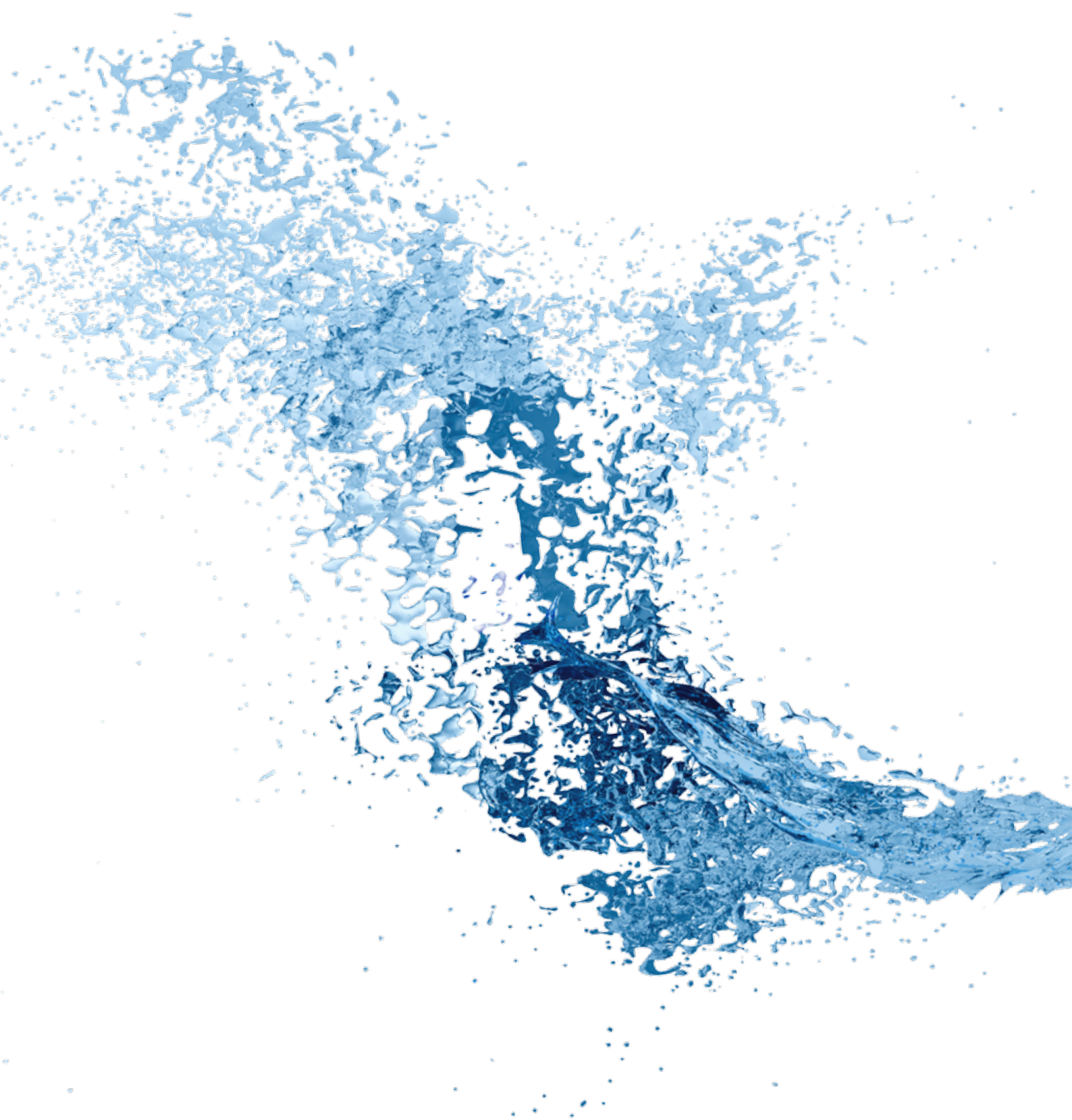
 **WD-151E/421E**

RACK CONVEYOR DISHWASHER



Wexiödisk 



All installations must result in a good reference!

www.wexiodisk.com



One of the most efficient rack conveyor dishwashers on the market

USER-FRIENDLY

During the development of the machines, the emphasis is on ergonomics and ensuring a good working environment. Large, easily opened doors make the inside of the machine easy to access and the washing arms are straightforward to clean. The efficient filters in the washing zones are simple to remove for cleaning. Effective sound and heat isolation helps to provide a good working environment in the dishwashing room. The dishwasher's automatic start/stop function is controlled by the baskets fed into the machine.

FLEXIBLE WASH TIME

By selecting manual operation on the control panel the wash time for a specific basket can be prolonged as long as required. The basket remains in the chemical washing zone until the next basket enters the zone.

REDUCED USE OF RINSING WATER

The majority of rack conveyor dishwashers have at least two programmes or speeds, one slow and one fast. When operating at the slow speed, the dishwasher can use up to double the amount of energy, water and chemicals. Wexiödisk's rack conveyor dishwashers have a flexible feed rate and use only 1.8 litres of rinsing water per basket, regardless of whether or not the machine is operating at full capacity.

HIGH LEVELS OF HYGIENE WITH THE HACCP FUNCTION

Using the HACCP (Hazard Analysis Critical Control Point) system it is possible to designate a number of critical control points for monitoring from a hygiene perspective. The critical control points form part of the machine's control and alarm system for temperature and water flow, which can be displayed on the control panel.

COMPREHENSIVE RANGE OF ACCESSORIES

A selection of accessories is available for our rack conveyor dishwashers to meet every customer's needs.

These include:

Pre-wash zone

WD-PRM60/90 pre-wash machine

Different drying zone options

A web tool with HACCP documentation

Roller tables for the loading and unloading sides of the dishwasher



User-friendly

- Ergonomically designed to provide a good working environment

Low operating costs and a reduced environmental impact

- Low water and energy consumption. Only 1.8 litres of rinsing water per basket, regardless of whether or not the machine is operating at full capacity

Excellent wash results

- Long washing zones with powerful pumps

Monitoring system that provides information about the machine's various functions

- Control panel which displays all the necessary information in text form and stores information about consumption of energy and water

Long service life and easy servicing

- Made entirely of stainless steel, easy access for servicing





The water is sprayed from above and below, effectively covering the whole basket. The large washing compartment is easy to clean.

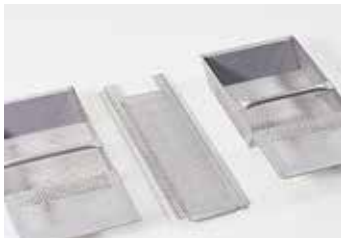


All the tanks can be emptied by pressing a lever. The bottom seals and level pipes are closed automatically when the machine is about to fill.

Outstanding performance with high quality components



Self-emptying pumps in the washing and rinsing zones improve hygiene levels.



The dishwashers have large, efficient filters and filter baskets that are easy to access and can be emptied very easily.



The doors can be removed with one simple movement, which makes cleaning easier.



Identical washing arms. All the washing arms in the machine are the same and, therefore, they cannot be mixed up. The clip on the side makes it easy to remove each arm for cleaning.



The dishwasher's high ground clearance makes it easy to keep the floor clean. The drain pipe is located in the dishwasher's frame, which also helps with floor cleaning.



The most efficient heat recovery system on the market which is also easy to clean. Regular cleaning will ensure high levels of heat recovery now and in the future.



Detergent dispensing system. The dishwasher has the necessary fittings for a detergent and drying agent dispenser.



All the water connections are on top of the dishwasher, which means that it has a smooth back panel. Since all the servicing work can be done from the front, the machine can be positioned right up against a wall, which frees up vital space in the dishwashing room.



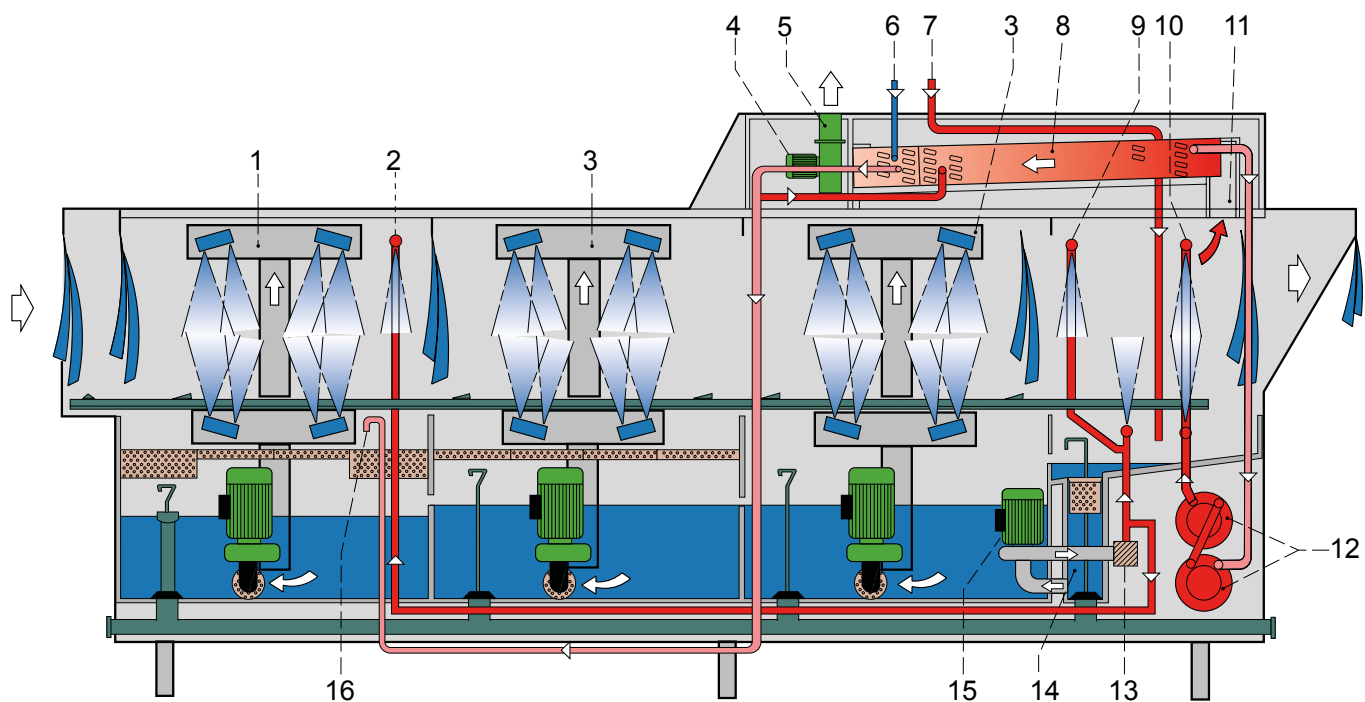
A double final rinse is standard on all machines, which keeps water consumption to a minimum.



The electrical system is easy to service. The electric cabinet is located at a comfortable working height and all the components are clearly labelled. The system is carefully designed with a logical layout.

"The flexible feed rate allows the operator to choose the contact time for each basket, depending on how soiled the dishes are. The direction of the jets of water constantly changes to produce perfect cleaning results"





1. Wash ramp, pre-wash zone
2. Intermediate rinse ramp
3. Wash ramp, chemical wash zone
4. Condensing fan
5. Exhaust from condensing fan

6. Cold water
7. Hot water
8. Condensing battery
9. Rinse ramp for recirculating final rinse

10. Final rinse ramp
11. Air intake to condensing battery
12. Booster heater
13. Filter for recirculating final rinse
14. Tank for recirculating final rinse

15. Pump for recirculating final rinse and intermediate rinse
16. Cold water for cooling pre-wash zone

Get ahead with innovative functionality

PRE-WASH WITHOUT INTERMEDIATE RINSE 1

In the pre-wash, the dishes are sprayed with a weak solution of detergent and water at a temperature of 40°C. Surplus water from the final rinse and chemical wash is reused in this zone.

PRE-WASH WITH INTERMEDIATE RINSE 2

Pre-wash zone with intermediate rinse that rinses off the soiled washing water from the dishes before the baskets leave the zone. As a result, the water used in the chemical wash does not become as soiled. Therefore, the dishwasher can be operated for a longer period without changing the water in the chemical wash tank. This reduces the amount of water and detergent used.

CHEMICAL WASH 3

During the chemical wash, the dishes are washed with water at a temperature of 60°C. The water must be above 50°C to dissolve grease effectively and detergent works best at around 60°C.

DOUBLE FINAL RINSE 4

The double final rinse gives the best possible rinse results and also reduces the amount of water used in the final rinse. Dishes are first rinsed with recycled water and then with fresh water at a temperature of 85°C. Around 25% of the surplus water from the zone is reused in the chemical wash tank. The remaining 75% goes to the pre-wash (WD-211E) and to the intermediate rinse (WD-241E-421E).

INSULATION REDUCES NOISE LEVELS

Wexiödisk's rack conveyor dishwashers are made entirely of stainless steel. They come with heat and noise insulation as standard. The dishwashers are designed with double steel panels and to reduce noise levels even further, all the panels are fitted with noise insulating material.

HEAT RECOVERY SYSTEM

The hot, water-saturated air (11) produced by the machine is sucked through the condensing battery (8) where its energy is transferred to the incoming cold water (6). The cooled air is then blown out into the room (5).

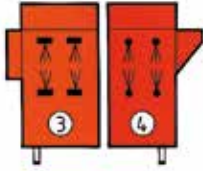
The incoming cold water is heated to around 50°C in the condensing battery. The water then flows through the two booster heaters (12) which raise its temperature to around 85°C. After this, it is used in the final rinse (10). The hot water from the final rinse (10) is collected in a tank (14). The pump (15) pumps some of the water to the recirculating final rinse (9) and some to the intermediate rinse (2).

RESULTS

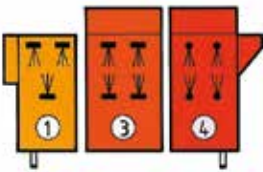
Approximately up to 19kW of energy is recovered. The dishwasher does not need a ventilation connection.



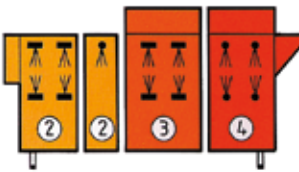
DISHWASHER MODELS



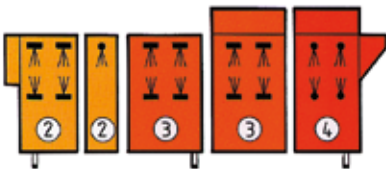
WD-151E



WD-211E



WD-241E



WD-331E



Zone	Zone length in mm
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WD-151E

Loading hood	170
3 Chemical wash	900
4 Double final rinse	585
Total length	1655 *

WD-211E

Loading hood	170
1 Pre-wash without intermediate rinse	600
3 Chemical wash	900
4 Double final rinse	585
Total length	2255 *

WD-241E

Loading hood	170
2 Pre-wash with intermediate rinse	900
3 Chemical wash	900
4 Double final rinse	585
Total length	2555 *

WD-331E

Loading hood	170
2 Pre-wash with intermediate rinse	900
3 Chemical wash	1800
4 Double final rinse	585
Total length	3455 *

WD-421E

Loading hood	170
2 Pre-wash with intermediate rinse	900
3 Chemical wash	2700
4 Double final rinse	585
Total length	4355 *

* Installation dimensions at bench height. The steam hood over the unloading area adds a further 280 mm. (see the dimension drawing)

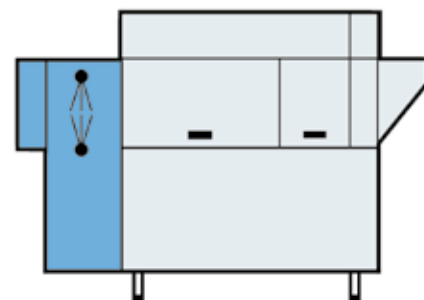


PRE-RINSE AND DRYING ZONES

PRE-RINSE ZONE

If a pre-rinse zone is connected to the dishwasher, no more manual washing of dishes is needed. The pre-rinse zone saves both water and effort. In the pre-rinse zone designed for use with the WD-151E, the dirty items are first sprayed with cold water from above and below and then with recirculated final rinse water from below. A pre-rinse zone that reuses the pre-wash water is available for the WD-211E-421E dishwashers. The filter drawer is pulled out from the front and can be emptied without stopping the dishwasher.

PRE-RINSE ZONE WD-151E-421E	ZONE LENGTH MM
Loading direction R-L	400
Loading direction L-R	400



Pre-wash zone

DRYING ZONES

Our dishwashers can be equipped with T60, T80, T60F or T90 drying zones. A powerful fan blows warm air over the washed items. The drying zones are primarily for use with items such as plastic trays which do not accumulate large amounts of heat. The distribution regulator on the fan targets the warm air effectively to keep energy costs low. Part of the energy is used by a condensing battery which heats up the incoming cold water. The T60, T80 and T60F have a heat output of 3 kW, while the figure for the T90 is 2x3 kW. The T80 is intended for use with dishwashers which have a motor-powered turn track.



Drying zone WD-T60



Drying zone hood WD-T80 for turn track



Drying zone WD-T90



Drying zone hood WD-T60F, free-standing

PART	POWER (KW)	MAIN FUSE 400V 3N~(A)	INSTALLED LENGTH (MM)
Drying zone WD-T60 + WD-151E	35,9	63	600 + 1655
Drying zone WD-T60 + WD-211E	43,4	80	600 + 2255
Drying zone WD-T60 + WD-241E	43,4	80	600 + 2555
Drying zone WD-T60 + WD-311E	50,9	80	600 + 3455
Drying zone WD-T60 + WD-421E	61,4	100	600 + 4355
Drying zone WD-T90 + WD-151E	39,2	63	900 + 1655
Drying zone WD-T90 + WD-211E	46,7	80	900 + 2255
Drying zone WD-T90 + WD-241E	46,7	80	900 + 2555
Drying zone WD-T90 + WD-311E	54,2	80	900 + 3455
Drying zone WD-T90 + WD-421E	64,7	100	900 + 4355
Drying zone hood WD-T80 for turn track + WD-151E	35,9	63	820 + 1655
Drying zone hood WD-T80 for turn track + WD-211E	43,4	80	820 + 2255
Drying zone hood WD-T80 for turn track + WD-241E	43,4	80	820 + 2555
Drying zone hood WD-T80 for turn track + WD-311E	50,9	80	820 + 3455
Drying zone hood WD-T80 for turn track + WD-421E	61,4	100	820 + 4355
Drying zone hood WD-T60F free-standing + WD-151E	35,9	63	600
Drying zone hood WD-T60F free-standing + WD-211E	43,4	80	600
Drying zone hood WD-T60F free-standing + WD-241E	43,4	80	600
Drying zone hood WD-T60F free-standing + WD-311E	50,9	80	600
Drying zone hood WD-T60F free-standing + WD-421E	61,4	100	600



ACCESSORIES

PRE-RINSE MODELS FOR DIFFERENT DISHWASHING ROOM LAYOUTS

A PRM-unit rinses and soaks soiled items and reduces the water consumption. It replaces the repetitive manual pre-rinsing movement that can lead to occupational injuries.

There are two versions of pre-rinse machines:

- PRM 60 for straight installation designed for bar feeding or chain conveyor. The bar fed PRM-60 can be used for manual feeding and together with Wexiödisk's corner loading unit.

- PRM 90 for corner installation with chain conveyor.

The PRM-models are easy to clean with removable doors and wash arms.

All service work is carried out from the front of the machine.



WD-C 90/180

90° or 180° motor-powered turn track

Motor-powered turn track made entirely from stainless steel. Frame made from 30x30 mm square stainless steel tubing with adjustable feet. Suitable for all 50x50 cm washing baskets. The baskets are loaded using a plastic drive chain. Equipped with an emergency stop. The turn track is connected to the machine's unloading side, either directly to the machine or to a straight section placed between the machine and the track. The turn track can also be placed on the loading side.



CORNER LOADING UNIT

The corner loading unit is ideal for loading dishwashers in smaller spaces. It is connected to the machine's feeder and does not require an extra motor. Corner loading units are available for both right and left-loading machines. The frame is made from stainless steel and fitted with adjustable feet. Standard length 630 mm. Special lengths 630 - 2785 mm.



WD-BF 90/180

90° or 180° bar-fed turn track

The turn track is made from stainless steel and fitted with plastic stopper hooks. It is driven by the machine's feeder via a feeder bar. No additional motor is needed. The frame is made from square tubing and fitted with adjustable plastic feet. The turn track is connected to the machine's unloading side, either directly to the machine or to a straight section placed between the machine and the track. Turn track length: 780 mm. Straight section length: 260 - 2750 mm.

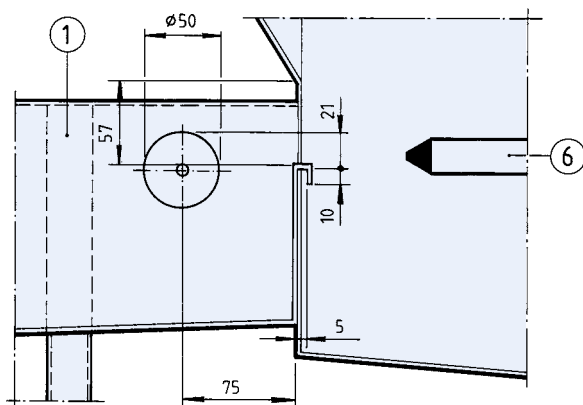
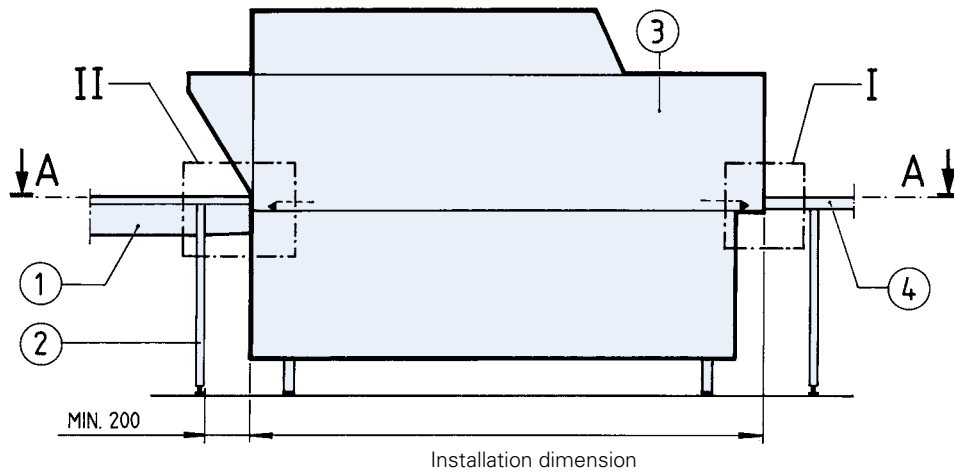
ROLLER TABLE

The roller table is designed to be connected directly to a dishwasher or a turn track. The table is made entirely of stainless steel and has a frame made of sturdy square tubing. It has a sloping base and a drain connection which can be connected to the floor drain or the turn track. The baskets are moved on durable plastic rollers with robust bearings. The table is available in a fixed version or a pivoting version with locking castors. It can also be fitted with different types of shelves and, if necessary, a limit switch. For more information on lengths and designs, see the price list.

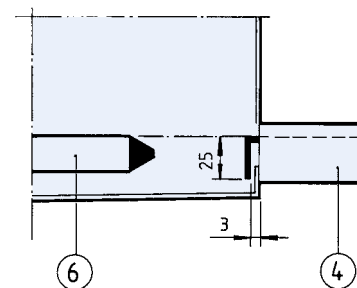




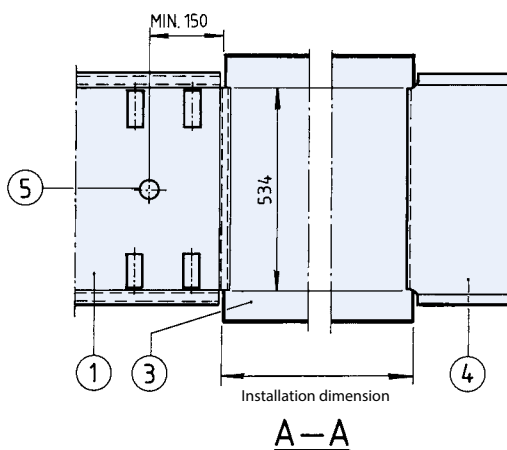
CONNECTION TO ROLLER TABLE OR BENCH



Connection to roller table (II)



Connection to bench (I)



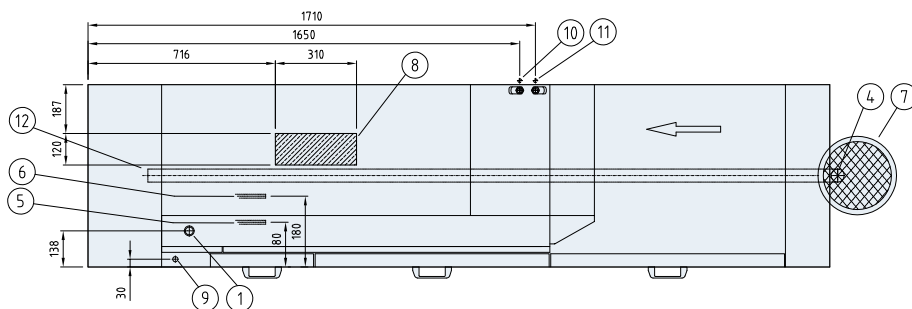
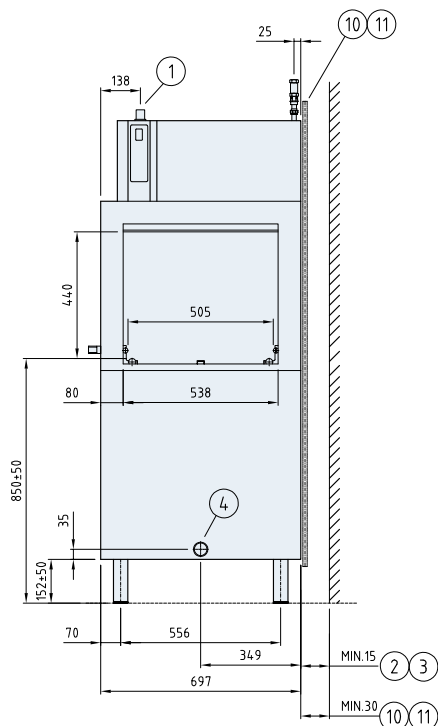
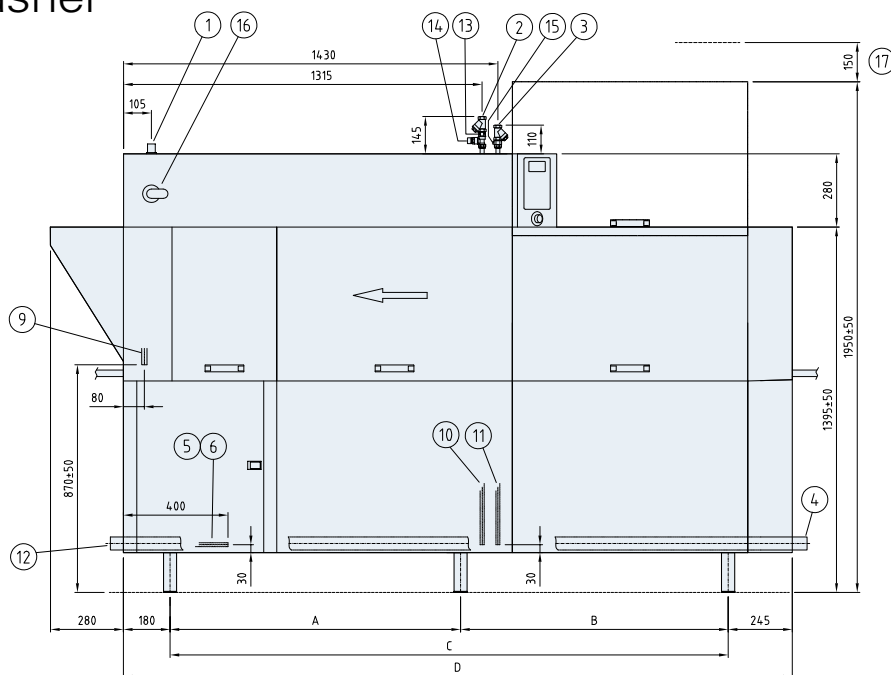
1. Roller table
2. Leg
3. Dishwasher
4. Bench
5. Drain
6. Loading cradle



DIMENSION DRAWINGS

Rack conveyor dishwasher

1. Electrical connection
2. Cold water connection/filter
3. Hot water connection/filter
4. Drain connection
5. Steam connection
6. Condensation connection
7. Floor drain
8. Exhaust steam, condensing unit
9. Alternative electrical connection
10. Alternative cold water connection
11. Alternative hot water connection
12. Alternative drain connection
13. Non-return valve
14. Vacuum valve
15. Water outlet for detergent dispenser
16. Main switch
17. Servicing area



Dimension table

	WD-151E	WD-211E	WD-241E	WD-331E	WD-421E
A	--	--	--	1360	2260
B	--	--	--	1670	1670
C	1230	1830	2130	3030	3930
D*	1655	2255	2555	3455	4355

* Installation dimensions at bench height



TECHNICAL DATA FOR WD-151E/421E

CAPACITY AND OPERATING DATA	WD-151E	WD-211E	WD-241E	WD-331E	WD-421E
Capacity normal wash (baskets/h)	70-150*	100-200*	110-210*	150-230*	150-230*
Capacity according to DIN 10510 (baskets/h)	80	120	140	190	245
Cold water consumption, final rinse normal (litres/basket)	1.8	1.8	1.8	1.8	1.8
Energy consumption (% of connected power)	70-90%	70-90%	70-90%	70-90%	70-90%
Steam consumption** (kg/h)	50	60	60	70	75
Environmental temperature at 20°C room temperature (°C)	35	35	35	35	35
Sound level*** (dB(A))	68	68	68	68	68

* Maximum capacity 240 baskets/h.

** For steam-heated dishwasher

*** Measured 1 metre from the side of the machine

TECHNICAL DATA	WD-151E	WD-211E	WD-241E	WD-331E	WD-421E
Pump, pre-wash (kW)	-	1.5	1.5	1.5	1.5
Pump, chemical wash 1 (kW)	1.5	1.5	1.5	1.5	1.5
Pump, chemical wash 2 (kW)	-	-	-	1.5	1.5
Pump, chemical wash 3 (kW)	-	-	-	-	1.5
Pump, recirculating final rinse (kW)	0.11	0.11	0.11	0.11	0.11
Fan, heat recovery (kW)	0.12	0.12	0.12	0.12	0.12
Motor, feeder (kW)	0.12	0.12	0.12	0.12	0.12
Booster heater 1 (kW)	9	12	12	12	12
Booster heater 2 (kW)	9	12	12	12	12
Heater, chemical wash 1 (kW)	12	12	12	9	9
Heater, chemical wash 2 (kW)	-	-	-	9	9
Heater, chemical wash 3 (kW)	-	-	-	-	9
Heat recovery unit, cooling area (m ²)	25	25	25	25	25
Fan heat recovery, capacity (m ³ /h)	100	100	100	100	100
Tank volume, pre-wash tank (litres)	-	51	77	77	77
Tank volume, wash tank 1 (litres)	100	100	100	100	100
Tank volume, wash tank 2 (litres)	-	-	-	100	100
Tank volume, wash tank 3 (litres)	-	-	-	-	100
Tank volume, final rinse tank (litres)	6	6	6	6	6
Weight, dishwasher in operation (kg)	490	625	655	900	1020
Degree of protection (IP)	55	55	55	55	55

CONNECTION, ELECTRICALLY HEATED DISHWASHER	WD-151E	WD-211E	WD-241E	WD-331E	WD-421E
Total connected power (kW)	32.6	40.1	40.1	47.6	58.1
Main fuse 400V 3N~(A)*	50	63	63	80	100
Max. connection area 400V 3N~(L1-L3, N, PE) Cu (mm ²)	35	35	35	35	35

* Other voltages on request

CONNECTION, STEAM-HEATED DISHWASHER 150-250 kPa*	WD-151E	WD-211E	WD-241E	WD-331E	WD-421E
Total connected power (kW)	1.85	3.4	3.4	4.85	6.0
Main fuse 400V 3N~(A)	16	20	20	20	20
Max. connection area 400V 3N~(L1-L3, N, PE) Cu (mm ²)	25	25	25	25	25
Steam connection (internal thread)	R ¾"	R ¾"	R ¾"	R 1"	R 1"
Condensation connection (internal thread)	R ½"	R ½"	R ½"	R ½"	R ½"

* Other pressures on request.



TECHNICAL DATA FOR WD-151E/421E

CONNECTION, WATER, DRAIN AND VENTILATION	WD-151E	WD-211E	WD-241E	WD-331E	WD-421E
Water quality, hardness (°dH)	2-7	2-7	2-7	2-7	2-7
Hot water connection 50-70°C (internal thread)	R ½"	R ½"	R ½"	R ½"	R ½"
Cold water connection 5-12°C (internal thread)	R ½"	R ½"	R ½"	R ½"	R ½"
Drain connection, PP pipe (ø mm)	50	50	50	50	50
Water capacity, pressure (kPa)	250-600	250-600	250-600	250-600	250-600
Water capacity, flow (litres/min)	11	11	11	11	11
Floor drain, capacity (litres/sec)	3	3	3	3	3
Ventilation, dishwasher (m³/h)	1000	1200	1200	1400	1600

SIZE AND WEIGHT FOR TRANSPORT, STANDARD DISHWASHER*	WD-151E	WD-211E	WD-241E	WD-331E	WD-421E
Size** (LxWxH (m))	2.1x0.8x2.0	2.7x0.8x2.0	3.0x0.8x2.0	3.9x0.8x2.0	4.8x0.8x2.0
Weight** (kg)	400	510	550	680	790

* Normal delivery in 1 piece, If necessary the machine can be further dismantled

** Packaging included

ACCESSORIES	LENGTH MM	WIDTH MM	HEIGHT MM	CONNECTION
WD-C 90, motor-powered turn track 90° R-L	780	780	870 +/- 25 mm	230/400V, 3N~ 50Hz, 0.12kW
WD-C 90, motor-powered turn track 90° L-R	780	780	870 +/- 25 mm	230/400V, 3N~ 50Hz, 0.12kW
WD-C 180, motor-powered turn track 180° R-L	780	1320	870 +/- 25 mm	230/400V, 3N~ 50Hz, 0.12kW
WD-C 180, motor-powered turn track 180° L-R	780	1320	870 +/- 25 mm	230/400V, 3N~ 50Hz, 0.12kW



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