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# WASHING EQUIPMENT

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## WASHING MACHINE FOR CRATES

The pass-through washing machine is designed to clean plastic crates, buckets, boxes etc. It is made entirely of stainless steel, 1.4301 DIN (AISI 304) grade with permission for contact with food - according to the standard.

The washing process is performed by means of a centrifugal pump and adjustable nozzles. The proper cleaning agent is added manually in the feed tank before starting the machine. As an option automatic dosing of the cleaning agent can be provided. Washing is performed by water circulation in a closed filtered cycle. General water supply is used for rinsing.

The main tank is equipped with manually cleaned filter (drum filter – option) for catching the bigger soils. The water (cleaning agent) for washing is heated by means of electric heaters or a steam injector.

The desired water temperature for washing can be adjusted between 30-60°C via a thermostat.

For the rinsing is used general water supply. The water used during the rinsing process is afterwards led away into the main tank and thus the water inside is constantly refreshed.

The crates are transported through the various washing zones by a motor driven transport chain. The transport speed is smoothly adjustable. The gear motor is equipped with a sliding connector to prevent eventual injuries to the personnel from the transport chain.

The control panel can be mounted either on the left or on the right side of the machine in accordance with the customer requirements.

### **Options:**

- Automatic system for detergent filling and dosing (with concentration measurement);
- Flange Ø150 for plugging to aspiration;
- Ventilation-flange, fan, control;
- Chemical disinfection - including disinfectant in the rinse;
- Thermal disinfection (additional rinsing section) – hot water 82°C is provided from the customer;
- Safety switches;
- Drum filter in pre-washing.

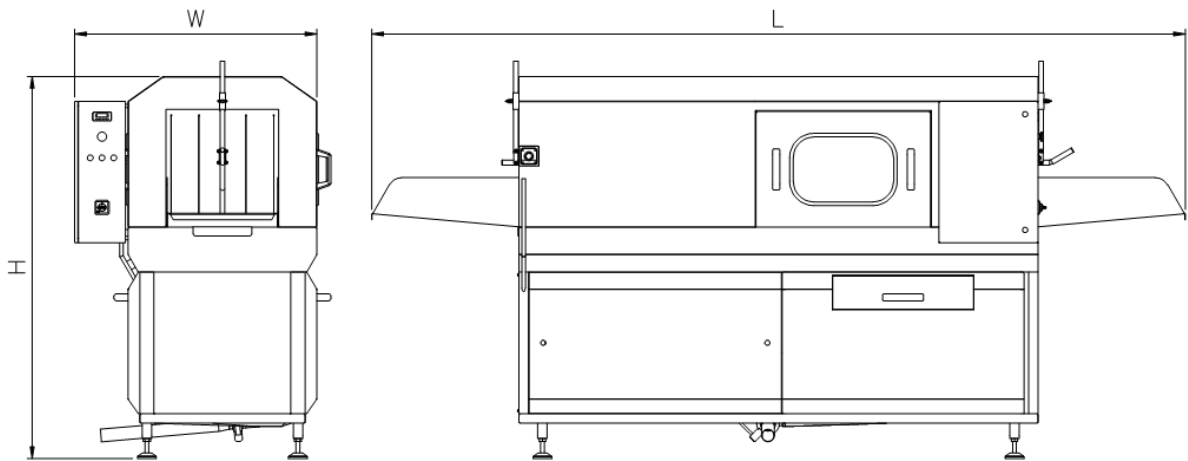
It is possible non-standard equipment depending on the customers` needs and requirements to be produced.

The machines comply with the Council Directives No. 2006/42/EC and 2006/95/EC and USDA regulations.

# WASHING EQUIPMENT

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**MACHINES FOR WASHING, CAPACITY MAX. 320 CRATES**



## WASHING EQUIPMENT

### WASHING MACHINES FOR CRATES

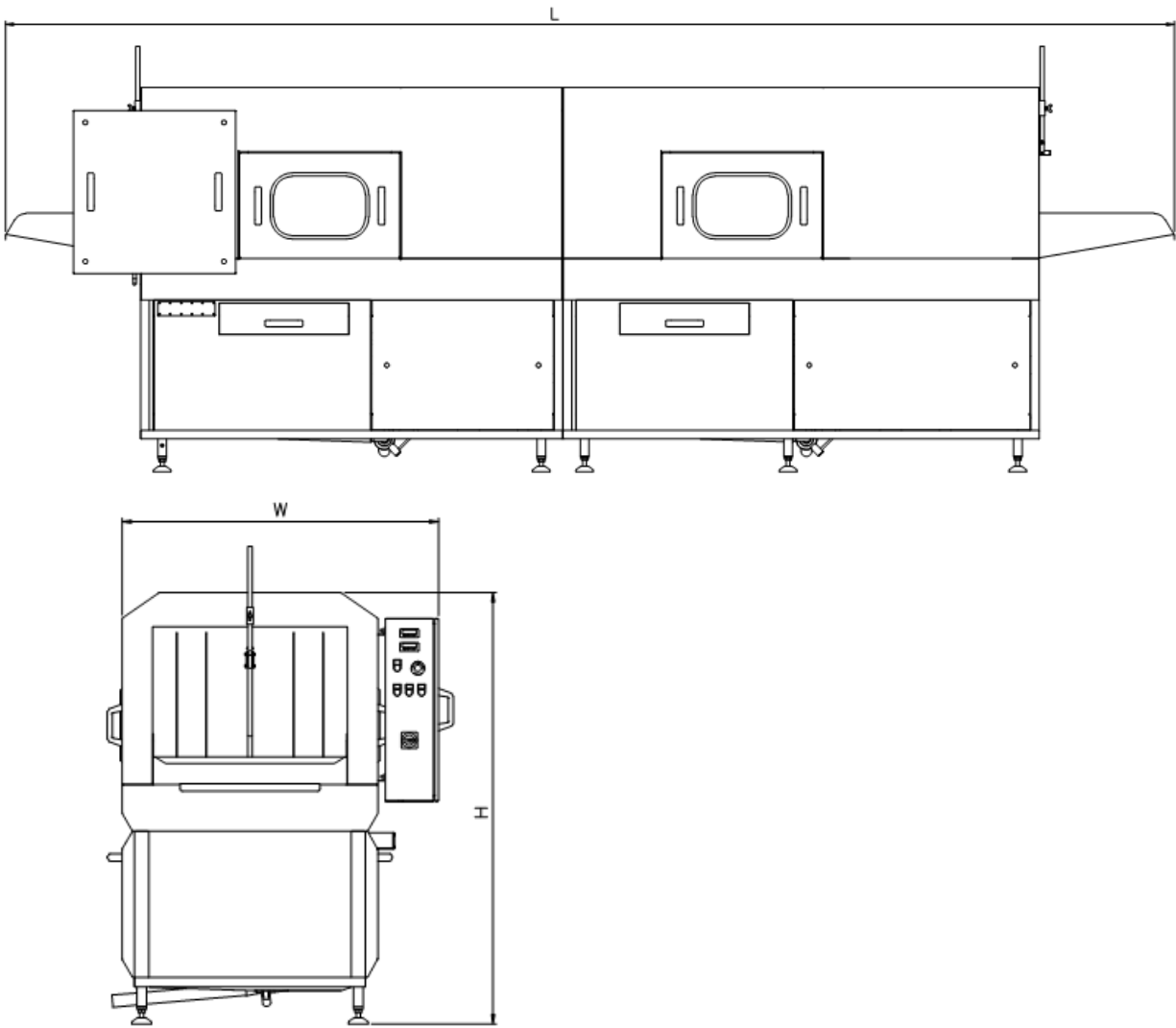
Art. No.	20.0001.03	20.1001.03	20.0001.00	20.1001.00	20.0002.00	20.1002.00	20.0003.00	20.1003.00
Dimensions (L,W,H-mm)	2990/1050/1620		2990/1050/1620		3445/1050/1620		3445/1300/1670	
Designation	crates max 600/400/400 mm		crates max 600/400/400 mm		crates max 600/400/400 mm		crates max 600/400/400 mm	
Capacity- pcs/h*	80-100		100-140		180-240		260-320	
Filter - band/drum	no/no		no/no		no/no		no/no	
Dosing/ventilation	no/no		no/no		no/no		no/no	
Pre-washing/air-drying	no/no		no/no		no/no		no/no	
Heating- electricity/steam	14 kW	3-10 bar,135°C	14 kW	3-10 bar,135°C	22 kW	3-10 bar,135°C	22 kW	3-10 bar,135°C
Washing nozzles adjustable	18/no		18/no		38/no		38/no	
Tank Volume	150		200		300		400	
Pump	1.5 kW/10 m <sup>3</sup> /h/ 2-2.5 bar		2.2 kW/14 m <sup>3</sup> /h/ 3 bar		4.0 kW/33 m <sup>3</sup> /h/ 3 bar		4.0 kW/33 m <sup>3</sup> /h/ 3 bar	
Drive - kW	no		0.18		0.25		0.25	
Installed power - kW	16	2	17	3	27	5	27	5
Power supply - electricity/water/steam/ compressed air/drain	3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50		3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50		3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50		3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50	
Miscellaneous	Manual crates moving						Cross crates moving	

\* Machine capacity depending on how dirty the crates are.

# WASHING EQUIPMENT

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**MACHINES FOR WASHING, CAPACITY MAX. 600 CRATES**



## WASHING EQUIPMENT

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Art. No.	20.0004.00	20.1004.00	20.0006.00	20.1006.00
Dimensions (L,W,H-mm)	5395/1050/1620		5395/1300/1670	
Designation	crates max 600/400/400 mm		crates max 600/400/400 mm	
Capacity- pcs/h*	380-450		520-600	
Filter - band/drum	no/no		no/no	
Dosing/ventilation	no/no		no/no	
Pre-washing/air-drying	yes/no		yes/no	
Heating pre-washing- electricity/steam	22 kW	3-10 bar/135°C	22 kW	3-10 bar/135°C
Heating main washing- electricity/steam	22 kW	3-10 bar/135°C	22 kW	3-10 bar/135°C
Installed power - kW	53	9	53	9
Washing nozzles pre-wash adjustable	38/no		38/no	
Tank Volume pre-wash	300		400	
Pump pre-wash	4 kW/33 m <sup>3</sup> /h/ 3 bar		4 kW/33 m <sup>3</sup> /h/ 3 bar	
Washing nozzles main wash adjustable	38/no		38/no	
Tank Volume main wash	300		400	
Pump main wash	4 kW/33 m <sup>3</sup> /h/ 3 bar		4 kW/33 m <sup>3</sup> /h/ 3 bar	
Drive - kW	0.37		0.37	
Power supply - electricity/water/steam/ compressed air/drain	3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50		3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50	
Miscellaneous			Cross crates moving	

\* Machine capacity depending on how dirty the crates are.

# WASHING EQUIPMENT

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## NONSTANDART



20.0002.26 - incoming and outgoing chute – 1200 mm, on wheels



20.1032.25 – crates for fruits , 25 pieces tied



3.1013.00 – boxes and forms



20.1003.00 – nonstandard crates

## WASHING EQUIPMENT

Art. No.	20.0002.26	20.0001.11	20.7011.00	20.0003.00
Dimensions (L,W,H-mm)	4600/1100/1770	2990/1150/1620	3085/1110/1720	3157/1307/1770
Designation	crates max 600/400/400 mm	crates 480x480x280 mm	boxes – 240 mm height, Ø280; 195 mm,Ø230	crates max 600/400/400 mm
Capacity- pcs/h*	180-240	100-140	100-140	260-320
Filter - band/drum	no/no	no/no	no/no	no/no
Dosing/ventilation	no/no	no/no	no/no	no/no
Pre-washing/air-drying	no/no	no/no	no/no	no/no
Heating- electricity/steam	22 kW/no	22 kW/no	8.5 kW/no	22 kW/no
Washing nozzles adjustable	38/no	16/no	38/no	38/no
Tank Volume	300	200	200	400
Pump	4.0 kW/33 m <sup>3</sup> /h/ 3 bar	2.2 kW/14 m <sup>3</sup> /h/ 3 bar	2.2 kW/14 m <sup>3</sup> /h/ 3 bar	4.0 kW/33 m <sup>3</sup> /h/ 3 bar
Drive - kW	0.25	0.18	0.18	0.25
Installed power - kW	27	25	23	27
Power supply - electricity/water/steam/ compressed air/drain	3x400 V,50Hz/water min. 3 bar/ drain DN50	3x400 V,50Hz/water min. 3 bar/ drain DN50	3x400 V,50Hz/water min. 3 bar/ drain DN50	3x400 V,50Hz/water min. 3 bar/ drain DN50
Miscellaneous	chute – 1200 mm, on wheels, without pressure sensor, separate water outlets	nonstandard crates, with two moving chains	for boxes	Without incoming chute , outcoming chute – 900x800 mm, plastic runners

## WASHING EQUIPMENT

<b>Art. No.</b>	<b>20.1032.25</b>	<b>20.1003.00</b>	<b>23.1013.00</b>
Dimensions (L,W,H-mm)	3950/1080/2100	3448/1367/1768	3445/2200/1620
Designation	crates for fruits , 25 pieces tied	crates – 510/420/150, 530/350/310 mm	boxes max. 300/300/380, forms max. 250/250/150mm
Capacity- pcs/h*	180-240	260-320	260-320
Filter - band/drum	no/no	no/no	no/no
Dosing/ventilation	yes/yes	no/no	no/no
Pre-washing/air-drying	no/no	no/no	no/no
Heating- electricity/steam	18 kW/no	no/3-10 bar/135°C	no/3-10 bar/135°C
Washing nozzles adjustable	38/no	38/no	38/no
Tank Volume	300	400	400
Pump	4.0 kW/33 m <sup>3</sup> /h/ 3 bar	4.0 kW/33 m <sup>3</sup> /h/ 3 bar	4.0 kW/33 m <sup>3</sup> /h/ 3 bar
Drive - kW	0,37	0.25	0.25
Installed power - kW	~23	4.5	4.5
Power supply - electricity/water/steam/ compressed air/drain	3x400 V,50Hz/water min. 3 bar/ drain DN50	3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50	3x400 V,50Hz/water min. 3 bar/3-10 bar,135°C / drain DN50
Miscellaneous	crates for fruits , 25 pieces tied	nonstandard crates	Empty cheese boxes, cheese forms, pads, leads