



# FWH-25-30-40 TP2 HIGH SPIN

**G FORCE = 450** | 25 - 30 - 40 lb

MAXIMUM EFFECTIVENESS,  
ENERGY SAVING AND RESPECT FOR THE ENVIRONMENT



## CHARACTERISTICS

- G Force = 450.
- 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 system 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.** 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.

- **OPTIMIZED 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 machine, a water cascade effect is achieved which increases the mechanical action of 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:

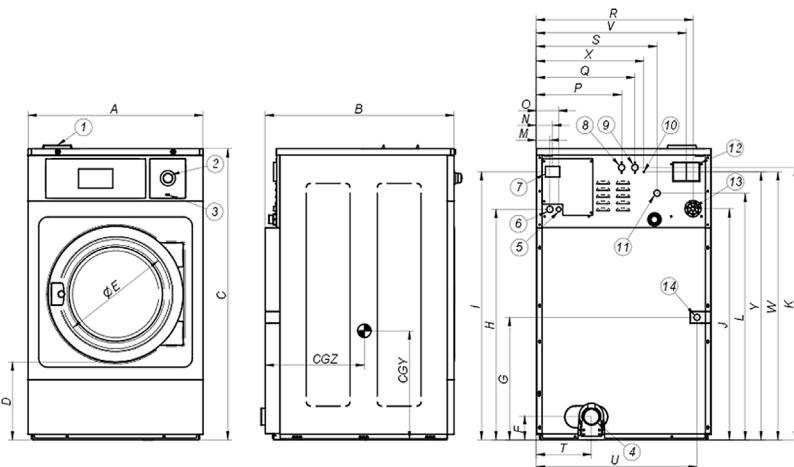
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Different levelling plinth kits to level machines by total height or by loading height (850 mm between door base and floor).
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Drain pump kit (25 and 30 lb).
- Levelling feet.
- Reversible door opening.
- Silicone seal for 25 and 30 lb models.
- 6 extra signals for dosing.
- **AUTO WEIGHT** Automatic linen weighing system. Up to 30% savings. (Automatic adjustment of water and soap consumptions as well as energy savings, according to the load inserted, measured automatically by the washer).
- Timed opening system.
- Printer.
- Marine electric versions for ships.
- Tropicalised models with protective covering for the electronics system.
- **Shower system:** water recirculation for very delicate linen (wet cleaning complement).



TECHNICAL DATA

	UNIT.	FWH-25 TP2		FWH-30 TP2		FWH-40 TP2	
<b>DRUM</b>							
Load capacity 1:9 / 1:10	lb	24/22		31/29		44/42	
Volume	CU.FT	3.5		4.6		6	
Diameter	in	20.9		24.40		27.55	
Depth	in	16.73		16.92		18.50	
<b>GENERAL DATA</b>							
Wash speed / Spin speed	r.p.m.	50/ 1,231		50/ 1,138		47/ 1,071	
G Force	-	450		450		450	
Maximum force transmitted	kN	2.08 ±0.75		2.49 ±1.05		3.41 ±1.4	
Dynamic force frequency	Hz	16.7		16.7		16	
Noise level	dB	70		70		70	
Self-service version	-	Yes		Yes		Yes	
Double drain	-	No		Opt.		Opt.	
Weighing system	-	Opt.		Opt.		Opt.	
<b>DOOR</b>							
Height door centre / Height door base	in	24.8/14.56		700 / 440		765 / 450	
Diameter	in	14.68		14.68		18.11	
<b>POWER</b>							
Motor	Hp	1		2		2.9	
Heating electric mod.	kW	6		9		12	
Maximum electrical power	kW	6.25		9.4		12.75	
Maximum steam and hot water power	kW	0.75		1.1		2.2	
<b>CONNECTIONS</b>							
		<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>	<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>	<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>
Voltage 230V - I	N° x mm² / A	3 x 4 / 35 A	3 x 1.5 / 6 A	3 x 10 / 50 A	3 x 1.5 / 10 A	3 x 16 / 60 A	3 x 1.5 / 10 A
Voltage 230V - III	N° x mm² / A	4 x 2.5 / 20 A	-	4 x 4 / 32 A	-	4 x 6 / 40 A	-
Voltage 400V - III + N	N° x mm² / A	5 x 1.5 / 10 A	-	5 x 1.5 / 16 A	-	5 x 2.5 / 20 A	-
Steam input (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	18.86		23.45		31.25	
Drain	mm/inch	3"		3"		3"	
Drainage capacity	gal/min	52.8		52.8		52.8	
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>							
Width / Width	in	27.24/28.74		31 / 32.67		34.80/ 36.61	
Depth / Depth	in	31 / 39.37		34.21 / 39.76		36 / 40.55	
Height / Height	in	46.65 / 55.78		51.46 / 61.42		55.70 / 66.93	
Net weight / Gross weight	lb	507 / 526		551 / 623		794 / 867	
Gross volume (with packaging)	ft3	36.37		46.26		57.56	

\* 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
<b>FWH-25 TP2</b>	27,24	31,02	46,65	14,57	14,69	4,92	13,94	35,94	42,72	36,06	43,31	38,78	2,40	2,91	3,98	12,44	14,61	24,02	17,64	8,90	24,65	22,83	42,52	18,15	45,08	16,69	22,72
<b>FWH-30 TP2</b>	31,02	34,21	51,46	17,32	14,69	9,57	15,16	40,71	47,32	40,83	48,07	43,54	2,40	2,91	3,98	15,16	17,52	27,80	21,42	9,57	28,27	26,61	47,32	19,09	47,28	17,72	25,63
<b>FWH-40 TP2</b>	34,80	35,94	55,71	17,72	18,11	3,74	14,96	44,69	51,30	44,80	52,05	47,52	2,40	2,91	3,98	16,89	20,04	31,57	25,20	13,70	32,05	30,39	51,30	22,40	51,06	18,27	27,64



# FWH-60-80 TP2 HIGH SPIN

**G FORCE = 450** | 60-80 lb

MAXIMUM EFFECTIVENESS,  
ENERGY SAVING AND RESPECT FOR THE ENVIRONMENT



## CHARACTERISTICS

- G Force = 450.
- 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 system 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.** Grazie a un avanzato sviluppo tecnologico, e attraverso il convertitore di frequenza, le lavatrici rilevano in anticipo lo sbilanciamento del carico. In questo modo funzionano con maggiore delicatezza, che assicura una vita utile più lunga dei componenti e consente di ridurre i tempi di lavaggio e il consumo energetico.
- **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.** 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.
- **OPTIMIZED 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 machine, a water cascade effect is achieved which increases the mechanical action of 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:

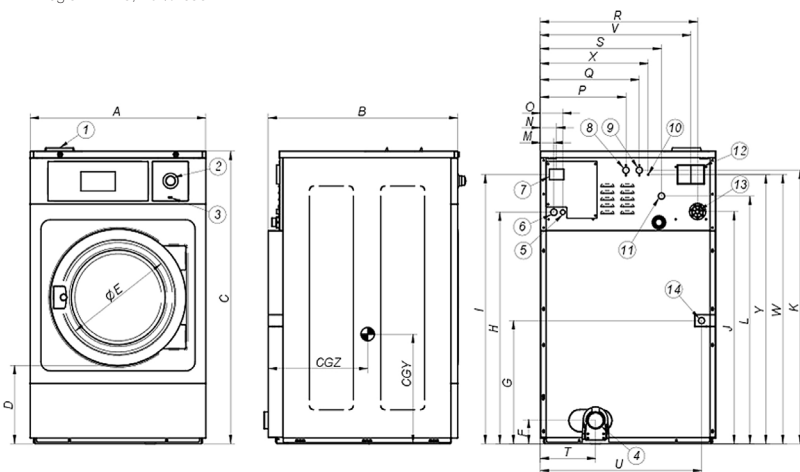
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Different levelling plinth kits to level machines by total height or by loading height (850 mm between door base and floor).
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Levelling feet.
- Reversible door opening.
- Silicone seal for 25 and 31 lb models.
- 6 extra signals for dosing.
- **AUTO WEIGHT** Automatic linen weighing system. Up to 30% savings. (Automatic adjustment of water and soap consumptions as well as energy savings, according to the load inserted, measured automatically by the washer).
- Timed opening system.
- Printer.
- Marine electric versions for ships.
- Tropicalised models with protective covering for the electronics system.
- **Shower system:** water recirculation for very delicate linen (wet cleaning complement).



TECHNICAL DATA

	UNIT.	FWH-60 TP2		FWH-80 TP2	
<b>DRUM</b>					
Load capacity 1:9 / 1:10	lb	62/55		86/77	
Volume	CU.FT	9		12	
Diameter	in	30.3		33.82	
Depth	in	20.8		23.7	
<b>GENERAL DATA</b>					
Wash speed / Spin speed	r.p.m.	45/1,024		42.5/966	
G Force	-	450		450	
Maximum force transmitted	kN	4.92 ±1.75		7.36 ±2.45	
Dynamic force frequency	Hz	15		14.3	
Noise level	dB	< 70		< 70	
Self-service version	-	Yes		Yes	
Double drain	-	Opt.		Opt.	
Weighing system	-	Opt.		Opt.	
<b>DOOR</b>					
Height door centre / Height door base	in	34/22		34/22	
Diameter	in	18.11		22	
<b>POWER</b>					
Motor	Hp	4		5.36	
Heating electric mod.	kW	18		21	
Maximum electrical power	kW	19.2		22	
Maximum steam and hot water power	kW	4		4	
<b>CONNECTIONS</b>					
		<b>ELECTRIC</b>		<b>STEAM / HOT WATER</b>	
Voltage 230V - I	N° x mm² / A	3 x 1.5 / 20 A		-	
Voltage 230V - III	N° x mm² / A	4 x 10 / 63 A		3 x 1.5 / 20 A	
Voltage 400V - III + N	N° x mm² / A	5 x 4 / 32 A		-	
Steam input (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	46.36		69	
Drain	mm/inch	3"		3"	
Drainage capacity	gal/min	52.8		52.8	
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>					
Width / Width	in	38.54 / 41		43.11 / 45.87	
Depth / Depth	in	40.99 / 45.67		46.61 / 48.42	
Height / Height	in	61.18 / 72.83		62.91 / 75.59	
Net weight / Gross weight	lb	1080 / 1202		1654 / 1808	
Gross volume (with packaging)	ft3	78.75		97.1	

\* 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	CGZ	CGY
FWH-60 TP2	38,54	40,98	61,14	22,05	18,11	5,24	19,29	50,47	57,09	49,57	57,68	53,31	2,40	2,91	3,98	18,94	22,09	33,90	26,50	14,45	35,79	32,72	56,06	24,57	59,45	30,43	27,95
FWH-80 TP2	43,11	46,61	62,91	21,26	20,67	6,22	22,68	52,36	58,98	44,76	59,57	54,45	2,40	2,91	3,98	23,46	26,61	38,43	31,81	15,12	40,47	37,24	57,56	33,90	61,34	31,30	28,82



# FWH-100-135-275 TP2 HIGH SPIN

G FORCE = 450 | 100 - 133 lbs | G FORCE = 350 | 275 lbs

MAXIMUM EFFECTIVENESS,  
ENERGY SAVING AND RESPECT FOR THE ENVIRONMENT



## CHARACTERISTICS

- G Force = 450 (100 and 135 lbs models).
- G Force = 350 (100 and 275 lbs models).
- 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 (45 and 60 kg models).
- Unit exterior manufactured in AISI-304 stainless steel in the 275 lbs model.
- Detergent dispenser with 5 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. Equipped with an automatic mixing system of water at different temperatures; all the washers provide energy savings and reduce 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.

### OPTIONS:

- 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 (in 100 and 135 lbs models).
- Reversible door opening.
- 6 extra signals for dosing.
- AUTO WEIGHT Automatic linen weighing system. Up to 30% savings. (Automatic adjustment of water and soap consumptions as well as energy savings, according to the load inserted, measured automatically by the washer).
- Timed opening system.
- Printer.
- Marine electric versions for ships.
- Tropicalised models with protective covering for the electronics system.
- Shower system: water recirculation for very delicate linen (wet cleaning complement).
- Tilt system - forwards and backwards for easy loading and unloading of linen.
- Weight detection system in the feet (not compatible with tilt system).
- Double heating, electric + steam in 100 and 135 lbs models.
- Water inlet pipe for 100 and 135 lbs models.
- Bottom plinth for 100 and 135 lbs models.

[www.fagorcommercial.com](http://www.fagorcommercial.com)

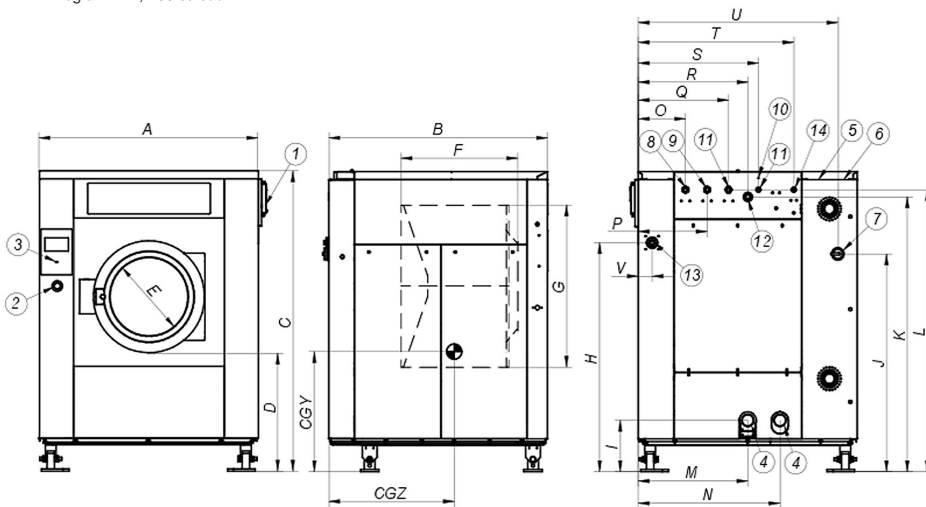




TECHNICAL DATA

	UNIT.	FWH - 100 TP2			FWH - 135 TP2			FWH - 275 TP2	
<b>DRUM</b>									
Load capacity 1:9 / 1:10	lb	110/99			148/132			293/265	
Volume	CU.FT	16			21			42	
Diameter	in	36.14			41.25			53.54	
Depth	in	28.44			27			33	
<b>GENERAL DATA</b>									
Wash speed / Spin speed	r.p.m.	42,5			38			34	
G Force	r.p.m.	934			875			678	
Maximum force transmitted	-	450			450			350	
Dynamic force frequency	kN	11.23 ±3.15			12.95 ±4.2			37.77 ±5.25	
Noise level	Hz	14.1			12.66			11.33	
Self-service version	dB	< 70			< 70			< 70	
Double drain	-	Opt.			Opt.			Opt.	
Weighing system	-	Opt.			Opt.			Opt.	
<b>DOOR</b>									
Height door centre / Height door base	in	46.85 / 32.67			46.85 / 32.67			52.36 / 35.83	
Diameter	in	560			560			700	
<b>POWER</b>									
Motor	Hp	10			14.75			20.11	
Heating electric mod.	kW	28.8			36			No	
Maximum electrical power	kW	31.3			40			No	
Maximum steam and hot water power	kW	7.5			11			15	
<b>CONNECTIONS</b>									
		ELECTRIC	HOT WATER	STEAM	ELECTRIC	HOT WATER	STEAM	STEAM / HOT WATER	
Voltage 230V- III + T	Nº x mm² / A	4 x 25 / 80 A	4 x 2.5 / 20 A	4 x 2.5 / 20 A	4 x 25 / 100 A	4 x 4 / 32 A	4 x 4 / 32 A	4 x 10 / 63 A	
Voltage 400V- III + N + T	Nº x mm² / A	5 x 10 / 50 A	5 x 2.5 / 20 A	5 x 2.5 / 20 A	5 x 16 / 63 A	5 x 4 / 25 A	5 x 2.5 / 20 A	5 x 4 / 32 A	
Steam input (Steam mod.)	inch		3/4"			3/4"			1-1/4"
Maximum steam consumption (Steam mod.)	lbs/h		42			46.3			58.3
Water inlet	inch		1"			1"			1-1/2"
Grid pressure	kg/cm²		2-4			2-4			2-4
Maximum water consumption *	Gal/h		125			168.22			331
Drain	mm/inch		3"			3"			4"
Drainage capacity	gal/min		52.8			52.8			132
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>									
Width / Width	in	56.22 / 63			56.22 / 63			70 / 76.38	
Depth / Depth	in	56.22 / 63.78			56.22 / 63.78			67.52 / 77.95	
Height / Height	in	75.20 / 78.78			75.26 / 78.74			88 / 89.76	
Net weight / Gross weight	lb	2976 / 3130			3086/3351			8708 / 9039	
Gross volume (with packaging)	ft3	169.2			169.2			298	

\* Program n° 2, 100 % 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	CGY	CGZ
FWH-100 TP2	56,18	56,14	76,57	29,41	22,05	29,92	36,22	58,43	13,11	55,55	70,08	71,93	28,11	36,38	12,17	17,68	23,19	28,15	30,87	39,92	51,26	3,66	24,61	37,13
FWH-135 TP2	56,18	56,14	76,57	29,41	22,05	29,92	41,34	58,43	13,11	55,55	70,08	71,93	28,11	36,38	12,17	17,68	23,19	28,15	30,87	39,92	51,26	3,66	24,61	37,13
FWH-275 TP2	70,08	69,88	88,39	35,43	27,56	37,80	53,54	68,70	13,23	59,84	78,31	83,27	26,93	43,31	17,72	23,23	28,74	35,83	37,40	47,05	64,09	9,88	33,58	43,46



# FWR - 25-30-40 TP2 FAST SPIN

**G FORCE = 300** | 25 - 30 - 40 lbs

MAXIMUM PERFORMANCE



## CHARACTERISTICS

- **G Force = 300**
- 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..
- 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 kg models.
- 6 extra signals for dosing
- Timed opening system.
- Printer.
- Marine electric versions for ships.
- Tropicalised models with protective covering for the electronics system.
- Shower system: water recirculation for very delicate linen (wet cleaning complement).

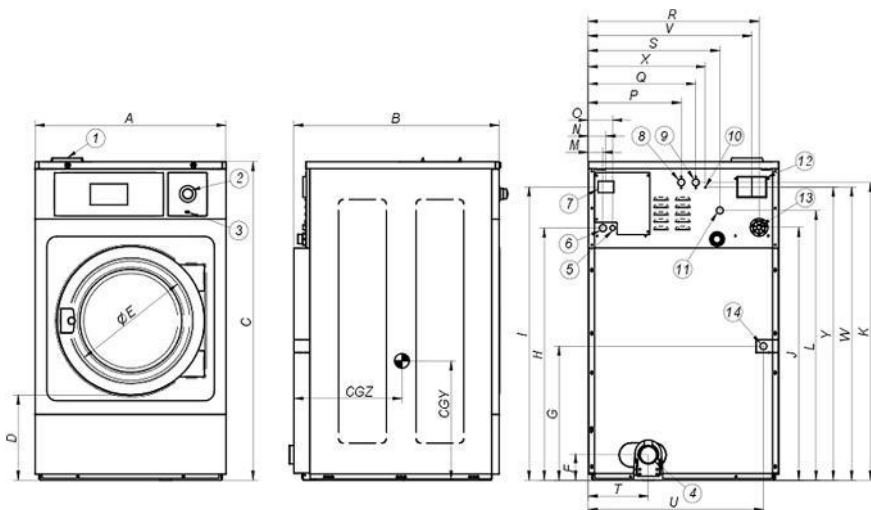


[www.fagorcommercial.com](http://www.fagorcommercial.com)

TECHNICAL DATA

	UNIT.	FWR 25 TP2	FWR 30 TP2	FWR 40 TP2			
<b>DRUM</b>							
Load capacity 1:9 / 1:10	Lb	24/22	31/29	44/42			
Volume	CU.FT	3.5	4.6	6			
Diameter	in	24.4	24.4	27.55			
Depth	in	13	16.92	18.50			
<b>GENERAL DATA</b>							
Wash speed / Spin speed	r.p.m.	53 / 759	53 / 759	45/874			
G Force	-	300	300	300			
Maximum force transmitted	kN	2.0 ±3	2.31 ±4	2.77 ±8			
Dynamic force frequency	Hz	8.93	8.93	12			
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			
<b>DOOR</b>							
Height door centre / Height door base	in	22 / 12.2	22.44 / 12.2	25.78/13.70			
Diameter	in	14.68	14.68	18.11			
<b>POWER</b>							
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	2.2			
<b>CONNECTIONS</b>							
		<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>	<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>	<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>
Voltage 230V - I	Nº x mm² / A	3x6 - 35 A	3x1.5 - 6 A	3x10 - 50 A	3x1.5 - 6 A	3x16 - 63 A	3x4 - 10 A
Voltage 230V - III	Nº x mm² / A	4x2.5 - 20 A	-	4x2.5 - 32 A	-	4X6 - 40 A	-
Voltage 400V - III + N	Nº x mm² / A	5x1.5 - 16 A	-	5x1.5 - 16 A	-	5x4 - 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		16.24		20.81		26.5
Drain	mm/inch		3"		3"		3"
Drainage capacity	gal/min		52.8		52.8		52.8
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>							
Width / Width	in	28.3 / 31.5		28.5 / 31.5		31 / 33	
Depth / Depth	in	26.9 / 39		32.67 / 39		33 / 39.76	
Height / Height	in	45.54 / 53.14		45.59 / 53.14		51.45 / 59	
Net weight / Gross weight	lb	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 CGY CGZ

<b>FWR-30TP2</b>	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
<b>FWR-40 TP2</b>	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





# FWR-60 TP2 FAST SPIN

**G FORCE = 300** | 60 lbs

MAXIMUM PERFORMANCE



## CHARACTERISTICS

- **G Force = 300.**
- 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.
- Washers compatible with water recovery tanks.

### OPTIONS:

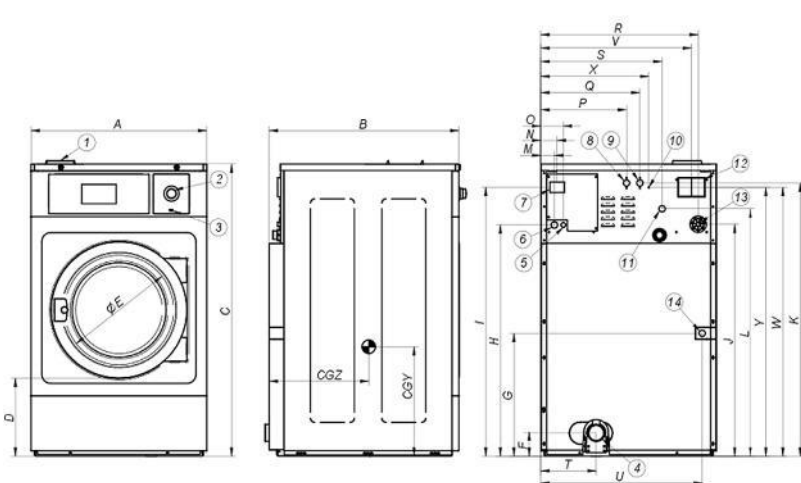
- Anchoring base as an option for correct fixation to the floor.
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Reversible door opening.
- 6 extra signals for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



TECHNICAL DATA

	UNIT.	FWR-60 TP2	
<b>DRUM</b>			
Capacidad de carga 1:9 / 1:10	lb	61/55	
Volumen	CU.FT	9	
Diámetro	in	30-31	
Profundidad	in	20.87	
<b>GENERAL DATA</b>			
Wash speed / Spin speed	r.p.m.	40/836	
G Force	-	300	
Maximum force transmitted	kN	3.96 ±10	
Dynamic force frequency	Hz	11,5	
Noise level	dB	< 70	
Self-service version	-	Yes	
Double drain	-	Opt.	
Weighing system	-	No	
<b>DOOR</b>			
Height door centre / Height door base	in	27.56 / 15.75	
Diameter	in	460	
<b>POWER</b>			
Motor	Hp	4	
Heating electric mod.	kW	18	
Maximum electrical power	kW	19	
Maximum steam and hot water power	kW	3	
<b>CONNECTIONS</b>			
Voltage 230V - I	Nº x mm <sup>2</sup> / A	-	<b>STEAM / HOT WATER</b> 3 x 4 / 16 A
Voltage 230V - III	Nº x mm <sup>2</sup> / A	4 x 16 / 63 A	-
Voltage 400V - III + N	Nº x mm <sup>2</sup> / A	5 x 4 / 32 A	-
Steam inlet (Steam mod.)	inch	3/4"	
Maximum steam consumption (Steam, mod.)	lbs/h	33	
Water inlet	inch	3/4"	
Grid pressure	kg/cm <sup>2</sup>	2-4	
Maximum water consumption *	Gal/h	46.52	
Drain	mm/inch	3"	
Drainage capacity	gal/min	52.8	
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>			
Width / Width	in	34.80 / 36.62	
Depth / Depth	in	39.80 / 45.28	
Height / Height	in	52.76 / 59.98	
Net weight / Gross weight	lb	749 / 816	
Gross volume (with packaging)	fit3	56.5	

\* 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
FWR-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-25-30-40 TP2 NORMAL SPIN

G FORCE = 200 | 25 - 30 - 40 LBS

RELIABILITY AND ROBUSTNESS

WITHIN REACH OF ALL.



## 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.

### OPTIONS:

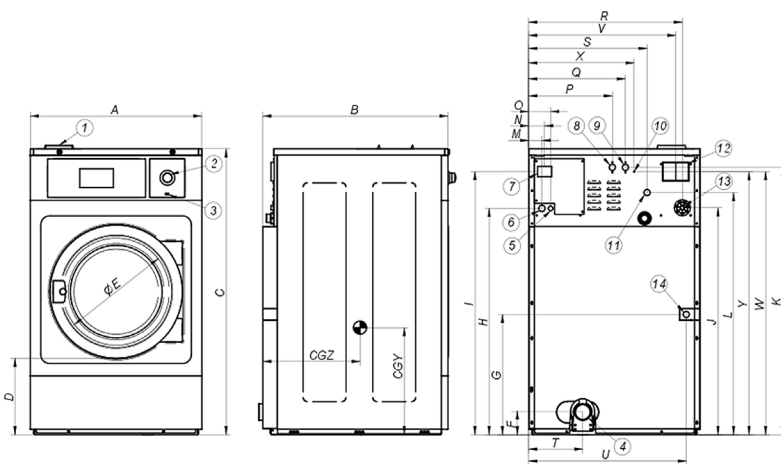
- Anchoring base as an option for correct fixation to the floor.
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Reversible door opening.
- Silicone seal for 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.



TECHNICAL DATA

	UNIT.	FWS-25	FWS-30	FWS-40			
<b>DRUM</b>							
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			
<b>GENERAL DATA</b>							
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			
<b>DOOR</b>							
Height door centre / Height door base	in	570/310	570/310	655 / 348			
Diameter	in	373	373	460			
<b>POWER</b>							
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			
<b>CONNECTIONS</b>							
		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"	1/2"	1/2"	1/2"
Maximum steam consumption (Steam. mod.)	lbs/h	15.5	15.5	18.8	18.8	26.5	26.5
Water inlet	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Grid pressure	kg/cm²	2-4	2-4	2-4	2-4	2-4	2-4
Maximum water consumption *	Gal/h	15.80	15.80	21	21	31.35	31.35
Drain	mm/inch	3"	3"	3"	3"	3"	3"
Drainage capacity	gal/min	52.8	52.8	52.8	52.8	52.8	52.8
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>							
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	CGY	CGZ
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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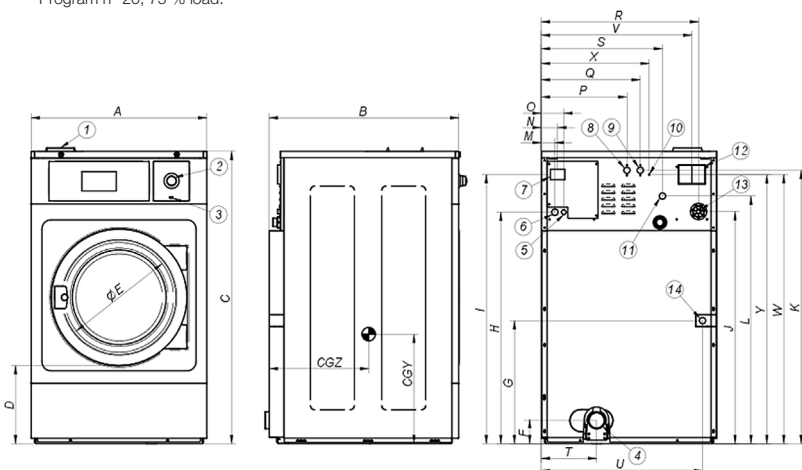




TECHNICAL DATA

	UNIT.	FWS - 60 TP2	FWS - 80 TP2
<b>DRUM</b>			
Load capacity	lbs	62/55	86/77
Volume	CU.FT	9	12
Diameter	in	30.3	33.85
Depth	in	20.8	23.7
<b>GENERAL DATA</b>			
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
SLUIICE option	-	Yes	Yes
<b>DOOR</b>			
Height door centre / Height door base	in	27.55 / 15.75	28.9 / 17.3
Diameter	in	18.15	22
<b>POWER</b>			
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
<b>CONNECTIONS</b>			
		<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>
Voltage 230V - I	Nº x mm² / A	-	3 x 4 / 16 A
Voltage 230V - III	Nº x mm² / A	4 x 16 / 63 A	-
Voltage 400V - III + N	Nº x mm² / A	5 x 4 / 32 A	-
		<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>
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
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>			
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
<b>FWS-60 TP2</b>	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
<b>FWS-80 TP2</b>	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.
- 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:

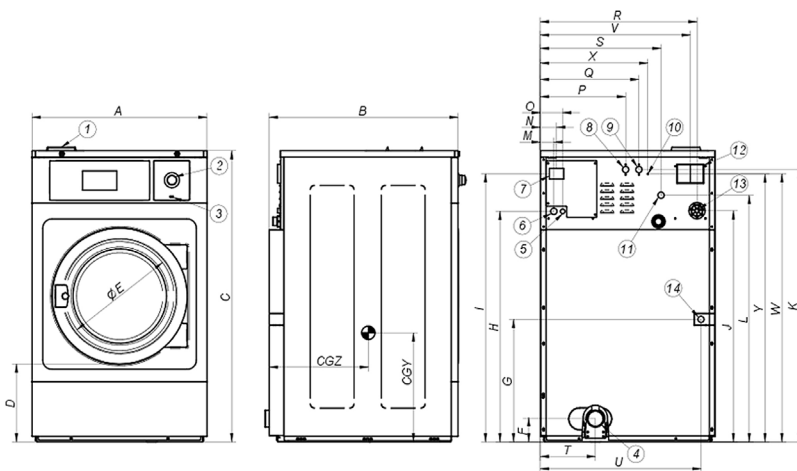
- Anchoring base as an option for correct fixation to the floor.
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally closed.
- Reversible door opening.
- 6 extra signals for 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.

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TECHNICAL DATA

	UNIT.	FWS-135 TP2	
<b>DRUM</b>			
Load capacity 1:9 / 1:10	LBS	148/132	
Volume	CU/FT	21	
Diameter	in	41.26	
Depth	in	26.92	
<b>GENERAL DATA</b>			
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	
<b>DOOR</b>			
Height door centre / Height door base	in	900 / 540	
Diameter	in	560	
<b>POWER</b>			
Motor	Hp	74	
Heating electric mod.	kW	28.8	
Maximum electrical power	kW	31.2	
Maximum steam and hot water power	kW	5.5	
<b>CONNECTIONS</b>			
		<b>ELECTRIC</b>	<b>STEAM / HOT WATER</b>
Voltage 230V - I	Nº x mm2 / A	-	-
Voltage 230V - III	Nº x mm2 / A	4 x 25 / 100 A	4 x 10 / 32 A
Voltage 400V - III + N	Nº x mm2 / A	5 x 16 / 63 A	5 x 4 / 32 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
<b>DIMENSIONS / DIMENSIONS WITH PACKAGING</b>			
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

