Flight type dishwasher

WD-B

WD-B GREEN

rhima
the power of clean

Our history – cleaning up!

Wexiödisk started up in 1972

Wexiödisk is a Swedish company founded in 1972, which ever since it opened for business has focused on offering the institutional catering sector the very best in dishwashers. The extraordinarily high quality and new innovations soon meant successful sales results, even outside Sweden.

Quality

The ambition for all our customers to be satisfied has been our ethos right from the very beginning. So we have focused on being able to provide reliable machines with low operating costs and a good working environment rather than a low purchase price, i.e. an early focus on Life Cycle Cost. Excellent cleaning results have always been seen as a matter of course.

Partners

We have selected our partners for the distribution, sales and service of our products with great care. We are in close contact with them, provide product support and training and ensure that we meet the customer's expectations together. Today Wexiödisk is the market leader in Scandinavia with a distribution network covering not only Europe but also, for example, Japan and Australia. In recent years Wexiödisk has also won several prestigious contracts within flight catering, which is a customer group with extremely high requirements.

Products

We will continue to invest significantly in product development in order to maintain and develop customer value via a technologically advanced and competitive range of products. To assist us we have well-trained staff and hi-tech facilities. A complete production line, from plate-working to trial runs and equipped with automatic workshop machinery and robots, ensures top quality and availability.

Thinking about the environment

Dishwashers consume large amounts of energy, water and chemicals. So in recent years, Wexiödisk has concentrated more on the environment, which has led to the development of several new and unique products. ICS+ and DUPLUS are the names of two patented principles that exceptionally reduced environmental impact and considerably lower operating costs.

Everyday life

Wexiödisk is based in Växjö in the south of Sweden. We have a working space of approx. 11,000 m² at our disposal and we have about 175 people working for us.

Our ambition

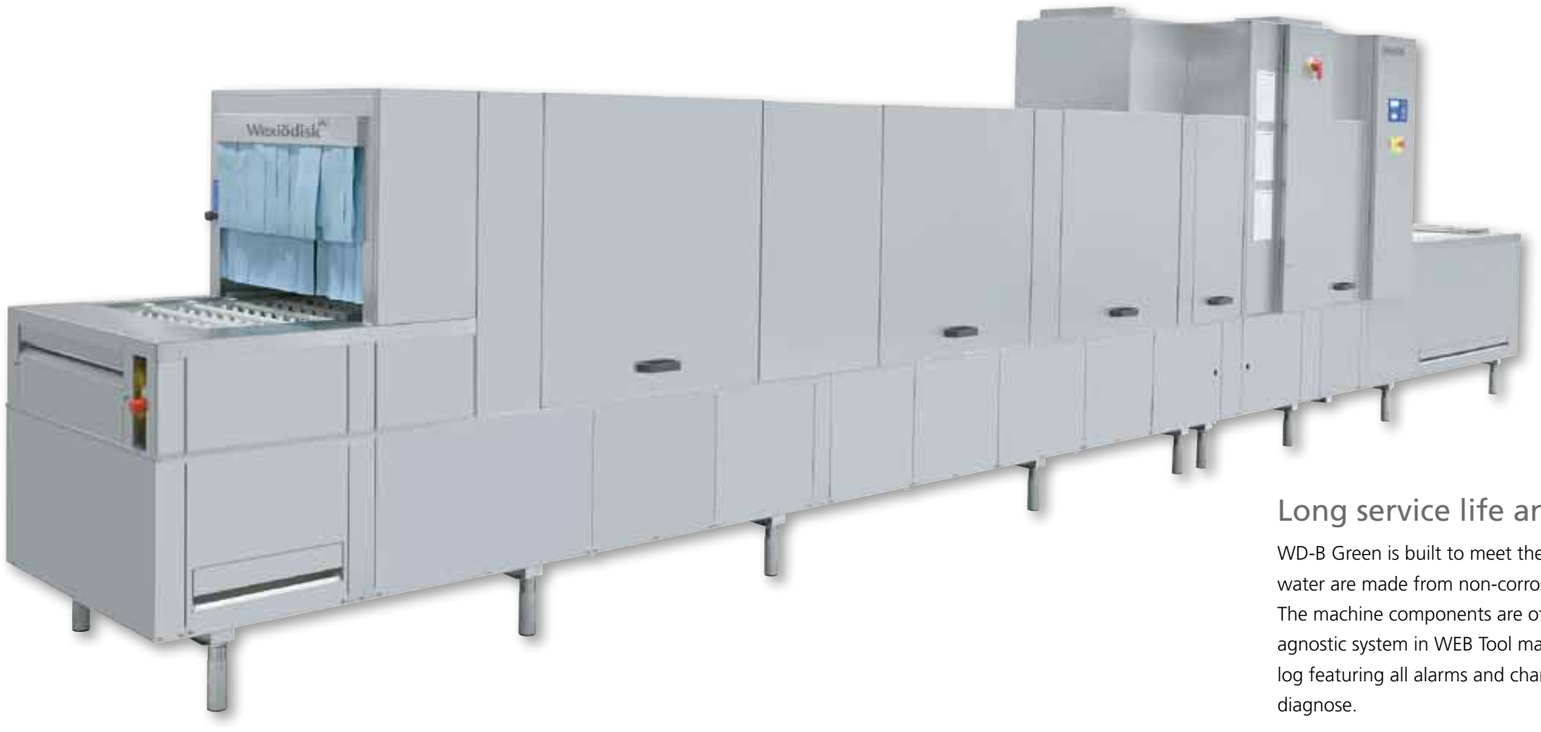
Every installation must result in a good reference!

WD-B GREEN – one of the most environmentally friendly and economic flight type dishwashers on the market

- User friendly
  – designed for optimal ergonomics and working environment
- Low operating costs and reduced environmental impact
  – low water and energy consumption, a record low of 4.5-5 litres per minute reduces energy consumption.
- Excellent wash results
  – long cleaning zones with powerful pumps
- Monitoring of and information on the machine's different functions
  – WEB Tool diagnostic and information system, HACCP
- Long service life and very service-friendly
  – made entirely from stainless steel, easy access for servicing

WD-B GREEN

"The Clean Rinse function improves final rinsing and reduces water consumption"



User-friendly

When the machines are in development great emphasis is placed on achieving a truly ergonomic working environment. Large, easy to handle doors provide good accessibility, and the washing arms are easy to clean. The fitted strainers at the loading and unloading can be pulled out for easy emptying. The efficient sound and heat insulation contributes to a good working environment in the dishwashing room. The automatic start/stop function of the machines is controlled by the items being washed.

Minimized environmental impact and low operating costs

WD-B Green has been developed to give the lowest possible operating costs. Energy consumption has been reduced by as much as 20%, thanks to new technology. Water consumption is extremely low, only 4.5-5 litres per minute. The machine also has double heat recovery. This uses the heat from both the exhaust ventilation and the final rinse water. The amount of detergent consumed is extremely low thanks to the controlled water turnover in the washing tanks. A fully insulated design reduces the heat emitted from the machine, making the dishwashing room a good working environment and contributing to lower operating costs.

Wash results are improved further with the new Clean Rinse function

The machine is made up of several washing zones. The choice of the number of washing zones is determined by the number of items for washing and the time available. To achieve the best wash results the WD-B Green is designed with extra long washing zones of a full metre, and has the longest final rinse zone on the market at 1125 mm. This reduces cross contamination between the zones, otherwise known as carry over. Carry over involves the risk of dirty water from previous washing zones being carried into the next tank where there is cleaner water. It is particularly important to avoid splashing between the chemical wash and the final rinse tank.
The Clean Rinse function is another one of the many advantages of the WD-B Green. The final rinse water is recycled for extra rinsing of the items and the washing conveyor. The Clean Rinse function allows for a perfect rinsing result, with lower water consumption.

Monitoring and information

The unique monitoring system, WEB Tool, has been developed to allow washing to be made more efficient, reduce the environmental impact, and to minimise operating costs.

The WEB Tool connects the individual dishwasher to the network and PC. A standard web browser, e.g., Internet Explorer, creates reports, and monitoring of the dishwasher's HACCP information, costs, water and electricity consumption is performed in order to satisfy all the applicable HACCP hygiene requirements. The function ensures an optimal hygienic wash result, which is documented and saved in the machine, and which can be printed as required.

Long service life and very service friendly

WD-B Green is built to meet the high reliability requirements of the future. All parts that come into contact with water are made from non-corrosive materials, including the frame and legs.
The machine components are of high quality and positioned to ensure servicing can easily be carried out. The diagnostic system in WEB Tool makes it easier to carry out servicing and troubleshooting. WEB Tool includes an event log featuring all alarms and changes recorded by the machine which promotes rapid troubleshooting and a quick diagnose.

WD-B GREEN – for the best in user-friendliness and ergonomics

Efficient handling

The wide sides of the flight type machine act as a storage area and make it easier to unload the machine. It is a simple matter to stack items such as plates and trays before they are taken elsewhere. Depending upon the speed of the conveyor, one or two people can work from each side of the unloading for the greatest possible flexibility when dealing with the washed items.

Recessed finger conveyor as standard

The WD-B Green is fitted with a recessed finger conveyor as standard. The side of the machine is flush with the conveyor, which means it is very easy to move fully loaded washing baskets from the side. It is not necessary to lean over the conveyor in order to lift the baskets. Using a table placed next to one side of the machine is an excellent idea. The washing baskets can be pulled sideways onto the table, with no lifting required. Our finger conveyors have extremely long service lives thanks to their special design and the durable material they are made from.

Reduced heat emission during unloading

By placing the drying zone's air inlets under the outfeed, the working environment at the unloading end is improved, since as little warm air as possible escapes from the machine. As a result, the outfeed staff experience an improved working environment.

"The wide sides of the machine are on the same level as the conveyor belt, which makes it very easy to move fully loaded washing baskets from the side."

"The required washing time can now be set in seconds, in the same way as for our other dishwashers, making it easy for all dishwashing room staff"

Adjustable washing time gives significant benefits

Different washing times are needed depending on how heavily soiled the items are. The washing time is set to one of six different levels using a knob on the panel, which makes it easier for the user and gives higher flexibility in the kitchen. The selected time appears on the display. Simple and easy to understand!

Fitted strainers

Both the loading and unloading have fitted, generously dimensioned strainers for ease of use. The strainers are located on the front or the back of the machine according to the layout of the dishwashing room.

WD-B GREEN – with an eye to the environment

Automatic 1

With automatic operation the photocell is activated by the incoming items being fed in and the machine starts up. The final rinse starts once the load reaches the final rinse zone. If no extra items are loaded, the machine stops automatically. The machine restarts once the photocell is reactivated.

Intermediate rinse (optional) 2

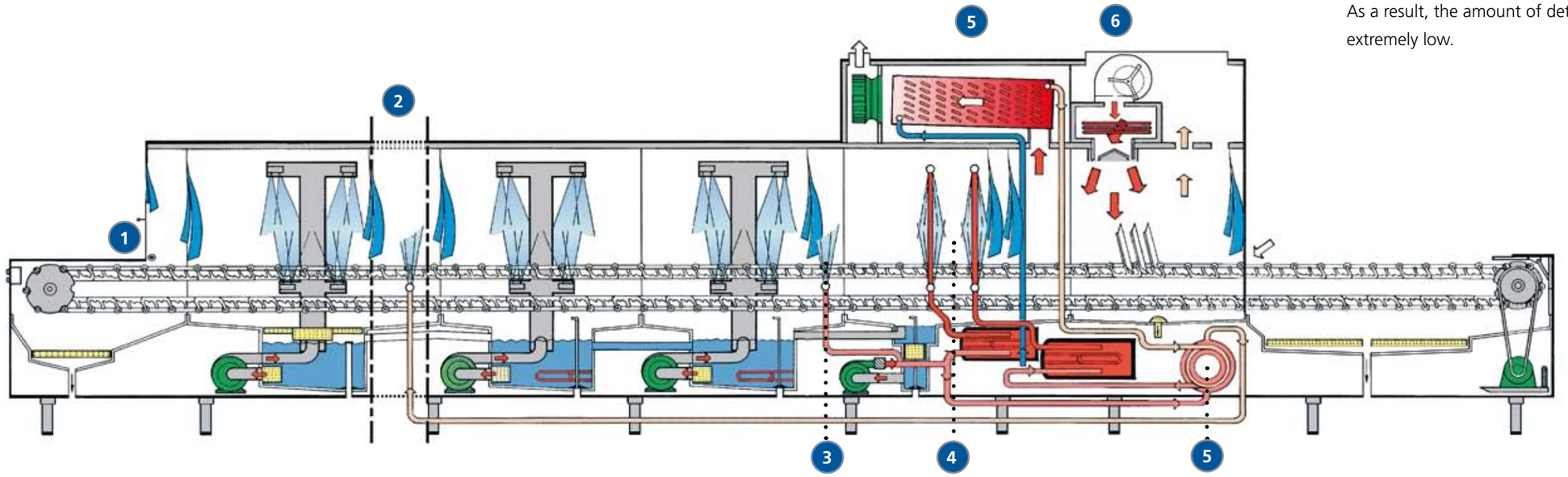
After the pre-wash zone the machines can be fitted with an intermediate rinse. Here the items are rinsed as they leave the pre-wash zone. Rinsing prevents loose dirt and water from the pre-wash being transported into the chemical wash zone. This results in improved wash results, lower detergent consumption and longer washing periods without the water being changed. The intermediate rinse reuses water from the final rinse tank, once it has been through the heat exchanger.

Clean Rinse 3

With the new Clean Rinse function, the effectiveness of the final rinse is enhanced. The items and the washing conveyor pass an additional rinse ramp before reaching the final rinse zone. In this way, the actual tank in the final rinse tank remains cleaner. As a result, fresh water consumption is further reduced.

Double final rinsing system 4

Final rinsing of items uses around 250 litres of fresh water at 85°C and 1,700 litres of recirculated (recycled) water per hour. In the new WD-B Green this is heated to achieve greater efficiency in keeping the items warm. Approx 300 litres per hour is drained from the recirculating system. Half of this is cooled in the heat exchanger and then reused for the pre-wash, intermediate rinse or pre-rinse. The rest is initially used in the Clean Rinse function, and is then taken to dilute the chemical wash tanks. As a result, the amount of detergent consumed is extremely low.



Safety

If a door is opened during operation, the machine stops. The machine must restart once the door is closed. The end limit switch stops the conveyor if there are any items left on it. The machine starts automatically once the items have been removed. The overload switch stops the conveyor's drive motor if items have got stuck in the conveyor, and the conveyor automatically reverses a short distance. When the object is freed the machine can be restarted.

Double heat recovery 5

The warm, damp air inside the machine is sucked through the condensing battery, where it is cooled by the incoming cold water. The cold water is led through the condensing battery, where it is pre-heated to around 40°C. The water is then taken to the heat exchanger. Here the water temperature is raised to around 50°C.The machine uses only cold water in normal operation.

Drying zone 6

The drying zone uses well sound-dampened fans that blow air on to the washed items from above and below. The fans work partly by recirculating the heated air in the drying zone, which significantly reduces the amount of power required.

WD-B GREEN washes most ware

There is room for a large number of items, due to the 614 mm width of the conveyor.

A variety of conveyors gives high flexibility

The WD-B Green can be supplied with several different conveyors to accommodate a wide range of ware.

The conveyors on the WD-B Green have powerful fingers plus axles and conveyor links made from stainless steel. This gives our conveyors extremely long service lives. The design of the conveyors keeps the items stable during their passage through the machine.

The ability to place the items in the right position and at the correct angle in relation to the direction the water sprays contributes to excellent wash results.

Here you can see some of the most common conveyors.

1. *Standard conveyor with recessed fingers designed for shallow or deep plates, coffee cups and trays. Also suitable for baskets.*
2. *On a standard conveyor, both shallow and deep plates are placed at the correct angle to achieve an optimum wash result.*
3. *Finger conveyor with vertical fingers designed for shallow or deep plates, coffee cups, trays, etc.*
4. *Flat conveyor for canteens, pots and plastic trays.*
5. *Special conveyor for insulated trays such as Temprite or equivalent makes.*
6. *Special conveyor for washing canteens.*

WD-B GREEN – with many standard options

Quick adjustment rinse pressure
There is a lever to increase the rinse pressure in the lower washing arms. This means the items undergo a more powerful mechanical process and the dishwasher can be used for potwash.

High pressure washing pumps
For washing heavily soiled items, for example, extra high pump capacity can sometimes be required. We can supply 3 kW pumps for these occasions.

Steam heating
We can supply steam heated dishwashers in two different versions:
* Normal pressure steam 150-250 kPa
Washing tanks, final rinsing and drying zones are steam heated
* Low pressure steam 50-140 kPa
Washing tanks and final rinsing are steam heated. Drying zones are mains powered.

Connection voltage
We deliver machines for connection to 400 Volt 3-phase 50 Hz with zero, as standard.
Other alternatives are 200 or 230 Volt 3-phase 50 or 60 Hz without zero.

Loading length
The loading sometimes needs to be adjusted to the local conditions, and is available in the following lengths: 900, 1125, 1500, 2025, 2625 and 3000 mm.

Extended chemical wash zone
An extended zone is used for example when washing long items such as canteens, in order to reduce carry over between the tanks. The extension also provides a longer contact time for the chemical wash, which helps increase the machine's capacity. The first chemical wash zone can be extended by 250 or 500 mm towards the pre-wash zone.

Intermediate rinse
The intermediate rinse is located after the pre-wash zone. Return water from the final rise is recycled for an extra rinse to keep the chemical wash tank cleaner for a longer period, achieve the best wash results and long intervals between water changes. There is 250 mm between the intermediate rinse and the pre-wash zone, therefore a total of 1250 mm.

Collision guard
It is common for dishwashers to be damaged by carts or other heavy transport items in the washing room. To prevent this, a collision guard is available in 50 mm stainless steel tube, which protects the whole of the front and the corners.

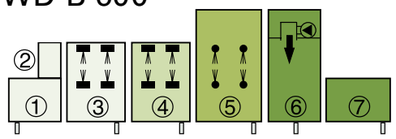
Demineralised water in the final rinse
For customers who need to treat incoming water, e.g., with RO equipment, stainless pipes and couplings for the final rinse are available as optional extras.

Unloading length
The unloading sometimes needs to be adjusted to the conditions, and is available in the following lengths: 900, 1125, 1500, 2025, 2625 and 3000 mm.

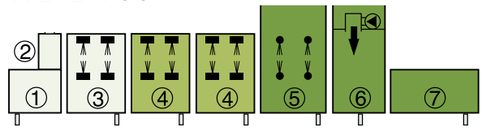
Location of strainers
Strainers at loading and unloading are located at the front of the machine as standard. If conditions (other machines, pillars, etc.) make this difficult, the strainers can also be located on the back of the machine.

Dishwasher models

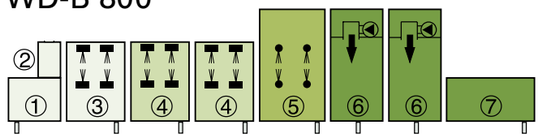
WD-B 600



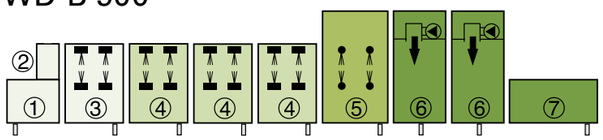
WD-B 700



WD-B 800



WD-B 900



Zone	Zone length in mm
WD-B 600	
1 Loading incl. steam hood (L=300 mm)	900
2 Steam hood	–
3 Pre-wash	1000
4 Chemical wash	1000
5 Double final rinse	1125
6 Drying zone	875
7 Unloading	1125
Total length	6025
WD-B 700	
1 Loading incl. steam hood (L=300 mm)	900
2 Steam hood	–
3 Pre-wash	1000
4 Chemical wash	2000
5 Double final rinse	1125
6 Drying zone	875
7 Unloading	1500
Total length	7400
WD-B 800	
1 Loading incl. steam hood (L=300 mm)	900
2 Steam hood	–
3 Pre-wash	1000
4 Chemical wash	2000
5 Double final rinse	1125
6 Drying zone	1500
7 Unloading	1500
Total length	8025
WD-B 900	
1 Loading incl. steam hood (L=300 mm)	900
2 Steam hood	–
3 Pre-wash	1000
4 Chemical wash	3000
5 Double final rinse	1125
6 Drying zone	1500
7 Unloading	1500
Total length	9025

Customisation – a matter of course

In addition to the machine models mentioned above, Wexiödisk offers an extremely large range of optional extras to customise special machines. We will happily provide quotes upon request. For example, we can deliver special machines for research laboratories, chocolate factories, bakeries, cheese manufacturers, airline caterers and many, many other customers.

Technical data

Technical data	WD-B 600	WD-B 700	WD-B 800	WD-B 900
Pump, pre-wash (kW)	2,35	2,35	2,35	2,35
Pump, chemical wash 1 (kW)	2,35	2,35	2,35	2,35
Pump, chemical wash 2 (kW)	-	2,35	2,35	2,35
Pump, chemical wash 3 (kW)	-	-	-	2,35
Pump, recirculated final rinse (kW)	0,74	0,74	0,74	0,74
Condensing fan (kW)	0,19	0,19	0,19	0,19
Fan, drying zone 1 (kW)	0,65	0,65	0,65	0,65
Fan, drying zone 2 (kW)	-	-	0,65	0,65
Motor, conveyor (kW)	0,15	0,15	0,15	0,15
Booster heater 1 (kW)	6	6	6	6
Booster heater 2 (kW)	12	12	12	12
Heater, chemical wash 1 (kW)	15	12	12	12
Heater, chemical wash 2 (kW)	-	9	9	9
Heater, chemical wash 3 (kW)	-	-	-	9
Heating element, drying zone 1 (kW)	6	6	6	6
Heating element, drying zone 2 (kW)	-	-	-	6
Heat recovery unit, cooling area (m^2)	52	52	52	52
Condensing fan, capacity (m^3/tim)	900	900	900	900
Tank volume, pre wash tank (litres)	104	104	104	104
Tank volume, wash tank 1 (litres)	120	120	120	120
Tank volume, wash tank 2 (litres)	-	120	120	120
Tank volume, wash tank 3 (litres)	-	-	-	120
Tank volume, final rinse tank (litres)	21	21	21	21
Weight, machine in operation (kg)	1480	1770	1930	2280
Degree of protection (IP)	55	55	55	55

Capacity and operating data	WD-B 600	WD-B 700	WD-B 800	WD-B 900
Capcity normal wash (plates/h)	2907	4000	4000	5102
Capacity according to DIN 10510 (plates/hour)	2535	3504	3504	4464
Wash time adjustable in six steps between (sec.)	40-225	55-250	55-250	70-250
Cold water consumption, final rinse normal (litres/h)	270	282	282	300
Steam consumption at 150-250 kPa* (kg/h)	63	71	71	92
Steam consumption at 50-140 kPa* (kg/h)	52	59	69	72
Max. surface temp. at room temp. 20°C (°C)	35	35	35	35
Sound level** (dB(A))	70	70	70	70

Connection, electrically heated machine	WD-B 600	WD-B 700	WD-B 800	WD-B 900
Total connected power (kW)	46	54	54	72
Main fuse 400V 3N~ (A) *	80	100	100	125
Max.conn.area 400V 3N~ (L1-L3,N,PE) Cu (mm^2)	70	70	70	70

* Steam heated machine
** Measured 1 metre from the machine
*** Other connection voltage on request

Technical data

Connection, steam heated machine 50-140 kPa*	WD-B 600	WD-B 700	WD-B 800	WD-B 900
Total conn.power (kW)	16	18	19	28
Main fuse 400V 3N~(A)**	35	50	50	63
Max.conn.area 400V 3N~(L1-L3, N, PE) Cu (mm2)	35	35	35	63
Steam connection (internal thread)	R 1"	R 1 ¼"	R 1 ¼"	R 1 ½"
Connection condense water (internal thread)	R ¾"	R ¾"	R ¾"	R ¾"

Connection, steam heated machine 150-250 kPa	WD-B 600	WD-B 700	WD-B 800	WD-B 900
Total conn.power (kW)	6,4	8,8	8,8	11,8
Main fuse 400V 3N~(A)**	20	25	25	25
Max.conn.area 400V 3N~(L1-L3, N, PE) Cu (mm^2)	35	35	35	35
Steam connection (internal thread)	R ¾"	R 1 "	R 1 "	R 1 ¼"
Connection condense water (internal thread)	R ¾"	R ¾"	R ¾"	R ¾"

Connection water, drain and ventilation	WD-B 600	WD-B 700	WD-B 800	WD-B 900
Water quality, hardness (°dH)	2-7	2-7	2-7	2-7
Hot water conn. 55-70°C (internal thread)	R ¾"	R ¾"	R ¾"	R ¾"
Cold water connection 5-12°C (internal thread)	R ¾"	R ¾"	R ¾"	R ¾"
Drain connection, PP pipe (ø mm)	50	50	50	50
Water capacity, pressure (kPa)	300-600	300-600	300-600	300-600
Water capacity, flow (litres/min)	18	18	18	18
Floor drain, capacity (litres/sec).	3	3	3	3
Ventilation of the machine (m^3/h).	1800	2000	2000	2000

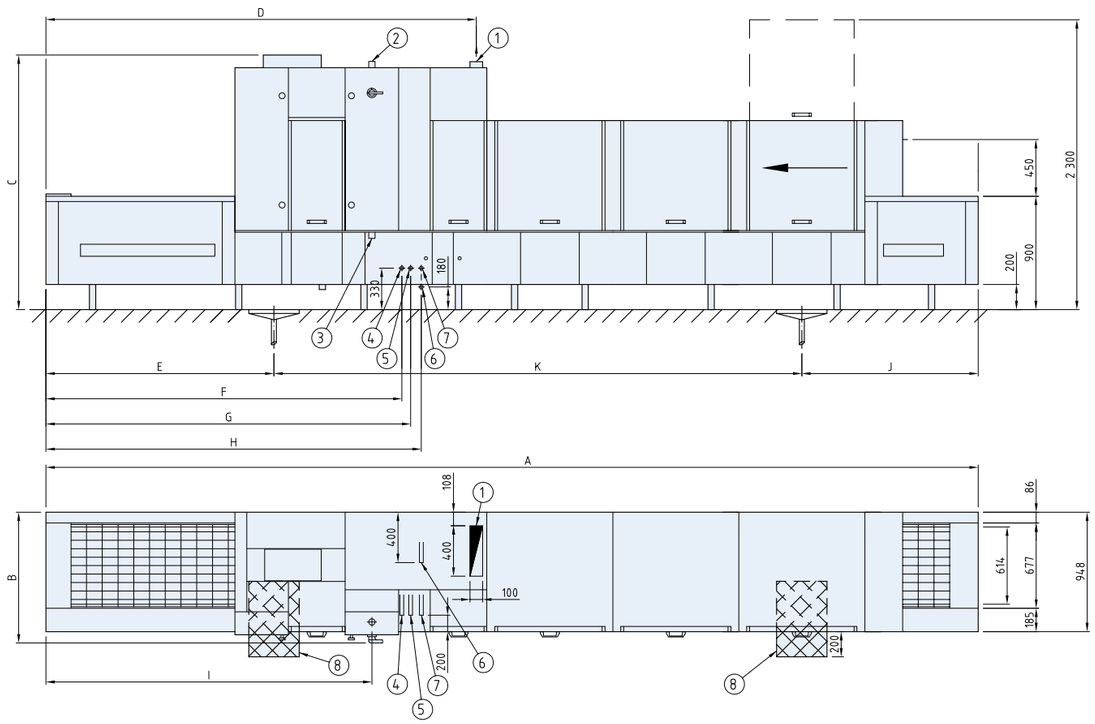
Size and weight for transportation Standard divided machine***	WD-B 600	WD-B 700	WD-B 800	WD-B 900
Size part 1**** (LxWxH (m))	3,2x1,1x1,5	4,2x1,1x1,5	4,2x1,1x1,5	5,2x1,1x1,5
Size part 2**** (LxWxH (m))	3,3x1,1x2,1	3,7x1,1x2,1	4,3x1,1x2,1	4,3x1,1x2,1
Weight part 1**** (kg)	550	750	770	1000
Weight part 2**** (kg)	700	700	820	820

* Electric heated drying zone
** Other connection voltage on request.
*** Normal delivery in 2 pieces. Option further dismantled.
**** Packaging included

Dimensions table

Type / Dimensions	WD-B 600	WD-B 700	WD-B 800	WD-B 900
A (length)	6025	7400	8025	9025
B (width)	1038	1038	1038	1038
C (height)	2020	2020	2020	2020
D	3044	3419	4044	4044
E	---	1810	1810	1810
F	2450	2825	3450	3450
G	2520	2895	3520	3520
H	2605	2980	3605	3605
I	2212	2587	3212	3212
J	1400	1400	1400	1400
K	---	4190	4815	5185

Dimensional drawing



Drawing no. 27888

1. Extractor 400x100 mm without damper. Air quantity approx. 1200 m3/h.
2. Electrical connection from ceiling
3. Alternative electrical connection from floor
4. Hot water connection *
5. Cold water connection *
6. Condensation water connection (steam-heated machine)
7. Steam connection * (steam-heated machine)
- Steam pressure 150-250 kPa (Fully steam-heated machine).
- Steam pressure 50-140 kPa (Electrically heated drying zone).
8. Floor drain 400x600 mm.

* Connection from floor or ceiling

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