

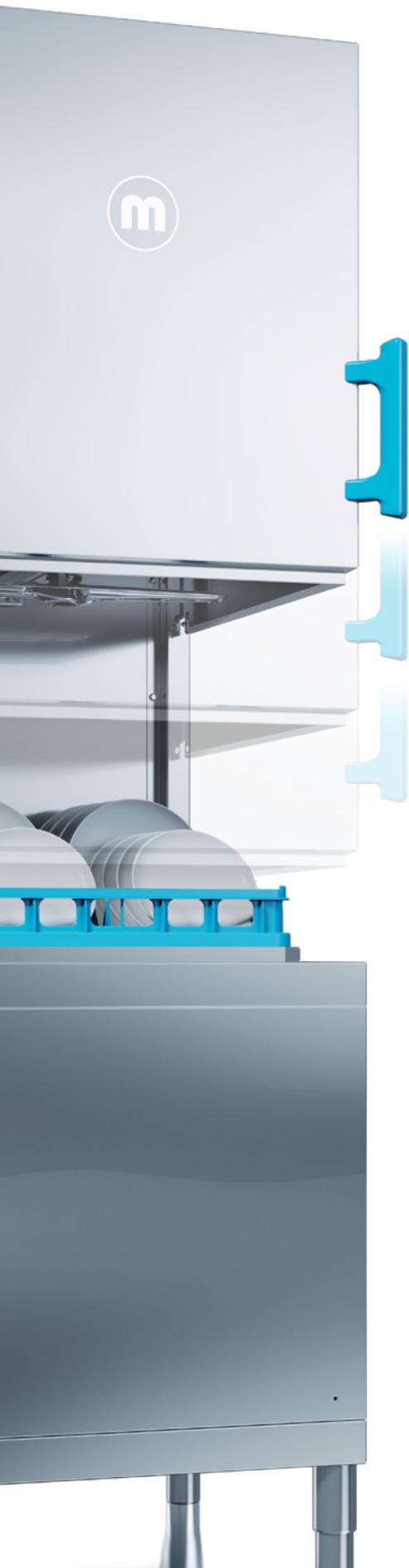
# M-iClean H

Hood type dishwashing machines with automatic hood system for glassware, dishes and utensils



# M-iClean H

Ergonomics better than ever



Efficient, resource saving and perfect warewashing results – these features are to be expected in today's professional machines. With MEIKO, though, there is an additional decisive advantage: optimised ergonomics. A MEIKO is easier and quicker to operate. It supports people's natural motion sequences, thus increasing the motivation of personnel, all thanks to ergonomics. MEIKO produces warewashing technology that delivers all-round clean results: for people, for the environment, and for controlling.

## **Unique: the MEIKO ergonomics concept**

The new *M-iClean H* hood type dishwashing machine: warewashing has never been so ergonomic or economical. Spectacular: the hood operation makes life easier than ever before for machine operators. Easier warewashing is possible – open and close the hood with a gentle touch. The hood raises and lowers itself silently and softly, as if by magic. Effortless, of course.

Designed for ergonomic use, the *M-iClean H* is much easier to load and unload, putting less strain on the operator's back and muscles. Efficient, automated processes can even achieve **time savings of up to 30 minutes per day washed** (compared to previous model at approx. 120 wash cycles per 8 h shift)

## **Particularly ergonomic: the flexible display**

The *M-iClean H* display is positioned exactly where it is needed – at eye level. No need to bend down, strain your neck, or constantly shift from one place to another. It can be installed on the right or left hand side of the machine, or wherever is most comfortable.

## **Everything flows**

Adjustable working heights, versatile control system, intuitive, user-friendly operation – the MEIKO ergonomics concept realises a vision: washing without effort or physical strain, while boosting operational efficiency.



**Ergonomics saves time and costs:**

- Efficient processes and automation reduce wash cycle times
- Quick drying means dishes are ready for use quickly, too
- An ergonomically oriented set up in the dish-washing area protects employees and can help reduce sick days
- Better ratings as a workplace
- Noticeably better indoor climate with lower heat and vapour emissions
- Technical solutions that reduce operating costs

***M-iClean H: user friendly and efficient***



## M-iClean H

### Bringing everything under one hood

Easier to work with, short wash cycle times, a pleasant indoor climate and outstanding washing and drying results: *M-iClean H* brings everything under one hood. This performance is made possible thanks to our intelligent ergonomics concept with clever hood technology – MEIKO has completely redeveloped the hood type dishwashing machine: here, the dishwashing machine and control technology combine in perfect harmony. 95 years of MEIKO engineering artistry and machine building expertise have gone into this system.

Our tip: forget everything that you have ever previously thought or heard about hood technology. The *M-iClean H* is an incredible solution made in the highest MEIKO quality.

#### Continuous power:

#### 1.2 million wash cycles during testing

*M-iClean H* features top-quality ergonomics: MEIKO developers ran 1.2 million wash cycles to put this model through its paces, providing all the proof you need that the *M-iClean H* is a truly reliable and practical solution that will hold its value. This number of test cycles equates to **more than 20 years in the field** by our calculations. And because we believe in the quality of what we offer, our automatic hood system comes with a 60-month warranty. A secure investment.





### On the safe side: our warranty

MEIKO provides functional and investment security: 60 month warranty on all electrical and mechanical components of the automatic hood system.



### The *M-iClean H* highlights at a glance:

- Clever automatic hood system
- Automatic rack detection
- Flexible display at eye level and signal concept
- *AirConcept* exhaust heat recovery
- Waste water heat recovery
- Stainless steel dosing pipes and ascending pipes
- Ergonomic handles
- Drying table
- Flexible working height (adjustable feet)

Available in 3 special value packages –  
for a fantastic price-performance ratio.



# M-iClean H

Pure ergonomics and efficiency

## M-iClean HM

### User friendly and efficient

Easier work, shorter wash cycle times, noticeably improved indoor climate, and hygienic results thanks to sophisticated technology. With a flexible display, user-friendly automatic hood system, and blue operating concept.

#### Optional extras:

- *PowerWash* (3 pump motor settings)
- Automatic rack detection
- *AirConcept* exhaust air heat recovery
- Waste water heat recovery
- Heat retention
- Water change programme
- Drying module
- MEIKO *GiO MODULE* technology (see fig.)

#### Passing height

H 505 mm

#### Rack size

500 x 500 mm

#### Rack capacity

Up to 60 racks/hour

## M-iClean HL

### Designed especially for large passing heights

For safe, ergonomic work with a passing height of 560 mm. The *M-iClean HL* hood type dishwashing machine features intelligent technology and gets top marks for speed and hygiene. It washes dishes, racks, pots and bulky items cleanly and effortlessly with *PowerWash* as a standard feature.

#### Optional extras:

- Automatic rack detection
- *AirConcept* exhaust air heat recovery
- Waste water heat recovery
- Heat retention
- Water change programme
- Drying module
- MEIKO *GiO MODULE* technology

#### Passing height

H 560 mm

#### Rack size

500 x 500 mm  
to 650 x 500 mm

#### Rack capacity

Up to 60 racks/hour



## MEIKO QuickDry

### MEIKO QuickDry for M-iClean HM and HL

Reusable plastic dishes, glasses and other hollowware require particularly good drying results. The drying system *MEIKO QuickDry* has especially been designed to meet this purpose, and ensures more efficiency and hygiene while driving down operating costs. With *MEIKO QuickDry* washware dries and is ready to be used again quickly.

#### Comfort advantages:

- Drying from the top and from below (excellent drying result)
- Automatic blower start (at the end of the wash programme)
- Pleasant indoor climate as no humid exhaust air
- Easy to clean
  - No wearing parts
  - No curtains
  - Excellent user safety

#### Passing height

H 505 mm

#### Performance

Up to 500 cups/h  
(20 racks/h with 25 cups)

#### Time

180 s

**Connected load fan**  
only 0.1 kW no separate power supply required

**Volume flow**  
900 m<sup>3</sup>/h

## M-iClean HXL

### Twice the capacity and comfort

There is room for two racks of dishware beneath the spacious *M-iClean HXL* double hood. The machine therefore makes light work of glasses, cutlery and dishware as well as bulky items such as pots, pans and baking trays. An energy-saving and efficient way to wash 120 racks per hour (basic programme runtime for dishes: 60 seconds).

#### Optional extras:

- *PowerWash* (3 pump motor settings)
- Automatic rack detection
- *AirConcept* exhaust air heat recovery (see fig.)
- Waste water heat recovery
- Heat retention
- Water change programme
- Drying module
- MEIKO *GiO MODULE* technology

#### Passing height

H 505 mm

#### Rack size

2x (500 x 500 mm)

#### Rack capacity

Up to 120 racks/hour



# M-iClean H

## Ergonomic advantages

### A huge plus for health and finances.

The back. The arm. The knee. Working in the dishwashing area affects many parts of the body. The reasons for this are inefficient motion sequences, frequent bending, twisting, and the particularly strenuous work above shoulder height.

**The M-iClean H is designed to take the strain off the human body.** Work is noticeably easier and the workplace more attractive. That is what several conversations with our customers have told us about the M-iClean H (QR code).

A particular plus is the opportunity to gain a better workplace rating, needed for Germany's Working Conditions Act. Even better: **ergonomics save money.** Lean washing and drying processes and fewer sick days caused by health issues that come from poor ergonomics. All of this helps to save on operating costs.

**Ergonomic** advantages as standard:

- Automatic hood system
- Automatic rack detection



Your benefits:

- + Tangibly more comfortable work
- + Improving ergonomics takes the strain off employees, protecting them
- + Top technology with the potential for savings

# M-iClean H

## PureEnergy package

### Save up to 21%, and be 100% happier

The *M-iClean H* hood type dishwashing machine achieves a new dimension in profitability thanks to high levels of energy efficiency: You can **save up to 21% in energy** with our heat recovery system. This is what we see in comparison with the *M-iClean* hood type dishwashing machine without the heat recovery option (measured as per EN50593 / TC59X). The new stainless-steel waste water heat recovery system in the heat retention package ensures optimum

energy exploitation. At a utilisation rate of **125 racks per day** and **330 operating days per annum**, the *M-iClean H* with waste water heat recovery and heat retention can pay for itself **after just approx. 1.8 years** by our estimates.

**PureEnergy** package\* at a preferable price:

- Waste water heat recovery
- Efficient heat retention

\*The PureEnergy package is not available for the *M-iClean HXL*.



# M-iClean H

## FeelGoodClimate package

### Evaporation – fast

Even today, the air in many dishwashing areas is uncomfortably humid: steam and heat are unhealthy and unpleasant for staff. In many cases, they can result in a miserable working environment. MEIKO gets the steam gone. The *M-iClean H* Climate Package does a great job, giving you optimum hygiene and cleanliness, as well as an improved indoor climate.

FeelGoodClimate package at a preferable price:

- Vapour extraction with self-cleaning feature
- Heat recovery



#### Your benefits:

- + Reduced steam emissions
- + Tangibly improved indoor climate
- + Greater hygiene safety
- + Energy savings of up to 18%\* are possible with our heat recovery and vapour extraction systems

\* Compared to M-iClean hood type dishwashing machine without the heat recovery options (measured as per EN50593 / TC59X).

# M-iClean H

## MiraculousShine package

### Everything brilliantly clean, always

Clean dishes and dry glasses are your calling card – an absolute must. With the *M-iClean H* MiraculousShine package you will always shine bright: it ensures perfect washing results – a brilliant finish and the highest level of cleanliness become standard. All while making manual polishing a thing of the past. Glass breakages becomes an almost unimaginable concept. This is because the gentle and yet rapid drying on the air-blowing drying table really cleans up – no drips, no smears, no streaks. And because the air flow also cools the glasses to a comfortable temperature, unloading and putting them away is much faster.

An ideal system. And a brilliant premiere: *M-iClean H* is the first hood type dishwashing machine from MEIKO with active drying. The MEIKO inventive spirit makes it possible.

**MiraculousShine** package at a preferable price:

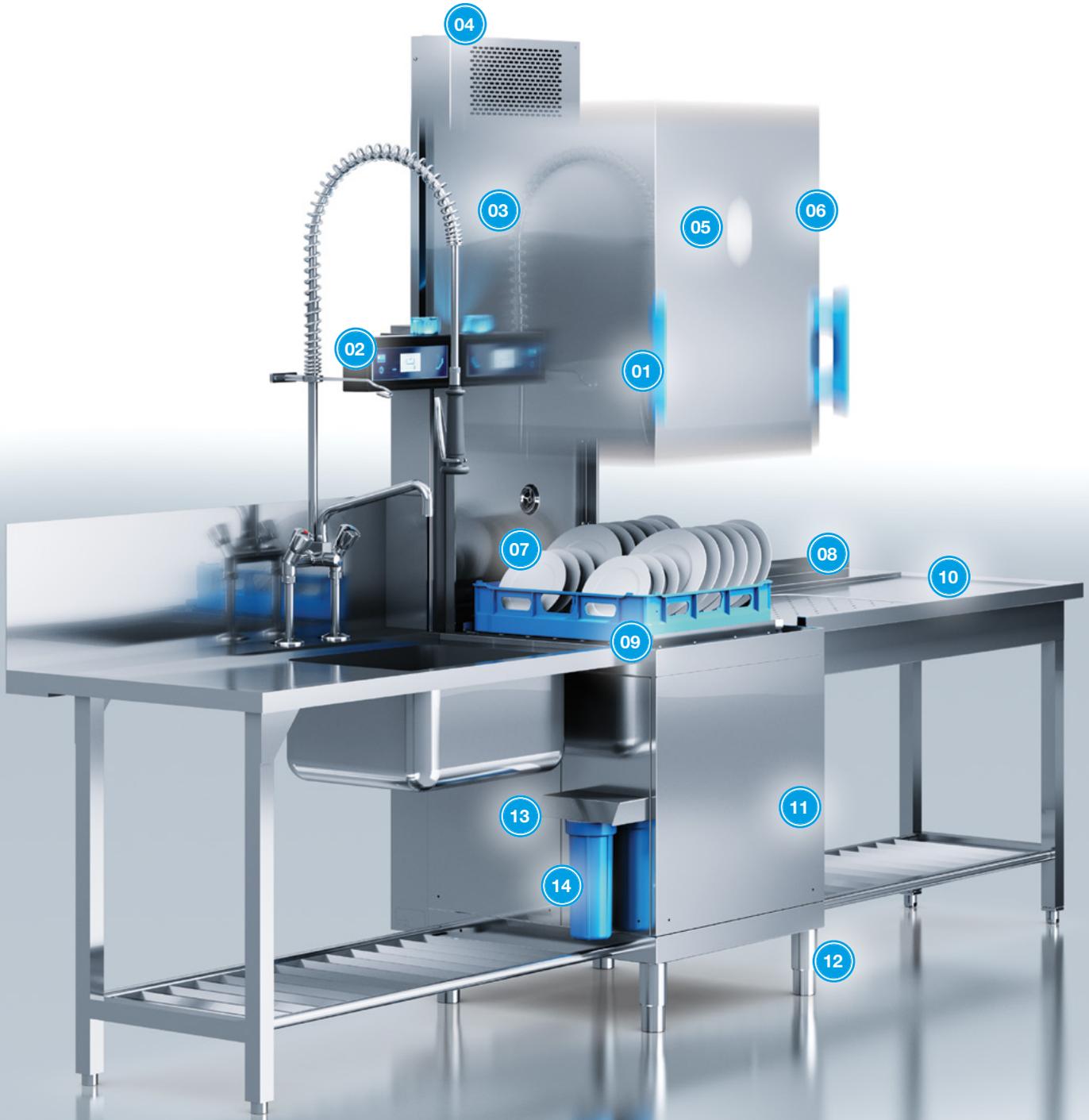
- Fully integrated *GiO MODULE*
- New drying table with cooling fan



- Your benefits:
- + Excellent washing and drying results
  - + Valuable time savings:
    - No manual polishing
    - Faster loading and unloading
  - + Faster cooling of glasses and dishes
  - + Fewer glass breakages

# M-iClean H

The highlights



- 01 – Blue operating concept
- 02 – Flexible safety glass operating panel
- 03 – Heat retention
- 04 – Exhaust air heat recovery
- 05 – Combined stainless-steel wash and rinse arms
- 06 – Comfort automatic hood system
- 07 – Automatic rack detection
- 08 – Extensive passing height (505<sup>1)</sup> / 560<sup>2)</sup> mm)
- 09 – Folding removable rack holders

- 10 – Drying table for active drying / *MEIKO QuickDry*<sup>3)</sup>
- 11 – Stainless steel dosing pipe
- 12 – Simple height adjustment and plinth set-up
- 13 – Waste water heat recovery
- 14 – Fully integrated *GiO MODULE*: no pre-installation necessary, fine filter on the side of the machine

1) M-iClean HM / M-iClean HXL  
2) M-iClean HL  
3) M-iClean HM / M-iClean HL (Optional)

# M-iClean H

## Detailed engineering



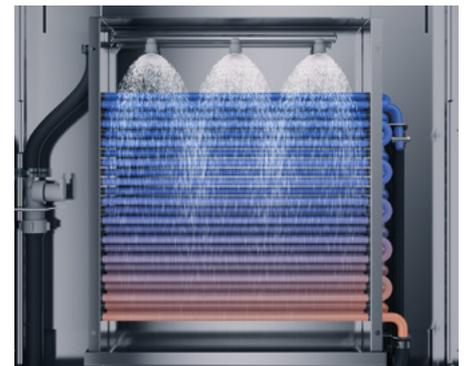
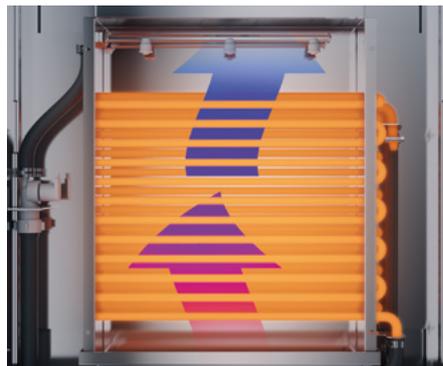
Our blue operating concept: any parts that are marked in blue can be removed, washed and replaced. The *M-iClean H* automatically checks that everything has been put back in the right place.



The two-part\* rack holder is easy to remove, enabling easy access for cleaning.  
\**M-iClean HXL*

The automatic rack detection system saves on unnecessary handling

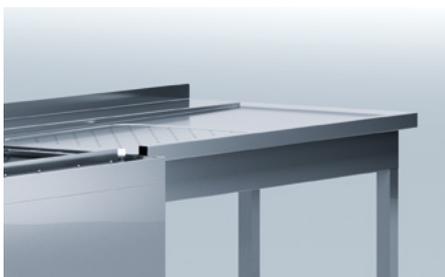
Stainless steel dosing pipes



Stainless steel ascending pipes

MEIKO *AirConcept* heat recovery

Self-cleaning feature for after operation



Drying table for active drying with drying module for turbo drying of the washware

Waste water heat recovery

Flexible, hygienic safety glass operating panel

# M-iClean HM / HL

## Technical data

	M-iClean HM hood type dishwashing machine	M-iClean HM hood type dishwashing machine with PW option	M-iClean HL hood type dishwashing machine
<b>Tank heating</b> kW	4.0		4.0
<b>Boiler heating* / total connected load*</b> kW			
Fuse protection 16 A	6.0 / 7.1	–	–
Fuse protection 20 A	8.0 / 9.1	8.0 / 10.0	8.0 / 10.0
Fuse protection 25 A	9.0 / 14.1	–	–
Fuse protection 32 A	11.0 / 16.1	11.0 / 17.0	11.0 / 17.0
<b>Pump output</b> kW	0.75	1.5	1.5
<b>Water consumption per rack</b> l	2.4		3.0
<b>Tank capacity</b> l	22		22
<b>Passing height</b> mm	505		560
<b>Rack dimensions</b> mm	500 x 500		500 x 500 to 650 x 500
<b>Programme runtime, dishware</b> s	60/90/210		60/90/210
<b>Programme runtime, glassware</b> s	90/120/120		90/120/120
<b>Theoretical</b>			
<b>rack capacities</b> up to racks per h	60/40/17		60/40/17
<b>plate capacities</b> up to plates per h	1,080/720/306		1,320/880/374
<b>glass capacities</b> up to glasses per h	2,160/1,440/1,440		2,160/1,440/1,440

\* Feed water temperature with *AirConcept* max. 20°C

If the machine is connected to a cold water supply and/or if rack exchange times are short, the duration of the wash cycles may be increased to achieve hygienic final rinse temperatures.

The water change programme increases programme runtimes.

Please note that the design of ventilation systems for wash-up areas must comply with VDI 2052 regulations.

### Electrical installation:

Electrical connection: three-phase current 3/N/PE, 400 V, 50 Hz.

### Water installation:

The machines can be connected directly to the fresh water connection without the use of intermediate safety valves. Minimum flow pressure 0.6 bar, maximum pressure 5 bar. The fresh water connection must be installed in accordance with the regulations applicable in your region (e.g. Germany DIN 1988/ EN 1717). Drain hose DN22.

Max. height of on-site drain outlet on wall: 700 mm.

Connecting cables reach approx. 1.8 m from machine.

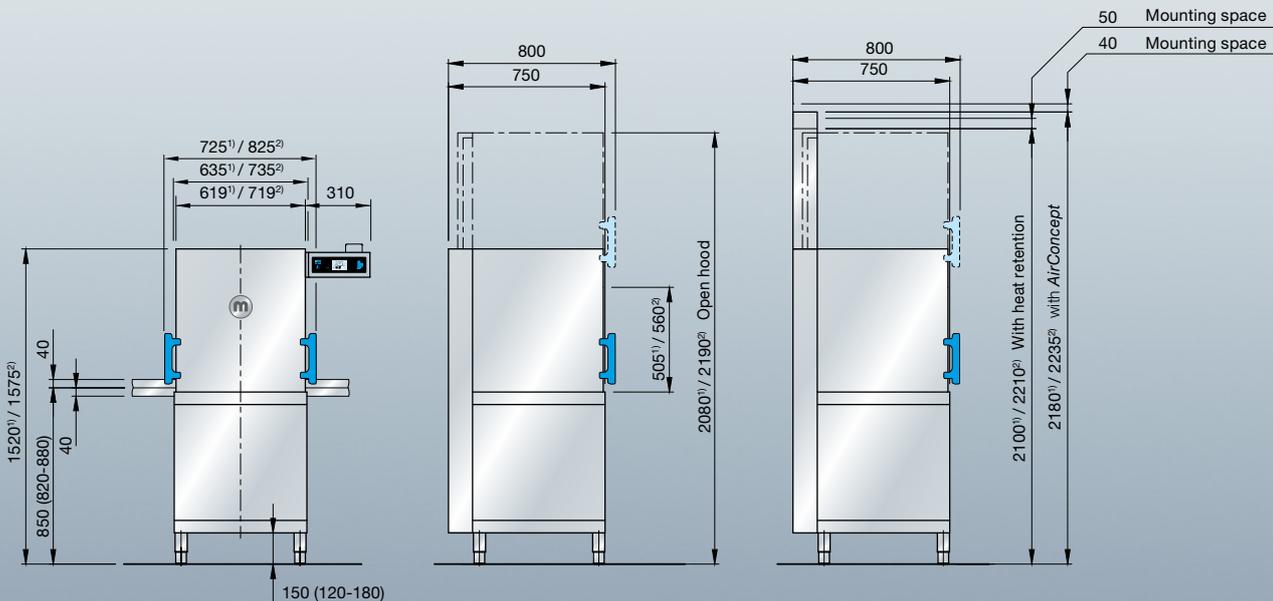
### GiO MODULE:

Cold water connection (max. 35 °C), minimum flow pressure 1 bar, maximum pressure 5 bar. Conductivity of raw water 70–1000 µS/cm. Total water hardness max. 28 °dH. Pre-filter 10 µm with activated carbon installed.

Drain hose DN 22.

Max. height of on-site wall drain: 700 mm.

(1 bar = 100 kPa) (1 °dH approx. 0.18 mmol/l CaCO<sub>2</sub>)



1) M-iClean HM  
2) M-iClean HL

	M-iClean HXL hood type dishwashing machine	M-iClean HXL hood type dishwashing machine with PW
<b>Tank heating</b> kW	8.0	
<b>Boiler heating* / total connected load*</b> kW	Fuse protection 20 A Fuse protection 25 A Fuse protection 32 A Fuse protection 35 A Fuse protection 50 A Fuse protection 50 A Fuse protection 63 A	– 9.0 / 12.6 – 17.0 / 20.6 18.0 / 29.6 – 22.0 / 33.6
<b>Pump output</b> kW	2x 0.75	2x 1.5
<b>Water consumption pro wash cycle</b> l	4.8	
<b>Tank capacity</b> l	54	
<b>Passing height</b> mm	505	
<b>Rack dimensions</b> mm	2x (500 x 500)	
<b>Programme runtime, dishware</b> s	60/90/210	
<b>Programme runtime, glassware</b> s	90/120/120	
<b>Theoretical</b>		
<b>rack capacities</b> up to racks per h	120/80/34	
<b>plate capacities</b> up to plates per h	2,160/1,440/612	
<b>glass capacities</b> up to glasses per h	4,320/2,880/2,880	

\*Max. feed water temperature with AirConcept: 20°C

If the machine is connected to a cold water supply and/or if rack exchange times are short, the duration of the wash cycles may be increased to achieve hygienic final rinse temperatures.

The water change programme increases programme runtimes.

Please note that the design of ventilation systems for wash-up areas must comply with VDI 2052 regulations.

### Electrical installation:

Electrical connection: three-phase current 3/N/PE, 400 V, 50 Hz.

### Water installation:

The machines can be connected directly to the fresh water connection without the use of intermediate safety valves. Minimum flow pressure 0.6 bar, maximum pressure 5 bar. The fresh water connection must be installed in accordance with the regulations applicable in your region (e.g. Germany DIN 1988/ EN 1717). Drain hose DN22.

Max. height of on-site drain outlet on wall: 700 mm.

Connecting cables reach approx. 1.8 m from machine.

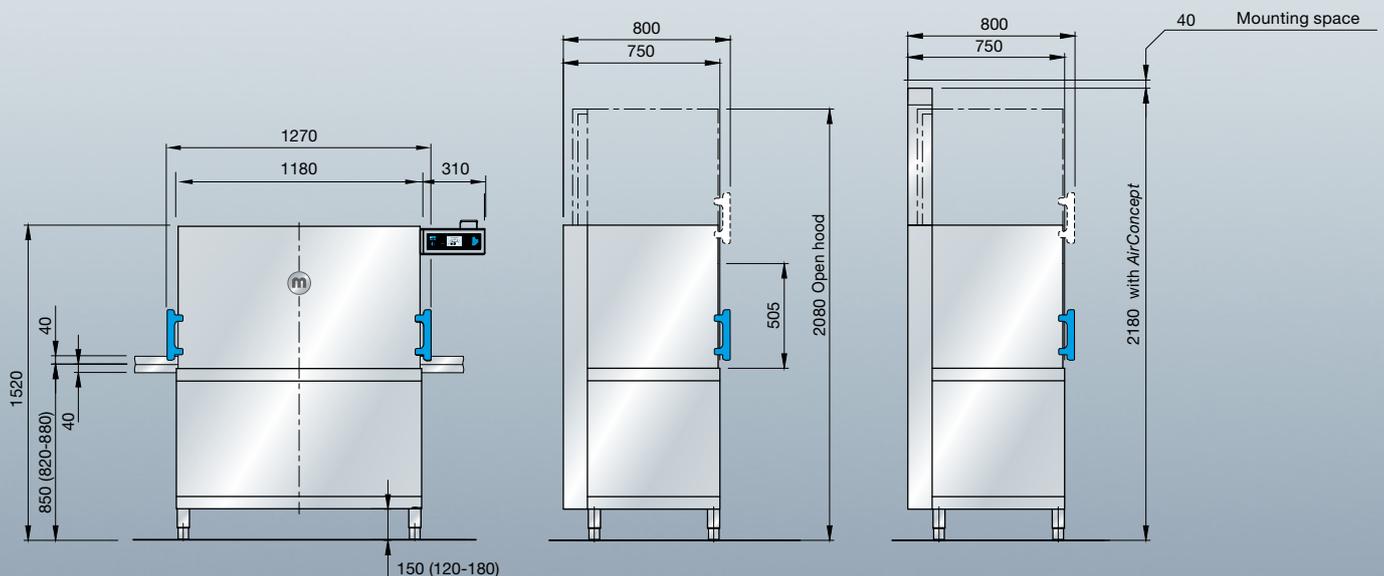
### GiO MODULE:

Cold water connection (max. 35 °C), minimum flow pressure 1 bar, maximum pressure 5 bar. Conductivity of raw water 70–1000 µS/cm. Total water hardness max. 28 °dH. Pre-filter 10 µm with activated carbon installed.

Drain hose DN 22.

Max. height of on-site wall drain: 700 mm.

(1 bar = 100 kPa) (1 °dH approx. 0.18 mmol/l CaCO<sub>3</sub>)





The clean solution



For sustainable hygiene and impressive washing results, MEIKO recommends cleaning and hygiene products made by **MEIKO ACTIVE**.

The machines fulfil the hygiene requirements specified in EN 17735.

