's ever increasing hygiene standards, even smaller in-flight catering operations are expected by their clients to ensure the perfect cleanliness of all the equipment they handle, including the trolleys.

MEIKO's frontloading trolley washing solution *WS 125.2* is a compact walk-in chamber washing machine, for above floor installation or for installation in a pit. With a capacity of 45 gastronorm tray trolleys per hour it combines a high level of effectiveness with a small footprint.

The MEIKO *WS 125.2* washers can be tailored to the exact needs of each individual catering operation or perfectly integrated into any new or existing ware washing facility. *WS 125.2* is available in two versions: the ramp version for best use of the available space and a pit version for easier and faster loading and unloading.



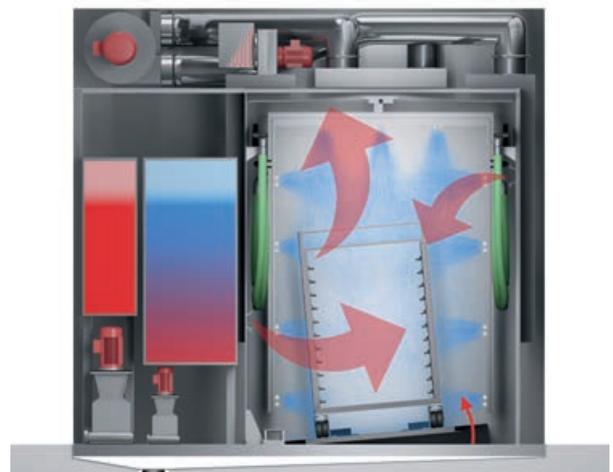
Room-saving doors – The roll-up door of the *WS 125.2* ensures easy loading in confined spaces. All installations are accessible via a separate maintenance door.

Only with MEIKO – The stainless steel trolley plat-form tilts during the wash program, to increase the amount of residual water that runs off from the trolley or container. This guarantees perfect drying results.



Technical Data

| WS 125.2 | | |
|-------------------------------|----------------------|-----------------------|
| Capacity | Wash cycles per hour | aprox. 15 |
| Useable volume | H x W x D in mm | 1,950 x 1,000 x 2,400 |
| Clean water per wash cycle | l | 18 |
| Tank capacity | l | 300 |
| Total connected load (motors) | kW | 19.5 |
| Roller door drive (option) | kW | 0.3 |
| Tank heating | kW | 30 |
| Boiler heating | kW | 26 |
| Dryer heating | kW | 18 |



Extremely shallow pit – The pit version of *WS 125.2* requires a depth of just 125 mm for installation.

MEIKO Service

For clear skies above and optimal conditions below

MEIKO's customer service experts keep all your bases covered

Whether you are catering for city hoppers or long haul flights, MEIKO's professional trolley washing systems are guaranteed to reach the recommended level in purity, hygiene and cleanliness without compromise. By the same token, you can expect our expert support at every airport. No matter where you run your business, our 480 handpicked, authorized and specially trained service technicians worldwide are ready to answer your call on 365 days a year – and they are already familiar with your individual MEIKO warewashing solution. Why? Because MEIKO wants to offer you more than just the best technology: we also give you the highly qualified support you need to keep your operation aloft – always.

Ready for a clean take-off: we are there for you from the start

Our comprehensive range of services includes planning and project support for the construction or remodelling of your facilities, initial equipment installation, refurbishment, introductions and technical briefings. We also provide long-term onsite training for scullery and maintenance staff as well as crews and operators, maintenance and repair works as well as spare parts supply.

Clean from every angle: the service values that guide us

Professional warewashing, cleaning and disinfecting – that is our element. We like to keep the bigger picture in mind: people, natural resources and the environment. In our opinion, a truly clean solution needs to offer decisive added value. The MEIKO wheel of service values illustrates our approach: you can turn things whichever way you like, but if you want to run true, you need to strike a balance between efficiency, quality and trust.

On-site project support

Initial installation

Replacement

Technical staff trainings

Repairs

Maintenance

Technical briefings

Spare parts supply





The clean solution

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We reserve the right to make changes as part of product improvements