

## LOW SPIN WASHER

**RELIABILITY AND ROBUSTNESS** 

MWCL-60-80

## **FEATURES**

- Low spin rigid-mounted washer extractor.
- It is important to fix the machine to the floor. Anchoring base to order separately (not included).
- G Force 100.
- Body, drum and tub in stainless steel.
- Detergent dispenser with 4 compartments.
- 8 signals for automatic liquid dosing, programmable in time and delay.
- 3 water inlets (Hot water, Cold water, Soft water).
- These machines have electronic control of imbalance with frequency inverter, that detects the unbalanced load before spinning. Standard frequency: 50 - 60 Hz.
- New microprocessor with touch screen. 26 preset programs.
- Possibility of programming, exporting and importing programs without limit, software updates, through USB port, using USB drive.
- Traceability standard: All washing process (temperatures, water levels) is stored in the washer and can be extracted to a PC by means of a USB drive.
- RS-485 serial communication port for monitoring / remote management.
- Wet Cleaning standard in the microprocessor: fully adjustable water levels and washing speed for delicate.
- Optimal loading standard to optimize water and chemicals consumptions.
- LOADING AID feature with water and rotation control for easy loading of the linen.
- Self-service version available by installing a central pay or coin meter on the standard model.
- CE, WRAS and GOST approved product. Optional version for ETL certified product.

## **OPTIONS**

- Double drain kit, allow the recovery of the water, with important water savings.
- Relay card with 6 extra dosing signals: total of 14 signals in the machine
- Steam kit to transform an electric or hot water heated machine into steam version.
- Self-Service Kits: Coiner and box; Central pay; Delayed opening door option in case of power outage.
- Anchorage base for correct fixation of the washer to the floor.
- 8 mm holes drum.
- Voltage 230 V III 50/60 Hz. Model MWCL-35.
- Ship voltage for electric models: 440V III 50/60 Hz No neutral or 480V III 50/60 Hz No neutral.





TOUCH CONTROL



OPTIMAL LOADING



STAINLESS STEEL STANDARD



IMBALANCE INVERTER



EASY MAINTENANCE



HOT & COLD MIX



WET CLEANING



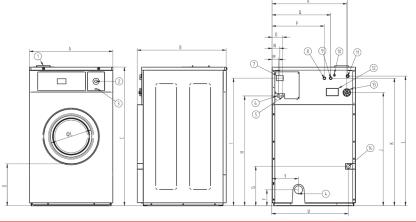
THIRD WATER INTAKE



EFFICIENT DRUM

Tension 230V-I+N+T         N° xmm2 / A         3 x 25 / 100A         3 x 1,5 / 16A         3 x 25 / 100A         3 x 1,5 / 16A           Tension 230V-III+T         N° xmm2 / A         3 x 10 / 50A         -         3 x 6 / 40A         -           Tension 400V-III+N+T         N° xmm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Steam inlet (Steam mod.)         inch         3/4"         3/4"         3/4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18           Water inlet         inch         3/4"         3/4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainge capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         kg         340/370         473/503	TECHNICAL DATA	UNIT.	MWC	CL-60	MWCL-80						
Volume		11		/= c	2.1	t=0					
Dameter         mm         770         860           Depth         mm         530         602           GENERAL DETAILS           Washing speed / Spining speed         r.p.m.         48/481         45/455           G Factor         -         100         100           Maximum force transmitted         f.N.         3,4 ±0,6         4,73 ±0,8           Frequency dynamic force         Hz         8,01         7,58           Self-service version         -         Yes         Opt         Opt           Outle drain         -         Opt         Opt         Opt           Outle drain         -         Opt         Opt         Opt           Double drain         -         Opt         Opt         Opt           Beght center door / Height door         mm         700/440         735/375         Opt           Downer         mm         373         560         Opt         <											
Depth		· ·									
GENERAL DETAILS           Washing speed / Spining speed         r.p.m.         48/481         45/455           G Factor         -         100         100           Maximum force transmitted         KN         3.4 ±0.6         4,73 ±0.8           Frequency-dynamic force         Hz         8.01         7,58           Self-service version         -         Yes         Yes           Opt         Opt         Opt           Option 8mm holes drum         -         Yes         Yes           Door         Nes         Yes         Yes           Door         mm         700/440         735/375         756           Dameter         mm         373         560         560           POWER           Max power (Electric model)         kW         2,2         3         3           Max power (Electric model)         kW         18,75         22         3           Max power (Steam and hot water)         kW         2,2         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		mm									
Washing speed / Spining speed         r.p.m.         48/481         45/455           G Factor         -         100         100           Maximum force transmitted         KN         3.4 ±0.6         4,73 ±0,8           Frequency-dynamic force         Hz         8,01         7,58           Self-service version         -         Yes         Yes           Double drain         -         Opt         Opt           Option 8mm holes drum         -         Yes         Yes           Double drain         -         Opt         Opt           Oboto         -         Yes         Yes           Double drain         -         Opt         Opt           Double drain         -         Opt         Opt           Double drain         -         Opt         Opt           Debut drain         -         As 1         Opt     <		mm	5.	30	60	02					
G Factor											
Maximum force transmitted         KN         3,4 ± 0.6         4,73 ± 0,8           Frequency-dynamic force         Hz         8,01         7,58           Self-service version         -         Yes         Opt           Option 8mm holes drum         -         Opt         Opt           Option 8mm holes drum         -         Yes         Yes           Doors         Telegibt center door / Height door         mm         700/40         735/375           Dameter         mm         373         560           Dometer         mm         373         560           POWER           Motor         kW         18         2.2         3           Max, power (Electric model)         kW         18,75         2.2           Max, power (Steam and hot water)         kW         18,75         2.2           Max, power (Steam and hot water)         kW         33.25/100A         3x.15/16A         3x.15/16A           Tension 230V-1 N-T         N* xmm2/A         3 x 25/100A         3x.15/16A         3x.15/16A         3x.15/16A           Tension 400V-1II+N+T         N* xmm2/A         3 x 4/32A         -         3x 16/40A         -           Steam inlet (Steam mod.)		r.p.m.									
Frequency-dynamic force         Hz         8,01		-									
Self-service version         -         Yes         Yes           Double drain         -         Opt         Opt         Opt           Opton 8mm holes dram         -         Yes         Yes         Yes           DoDOR         Weight center door / Height door         mm         700/440         735/375         75 <td< td=""><td></td><td>KN</td><td>3,4</td><td>±0,6</td><td colspan="6">4,73 ±0,8</td></td<>		KN	3,4	±0,6	4,73 ±0,8						
Double drain         -         Opt         Opt <th< td=""><td>Frequency-dynamic force</td><td>Hz</td><td>8,</td><td>01</td><td colspan="6">7,58</td></th<>	Frequency-dynamic force	Hz	8,	01	7,58						
Option 8mm holes drum         -         Yes         Yes         Yes         Potes	Self-service version	-	Υ	es	Yes						
DOOR	Double drain	-	0	pt	Opt						
Height center door / Height door   mm   3700/440   3735/35     Diameter   mm   373   560     POWER	Option 8mm holes drum	-	Υ	es	Yes						
Diameter         mm         373 →         560           POWER           Motor         kW         18 →         21           Max. power (Electric model)         kW         18,75 →         22 →           Max. power (steam and hot water)         kW         18,75 →         22 →           CONNECTIONS         ELECTRICAL         STEAM / HOT WATER         ELECTRICAL         STEAM / HOT WATER           Tension 230V-I + N + T         N° x mm2 / A         3 x 25 / 100A         3 x 15 / 16A         3 x 25 / 100A         3 x 15 / 16A           Tension 230V-III + T         N° x mm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Tension 400V-III + N + T         N° x mm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Steam inlet (Steam mod.)         inch         3 / 4"         3 / 4"         3 / 4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18         18           Water main pressure         Kgs/cm²         2-4         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6         199,6           Drain         mm/inch         3"         3"         3"         3" </td <td>DOOR</td> <td></td> <td></td> <td></td> <td></td> <td></td>	DOOR										
POWER           Motor         kW         2,2         3         1 <td>Height center door / Height door</td> <td>mm</td> <td>700</td> <td>/440</td> <td colspan="6">735/375</td>	Height center door / Height door	mm	700	/440	735/375						
Motor         kW         2.2         3         6         6         7         8         1         2         1         1         1         2         1         1         1         2         1         1         1         2         1	Diameter	mm	3	73	560						
Heating (Electric model)         kW         18         21           Max. power (Electric model)         kW         18,75         22           Max. power (steam and hot water)         kW         2,2         3           CONNECTIONS         ELECTRICAL         STEAM / HOT WATER         ELECTRICAL         STEAM / HOT WATER           Tension 230V-1H N + T         N° xmm2 / A         3 x 25 / 100A         3 x 16 / 63A         -           Tension 400V-III + N + T         N° xmm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Steam inlet (Steam mod.)         inch         3 / 4"         3 / 4"         3 / 4"         3 / 4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18         18           Water inlet         inch         3 / 4"         3 / 4"         3 / 4"         3 / 4"           Water main pressure         Kgs/cm²         2 - 4         2 - 4         2 - 4           Maximum water consumption*         Lit/h         164,8         199,6           Drainage capacity         Lit/min         3"         3"           Drainage capacity         Lit/min         20         200           MINENSIONS / PACKING DI	POWER										
Max. power (Electric model)         kW         18,75         22           Max. power (steam and hot water)         kW         3x 25 / 100A         3 ELECTRICAL         STEAM / HOT WATER         ELECTRICAL         STEAM / HOT WATER         ELECTRICAL         3x 25 / 100A         3x 1,5 / 16A	Motor	kW	2	,2	3						
Max. power (steam and hot water)         kW         2.2         3         CONNECTIONS         ELECTRICAL         STEAM / HOT WATER         AS x 1,5 / 16A         3 x 25 / 100A         3 x 1,5 / 16A         3 x 25 / 100A         3 x 1,5 / 16A         3 x 25 / 100A         3 x 1,5 / 16A         3 x 1,5 / 16A	Heating (Electric model)	kW	1	8	21						
CONNECTIONS         ELECTRICAL         STEAM / HOT WATER         ELECTRICAL         STEAM / HOT WATER           Tension 230V-I + N + T         N° xmm2 / A         3 x 25 / 100A         3 x 1,5 / 16A         3 x 25 / 100A         3 x 1,5 / 16A           Tension 230V-III + T         N° xmm2 / A         3 x 10 / 50A         -         3 x 16 / 63A         -           Tension 400V-III + N + T         N° xmm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Steam inlet (Steam mod.)         inch         3/4"         3/4"         3/4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18           Water inlet         inch         3/4"         3/4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drain         mm/inch         3"         3"           Draingage capacity         Lit/min         200         200           Diministration of the properties of the properti	Max. power (Electric model)	kW	18	,75	22						
Tension 230V- I + N + T         N° xmm2 / A         3 x 25 / 100A         3 x 1,5 / 16A         3 x 25 / 100A         3 x 1,5 / 16A           Tension 230V- III + T         N° xmm2 / A         3 x 10 / 50A         -         3 x 6 / 40A         -           Tension 400V- III + N + T         N° xmm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Steam inlet (Steam mod.)         inch         3 / 4"         3 / 4"         3 / 4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18           Water inlet         inch         3 / 4"         3 / 4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit / h         164,8         199,6           Drain         mm/inch         3"         3"           Drainge capacity         Lit / min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         kg         340/370         473/503	Max. power (steam and hot water)	kW	2	,2	3						
Tension 230V- III + T         N° x mm2 / A         3 x 10 / 50A         -         3 x 16 / 63A         -           Tension 400V- III + N + T         N° x mm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Steam inlet (Steam mod.)         inch         3/4"         3/4"         3/4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18           Water inlet         inch         3/4"         3/4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	CONNECTIONS		ELECTRICAL	STEAM / HOT WATER	ELECTRICAL	STEAM / HOT WATER					
Tension 400V- III + N + T         № x mm2 / A         3 x 4 / 32A         -         3 x 6 / 40A         -           Steam inlet (Steam mod.)         inch         3/4"         3/4"         3/4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18           Water inlet         inch         3/4"         3/4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Tension 230V- I + N + T	N° x mm2 / A	3 x 25 / 100A	3 x 1,5 / 16A	3 x 25 / 100A	3 x 1,5 / 16A					
Steam inlet (Steam mod.)         inch         3/4"         3/4"           Maximum steam consumption (Steam mod.)         Kg/h         15         18           Water inlet         inch         3/4"         3/4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Tension 230V- III + T	N° x mm2 / A	3 x 10 / 50A	-	3 x 16 / 63A	-					
Maximum steam consumption (Steam mod.)         Kg/h         15         18           Water inlet         inch         3/4"         3/4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Tension 400V- III + N + T	N° x mm2 / A	3 x 4 / 32A	-	3 x 6 / 40A	-					
Water inlet         inch         3/4"         3/4"           Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Steam inlet (Steam mod.)	inch	3/	/4"	3/4"						
Water main pressure         Kgs/cm²         2-4         2-4           Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Maximum steam consumption (Steam mod.)	Kg/h	1	5	18						
Maximum water consumption*         Lit/h         164,8         199,6           Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Water inlet	inch	3/	/4"	3/4"						
Drain         mm/inch         3"         3"           Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Water main pressure	Kgs/cm²	2	-4	2-4						
Drainage capacity         Lit/min         200         200           DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Maximum water consumption*	Lit/h	16	4,8	199,6						
DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Drain	mm/inch	3	3"	·						
DIMENSIONS / PACKING DIMENSIONS           Width / Width         mm         884/930         979/1.050           Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Drainage capacity	Lit/min	2	00							
Depth / Depth         mm         1.011/1.180         1.066/1.250           Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503											
Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Width / Width	mm	884	/930	979/1.050						
Height / Height         mm         1.307/1.560         1.411/1.600           Net weight / Gross weight         kg         340/370         473/503	Depth / Depth	mm	1.011	/1.180							
Net weight / Gross weight         kg         340/370         473/503		mm									
					473/503						
	Volume	m <sup>3</sup>			2,10						

\* N°20 Program, 75% load



- 01. Soap dispenser
- 02. Emergency stop
- 03. Usb port
- 04. Drain
- 05. Electric connection to liquid soap pumps
- 06. Electrical connection
- 07. Main switch
- 08. Auxiliar water inlet
- 09. Hot water inlet
- 10. Ground connection
- 11. Cold water inlet
- 12. Blur output / water overload
- 13. Liquid soap connection
- 14. Steam connection

	Α	В	C	D	Ε	F	G	Н	- 1	J	K	L	M	N	0	Р	Q	R	S	Т	U
MWCL-60	884	1.011	1.307	440	373	138	543	1.035	1.203	1.053	1.218	1.218	61	74	101	410	490	769	810	268	820
MWCL-80	979	1.066	1.411	366	560	143	625	1.139	1.307	1.142	1.322	1.322	61	74	101	506	586	864	906	262	917





