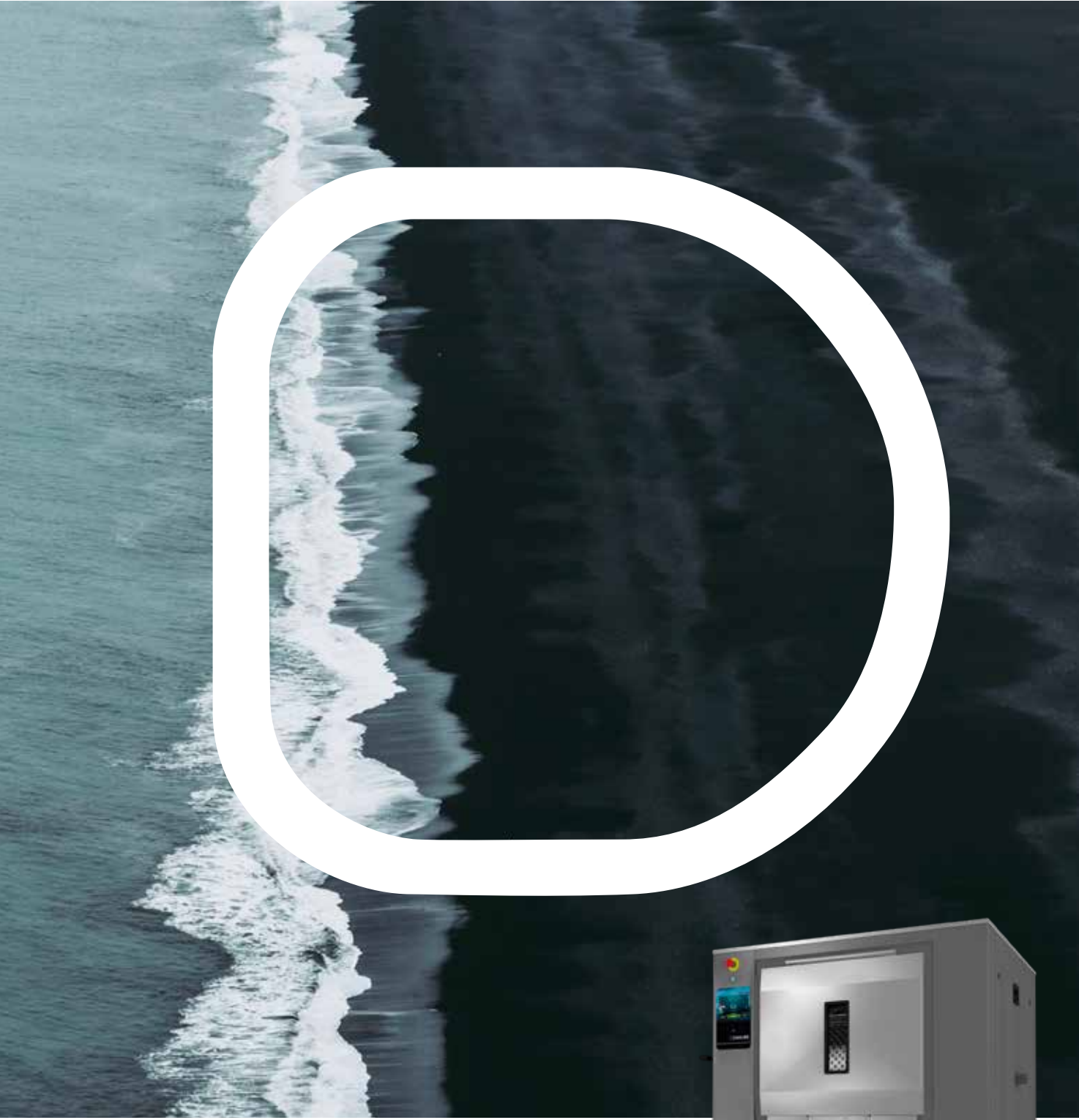


BARRIER WASHERS



BECAUSE HYGIENE MUST ALWAYS BE AN ABSOLUTE PRIORITY

Solutions to avoid cross contamination in hospitals, clean rooms, nursing homes or healthcare facilities do exist with barrier washers extractors. Since their first development by Danube International in 1984, they have been continually improved by our engineering dept.

New DANUBE range of barrier washers strictly complies with RABC standards offering safety, ergonomics and efficiency in the best possible working conditions. Specially designed to be located on either side of a partition wall thanks to their 180° opposite doors, they provide a highly valued solution to prevent contamination between soiled and clean linen.

4 different ranges are now available according to capacities and features:

- a new 90° barrier washers range coming with a 18 and 27 kg models,
- our range of MED-ET2 models, 16 and 22 kg, equipped now with a wide 7" touch screen,
- our range of DBW with capacities from 27 to 70 kg,
- our Pullman model also equipped with ET2 control.



RANGE OF MODELS

90° BARRIER WASHER

CONTROL TYPE	HEATING	CAPACITY	
		18 kg	27 kg
NEW EASY TOUCH 2 Microprocessor	Electric, steam or hot water	WEMB-18 ET2	WEMB-27 ET2

MEDICAL BARRIER WASHER

CONTROL TYPE	HEATING	CAPACITY	
		16 kg	22 kg
EASY TOUCH 2 Microprocessor	Electric, steam or dual heating	MED-16 ET2	MED-22 ET2

BARRIER WASHER

CONTROL TYPE	HEATING	CAPACITY			
		27 kg	35 kg	50 kg	70 kg
EASY TOUCH 2 Microprocessor	Electric, steam or dual heating	DBW-27 ET2	DBW-35 ET2	DBW-50 ET2	DBW-70 ET2

BARRIER WASHER - PULLMAN

CONTROL TYPE	HEATING	CAPACITY
		100 kg
EASY TOUCH 2 Microprocessor	Electric or steam	AS-100 ET2

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

RANGE 18-27 KG

RANGE 16-22 KG



WEMB 90° MEDIUM SPIN

G FACTOR 300 - HARD MOUNTED

- ✓ Hygienic barrier washer with 2 separate doors at 90°, to be built with a sanitary frame.
- ✓ Models of 18 and 27kg.
- ✓ Needs to be anchored to the floor (anchoring base to be ordered separately with the machine).
- ✓ G factor 300.
- ✓ ET2 7" touch screen microprocessor, only on the dirty side.
- ✓ Electric, hot water or steam heating.
- ✓ Outer casing in grey skinplate
- ✓ Vat and drum in stainless steel AISI 304
- ✓ 3 water inlets. 8 dosing signals. Option of 6 extra signals.
- ✓ Manual positioning of the drum.

MED HIGH SPIN

G FACTOR 350 SOFT MOUNTED

- ✓ Pass through barrier washer extractors, soft mounted, G factor 350, extraction speed 1000 RPM.
- ✓ Easy installation, no need of anchoring.
- ✓ Horizontally suspended drum by two axles.
- ✓ Outer casing in grey skinplate, top panel in stainless steel.
- ✓ Vat and drum in AISI 304 stainless steel.
- ✓ ET2 touch screen 7", control on dirty side. Double display as option.
- ✓ **Electric or steam heating. Dual heating model available.**
- ✓ 2 water inlets.
- ✓ 8 signals for dosing pumps, ready to be connected to dosing pumps.
- ✓ Central drain.
- ✓ Automatic positioning of drum.
- ✓ **New end of cycle light alarm as option.**

RANGE 27-35-50-70 KG



DBW HIGH SPIN

G FACTOR 375 SOFT MOUNTED

- ✓ Pass through barrier washer extractors, soft mounted, G factor 375, extraction speed 920 RPM.
- ✓ Easy installation, no need of anchoring.
- ✓ Horizontally suspended drum by two axles.
- ✓ Outer casing in grey skinplate, top panel in stainless steel.
- ✓ Vat and drum in AISI 304 stainless steel.
- ✓ ET2 touch screen 7", double display.
- ✓ **Electric or steam heating. Dual heating model available.**
- ✓ 3 water inlets.
- ✓ 8 signals for dosing pumps, ready to be connected to dosing pumps.
- ✓ Central drain.
- ✓ Automatic positioning of drum with electric brake.
- ✓ **New end of cycle light alarm as option.**

RANGE PULLMAN



PULLMAN HIGH SPIN

G FACTOR 325

- ✓ Pass through barrier washer extractors, soft mounted, G factor 325, extraction speed 750 RPM.
- ✓ Easy installation, no need of anchoring.
- ✓ Horizontally suspended drum by two axles, Pullman partition.
- ✓ Vat and drum in AISI 304 stainless steel.
- ✓ ET2 touch screen 7", double display.
- ✓ **Electric or steam heating. Dual heating as option.**
- ✓ 3 water inlets.
- ✓ Double drain.
- ✓ 8 signals for dosing pumps, ready to be connected to dosing pumps.
- ✓ Central drain.
- ✓ Automatic positioning of drum with electric brake.
- ✓ Needs compressed air for door opening (air pressure 4-7 bar, ø 8 mm, air consumption 10 NI/min).
- ✓ **New end of cycle light alarm as option.**

A PERFECT COMPLIANCE

WITH THE MOST DEMANDING STANDARDS





EASY TOUCH 2

- User friendly and fully programmable **EASY TOUCH 2**.
- **USB Connection**. PC software free of charge for programming, traceability, data analyses....
- Remote communication ready, printer as option.
- **Wet Cleaning, traceability as standard**
- Customization of programs according to each need.
- **Screen on both sides of the machine**: touch operated on dirty side, only displaying on clean side (DBW and Pullman models, optional on MED, not available on WEMB)
- **8 dosing signals as standard + optional 6 extra dosing signals**.
- **37 available languages**.



ERGONOMICS

- **Huge doors opening** making easier loading and unloading operations, biggest opening on the market (DBW35: drum 640x515 mm - Vat 700 x 650 mm).
- **User friendly drum opening by push button**.
- **Height of loading** (door bottom): 800 mm.
- Plinths for loading height at 850 mm as option.



EFFICIENCY

- **Water savings**: Possibility of configuring three levels of savings.
- **Intelligent consumption (standard)**: automatic adjustment of water and detergent consumption.
- **Optimal loading**.
- **Water Recovery tanks ready**.
- **Low water consumption**: less than 10 lt/kg and cycle (60°C standard cycle).
- **High G-FACTOR**: Reduced residual moisture, reduced drying time.
- **Automatic weighing system** on feet as option.



CONNECTIVITY

- **Remote technical Service**: machine monitoring, error warning, remote desk and data recovery for technicians and maintenance, software updates...
- **Management of laundry**: Danube IoT solution allows you to manage your laundry, get statistics, traceability, laundry monitoring...



EASY MAINTENANCE

- **Electric part on the left side, mechanics on the right side, connections on the top**: Easy access to all components, easier to connect, all connections protected from water and detergents.
- **Central drain as standard**: Easy installation.
- **Technical menu**: Statistics, alarms, autotest, data recovery for technicians and maintenance.
- **Many available options**:
Side drain.
Low steam pressure to enable installation of steam heated machines with very low pressure of steam on site.



FEATURES

- **Double display** (DBW and Pullman models, optional on MED, not available on WEMB).
- **Automatic positioning of drum with motor brake** to make easier the loading and unloading operations (DBW and Pullman, optional brake on MED).
- **3 water inlets** (WEMB, DBW and PULLMAN, optional on MED).
- **Grey skinplate outer casing and top panel in stainless steel**, easy to clean.
- **WET CLEANING**: equipped with all features to use Wet Cleaning programs (useful in nursing homes).
- Detergent box kit instead of standard dosing pumps ready.
- **Many available options**:
Dual heating electric - steam:
energy savings.
2nd drain valve for water recovery
Titration valve.
UPS kit to release drum brake in case of power failure.
AISI 304 stainless steel outer casing.



EASY TOUCH 2

Water Savings

3 possible levels of savings to reduce water, energy and detergents consumption based on the load.



37 languages

Available and easy to configurate, thanks to DANUBE aim to be accessible to everyone..



Touch Screen 7"

Coloured touch screen:
7" screen (on all models)
Fully programmable: 29 preset programs, customization of programs according to each need.

Wet Cleaning, traceability as standard

Equipped with all features to use wet cleaning programs (useful in nursing homes)
Adjustable washing speeds and temperatures
Fully regulation of water levels
8 dosing signals as standard + 6 extra as option



USB connection

PC software free of charge for programming, traceability, data analyses...





FEATURES

Outer casing in skinplate

and top panel in stainless steel, easy to clean. As option, AISI 304 stainless steel outer casing

3 water inlets

WEMB, DBW and Pullman models optional on MED

Automatic positioning of drum with motor brake

to make easier loading and unloading operations (except WEMB: manual).



Other options

Detergent box kit (instead of pumps)
Dual heating electric - steam: energy savings
2nd drain valve for water recovery
Titration valve



EFFICIENCY



High G-Factor reduces residual moisture and drying time



Low water consumption

Less than 10 liters of water per kg and cycle (standard washing cycle 60 °C)

Optimal loading

Automatic adjustment of water and soap consumptions according to the load manually indicated in the washer (standard)

Automatic weighing system on feet

As option (except WEMB and Pullman).



Prepared to be connected to water recovery tanks

Danube barrier washers from 16 to 35 kg, with ET2 and double drain, can be connected to the AQUABAC system, which allows the water recovery, achieving important water and energy savings



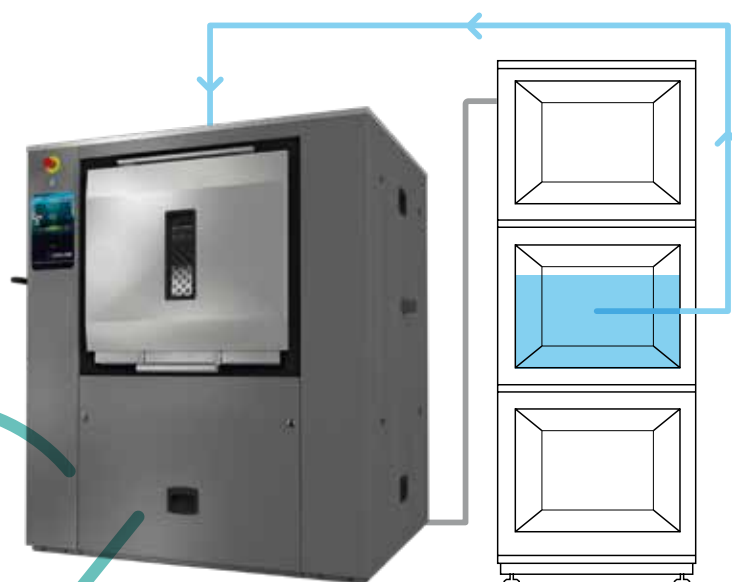
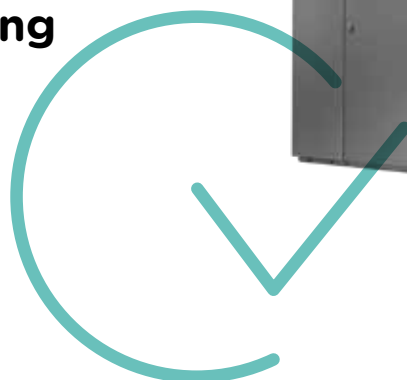
AQUABAC

Wide range

Models of 1, 2 or 3 tanks

Different volumes of 80 or 150 L

Water saving



WATER SAVING TANK 2
Water from first and/or second rinse



ERGONOMICS

As health and safety at work had become an important issue, our equipment is designed to be the most comfortable for users.

Huge door opening

Automatic adjustment of water and soap consumptions according to the load manually indicated in the washer (standard)

Huge doors

DBW 27 542 x 650 mm

DBW 35/50 700 x 650 mm

DBW 70 1402 x 650 mm

AS-100 960x700 mm

Ergonomic height of loading

(DBW: 800 mm, AS-100: 960 mm door base)

850 mm



Plinth for loading height at 850 mm door base

(DBW and MED models)

User friendly drum opening by push button



CONNECTIVITY



THE INTERNET OF THINGS

One thing that is a must nowadays is to stay
CONNECTED.

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

Remote technical service

Machine monitoring, machine error warning,
management for traceability and statistics.
Remote desk and data recovery for
technicians and maintenance, software update, etc.

Management of laundries

Our DANUBE IoT solution allows you to monitor and
manage your laundry business.



Bidirectional communication
with the machine to offer a
quicker and closer service, to
update software or to solve
technical issues.



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

Process control

Control of executed or running programs,
comparisons and historical and current
information will help you to ensure the
quality and hygiene of the process.



EASY MAINTENANCE

One of DANUBE concerns 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 components

Electric components on the left side, mechanic components on the right side, connections on the top. Easy access to all the components.

Easier to connect, all connections protected from water and detergents.

Central drain

Easy installation.

Technical menu

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

Other options

Side drain.

Low steam pressure: to enable installation of steam heated washer with very low steam pressure on site.



BARRIER WASHERS TECHNICAL DATA

	UNIT.	WEMB-18	WEMB-27	MED-16	MED-22	DBW-27	DBW-35	DBW-50	DBW-70	AS-100
DRUM										
Capacity 1:9	kg	20	28	18	25	30	39	54	78	100
Capacity 1:10	kg	18	25	16	22	27	35	49	70	90
Volume	l	180	250	158	220	266	347	489	694	900
Diameter	mm	700	770	633	633	800	800	800	800	1.050
Depth	mm	470	530	500	700	530	690	974	1.380	1.032
Number of compartments		1	1	1	1	1	1	1	2	2
GENERAL DETAILS										
Washing speed	r.p.m.	47	40	45	45	45	45	45	45	45
Spining speed	r.p.m.	874	836	1000	1000	920	920	920	920	750
G Factor	-	300	300	350	350	375	375	375	375	325
Double drain	-	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	STD
TOUCH II Screen	-	7"	7"	7"	7"	7"	7"	7"	7"	7"
Double display		NO	NO	OPT	OPT	STD	STD	STD	STD	STD
Electric brake		NO	NO	OPT	OPT	STD	STD	STD	STD	STD
Plinth of height		NO	NO	OPT	OPT	OPT	OPT	OPT	OPT	N/A
3 water inlets		STD	STD	OPT	OPT	STD	STD	STD	STD	STD
DOORS										
Drum doors dimensions	mm	350x350	350x350	400x315	400x315	480x515	640x515	640x515	2x(640x515)	900x500
Vat doors dimensions	mm	400x400	400x400	455x415	455x415	542x650	700x650	700x650	1402x650	960x700
Height base door	mm	348	400	670	670	800	800	800	800	960
POWER										
Motor	kW	2,2	2,2	2,2	2,2	4	4	5,5	7,5	15
Electric heating	kW	12	18	12	18	18	27	36	45	60
Max. power (electric heating)	kW	14,2	20,2	14,2	20,2	22	31	41,5	52,5	75
Max. power (steam model)	kW	2,2	2,2	2,2	2,2	4	4	5,5	7,5	15
CONNECTIONS										
Water inlet	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Steam inlet	inch	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Drain	inch	3"	3"	3"	3"	3"	3"	3"	3"	3"
Compressed air inlet	mm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8
MACHINE DIMENSIONS										
Length	mm	908	1004	984	1.184	1.201	1.359	1.654	2.061	1.677
Width	mm	840	1.011	914	914	1.098	1.098	1.098	1.098	1.346
Height	mm	1.307	1.340	1.398	1.398	1.581	1.581	1.581	1.581	1.964
Net weight	kg	331	390	438	471	886	926	1.063	1.190	1.900
PACKING DIMENSIONS										
Width	mm	950	1050	1.072	1.262	1.464	1.608	1.903	2.310	1.890
Depth	mm	1.010	1.150	1.102	1.102	1.300	1.300	1.300	1.300	1.540
Height	mm	1.500	1.523	1.530	1.530	1.742	1.742	1.742	1.742	2.150
Gross weight	kg	381	440	459	494	906	946	1.085	1.220	1.958
Volume	m ³	1,43	1,84	1,81	2,13	3,32	3,64	4,31	5,23	6,26

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

**BARRIER
WASHERS**

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ONNERA GROUP