

# FRONT LOADING WASHER EXTRACTORS



INTERACTIVE  
CATALOGUE



# A WIDE AND VERSATILE RANGE

By  
 **DANUBE**

The Danube range of high and normal spin washer extractors offers a wide choice of capacities that meet the needs of all type of structures and perform the most demanding services in all types of laundries: commercial, industrial or self-service.

Equipped with the EASY TOUCH 2 control, featuring a large user-friendly touch screen and many features, the entire range offers low water, detergents and energy consumption while ensuring high productivity. The ET2 control also allows all models to be ready for connectivity.

New capacities in 60 and 80 kg complete this already extensive range.



# RANGE OF MODELS

HIGH SPIN - G FACTOR 500-450 SOFT MOUNTED							
CONTROL TYPE	HEATING	CAPACITY					
		10 - 11 kg	13 - 14 kg	18 - 20 kg	22 - 25 kg	28 - 31 kg	
Microprocessor ET2	Electric, hot water & steam	WED-11 ET2 <b>G factor 500</b>	WED-14 ET2 <b>G factor 500</b>	WED-18 ET2 <b>G factor 500</b>	WED-22 ET2	WED-28 ET2	
		BIG CAPACITY					
		35 - 39 kg	42 - 47 kg	59 - 65 kg	77 - 85 kg	95 - 105 kg	115 - 130 kg
		WED-35C ET2	WED-45C ET2	WED-60C ET2	WED-80C ET2	WED-100C ET2	WED-120C ET2

NORMAL SPIN - G FACTOR 200 - HARD MOUNTED							
CONTROL TYPE	HEATING	CAPACITY					
		10 - 11 kg	13 - 14 kg	18 - 20 kg	22 - 25 kg	28 - 31 kg	
Microprocessor ET2	Electric, hot water & steam	WEN-11 ET2	WEN-14 ET2	WEN-18 ET2	WEN-22 ET2	WEN-28 ET2	
		BIG CAPACITY					
		35 - 39 kg	42 - 47 kg	59 - 65 kg	77 - 85 kg		
		WEN-35C ET2	WEN-45C ET2	WEN-60C ET2	WEN-80C ET2		

HEATING CODES: E = ELECTRIC, HW = HOT WATER, S = STEAM

Note: all models can be easily converted to coin mode (except WED-60C/100C/120C) with coin/token kit, central pay or payment APP with IoT.



**RANGE** 11 - 14 - 18 - 22 - 28 - 35 - 45 - 60 - 80 - 100 - 120 KG

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## G-FACTOR 500



## WED HIGH SPIN

### G-FACTOR 500/450/350 SOFT MOUNTED

- ✓ Easy Touch 2 control with 7" touch screen.
- ✓ Soft mounted washers, free standing.
- ✓ Outer casing in grey skinplate.
- ✓ **DANUBE ONLINE - connectivity IOT standard.**
- ✓ R.P.M. between 678 - 1300.
- ✓ Vat and drum in AISI 304 stainless steel.
- ✓ 3 water inlets.
- ✓ 8 signals for dosing pumps.
- ✓ Easy to install, no need of anchorage to the floor, no extra costs.
- ✓ Savings due to high extraction of water. (about 44% residual humidity).

**RANGE** 11 - 14 - 18 - 22 - 28 - 35 - 45 - 60 - 80 KG

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## WEN NORMAL SPIN

### G-FACTOR 200/150 HARD MOUNTED

- ✓ Easy Touch 2 control with 7" touch screen.
- ✓ Hard mounted washers.
- ✓ Anchoring to floor with anchoring base.
- ✓ **DANUBE ONLINE - connectivity IOT standard.**
- ✓ Outer casing in grey skinplate.
- ✓ R.P.M. between 505-759.
- ✓ Vat and drum in AISI 304 stainless steel.
- ✓ 3 water inlets.
- ✓ 8 signals for dosing pumps.
- ✓ Savings due to high extraction of water (about 65% residual humidity).

# HIGH PERFORMANCE



## EASY TOUCH 2

- User friendly and totally programmable **7" EASY TOUCH 2**.
- **USB Connection**. Free PC software online for programming, telemetry, data analysis.
- **Danube Online communication standard - Free and easy connection to IoT.**
- **Telemetry standard.**
- **Wet cleaning ready.**
- **Videos shown on display** (very useful for Self-service).
- **37 languages.**
- **8 dosing signals as standard + optional 6 extra dosing signals.**
- **20 preset programs.**



## G FACTOR

- **High G-FACTOR for all range of washers comparing with competitors :**  
**G-FACTOR 500-450** for High spin washers.  
**G-FACTOR 200** for normal spin washers.
- Reduced residual moisture, reduced drying time.



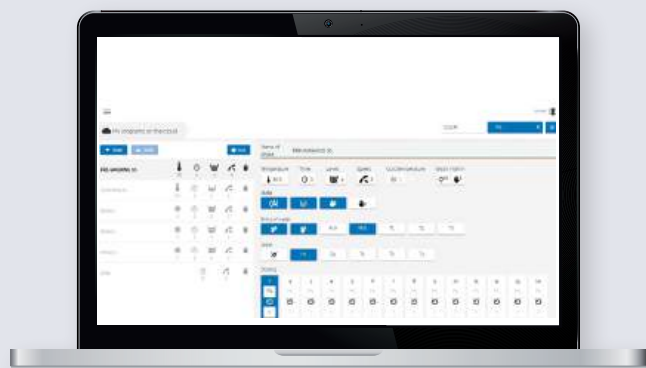
## VERSATILITY

- **MAKE TO ORDER**. Possibility to customize machines from factory with available options.
- **OPL <> COIN**. Standard model easily transformable.
- **ELECTRIC <> HOT WATER**. Standard Electric model easily transformable to Hot Water model.
- **DRAIN <> VALVE PUMP**. Standard model easily transformable. Easy access and service.
- **WET CLEANING**. All washers have all features to use WET CLEANING programs.
- **Aqua flow**: recirculation of the bath water.



## CONNECTIVITY

- **Danube Online - IoT connectivity standard**: machine monitoring, error warning, remote desk and data recovery for technicians and maintenance, software updates...
- **Management of OPL or coin-operated laundries**: Danube IoT solution allows you to manage your laundry business (create discount programs, get statistics, telemetry, laundry monitoring...).
- **Remote payment**: App for payment, cashless payment by scanning a QR code, promotions and machine booking.
- **LEMS by Onnera - pulse concentrator**: collects accurate data on water, gas and electric consumption to provide an overview of your laundry.





## EFFICIENCY

- **Water saving:** Possibility of configuring three levels of savings.
- **Intelligent consumption (standard):** automatic adjustment of water and detergent consumption.
- **Optimal loading:** manual indication of load weight.
- **Low water consumption:** less than 8 lt/kg and cycle (60°C standard cycle).
- **Facteur G élevé 500-450.** Reduced residual moisture. Reduced drying time.
- **AQUABAC & New AQUABAC XL:** water recovery tanks ready.



## EASY MAINTENANCE

- **Hinged panel.** Easy and ergonomic access to control panel parts.
- **Same parts for all models.** Many key parts are the same for all the models (inverter, contactors, electronic elements, gear).
- **Easy Access to parts for reparability.** Washers are designed to make easier maintenance and reparability.
- **Technical menu:** telemetry, error diagnosis, machine monitoring, software update.



## ERGONOMICS

- **Big loading door** (Ø 373 to 700 mm according to models).
- **Easy door opening / closing system.**
- **Ergonomic plinth for models from 11 to 45 kg:** for door loading height at 850 mm.





# EASY TOUCH 2

## Programming

User-friendly and intuitive programming.  
8 signals for automatic liquid dosing,  
programmable in time and delay.  
Option: extension to 14 signals.



## Telemetry

All washing process (temperatures, water levels) is stored in the washer and can be extracted to a PC by means of a pen drive.

## Connectivity and external software

Wash Control: software to make programs from a PC and introduce into the washer by USB.  
Remote Control: to access to the data in the washer and modify configuration or check technical information without need of visiting the customer.



## IoT - DANUBE ONLINE

Offers feedback from the machines to the device through the cloud, about telemetry and statistics to be analyzed and to ensure **maximum hygiene**.





Touch Screen 7".  
 Programmer: 37 available languages.  
 USB port for washer's software updates and other applications.  
 Easy Touch 2 Control for OPL washers and coin washers.

## Videos shown on display

Very useful for self-service: ads, instructions, etc.



## USB connection

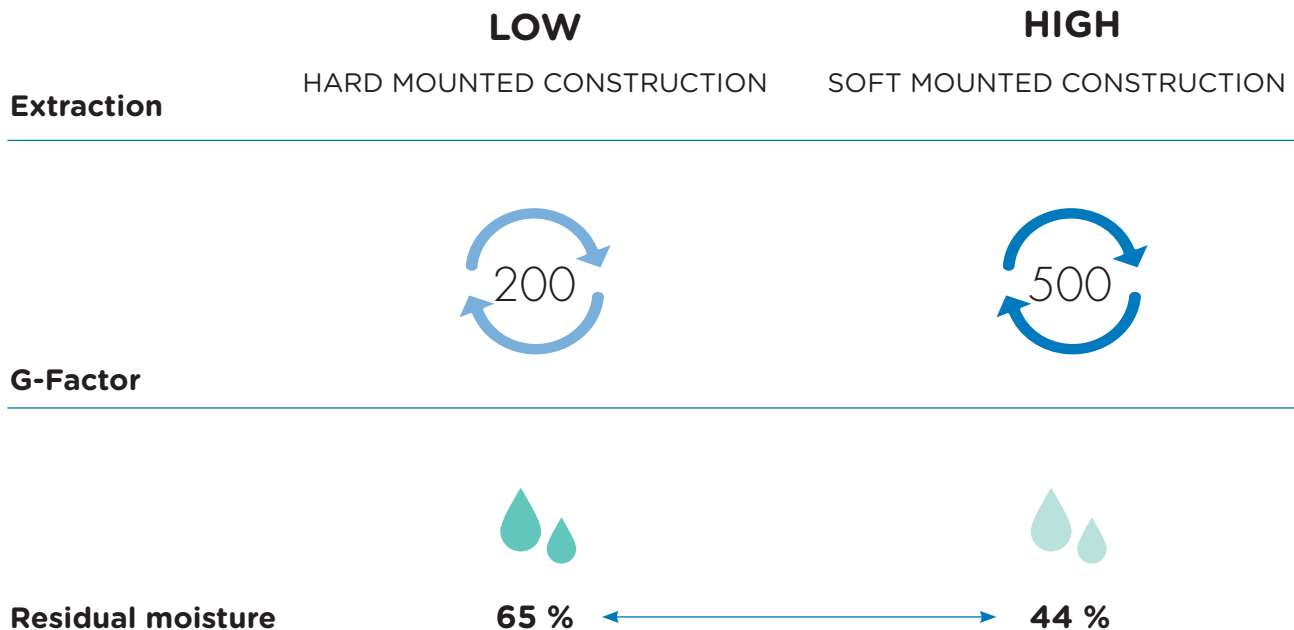
To import and export data or programmes, configure and update machines, without an Internet connection.



DANUBE washer extractors drastically reduce the residual moisture after the washing process, thus allowing important savings in the process that follows such as drying and ironing.

## High G-factor reduces residual moisture and drying time

The higher the G-Factor, the more water extraction and less residual moisture in the clothes. To get a higher G-factor the construction of the machine is different, going from a hard mounted to a soft mounted one.



Drying laundry is more efficient with a high spin washer because the drying cycle is much shorter: time and energy savings





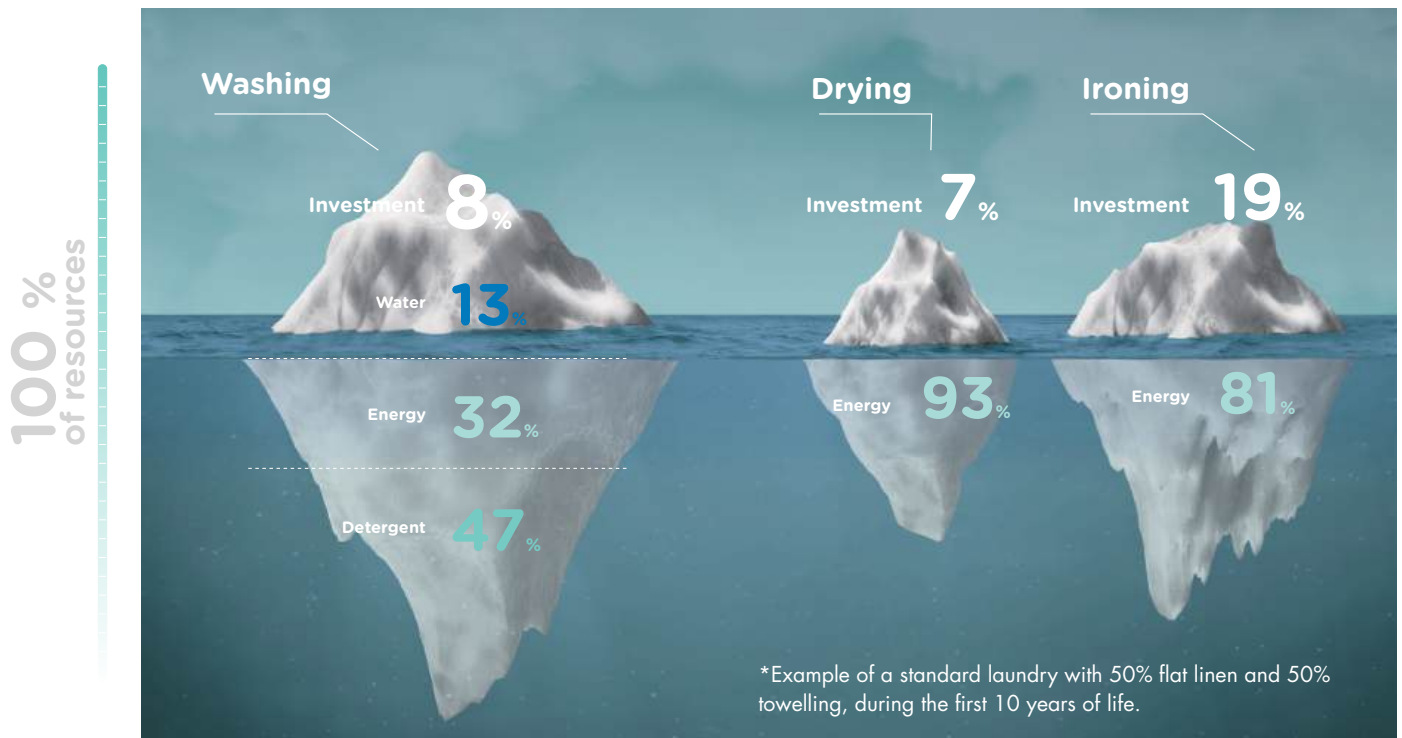
# EFFICIENCY

For laundries where process quality and energy and water savings are a priority, the new DANUBE washer extractors offer top performance and a renewed look to meet the needs of the most demanding customers.

Their advanced design has a great effect on energy efficiency and on saving water and chemicals, reducing operating costs and increasing the business productivity.



In a laundry, machinery is the tip of an iceberg. Danube pays a specific attention to the invisible part, to optimize resources throughout the life cycle of machines.



## Water

Our machines incorporate water recovery technology and management to guarantee low consumption and optimum use of water in each wash cycle.



## Energy

Optimizing energy is a key point in the management of a laundry to ensure greater savings and greater efficiency.



## Chemicals

Adapting the quantity of detergents to suit the load and the laundry means extra savings, better care for your clothes and greater respect for the environment.



## Time

By adjusting process times appropriately, the efficiency and profitability of the laundry is increased.



# EFFICIENCY

## Water Saving

Possibility of configuring three levels of savings.

## Optimal loading (Standard)

Manual indication of load weight to optimize water and chemicals consumption.  
Automatic weighing system as option.

## High G FACTOR 500-450 for high spin machines

Reduced residual moisture. Reduced drying time.



## Low water consumption

Less than 8 liters of water per kg and cycle (standard washing cycle 60 °C).



## LEMS by Onnera - Pulse concentrator

## Intelligent loading (Standard)

Automatic adjustment of water and chemicals consumption.







# EFFICIENCY

## Water recovery tanks ready

DANUBE washer extractors, with ET2 and double drain, can be connected to the new AQUABAC, which allows the water recovery, achieving important water and energy savings.



80 and 150 litres tanks for industrial washers from 11 to 28 kg.



## AQUABAC XL

New centralized tank for one or more machines, from 1 to 3 tanks of 1.000 liters.



For industrial washers from 35 to 120 kg.

# **VERSATILITY**

Washer extractors between 11 and 45 kg for high spin models and 11 to 80 kg for normal models can be used for self-service businesses.

## **Make to order: customization**

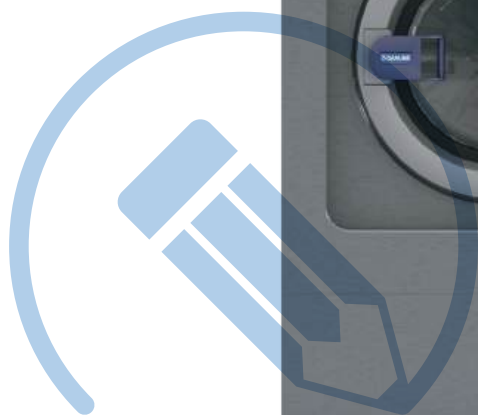
Possibility to customize machines from factory with available options.

## **Drain valve < > Pump**

Standard model easily transformable.  
Easy access and service.

## **Electric < > Hot water**

Standard electric model easily transformable to hot water model.



## **Wet Cleaning<sup>®</sup>**

Thanks to DANUBE constant development, our models are equipped with the features to use WET CLEANING programs:

- ✓ Fully programmable ET2.
- ✓ Total control of temperature and water levels.
- ✓ Programmable washing speed: very low (13 R.P.M.).
- ✓ Rhythm on/off 3seg/40seg.
- ✓ Total control of dosing signal.



## **Aqua-flow option**

Recirculation of the bath water to increase linen care. Increases the flow of water with chemicals, shortens the cycle and improves effectiveness without mechanical action.



## PAYMENT SYSTEMS

Danube offer different payment options that can be combined to suit all types of self-service laundry and meet the needs of many businesses.

# OPL < > Coin

Easy transformation from an OPL to a COIN machine.  
Three available options:



### DANUBE LAUNDRY KIOSK

Optimize your laundry business with an all-new central pay providing versatile, efficient and secure user experience for both customers and owners.

- ✓ Available in 12" and 32" touchscreen
- ✓ Enable contactless payment by card or smart device (NFC)
- ✓ Full remote control for managing prices, promotions, etc.
- ✓ Customisable



DANUBE LAUNDRY KIOSK 32"



DANUBE LAUNDRY KIOSK 12"



### DANUBE LAUNDRY payment APP

Select your laundromat, book your machine and pay remotely.



### Coins/Tokens

Washers and dryers can be fitted with token or coin kits in various currencies.





# CONNECTIVITY

A LOT OF ADVANTAGES :



The DANUBE ONLINE solution brings added value to machines, with a host of advantages and a high level of comfort for a wide variety of users:



## Owners

- ✓ Manage your business remotely, optimize your processes via a user-friendly interface and obtain detailed reports.
- ✓ Control machines, schedules and self-service payment systems.



## Dealers

- ✓ Manage your fleet of machines: new customers, leasing, maintenance contracts, laundromats, etc.
- ✓ Access a detailed database of installed machines, geographical distribution, models, etc.



## Chemical partners

- ✓ Create and manage wash programs online to guarantee cycle efficiency and quality.
- ✓ Optimize detergent use in real time and connect dosing system via RS-485.



## Customers

- ✓ Locate and book your machine remotely in your favorite shop.
- ✓ Make fast, secure payments.
- ✓ Check the status of your laundry in real time.
- ✓ Take advantage of promotions.



## Technical service

- ✓ Improve service with faster support.
- ✓ Diagnose incidents remotely.
- ✓ Access accurate data and keep machines up to date without having to travel.







# THE INTERNET OF THINGS

## STANDARD ON ALL RANGES WITH ET2 CONTROL: Free and easy connection to IoT

The Internet of Things (IoT) is the digital interconnection of everyday objects with internet.

With this in mind, DANUBE machines, equipped with EASY TOUCH 2 control, have been designed to use this technology and obtain a wide range of information to control and optimize all processes.

All the machines are ready for Ethernet connection.

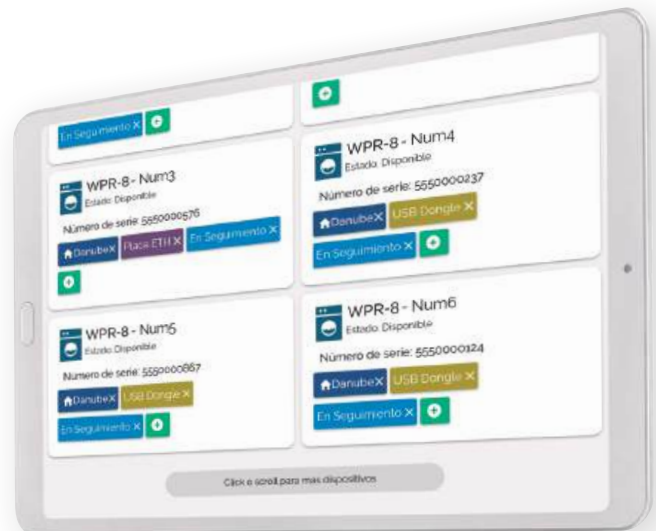


## DANUBE ONLINE Standard

This is Danube's free standard IoT platform, essential for improving efficiency and managing your laundry remotely.

The DANUBE ONLINE platform centralizes all your laundry data using IoT, enabling you to manage, control and optimize your machines and resources in real time, from anywhere, with a computer, a tablet or smartphone.

- **Immediate access to your information**  
Make rapid decisions to reduce operating costs and maximise operational efficiency.
- **Integrity and confidentiality of your data**  
Advanced safety guaranteed.
- **Available in several languages**  
To suit your needs.
- **Regular updates with new features**  
Free of charge to keep your business at the cutting edge of innovation





# ERGONOMICS

Our equipment is designed to meet the health and safety considerations of operators at work.



## **Biggest door diameters in the market**

Helpful, mainly for big capacity washers, for loading and unloading.

## **Plinths for models from 11 to 45 kg**

Same level of loading .  
door = 850 mm.

## **Reversible door**

## **Easy opening/closing system for door lock**



# EASY MAINTENANCE

One of DANUBE's priorities is to make life easier for its customers. Our equipment is manufactured using quality parts from reputable brands that require little maintenance and offer easy access to the various technical parts.



## New feet

As standard on high spin 35 and 45 kg models.

## Same parts

Many key parts are the same for all models (inverter, contactors, electronic elements, gear)

## Easy access to parts

Washers are designed to offer an easy maintenance and reparability.

## Hinged panel

Easy and ergonomic access to control panel parts.

## Technical menu

Statistics, alarms, autotest, data recovery for technicians and maintenance.

# INTELLIGENT LAUNDRY

by Danube

DANUBE introduces the laundry of the future with high-performance and connected machines, offering cutting-edge technology to manage and monitor the different resources used in real time.

## Industrial dryers

DD-45 to DD-80 ET2.





## LEMS by Onnera - Pulse concentrator

With the new LEMS together with DANUBE ONLINE platform, all your laundry data is collected to analyse the efficiency of your machines.

## DANUBE ONLINE - IoT platform

The free DANUBE ONLINE platform integrates all the data collected by LEMS allowing you to control and improve your laundry processes for better hygiene and reduced operating costs.

### AQUABAC XL



New centralized tank for one or more machines, from 1 to 3 tanks of 1.000 liters.

### Efficient machines

Add DANUBE washers with high efficient features like high G factor, Water saving system, automatic weighing system to save resources. More water savings are possible with the 1000 litres AQUABAC XL.



## WASHER EXTRACTORS TECHNICAL DATA

	UNIT.	HIGH SPIN										
		WED-11	WED-14	WED-18	WED-22	WED-28	WED-35C	WED-45C	WED-60C	WED-80C	WED-100C	WED-120C
DRUM												
Load capacity 1:9 / 1:10	Kg	11/10	14/13	20/18	25/22	31/28	39/35	47/42	65/59	85/77	105/95	130/115
Volume	lt	100	130	180	220	280	350	450	590	770	950	1150
Diameter	mm	532	620	700	700	770	860	860	1048	1048	1360	1360
Depth	mm	425	430	470	560	585	602	720	680	892	637	775
GENERAL DETAILS												
Washing speed / Spining speed	r.p.m.	50/1.300	50/1.204	47/1.133	47/1.071	45/1.024	42,5/966	42,5/966	38/875	38/875	34/678	34/678
Factor G	-	500	500	500	450	450	450	450	450	450	350	350
Noise level	dB	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Self-service version	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Double drainage	-	No	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Weighing System / Tilting System	-	Opt./No	Opt./No	Opt./No	Opt./No	Opt./No	Opt./No	Opt./No	Opt.	Opt.	Opt.	Opt.
Option SLUICE	-	No	No	No	No	No	No	No	No	No	No	No
DOOR												
Height door base	mm	370	440	450	450	560	698	698	810	810	945	945
Diameter	mm	373	373	460	460	460	560	560	560	560	700	700
POWER												
Motor	kW	0,75	1,1	2,2	2,2	4	6	6	15	15	15	15
Heating (Electric model)	kW	6	9	12	12	18	21	21	36	48/36*	-	-
Max. power (Electric model)	kW	6,25	9,4	12,75	12,75	19,2	22	22	39	51/39*	-	-
Max. power Steam model (and hot water)	kW	0,75	1,1	2,2	2,2	4	6	6	15	15	15	15
CONNECTIONS												
Steam inlet	inch	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	1-1/4"	1-1/4"
Water inlet	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1-1/2"	1-1/2"
Drain	mm/ inch	3"	3"	3"	3"	3"	3"	3"	3"	3"	4"	4"
DIMENSIONS / PACKING DIMENSIONS												
Net width / Gross width	mm	692 / 738	788 / 850	884 / 945	884 / 945	979 / 1.045	1.095 / 1.205	1.095 / 1.205	1.420 / 1.600	1.420 / 1.600	1.836 / 1.940	1.836 / 1.940
Net depth / Gross depth	mm	830 / 975	869 / 1.015	913 / 1.030	1.003 / 1.115	1.080 / 1.210	1.184 / 1.330	1.304 / 1.440	1.433 / 1.595	1.645 / 1.805	1.710 / 2.030	1.832 / 2.030
Net height / Gross height	mm	1.185 / 1.440	1.307 / 1.600	1.405 / 1.680	1.405 / 1.680	1.550 / 1.810	1.767 / 1.850	1.767 / 1.850	1.890 / 1.930	1.890 / 1.930	2.245 / 2.290	2.245 / 2.290
Net weight / Gross weight	kg	198 / 230	236 / 274	344 / 388	360/403	524 / 548	735 / 786	747 / 853	1.454 / 1.544	1.800 / 2.000	2.300 / 2.600	2.762 / 3.058
Volume	m³	1,03	1,38	1,63	1,77	2,28	2,7	3,3	4,9	5,6	9	9

\* Version 400V / Version 230V

	UNIT.	NORMAL SPIN								
		WEN-11	WEN-14	WEN-18	WEN-22	WEN-28	WEN-35C	WEN-45C	WEN-60C	WEN-80C
DRUM										
Load capacity 1:9 / 1:10	Kg	11/10	14/13	20/18	25/22	31/28	39/35	47/42	65/59	85/77
Volume	lt	100	130	180	220	280	350	420	590	770
Diameter	mm	620	620	700	700	770	860	860	1048	1048
Depth	mm	330	430	470	560	585	602	720	684	936
GENERAL DETAILS										
Washing speed / Spining speed	r.p.m.	53/759	53/759	50/714	50/714	48/682	45/644	45/644	42,5/505	42,5/505
Factor G	-	200	200	200	200	200	200	200	150	150
Noise level	dB	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Self-service version	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Double drainage	-	No	Opt.	Opt.	Opt.	Opt.	Opc	Opt.	Opt.	Opt.
Weighing System / Tilting System	-	No	No	No	No	No	No	No	No	No
Option SLUICE	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
DOOR										
Height center door / Height base door	mm	570 / 310	570 / 310	655 / 348	655 / 348	700 / 400	735 / 440	735 / 440	900 / 540	900 / 540
Diameter	mm	373	373	460	460	460	560	560	560	560
POWER										
Motor	kW	1,1	1,1	2,2	2,2	4	4	6	5,5	7.5
Heating (Electric model)	kW	6	9	12	12	18	21	21	36	48/36*
Max. power (Electric model)	kW	6,25	9,5	12,75	12,75	19,2	22	22	41.5	50,5/38,5*
Max. power (Steam model and hot water)	kW	1,1	1,1	2,2	2,2	4	4	4	5,5	7.5
CONNECTIONS										
Steam inlet	inch	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
Water inlet	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
Drain	mm/ inch	3"	3"	3"	3"	3"	3"	3"	3"	3"
DIMENSIONS / PACKING DIMENSIONS										
Net width / Gross width	mm	719 / 782	719 / 782	788 / 850	788 / 850	884 / 945	979/ 1.045	979 / 1.125	1.225 / 1.335	1.225 / 1.335
Net depth / Gross depth	mm	755 / 890	856 / 990	935 / 1.013	1.035 / 1.106	1.075 / 1.230	1.155 / 1.280	1.325 / 1.440	1.315 / 1.440	1.492 / 1.660
Net height / Gross height	mm	1.165 / 1.400	1.165 / 1.400	1.307 / 1.583	1.307 / 1.583	1.340 / 1.583	1.411 / 1.655	1.411 / 1.640	1.640 / 1.860	1.640 / 1.860
Net weight / Gross weight	kg	198 / 231	210 / 245	272 / 309	295/335	403 / 431	476 / 510	600 / 670	792 / 878	871 / 963
Volume	m³	0,97	1,08	1,36	1,5	1,84	2,2	2,6	3,6	4,12

\* Version 400V / Version 230V

DANUBE reserves the right to modify the technical data without notice.



# FRONT LOADING WASHER EXTRACTORS

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