

# FRONT LOADING WASHER EXTRACTORS



### A WIDE AND VERSATILE RANGE

Our new range of front loading washer extractors provides a large choice of capacities and varieties that meet the needs of almost all type of structures and are designed to perform the most demanding services.

This new generation combines the latest technology with the best quality in components and material. Their low consumption in water and energy makes them remarkable by the quality of washing and saving costs. Standard equipped with many features, such as Wet Cleaning or traceability thanks to the new EASY TOUCH 2 (ET2) microprocessor, this range combines high performance, ease of use, installation and maintenance.

Fully programmable, with a wider screen and an USB connection, the ET2 is user-friendly and allows the whole range to be adapted to any kind of laundries: commercial, industrial or self-service.

The range exists from 11 to 120 kg depending on the model. In addition we expanded the fast spin series with a 36 kg washer and improved the G Force of the WEM (300) and WEN (150-200) ranges. The WED series still benefits from a high G Force: 450 (350 for large capacities washers).

# FRONT LOADING WASHER EXTRACTORS



#### HIGH SPIN - G FACTOR 450 SOFT MOUNTED

CONTROL TYPE	HEATING	CAPACITY							
		10 - 11 kg	13 - 14 kg	18 - 20 kg	25 - 28 kg	35 - 39 kg	45 - 50 kg	60 - 66 kg	120 - 133 kg
EASY TOUCH 2 microprocessor	Electric, hot water & steam	WED11 ET2	WED14 ET2	WED18 ET2	WED27 ET2	WED36 ET2	WED45 ET2	WED60 ET2	WED120 ET2
EASY TOUCH 2 microprocessor - coin	Electric and hot water	WED11 ET2	WED14 ET2	WED18 ET2	WED27 ET2	WED36 ET2	-	-	-

#### MEDIUM SPIN - G FACTOR 300 HARD MOUNTED

CONTROL TYPE	HEATING	CAPACITY			
		10 - 11 kg	13 - 14 kg	18 - 20 kg	25 - 28 kg
EASY TOUCH 2 microprocessor	Electric, hot water & steam	WEM11 ET2	WEM14 ET2	WEM18 ET2	WEM27 ET2
EASY TOUCH 2 microprocessor - coin	Electric and hot water	WEM11 ET2	WEM14 ET2	WEM18 ET2	WEM27 ET2

#### NORMAL SPIN - G FACTOR 200 HARD MOUNTED

CONTROL TYPE	HEATING	CAPACITY					
		10 - 11 kg	13 - 14 kg	18 - 20 kg	25 - 28 kg	35 - 38 kg	60 - 66 kg
EASY TOUCH 2 microprocessor	Electric, hot water & steam	WEN11 ET2	WEN14 ET2	WEN18 ET2	WEN27 ET2	WEN36 ET2	WEN60 ET2
EASY TOUCH 2 microprocessor - coin	Electric and hot water	WEN11 ET2	WEN14 ET2	WEN18 ET2	WEN27 ET2	WEN36 ET2	WEN60 ET2



HIGH SPIN WASHERS RANGE: 11-14-18-27-36-45-60-120 KG



## WED HIGH SPIN

### G FACTOR 450 SOFT MOUNTED

- ✓ Soft mounted washers, free standing.
- ✓ Outer casing in grey skinplate.
- ✓ R.P.M. between 678-1.231.
- ✓ Vat and drum in AISI 304 stainless steel
- ✓ 3 water inlets
- ✓ 8 signals for dosing pumps
- ✓ Easy to install, no needs of fixation to the floor, no extra costs.
- ✓ Savings due to high extraction of water. (about 47% residual humidity)

MEDIUM SPIN WASHERS RANGE: 11-14-18-27 KG



## WEM MEDIUM SPIN

### G FACTOR 300 HARD MOUNTED

- ✓ Hard mounted washers
- ✓ Anchoring to floor with anchoring base
- ✓ Outer casing in grey skinplate.
- ✓ R.P.M. between 836-929.
- ✓ Vat and drum in AISI 304 stainless steel
- ✓ 3 water inlets
- ✓ 8 signals for dosing pumps
- ✓ Savings due to high extraction of water. (about 55% residual humidity)

NORMAL SPIN WASHERS RANGE: 11-14-18-27-36-60 KG

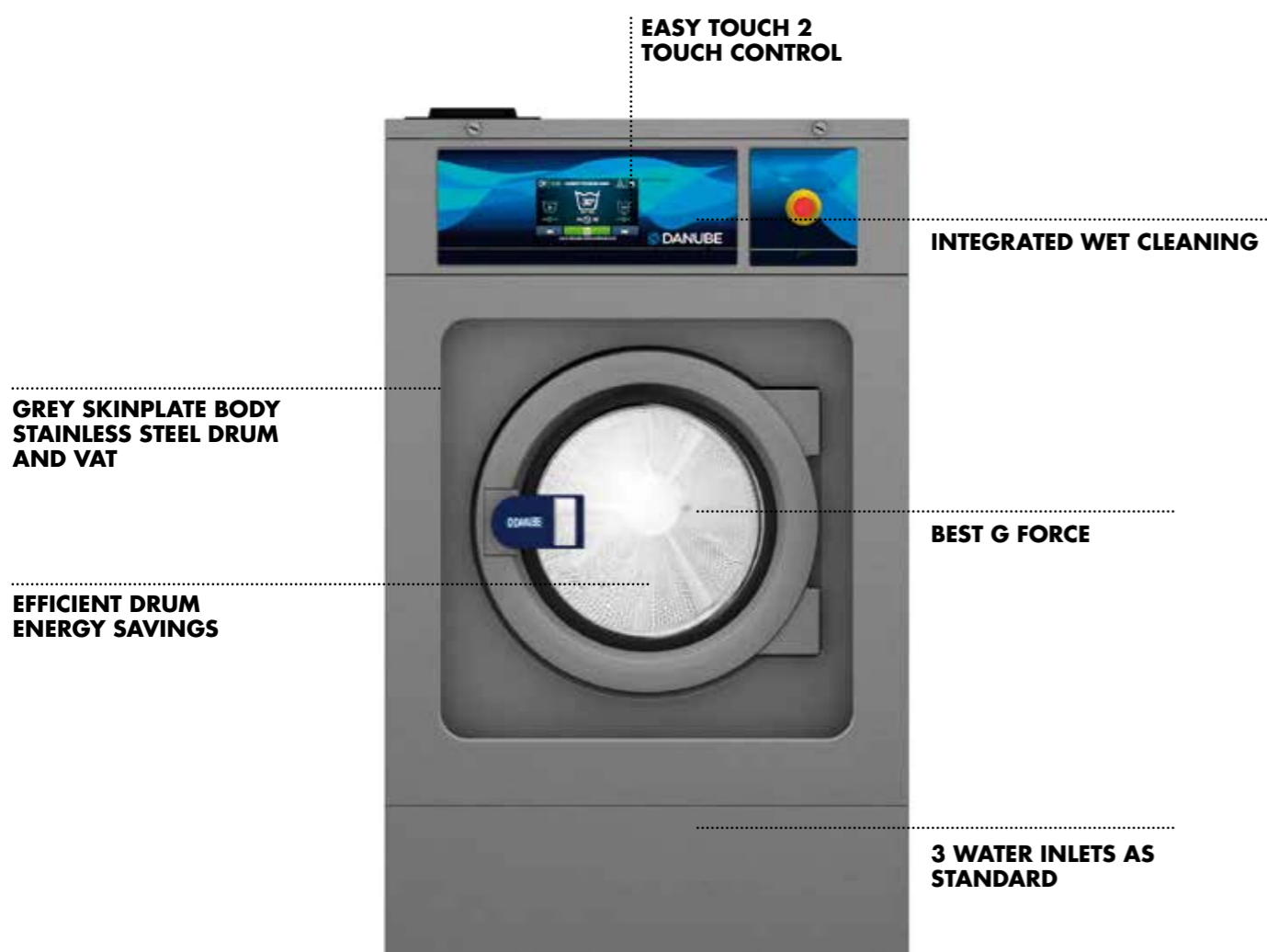


## WEN LOW SPIN

### G FACTOR 200 HARD MOUNTED

- ✓ Hard mounted washers
- ✓ Anchoring to floor with anchoring base
- ✓ 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)

# THE HIGHEST ACHIEVING ONE ON THE MARKET



## HIGH PERFORMANCE



### Easy Touch 2

- User friendly and totally programmable **7" EASY TOUCH 2**
- **USB Connection.** PC software free of charge for programming, traceability, data analyses...
- **Advertisements shown on display** (very useful for Self-service)
- **37 languages**
- **8 dosing signals as standard + optional 6 extra dosing signals**
- **29 preset programs**
- **Remote communication**
- **Traceability standard, Wet cleaning ready**



### Efficiency

- **Water savings :** Possibility of configuring three levels of savings
- **Optimal loading**
- **Water Recovery tanks ready (AQUABAC)**
- **Low water consumption.** Standard washing program consumes less than 10 liter of water per kg and cycle
- **High G-FACTOR.** Reduced residual moisture Reduced drying time
- **AQUA FLOW:** Bath water recirculation system
- **Intelligent consumption (standard):** automatic adjustment of water and detergent consumption



### G factor

- **High G-FACTOR** for all range of washers comparing with competitors
- G-FACTOR 450 for High spin washers
- G-FACTOR 300 for Medium spin washers
- G-FACTOR 200 for Normal spin washers
- **High G-Factor** reduces residual moisture and drying time



### Versatility

- **MAKE TO ORDER.** New possibility to customize the machines from factory with the 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



### Ergonomics

- Big loading door (ø 373 to 700 mm according to models)
- **Easy opening/closing system for door lock**
- **Plinths for 11, 14, 18, 27 and 36 Kg. models**
- Same level of loading door = 850 mm.



### Connectivity

- **Remote technical Service:** 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, traceability, laundry monitoring...)
- **Remote payment:** App for payment, cashless payment by scanning a QR code, promotions and machine booking



### Easy maintenance

- **Hinged panel.** Easy and ergonomic access to control panel parts
- **Same parts.** Most of the critical parts are the same for all models (contactors, electronic devices, gear...)
- **Easy Access to parts for reparability.** Washers are designed to make easier maintenance and reparability
- **Technical menu:** Statistics, alarms, autotest, data recovery for technicians and maintenance.



# Easy Touch 2

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.



## Programming

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



## USB connection

PC software (Wash Control) free of charge for programming, traceability, data analyses...



## Advertisements shown on display

Very useful for Self-service.



## Traceability

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.





# Efficiency

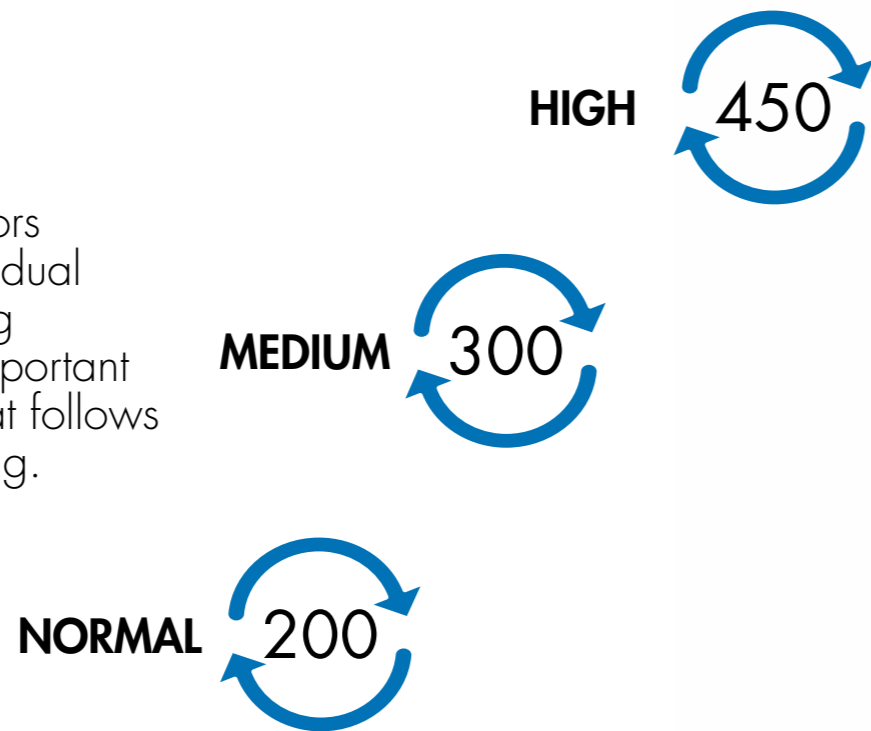
For laundries where the quality of the process and energy and water savings are a priority, the new DANUBE washer extractors offer a top performance and a renovated look to meet the needs of the most demanding customers.

Its advanced design has an important effect on the energetic efficiency and on water and chemicals saving, reducing its production costs and increasing the business productivity.



# G Factor

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.



## Water Savings

Possibility of configuring three levels of savings.

## High G FACTOR 450 for high spin machines

Reduced residual moisture. Reduced drying time.

## Low water consumption

Standard washing programme consumes less than 10 liters of water per kg and cycle.

## Optimal loading

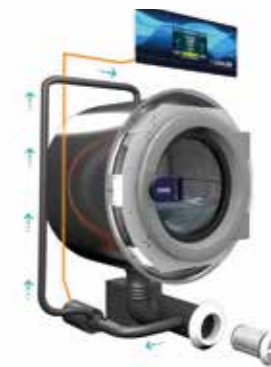
Efficient system which adapts the quantity of water and chemicals to the load.

## 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.



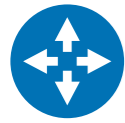
**AQUABAC**



Aqua-flow option: recirculation of the bath water to increase linen care.







# Versatility

Washer extractors between 10 and 36 kg are specially designed to be used for self-service businesses.

## Make to order: customization

New possibility to customize the machines from factory with many 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>

Our washers have all the features to use the wet cleaning programs.

Fully programmable control  
Accurate control of temperatures and levels of water  
Adjustable washing speed: very low (15 r.p.m.)  
Rhythm on/off of 1 sec/1 sec  
Manual control of each dosing signal



## OPL < > Coin

Easy transformation from an OPL to a COIN machine.

Three available options:

# 1



### Coin / Token

COINER KIT: there are several kits depending on the currency of each country, and can be used with a token token or mechanical coiner as well. There is also a new mechanical coiner kit. Both to be ordered with a coin box kit.



# 2



### Central Pay

The machines can be connected to the central pay with the central pay kit to control a single box with money.

# 3



### Remote payment

Remote communication ready (Ethernet).  
Remote programming and configuration of the machine.  
Remote desk and data recovery for technicians and maintenance.  
Multi-payable systems: Price programs, price update, etc.  
New software for coin OP laundries.



## Communication Protocol - Open System

DANUBE equipment is prepared to work with any external payment system (by means of multi-point data, with a simple communication protocol).





# Connectivity

DANUBE has the new IoT solution: a cloud based platform which allows many possibilities.



## Danube online

Transfer and manage laundry programs. Machine error warning, management for traceability and statistics. Remote desk and data recovery for technicians and maintenance.



THE INTERNET OF THINGS



**Bidirectional communication with the machine to offer a quick and close service, to update software or solve technical issues.**

### Remote communication

You can organize your connected devices as you wish, get full status monitoring, get geo-map viewing, etc.

### Manage coin OP laundries

DANUBE online allows you to monitor and manage your laundry business (i.e. create discount programs for customers).

### Multi-payable systems

Cashless payment by scanning a QR code.







## Ergonomics

As health and safety at work becomes an important issue, our equipment is designed to make it the most comfortable possible for the user.



### Biggest door diameters in the market

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

### Easy opening/closing system for door lock

### Reversible door

### Plinths for 11, 14, 18, 27 and 36 kg models

Same level of loading door = 850 mm



## Easy maintenance

One of DANUBE concern is to make life easier for our clients. That includes offering quality equipment and parts of reputed brands, which demand little maintenance.

### Easy access to parts

Washers are designed to offer an easy maintenance and reparability

### Technical menu

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

### Same parts

Most models share the same critical parts (contactors, electronic devices)

### Hinged panel

Easy and ergonomic access to control panel parts



## WASHER EXTRACTORS TECHNICAL DATA

	UNIT.	HIGH SPIN							
		WED11	WED14	WED18	WED27	WED36	WED45	WED60	WED120
<b>DRUM</b>									
Load capacity 1:9	Kg	11	14	20	28	39	50	67	133
Load capacity 1:10	Kg	10	13	18	25	35	45	60	120
Volume	lt	100	130	180	250	350	450	600	1200
Diameter	mm	532	620	700	770	860	918	1048	1360
Depth	mm	425	430	470	530	602	720	684	840
<b>GENERAL DETAILS</b>									
Washing speed	r.p.m.	50	50	47	45	42,5	42,5	38	34
Spining speed	r.p.m.	1231	1138	1071	1024	966	934	875	678
G Factor		450	450	450	450	450	450	450	350
Self-service version		YES	YES	YES	YES	YES	NO	NO	NO
Double drainage		OPT (external)	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Option 8 mm holes drum		NO	NO	NO	NO	NO	NO	NO	NO
Weighing System		OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Tilting System		NO	NO	NO	NO	NO	OPT	OPT	OPT
<b>DOOR</b>									
Height center door	mm	630	700	765	865	885	1190	1190	1330
Height base door	mm	370	440	450	560	540	830	830	900
Diameter	mm	373	373	460	460	560	560	560	700
<b>POWER</b>									
Motor	Kw	0,75	1,1	2,2	4	4	7,5	11	15
Heating (Electric model)	Kw	6	9	12	18	21	28,8	36	NO
Max. power (Electric model)	Kw	6,25	9,4	12,75	19,2	22	31,3	40	NO
Max. power (Steam model and hot water)	Kw	0,75	1,1	2,2	4	4	7,5	11	15
<b>CONNECTIONS</b>									
Water inlet	inch	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1-1/2"
Steam inlet	inch	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1-1/4"
Drain	inch	3"	3"	3"	3"	3"	3"	3"	4"
<b>DIMENSIONS</b>									
Width	mm	692	788	884	979	1095	1478	1478	1836
Depth	mm	788	869	913	1041	1184	1444	1444	1863
Height	mm	1185	1307	1415	1553	1598	1945	1945	2245
Net weight	Kg	230	250	360	490	750	1350	1400	3950
<b>PACKING DIMENSIONS</b>									
Width	mm	730	830	930	1040	1165	1540	1540	1900
Depth	mm	1000	1010	1030	1160	1230	1580	1580	1940
Height	mm	1417	1560	1700	1850	1920	1970	1970	2290
Gross weight	Kg	239	283	393	545	820	1420	1520	4100
Volume	m <sup>3</sup>	1,03	1,31	1,63	2,23	2,75	4,79	4,79	8,44

	UNIT.	MEDIUM SPIN				LOW SPIN					
		WEM11	WEM14	WEM18	WEM27	WEN11	WEN14	WEN18	WEN27	WEN36	WEN60
<b>DRUM</b>											
Load capacity 1:9	Kg	11	14	20	28	11	14	20	28	39	67
Load capacity 1:10	Kg	10	13	18	25	10	13	18	25	35	60
Volume	lt	100	130	180	250	100	130	180	250	350	600
Diameter	mm	620	620	700	770	620	620	700	770	860	1048
Depth	mm	330	430	470	530	330	430	470	530	602	684
<b>GENERAL DETAILS</b>											
Washing speed	r.p.m.	50	50	45	40	53	53	50	48	45	42,5
Spining speed	r.p.m.	929	929	874	836	759	759	714	682	644	505
G Factor		300	300	300	300	300	200	200	200	200	150
Self-service version		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Double drainage		OPT (external)	OPT (external)	OPT	OPT	OPT (external)	OPT (external)	OPT	OPT	OPT	OPT
Option 8 mm holes drum		NO	NO	NO	NO	YES	YES	YES	YES	YES	YES
Weighing System		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tilting System		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>DOOR</b>											
Height center door	mm	570	570	655	700	570	570	655	700	735	900
Height base door	mm	310	310	348	400	310	310	348	400	440	540
Diameter	mm	373	373	460	460	373	373	460	460	560	560
<b>POWER</b>											
Motor	Kw	1,1	1,1	2,2	3	1,1	1,1	2,2	3	4	5,5
Heating (Electric model)	Kw	6	9	12	18	6	9	12	18	21	28,8
Max. power (Electric model)	Kw	6,25	9,5	12,75	19	6,25	9,5	12,75	19	22	31,3
Max. power (Steam model and h. w.)	Kw	1,1	1,1	2,2	3	1,1	1,1	2,2	3	4	5,5
<b>CONNECTIONS</b>											
Water inlet	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Steam inlet	inch	1/2"	1/2"	1/2"	3/4"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
Drain	inch	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
<b>DIMENSIONS</b>											
Width	mm	719	719	788	884	719	719	788	884	979	1225
Depth	mm	684	830	840	1011	684	684	840	965	1066	1279
Height	mm	1158	1158	1307	1340	1158	1158	1307	1340	1411	1640
Net weight	Kg	217	239	281	340	217	239	281	340	473	930
<b>PACKING DIMENSIONS</b>											
Width	mm	800	800	840	930	800	800	840	950	1050	1360
Depth	mm	990	990	1010	1150	990	990	1010	1150	1250	1480
Height	mm	1350	1350	1500	1523	1350	1350	1500	1523	1600	1880
Gross weight	Kg	225	247	301	370	225	247	301	370	503	1050
Volume	m <sup>3</sup>	1,08	1,08	1,31	1,60	1,08	1,08	1,27	1,66	2,10	3,73

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



# FRONT LOADING WASHER EXTRACTORS

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