



FWS-25-30-40 TP2 NORMAL SPIN

G FORCE = 200 | 25 - 30 - 40 LBS

RELIABILITY AND ROBUSTNESS

WITHIN REACH OF ALL.

TOUCH
PLUS
CONTROL

EFFICIENT
MIX

BALANCE
CONTROL

MULTI-
CHOICE
INLET

WET
CLEANING

MAINT.
KARE

OPTIMIZED
DRUM

OPTIMAL
CONSUMP.

CHARACTERISTICS

- G Force = 200.
- Hard-mounted machines. Require anchoring to the floor.
- Drum and jacket in AISI-304 stainless steel.
- Unit exterior manufactured in sandwich board, colour grey, stainless steel appearance, easy to clean, and which does not reflect fingerprints.
- Detergent tray with 4 compartments.
- 8 signals for automatic liquid dosing, programmable in time and delay. 6 extra signals available optionally.
- 3 standard water inlets.
- Variable-frequency drive (standard 50-60 Hz). Balancing systems controlled by the same drive.
- New second-generation TOUCH PLUS programmer with 7" touch screen in colour, 37 available languages and which lets you create an indefinite number of programs (29 pre-set), as well as play videos.
- Allows programming, importing and exporting of programs and software updates via USB.
- Traceability as standard: the whole wash process (temperatures, water levels) is stored on the washer and is extractable to a PC by USB memory.
- The programmer includes the characteristics to create any Wet Cleaning program (modifiable water levels and washing speed).
- EFFICIENT MIX. These machines are equipped with an automatic water mixer (mixing different water temperatures) which provides energy savings and reduces washing times.
- BALANCE CONTROL. Thanks to an advanced technological development, and by means of the inverter, the washers detect the imbalance at an early stage. This way the operation is much smoother, elongating components lifetime and reducing washing times, thus saving energy as well.
- MULTICHOICE INLET. All washers are equipped with a third water inlet as standard, which allows you to save filling time, or which can be used for decalcified water, ozone or recycled water.
- WET CLEANING. All washers incorporate the necessary features to use the WET CLEANING system as standard, avoiding investment in expensive applications to work with this advanced washing concept. This feature replaces most dry-cleaning washing systems, bringing maximum reduction in costs.
- MAINTENANCE KARE. A simple and reliable design with easy-to-access mechanical parts that combines perfectly with the use of intelligent electronics. All components have been designed and manufactured with top quality and prestige, focusing on optimum accessibility for all points and components key to maintenance. Moreover, all the controls have been developed down to the finest detail: complete technical menus, fault self-diagnosis systems, alarms, restricted access areas, etc.
- OPTIMISED DRUM. This system has been developed to improve wash quality to the maximum and to do it in as short a time as possible. Through a series of perforations

- in the paddles of the drum, a water cascade effect is achieved which considerably increases the mechanical action inside the drum during operation and greatly reduces the amount of water needed for each wash. The effective design of the drum and tank with minimal spaces between them, allows the energy consumption necessary to heat the water, as well as the superfluous use of chemical products, to be reduced.
- OPTIMAL CONSUMPTION. All washers are equipped with an efficient system by means of which you can indicate the load which is introduced in the machine. The washer automatically adapts the quantity of water and chemicals to be used for that load.
 - "LOADING AID" system. Water inlet and spin control for loading the linen.
 - The standard model can be converted to self-service by installing a pay station kit, coin mechanism kit or other payment system.RS-485 communication.
 - Washers compatible with water recovery tanks.

OPTIONS:

- Anchoring base as an option for correct fixation to the floor.
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Reversible door opening.
- Silicone seal for 25 and 30 lbs models.
- 6 extra signals for dosing
- Timed opening system.
- Printer.
- Shower system: water recirculation for very delicate linen (wet cleaning complement).
- Marine electric versions for ships.
- Tropicalised models with protective covering for the electronics system.
- SLUICE option. Essential for wash processes of sheets and other fabrics with solid contamination. Ø 8 mm perforations in the drum which facilitate the outlet of solid waste.



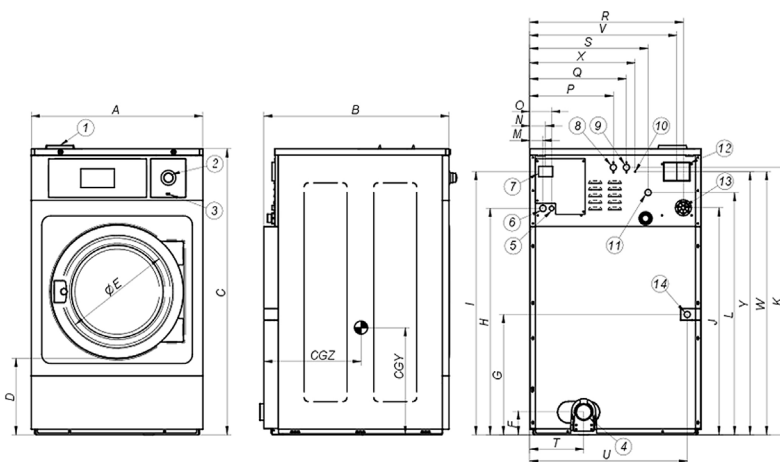
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TECHNICAL DATA

	UNIT.	FWS-25	FWS-30	FWS-40			
DRUM							
Load capacity 1:9 / 1:10	lbs	24/22	31/29	44/42			
Volume	CU.FT	3.5	4.5	6			
Diameter	in	24.4	24.4	27.55			
Depth	in	13	16.92	18.50			
GENERAL DATA							
Wash speed / Spin speed	r.p.m.	53/759	53/759	50/714			
G Force	-	200	200	200			
Maximum force transmitted	kN	2.0 ±3	2.31 ±4	2.63 ±5			
Dynamic force frequency	Hz	8.93	8.93	8.42			
Noise level	dB	< 70	< 70	< 70			
Self-service version	-	Yes	Yes	Yes			
Double drain	-	No	Opt.	Opt.			
Weighing system		No	No	No			
SLUICE option	-	Yes	Yes	Yes			
DOOR							
Height door centre / Height door base	in	570/310	570/310	655 / 348			
Diameter	in	373	373	460			
POWER							
Motor	Hp	1.48	1.48	2.9			
Heating electric mod.	kW	6	9	12			
Maximum electrical power	kW	6.25	9.5	12.75			
Maximum steam and hot water power	kW	1.1	1.1	2.15			
CONNECTIONS		ELECTRIC	STEAM / HOT WATER	ELECTRIC	STEAM / HOT WATER	ELECTRIC	STEAM / HOT WATER
Voltage 230V - I	Nº x mm² / A	3 x 6 / 32 A	3 x 1.5 / 6 A	3 x 10 / 50 A	3 x 1.5 / 6 A	3 x 16 / 63 A	3 x 1.5 / 10 A
Voltage 230V - III	Nº x mm² / A	4 x 2.5 / 20 A	-	4 x 2.5 / 32 A	-	4 x 6 / 40 A	-
Voltage 400V - III + N	Nº x mm² / A	5 x 1.5 / 16 A	-	5 x 1.5 / 16 A	-	5 x 4 / 32 A	-
Steam inlet (Steam mod.)	inch	1/2"		1/2"		1/2"	
Maximum steam consumption (Steam. mod.)	lbs/h	15.5		18.8		26.5	
Water inlet	inch	3/4"		3/4"		3/4"	
Grid pressure	kg/cm²	2-4		2-4		2-4	
Maximum water consumption *	Gal/h	15.80		21		31.35	
Drain	mm/inch	3"		3"		3"	
Drainage capacity	gal/min	52.8		52.8		52.8	
DIMENSIONS / DIMENSIONS WITH PACKAGING							
Width / Width	in	28.3 / 31.5		28.3 / 31.5		31 / 33	
Depth / Depth	in	26.4 / 39		32.67 / 39		33 / 39.76	
Height / Height	in	45.59 / 53.14		45.59 / 53.14		51.45 / 59	
Net weight / Gross weight	lbs	478 / 496		526 / 545		620 / 664	
Gross volume (with packaging)	ft3	37.8		37.8		46	

* Program n° 20, 75 % load.



- ① Soap dispenser.
- ② Emergency stop.
- ③ USB port.
- ④ Drain.
- ⑤ Electrical connection to liquid soap pumps.
- ⑥ Electrical connection.
- ⑦ Main switch.
- ⑧ Auxiliary water inlet.
- ⑨ Hot water inlet.
- ⑩ Earth connection.
- ⑪ Cold water inlet.
- ⑫ Water overflow.
- ⑬ Connection for liquid soap.
- ⑭ Steam connection.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	CGZ	CGY
FWS-25 TP2	28,31	26,93	45,59	12,20	14,69	5,67	17,32	34,88	41,50	35,00	42,24	37,72	2,40	2,91	3,98	12,44	14,80	25,08	18,70	8,31	25,75	23,90	42,24	16,69	44,02	15,08	20,12
FWS-30 TP2	28,31	32,68	45,59	12,20	14,69	5,67	17,32	34,88	41,50	35,00	42,24	37,72	2,40	2,91	3,98	12,44	14,80	25,08	18,70	8,31	25,75	23,90	42,24	16,69	44,02	15,08	20,12
FWS-40 TP2	31,02	33,07	51,46	13,70	18,11	4,25	21,73	40,75	47,36	40,87	48,11	43,58	2,40	2,91	3,98	15,16	17,52	27,80	21,42	9,80	28,50	26,61	47,36	19,09	47,32	18,86	21,50



FWS-60-80 TP2

NORMAL SPIN

G FORCE = 200 | 60 - 80 lbs

RELIABILITY AND ROBUSTNESS

WITHIN REACH OF ALL.

TOUCH PLUS CONTROL

EFFICIENT MIX

BALANCE CONTROL

MULTI-CHOICE INLET

WET CLEANING

MAINT. KARE

OPTIMIZED DRUM

OPTIMAL CONSUMP.

CHARACTERISTICS

- **G Force = 200.**
- Hard-mounted machines. Require anchoring to the floor.
- Drum and jacket in AISI-304 stainless steel.
- Unit exterior manufactured in sandwich board, colour grey, stainless steel appearance, easy to clean, and which does not reflect fingerprints.
- Detergent tray with 4 compartments.
- 8 signals for automatic liquid dosing, programmable in time and delay. 6 extra signals available optionally.
- 3 standard water inlets.
- Variable-frequency drive (standard 50-60 Hz). Balancing systems controlled by the same drive.
- **New second-generation TOUCH PLUS programmer with 7" touch screen in colour**, 37 available languages and which lets you create an indefinite number of programs (29 pre-set), as well as play videos.
- Allows programming, importing and exporting of programs and software updates via USB.
- Traceability as standard: the whole wash process (temperatures, water levels) is stored on the washer and is extractable to a PC by USB memory.
- The programmer includes the characteristics to create any Wet Cleaning program (modifiable water levels and washing speed).
- **EFFICIENT MIX.** These machines are equipped with an automatic water mixer (mixing different water temperatures) which provides energy savings and reduces washing times.
- **BALANCE CONTROL.** Thanks to an advanced technological development, and by means of the inverter, the washers detect the imbalance at an early stage. This way the operation is much smoother, elongating components lifetime and reducing washing times, thus saving energy as well.
- **MULTI-CHOICE INLET.** All washers are equipped with a third water inlet as standard, which allows you to save filling time, or which can be used for decalcified water, ozone or recycled water.
- **WET CLEANING.** All washers incorporate the necessary features to use the WET CLEANING system as standard, avoiding investment in expensive applications to work with this advanced washing concept. This feature replaces most dry-cleaning washing systems, bringing maximum reduction in costs.
- **MAINTENANCE KARE.** A simple and reliable design with easy-to-access mechanical parts that combines perfectly with the use of intelligent electronics. All components have been designed and manufactured with top quality and prestige, focusing on optimum accessibility for all points and components key to maintenance. Moreover, all the controls have been developed down to the finest detail: complete technical menus, fault self-diagnosis systems, alarms, restricted access areas, etc.
- **OPTIMISED DRUM.** This system has been developed to improve wash quality to the maximum and to do it in as short a time as possible. Through a series of perforations

in the paddles of the drum, a water cascade effect is achieved which considerably increases the mechanical action inside the drum during operation and greatly reduces the amount of water needed for each wash. The effective design of the drum and tank with minimal spaces between them, allows the energy consumption necessary to heat the water, as well as the superfluous use of chemical products, to be reduced.

- **OPTIMAL CONSUMPTION.** All washers are equipped with an efficient system by means of which you can indicate the load which is introduced in the machine. The washer automatically adapts the quantity of water and chemicals to be used for that load.
- **"LOADING AID" system.** Water inlet and spin control for loading the linen.
- The standard model can be converted to self-service by installing a pay station kit, coin mechanism kit or other payment system.RS-485 communication.
- Washers compatible with water recovery tanks.

OPTIONS:

- Anchoring base as an option for correct fixation to the floor.
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Reversible door opening.
- 6 extra signals for dosing
- Timed opening system.
- Printer.
- Shower system: water recirculation for very delicate linen (wet cleaning complement).
- Marine electric versions for ships.
- Tropicalised models with protective covering for the electronics system.
- **SLUICE option.** Essential for wash processes of sheets and other fabrics with solid contamination. Ø 8 mm perforations in the drum which facilitate the outlet of solid waste.



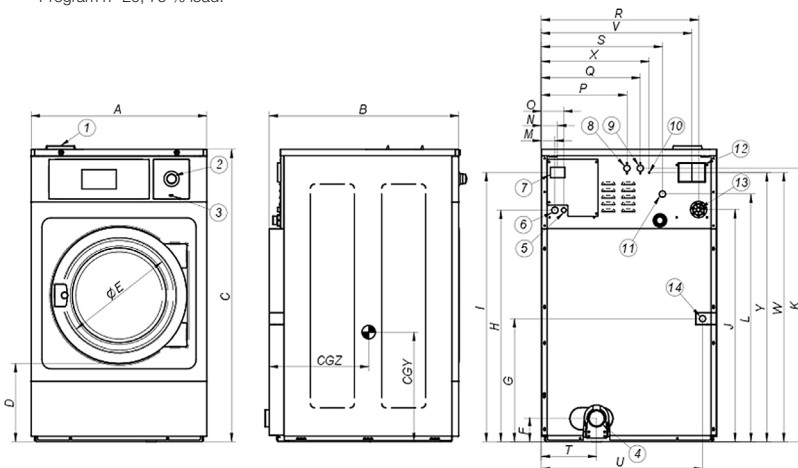
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TECHNICAL DATA

	UNIT.	FWS - 60 TP2	FWS - 80 TP2		
DRUM					
Load capacity	lbs	62/55	86/77		
Volume	CU.FT	9	12		
Diameter	in	30.3	33.85		
Depth	in	20.8	23.7		
GENERAL DATA					
Wash speed / Spin speed	r.p.m,	48/682	45/644		
G Force	-	200	200		
Maximum force transmitted	kN	3.53 ±6	4.59 ±8		
Dynamic force frequency	Hz	8.02	7.58		
Noise level	dB	< 70	< 70		
Self-service version	-	Yes	Yes		
Double drain	-	Opt.	Opt.		
Weighing system		No	No		
SLUICE option	-	Yes	Yes		
DOOR					
Height door centre / Height door base	in	27.55 / 15.75	28.9 / 17.3		
Diameter	in	18.15	22		
POWER					
Motor	Hp	4	5.36		
Heating electric mod,	kW	18	21		
Maximum electrical power	kW	19	22		
Maximum steam and hot water power	kW	3	4		
CONNECTIONS		ELECTRIC	STEAM / HOT WATER	ELECTRIC	STEAM / HOT WATER
Voltage 230V - I	Nº x mm² / A	-	3 x 4 / 16 A	-	3 x 4 / 20 A
Voltage 230V - III	Nº x mm² / A	4 x 16 / 63 A	-	4 x 16 / 63 A	-
Voltage 400V - III + N	Nº x mm² / A	5 x 4 / 32 A	-	5 x 6 / 40 A	-
Steam inlet (Steam mod,)	inch	3/4"		3/4"	
Maximum steam consumption (Steam, mod,)	lbs/h	33		40	
Water inlet	inch	3/4"		3/4"	
Grid pressure	kg/cm²	2-4		2-4	
Maximum water consumption *	Gal/h	43.53		52.72	
Drain	mm/inch	3"		3"	
Drainage capacity	gal/min	52.8		52.8	
DIMENSIONS / DIMENSIONS WITH PACKAGING					
Width / Width	in	34.8/ 36.61		38.54/ 41.33	
Depth / Depth	in	39.80 / 45.27		41.96 / 49.81	
Height / Height	in	52.76 / 59.90		55.55 / 63	
Net weight / Gross weight	lbs	749 / 815		1043 / 1109	
Gross volume (with packaging)	ft3	56.5		74.1	

* Program n° 20, 75 % load.



- ① Soap dispenser.
- ② Emergency stop.
- ③ USB port.
- ④ Drain.
- ⑤ Electrical connection to liquid soap pumps.
- ⑥ Electrical connection.
- ⑦ Main switch.
- ⑧ Auxiliary water inlet.
- ⑨ Hot water inlet.
- ⑩ Earth connection.
- ⑪ Cold water inlet.
- ⑫ Water overflow.
- ⑬ Connection for liquid soap.
- ⑭ Steam connection.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	CGY	CGZ
FWS-60 TP2	34,80	37,99	52,76	15,75	18,11	5,71	21,57	41,85	48,43	41,93	49,21	44,69	2,40	2,91	3,98	16,85	20,00	31,54	25,16	10,55	32,28	30,35	48,03	23,62	50,39	23,27	21,38
FWS-80 TP2	38,54	41,97	55,55	14,57	22,05	5,79	24,53	44,84	51,46	43,94	52,05	47,68	2,40	2,91	3,98	18,94	22,09	33,90	26,50	10,31	36,10	32,72	50,43	24,57	53,82	25,00	26,85



FWS-135 TP2 NORMAL SPIN

G FORCE = 150 | 135 lb

RELIABILITY AND ROBUSTNESS

WITHIN REACH OF ALL



CHARACTERISTICS

- G Force = 150
- Hard-mounted machines. Require anchoring to the floor.
- Drum and jacket in AISI-304 stainless steel.
- Unit exterior manufactured in sandwich board, colour grey, stainless steel appearance, easy to clean, and which does not reflect fingerprints.
- Detergent tray with 4 compartments.
- 8 signals for automatic liquid dosing, programmable in time and delay. 6 extra signals available optionally.
- 3 standard water inlets.
- Variable-frequency drive (standard 50-60 Hz). Balancing systems controlled by the same drive.
- New second-generation TOUCH PLUS programmer with 7" touch screen in colour, 37 available languages and which lets you create an indefinite number of programs (29 pre-set), as well as play videos.
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- The programmer includes the characteristics to create any Wet Cleaning program (modifiable water levels and washing speed).
- EFFICIENT MIX. These machines are equipped with an automatic water mixer (mixing different water temperatures) which provides energy savings and reduces washing times.

- BALANCE CONTROL. Thanks to an advanced technological development, and by means of the inverter, the washers detect the imbalance at an early stage. This way the operation is much smoother, elongating components lifetime and reducing washing times, thus saving energy as well.
- MULTICHOICE INLET. All washers are equipped with a third water inlet as standard, which allows you to save filling time, or which can be used for decalcified water, ozone or recycled water.
- WET CLEANING. All washers incorporate the necessary features to use the WET CLEANING system as standard, avoiding investment in expensive applications to work with this advanced washing concept. This feature replaces most dry-cleaning washing systems, bringing maximum reduction in costs.
- MAINTENANCE KARE. A simple and reliable design with easy-to-access mechanical parts that combines perfectly with the use of intelligent electronics. All components have been designed and manufactured with top quality and prestige, focusing on optimum accessibility for all points and components key to maintenance. Moreover, all the controls have been developed down to the finest detail: complete technical menus, fault self-diagnosis systems, alarms, restricted access areas, etc.
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- in the paddles of the drum, a water cascade effect is achieved which considerably increases the mechanical action inside the drum during operation and greatly reduces the amount of water needed for each wash. The effective design of the drum and tank with minimal spaces between them, allows the energy consumption necessary to heat the water, as well as the superfluous use of chemical products, to be reduced.
- OPTIMAL CONSUMPTION. All washers are equipped with an efficient system by means of which you can indicate the load which is introduced in the machine. The washer automatically adapts the quantity of water and chemicals to be used for that load.
 - "LOADING AID" system. Water inlet and spin control for loading the linen.
 - The standard model can be converted to self-service by installing a pay station kit, coin mechanism kit or other payment system.RS-485 communication.
 - Washers compatible with water recovery tanks.

OPTIONS:

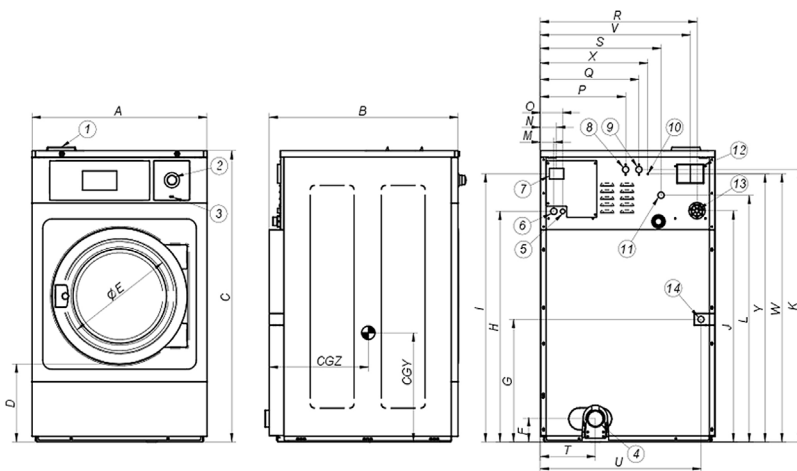
- Anchoring base as an option for correct fixation to the floor.
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Reversible door opening.
- 6 extra signals for dosing
- Timed opening system.
- Printer.
- Shower system: water recirculation for very delicate linen (wet cleaning complement).
- Marine electric versions for ships.
- Tropicalised models with protective covering for the electronics system.



TECHNICAL DATA

	UNIT.	FWS-135 TP2
DRUM		
Load capacity 1:9 / 1:10	LBS	148/132
Volume	CU/FT	21
Diameter	in	41.26
Depth	in	26.92
GENERAL DATA		
Wash speed / Spin speed	r.p.m.	42.5/505
G Force	-	150
Maximum force transmitted	kN	9.12 ±15
Dynamic force frequency	Hz	6.93
Noise level	dB	< 70
Self-service version	-	No
Double drain	-	Opt.
Weighing system	-	No
SLUICE option	-	No
DOOR		
Height door centre / Height door base	in	900 / 540
Diameter	in	560
POWER		
Motor	Hp	74
Heating electric mod.	kW	28.8
Maximum electrical power	kW	31.2
Maximum steam and hot water power	kW	5.5
CONNECTIONS		
		ELECTRIC
Voltage 230V - I	Nº x mm2 / A	-
Voltage 230V - III	Nº x mm2 / A	4 x 25 / 100 A
Voltage 400V - III + N	Nº x mm2 / A	5 x 16 / 63 A
Steam inlet (Steam mod.)	inch	3/4"
Maximum steam consumption (Steam, mod.)	lbs/h	46.3
Water inlet	inch	3/4"
Grid pressure	kg/cm²	2-4
Maximum water consumption *	Gal/h	165.87
Drain	mm/inch	3"
Drainage capacity	gal/min	52.8
DIMENSIONS / DIMENSIONS WITH PACKAGING		
Width / Width	in	48.25 / 53.54
Depth / Depth	in	50.35 / 58.16
Height / Height	in	64.56 / 74
Net weight / Gross weight	lbs	2050 / 2314
Gross volume (with packaging)	ft3	131.72

* Program n° 20, 75 % load.



- ① Soap dispenser.
- ② Emergency stop.
- ③ USB port.
- ④ Drain.
- ⑤ Electrical connection to liquid soap pumps.
- ⑥ Electrical connection.
- ⑦ Main switch.
- ⑧ Auxiliary water inlet.
- ⑨ Hot water inlet.
- ⑩ Earth connection.
- ⑪ Cold water inlet.
- ⑫ Water overflow.
- ⑬ Connection for liquid soap.
- ⑭ Steam connection.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	CGY	CGZ
FWS-135 TP2	48,23	50,35	64,57	21,26	22,05	5,51	38,74	53,86	60,47	51,42	61,06	51,89	2,40	2,91	3,98	25,63	28,78	43,70	34,21	10,63	45,79	42,52	57,87	39,06	62,80	25,35	38,27

