



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:

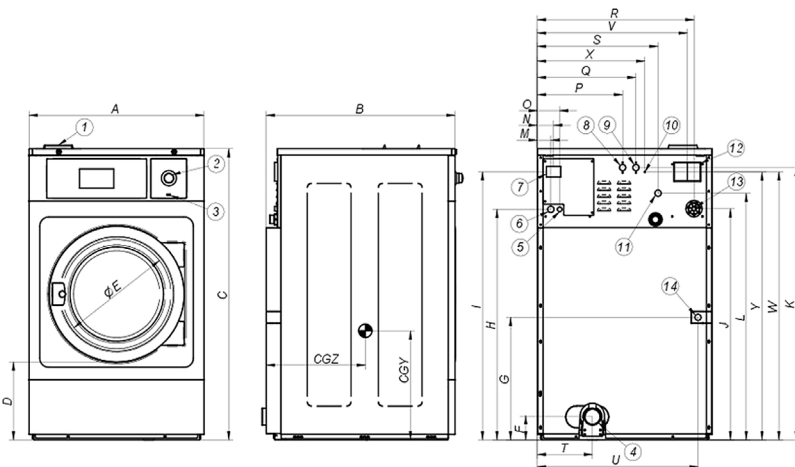
- Unit exterior in AISI-304 stainless steel.
- Front panels in AISI-304 stainless steel.
- Different levelling plinth kits to level machines by total height or by loading height (850 mm between door base and floor).
- Double drain kit to recover the water, with important savings.
- NC Option: drain normally 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	
DRUM							
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	
GENERAL DATA							
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.	
DOOR							
Height door centre / Height door base	in	24.8/14.56		700 / 440		765 / 450	
Diameter	in	14.68		14.68		18.11	
POWER							
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	
CONNECTIONS		ELECTRIC	STEAM / HOT WATER	ELECTRIC	STEAM / HOT WATER	ELECTRIC	STEAM / HOT WATER
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	
DIMENSIONS / DIMENSIONS WITH PACKAGING							
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
FWH-25 TP2	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
FWH-30 TP2	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
FWH-40 TP2	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



WASHER
EXTRACTORS



FWH-60-80 TP2 HIGH SPIN

G FORCE = 450 | 60-80 lb

MAXIMUM EFFECTIVENESS,
ENERGY SAVING AND RESPECT FOR THE ENVIRONMENT

**TOUCH
PLUS
CONTROL**

**EFFICIENT
MIX**

**BALANCE
CONTROL**

**MULTI-
CHOICE
INLET**

**WET
CLEANING**

**MAINT.
KARE**

**OPTIMIZED
DRUM**

**OPTIMAL
CONSUMP.**

**AUTO
WEIGHT**

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.
- **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.** 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).



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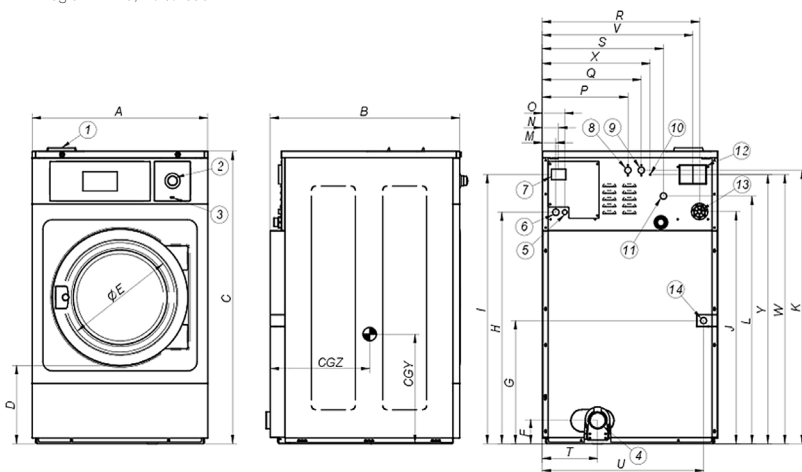
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TECHNICAL DATA

	UNIT.	FWH-60 TP2	FWH-80 TP2
DRUM			
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
GENERAL DATA			
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.
DOOR			
Height door centre / Height door base	in	34/22	34/22
Diameter	in	18.11	22
POWER			
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
CONNECTIONS			
		ELECTRIC	STEAM / HOT WATER
Voltage 230V - I	Nº x mm² / A		3 x 1.5 / 20 A
Voltage 230V - III	Nº x mm² / A	4 x 10 / 63 A	3 x 1.5 / 20 A
Voltage 400V - III + N	Nº x mm² / A	5 x 4 / 32 A	-
		ELECTRIC	STEAM / HOT WATER
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
DIMENSIONS / DIMENSIONS WITH PACKAGING			
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

TOUCH
PLUS
CONTROL

EFFICIENT
MIX

BALANCE
CONTROL

MULTI-
CHOICE
INLET

WET
CLEANING

MAINT.
KARE

OPTIMIZED
DRUM

OPTIMAL
CONSUMP.

AUTO
WEIGHT

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.

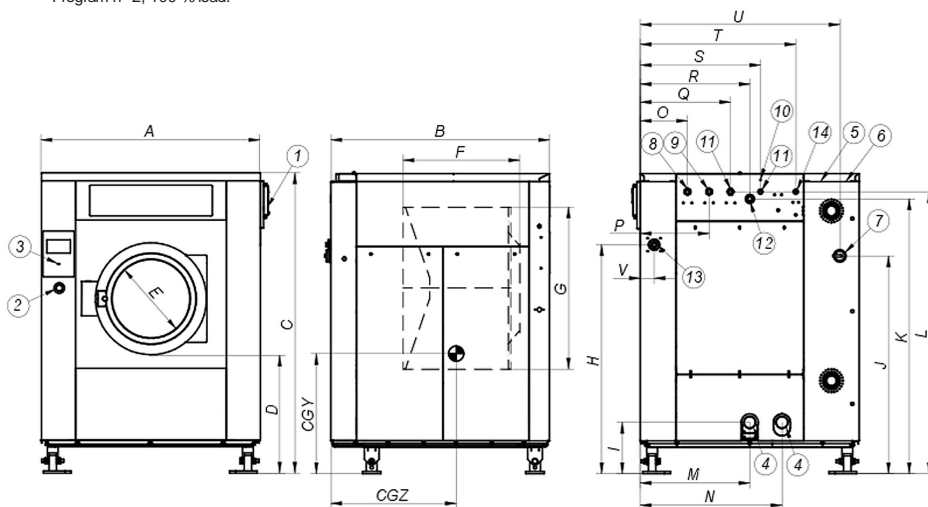
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TECHNICAL DATA

	UNIT.	FWH - 100 TP2			FWH - 135 TP2			FWH - 275 TP2	
DRUM									
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	
GENERAL DATA									
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.	
DOOR									
Height door centre / Height door base	in	46.85 / 32.67			46.85 / 32.67			52.36 / 35.83	
Diameter	in	560			560			700	
POWER									
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	
CONNECTIONS		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	
DIMENSIONS / DIMENSIONS WITH PACKAGING									
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