

FRONT LOADING WASHER EXTRACTOR



 **DANUBE**

A WIDE AND VERSATILE RANGE

By
 **DANUBE**

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 EASY TOUCH 2 (ET2) microprocessor, this range combines high performance, ease of use, installation and maintenance.

Fully programmable, with a wide screen and an USB connection, the ET2 control 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 range. 4 new models have been added to the high spin range, more compact, in 35, 45, 100 and 120 kg. The normal spin range has been improved with two new capacities in 35 and 45 kg.



RANGE OF MODELS

HIGH SPIN - G FACTOR 450 - 350 SOFT MOUNTED										
CONTROL TYPE	HEATING	CAPACITY								
		10 - 11 kg	13 - 14 kg	18 - 20 kg	25 - 28 kg	NEW 35 - 39 kg	NEW 42-47 kg	60 - 67 kg	NEW 95-105 kg	NEW 115-128 kg
Microprocessor ET2	Electric, hot water & steam	WED-11 ET2	WED-14 ET2	WED-18 ET2	WED-27 ET2	WED-35C ET2	WED-45C ET2	WED-60 ET2	WED-100 C ET2	WED-120C ET2

MEDIUM SPIN - G FACTOR 300 HARD MOUNTED					
CONTROL TYPE	HEATING	CAPACITY			
		10 - 11 kg	13 - 14 kg	18 - 20 kg	25 - 28 kg
Microprocessor ET2	Electric, hot water & steam	WEM-11 ET2	WEM-14 ET2	WEM-18 ET2	WEM-27 ET2

NORMAL SPIN - G FACTOR 200 - 150 HARD MOUNTED								
CONTROL TYPE	HEATING	CAPACITY						
		10 - 11 kg	13 - 14 kg	18 - 20 kg	25 - 28 kg	NEW 35-39 Kg	NEW 42-47 kg	60 - 67 kg
Microprocessor ET2	Electric, hot water & steam	WEN-11 ET2	WEN-14 ET2	WEN-18 ET2	WEN-27 ET2	WEN-35C ET2	WEN-45C ET2	WEN60 ET2

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

Note: all models can be easily converted to coin mode with a coin kit or central pay, see coin section.

RANGE 11-14-18-27-35-45-60-100-120 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 need of anchorage to the floor, no extra costs.
- ✓ Savings due to high extraction of water. (about 47% residual humidity)

RANGE 11-14-18-27 KG

RANGE 11-14-18-27-35-45-60 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)

WEN NORMAL 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

**GREY SKINPLATE BODY
STAINLESS STEEL DRUM
AND VAT**

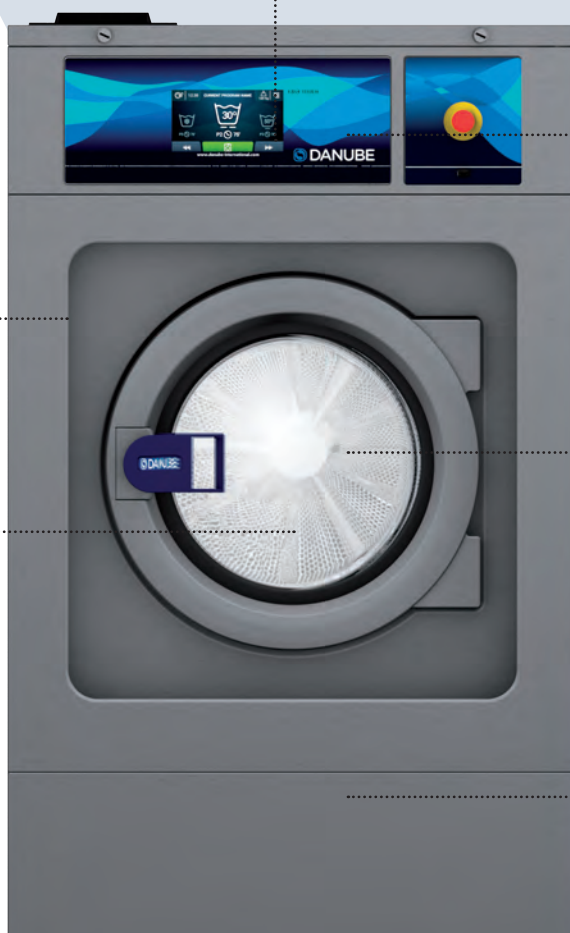
**EFFICIENT DRUM
ENERGY SAVINGS**

**EASY TOUCH 2
TOUCH CONTROL**

**INTEGRATED WET
CLEANING**

BEST G FORCE

**3 WATER INLETS AS
STANDARD**





EASY TOUCH 2

- User friendly and totally programmable **7" EASY TOUCH 2**.
- **USB Connection**. PC software free of charge for programming, traceability, data analyses....
- **Remote communication**.
- **Traceability 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**.
- **29 preset programs**.



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.



G FORCE

- **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.



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, 35 and 45 kg models**.
- Same level of the loading door = 850 mm.



EFFICIENCY

- **Water savings**: Possibility of configuring three levels of savings.
- **Intelligent consumption (standard)**: automatic adjustment of water and detergent consumption.
- **Optimal loading**.
- **Low water consumption**. less than 8,2 lt/kg and cycle (60°C standard cycle).
- **High G-FACTOR**. Reduced residual moisture. Reduced drying time.
- **Aqua flow**: recirculation of the bath water.
- **AQUABAC**: water recovery tanks ready.



EASY MAINTENANCE

- **Hinged panel**. Easy and ergonomic access to control panel parts.
- **Same parts for all models**. 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**: traceability, error diagnosis, machine monitoring, software update.



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 TOUCH 2

Programming

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



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

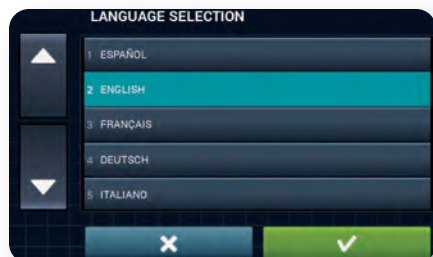
Wash Control: software to make programs from a PC and introduce into the washer by USB.

Remote Control: to access to the data in the washer and modify configuration or check technical information without need of visiting the customer.



IoT

Offers feedback from the machines to the device through the cloud, about traceability 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.

Advertisements shown on display

Very useful for Self-service.



USB connection

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



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



MEDIUM



NORMAL



Energy

Energy optimisation is fundamental in a laundry. Our machines have been designed for greater energy savings with this in mind.



Water

Saving water and using it properly are our goals, we do not want to waste it. We offer washing machines with optimized design and programming as well as a unique accessory, the AQUABAC: water recovery tanks.



Technology

We apply the latest technology to offer very efficient laundry machinery.



Chemicals

We design our washing machines with features to ensure the most accurate use of chemicals.



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.



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.

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

Less than 8,2 liters of water per kg and cycle (standard washing cycle 60 °C).

Optimal loading

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

Aqua-flow option

Recirculation of the bath water to increase linen care.





VERSATILITY

Washer extractors between 10 and 35 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[®]

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.



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



Dealers

You will receive the current historical information of the machines, their operation, current status and much more, so that you can give the best customer support.

- + communication
- + usability
- + control



Technical service

Remote information on machine status, error reporting, history, to facilitate anytime software updates and immediate diagnostics, as well as to reduce technical interventions and trips.

- + information
- + accuracy
- + control



Chemical partners

The knowledge that DANUBE Online provides about wash cycles greatly facilitates the work of chemical partners. An analysis of the processes and study of the results ensures optimal washing, achieving the main objective: maximum hygiene.

- + information
- + ease



Client



Signing up to DANUBE Online is the most convenient option for operating from your mobile phone: when you need a laundrette, select the nearest shop, reserve the machine and on completion, pay using your mobile phone.



You can also receive statistics about all your washes and take advantage of special deals.



THE INTERNET OF THINGS



Owners

DANUBE on line gives you the peace of mind of having control of your business. All you need to do is connect your machines to internet (using an Ethernet cable) and you can supervise your business from home or the office, without physically travelling to the laundry.

Customers require reliability and efficiency, and you want to offer them this. Traceability of the washing and drying cycles is vital for ensuring **maximum hygiene**.

Configure the dashboards, profiles and graphs which best help you to assess and closely monitor your business or businesses in real time. You can view historical or progress data, by machine or groups.

Fast action implies efficiency for your business. Confirm technical information such as the state of the machine, historical data, breakdowns and errors, in order to have the machine back up and running as fast as possible.

Share the information and management with whoever you choose: internal or external technicians, collaborators, for the mutual benefit of all.

Prepare special offers, send out news and reach your customers directly to win their loyalty.



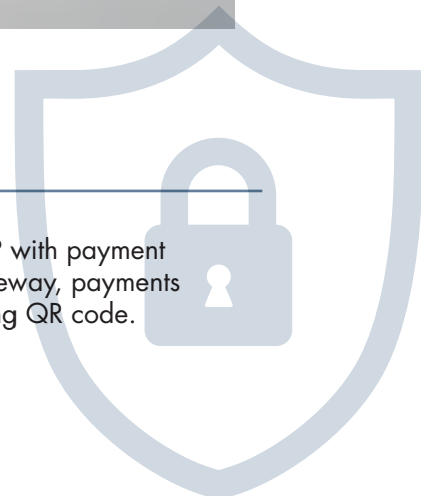
Extremely safe communication

The APP notifies you of the end of the cycle via e-mail.

Manage and organise your expenditure with information such as accumulated turnover.

You will receive special offers, discounts and news conveniently on your mobile phone.

APP with payment gateway, payments using 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.

Plinths for 11, 14, 18, 27 and 35 kg models

Same level of loading .
door = 850 mm.

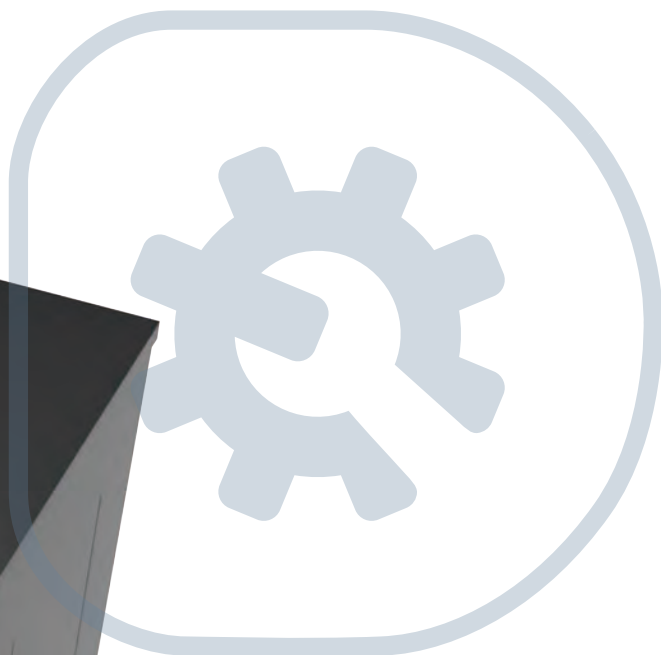
Reversible door

Easy opening/closing system for door lock



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.

Hinged panel

Easy and ergonomic access to control panel parts.

Same parts

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

Technical menu

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

WASHER EXTRACTORS TECHNICAL DATA

	UNIT.	HIGH SPIN								
		WED-11	WED-14	WED-18	WED-27	WED-35C	WED-45C	WED-60	WED-100C	WED-120C
DRUM										
Load capacity 1:9	Kg	11	14	20	28	39	47	67	105	128
Load capacity 1:10	Kg	10	13	18	25	35	42	60	95	115
Volume	lt	100	130	180	250	350	420	600	950	1.150
Diameter	mm	532	620	700	770	860	860	1.048	1360	1.360
Depth	mm	425	430	470	530	602	723	684	654	792
GENERAL DETAILS										
Washing speed	r.p.m.	50	50	47	45	42,5	42,5	38	34	34
Spining speed	r.p.m.	1.231	1.138	1.071	1.024	966	966	875	678	678
Factor G	-	450	450	450	450	450	450	450	350	350
Noise level	dB	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Self-service version	-	YES	YES	YES	YES	YES	NO	NO	NO	NO
Double drainage	-	EXTER. - OPC	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Weighing System	-	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Tilting System		NO	NO	NO	NO	NO	NO	OPT	OPT	OPT
Option SLUICE	-	NO	NO	NO	NO	NO	NO	NO	NO	NO
DOOR										
Height center door	mm	630	700	765	865	885	885	1.190	1.330	1.330
Height base door	mm	370	440	450	560	540	540	830	900	900
Diameter	mm	373	373	460	460	560	560	560	700	700
POWER										
Motor	Kw	0,75	1,1	2,2	4	6	6	11	15	15
Heating (Electric model)	Kw	6	9	12	18	21	21	36	-	-
Max. power (Electric model)	Kw	6,25	9,4	12,75	19,2	23	23	40	-	-
Max. power (Steam model and hot water)	Kw	0,75	1,1	2,2	4	6	6	11	15	15
CONNECTIONS										
Steam inlet	inch	1/2"	1/2"	1/2"	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"	1"	1-1/2"	1-1/2"
Drain	inch	3"	3"	3"	3"	3"	3"	3"	4"	4"
DIMENSIONS										
Width	mm	692	788	884	979	1.095	1.095	1.478	1.815	1.815
Depth	mm	788	869	913	1.041	1.184	1.304	1.444	1.690	1.828
Height	mm	1.185	1.307	1.415	1.553	1.598	1.598	1.945	2.245	2.245
Net weight	Kg	230	250	360	490	750	800	1.400	3.900	3.950
PACKING DIMENSIONS										
Width	mm	730	850	945	1.040	1.165	1.165	1.540	1.900	1.900
Depth	mm	1.000	1.010	1.030	1.160	1.230	1.480	1.580	1.940	1.940
Height	mm	1.417	1.560	1.700	1.850	1.920	1.920	1.970	2.290	2.290
Gross weight	Kg	239	283	393	545	820	870	1.520	4.050	4.100
Volume	m³	1,03	1,34	1,65	2,23	2,75	3,31	4,79	8,44	8,44

	UNIT.	MEDIUM SPIN				LOW SPIN						
		WEM-11	WEM-14	WEM-18	WEM-27	WEN-11	WEN-14	WEN-18	WEN-27	WEN-35C	WEN-45C	WEN-60
DRUM												
Load capacity 1:9	Kg	11	14	20	28	11	14	20	28	39	47	67
Load capacity 1:10	Kg	10	13	18	25	10	13	18	25	35	42	60
Volume	lt	100	130	180	250	100	130	180	250	350	420	600
Diameter	mm	620	620	700	770	620	620	700	770	860	860	1048
Depth	mm	330	430	470	530	330	430	470	530	602	723	684
GENERAL DETAILS												
Washing speed	r.p.m.	50	50	47	40	50	50	47	40	45	45	42,5
Spining speed	r.p.m.	932	929	874	836	762	762	714	682	644	644	505
Factor G	-	300	300	300	300	200	200	200	200	200	200	150
Noise level	dB	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Self-service version	-	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Double drainage	-	OPT (external)	OPT (external)	OPT	OPT	NO	OPT	OPT	OPT	OPT	OPT	OPT
Weighing System	-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tilting System		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Option SLUICE	-	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	NO
DOOR												
Height center door	mm	570	570	655	700	570	570	655	700	735	735	900
Height base door	mm	310	310	348	400	310	310	348	400	440	440	540
Diameter	mm	373	373	460	460	373	373	460	460	560	560	560
POWER												
Motor	Kw	1,1	1,1	2,2	3	1,1	1,1	2,2	3	4	6	5,5
Heating (Electric model)	Kw	6	9	12	18	6	9	12	18	21	21	36
Max. power (Electric model)	Kw	6,3	9,5	12,75	19	6,3	9,5	12,75	19	22	23	38
Max. power (Steam model and h. w.)	Kw	1,1	1,1	2,2	3	1,1	1,1	2,2	3	4	6	5,5
CONNECTIONS												
Steam inlet	inch	1/2"	1/2"	1/2"	3/4"	1/2"	1/2"	1/2"	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"	3/4"	3/4"	3/4"	3/4"
Drain	inch	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
DIMENSIONS												
Width	mm	719	719	788	884	719	719	788	884	979	979	1225
Depth	mm	684	830	840	1.011	684	830	840	965	1.066	1.200	1.279
Height	mm	1.158	1.158	1.307	1.340	1.158	1.158	1.307	1.340	1.411	1.411	1.640
Net weight	Kg	217	239	281	340	217	239	281	340	473	523	930
PACKING DIMENSIONS												
Width	mm	800	800	840	930	800	800	840	930	1.050	1.050	1.360
Depth	mm	990	990	1.010	1.150	990	990	1.010	1.150	1.250	1.480	1.480
Height	mm	1.350	1.350	1.500	1.523	1.350	1.350	1.500	1.523	1.670	1.670	1.880
Gross weight	Kg	225	247	301	370	225	247	301	370	503	553	1.050
Volume	m³	1,07	1,07	1,27	1,63	1,07	1,07	1,27	1,63	2,19	2,59	3,78

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

FRONT LOADING WASHER EXTRACTOR

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ONNERA GROUP