

STEAM CLEANERS



WWW.FORTADOR.COM



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ABOUT COMPANY

The FORTADOR company is a Developer of Steam Cleaning System as a synergy of European hand-crafted assembling production facility and United States Polymer Lab and Production of Eco-Friendly Cleaning detergents. We have an exclusive cooperation with the Lamborghini Caloreclima burners division, that allow to register international trademark "Fortador powered by Lamborghini". The company has sales and service offices in USA, Canada, Hong Kong, Thailand, Japan, Russia, UAE, South Americas, Australia and India. Our RD and Production Departments, have created 5-th generation of most advance steamers on the market, delivered best performance and reliability in class. Our Chemical Department, made most effective polymer system for any type of cleaning from automotive and boat to aircraft, and residential. High concentrated eco-friendly nano detergents deliver outstanding level of shine and less time consuming. Highest standard of hand-crafted equipment and only European original components allow to get up to 3 years of warranty to our state-of-art equipment.

Our Distributors



FORTADOR PRO PLUS

DIESEL HYBRID 3 GUNS 2 x CLEANING + 1 x WASHING







Fortador PRO PLUS Diesel Hybrid Steam Cleaner is the 5th generation of the steam cleaners manufactured in the Fortador production plant near Warsaw. It is the most powerful internal combustion device equipped with nearly 50 HP engine manufactured to our order and supplied by the Lamborghini company. The performance of this model includes 16 Bars at 0.6 l Diesel per manhour.

The Pro Plus model is a workhorse that enables to work by three operators at the same time. It cleans simultaneously two cars using steam, and the third one can be washed at the same time by steam with detergent. It features an integrated professional dry / wet extractor by the renowned Ghibli & Wirbel company. The Fortador Pro Plus as the only one device on the market is capable of providing simultaneously two different detergents with steam while not generating water and chemical sewages. It requires neither sewage system nor lodging applications. Delivery all around the country and e-training free of charge.

This is the most frequently chosen model by: mobile car washes, car repair shops, vulcanization service, auto detailing points and car showrooms.

A modern design and the highest quality components guarantee a position of the leader in the industry. Our dealer showroom can be found in Miami, Dubai, Pretoria, Hong Kong and Bangkok. The machines are built according to the standards and CE marking certification requirements, Lamborghini Caloreclima, TÜV Nord, Florida As, UL CAN / US.











We are nearly 10 years with you and the steam cleaner manufactured by us are nowadays the most frequently chosen brand in the world.

12-month warranty and it can be extended up to 3 years. Trust the leader.

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Max. working steam pressure	16 Bars or 232 PSI
Steam operating temperature	120-140 °C or 234-273 °F
Boiler temperature	260 °C or 506 °F regulated thermostat / auto stop
Number of boilers	2
Total boiler capacity	11.5 l (3 gallons)
Preheating time	2-7 min.
Capacity of water /diesel / detergent 1 / detergent 2 container	25 l (6 gallons) / 15.5 l (4 gallons) / 5 l (1.3 gallons) / 5 l (1.3 gallons)
Working volume	60-78 dB
Voltage and frequency	220-230 V / 50-60 Hz or 110-120 V / 50-60 Hz
Diesel usage	0.6 litres or 0.63 quarts of diesel in combined mode (Lamborghini® Eco 3R oil burner)
Net weight	200 kg or 440 lbs
Dimensions	77 cm (30 in) W x 140 cm (55 in) L x 112 cm (45 in) H
Standard accessories	Anti-burn steam gun RL 20 x 2 pcs. Isolated steam hose, pressure (10 m / 30 ft.) 2 pcs. Washing gun with small nozzle for upholstery (4 touch functions) 1 pc. Isolated steam pressure hose; steam cleaning and extraction (5 m / 15 ft.) 1 pc. Ghibli & Wirbel dry / wet vacuum cleaner 1 pc. Set of end parts for vacuum cleaner 1pc. Short lance with steam nozzle - variable spacing (50 cm / 20 inches) 1 pc. Release nozzle 1 pc. Transport belts 3 pcs. Repair set 1pc.
Case material	Aluminium
Boiler material	Boiler Steel
Fuel heating system	YES
Descale system	YES
Providing hot detergents	YES
Emergency stop button	YES
Protection against electric shock	YES
Working on water tanks or directly from garden hose connection	YES
Features of 7-inch LCD display	Pressure indicator; fluids level indicator; moto hours counter; serial number display; water level in boiler; signalisation of water pump and fuel pump operation; setting dry or wet steam; service panel; removing water in order to prevent freezing; starting a supply of detergents from machine.
Power consumption (W)	650 (machine) + 1150 (vacuum cleaner)



Purchase price includes a Certificate testifying that the Fortador machines have undergone the tests, which confirm a possibility to sterilise and disinfect them (issued by Sanitary-Epidemiological Station)

FORTADOR PRO S







Fortador PRO S Diesel Hybrid is the 5th generation of the steam cleaners manufactured in the Fortador production plant near Warsaw. It is the most powerful internal combustion device equipped with nearly 50 HP engine manufactured to our order and supplied by the Lamborghini company. The performance of this model includes 16 bars at 0.6 l Diesel per manhour.

The Pro S model is a compact Diesel with a relatively small dimension. It enables to wash the cars or make the other cleaning activities simultaneously by the two operators. The Fortador Pro S as the only one device on the market is capable of providing simultaneously two different detergents and a hot detergent with steam. It does not generate any water and chemical sewages. It requires neither sewage system nor lodging applications. Delivery all around the country and e-training free of charge.

This is the most frequently chosen model by: cleaning companies, construction companies, mobile car washes.

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Max. working steam pressure	16 Bars or 232 PSI
Steam operating temperature	120-140 °C or 234-273 °F
Boiler temperature	260 °C or 506 °F regulated thermostat / auto stop
Number of boilers	2
Total boiler capacity	11.5 l (3 gallons)
Preheating time	2-7 min.
Capacity of water/diesel/detergent 1	20 l (5 gallons) /10 l (2.5 gallons) / 5 l (1.3 gallons)
Working volume	60-78 dB
Voltage and frequency	220-230 V / 50-60 Hz or 110-120 V / 50-60 Hz
Diesel usage	0.6 litres or 0.63 quarts of diesel in combined mode (Lamborghini® Eco 3R oil burner)
Net weight	95 kg or 109 lbs
Dimensions	50 cm / 20 in (W) x 86 cm / 34 in (L) x 91 cm / 36 in (H)
Standard accessories	Anti-burn steam gun RL 20 x 2 pcs. Isolated steam hose, pressure (10 m /30 ft.) 2 pcs. Short lance with steam nozzle - variable spacing (50 cm / 20 inches) 1 pc. Transport belts 3 pcs. Repair set 1pc.
Case material	Aluminium
Boiler material	Boiler Steel
Fuel heating system	YES
Descale system	YES
Providing hot detergents	YES
Emergency stop button	YES
Protection against electric shock	YES
Working on water tanks or directly from garden hose connection	YES
Features of 7-inch LCD display	Pressure indicator; fluids level indicator; moto hours counter; serial number display; water level in boiler; signalisation of water pump and fuel pump operation; setting dry or wet steam; service panel; removing water in order to prevent freezing; starting a supply of detergents from machine.
Power consumption (W)	650 (machine) + 1150 (extractor)

The set includes:









Purchase price includes a Certificate testifying that the Fortador machines have undergone the tests, which confirm a possibility to sterilise and disinfect them (issued by Sanitary-Epidemiological Station)

FORTADOR VOLT PRO







Fortador VOLT PRO is the tried and tested powerful device in the offer of our company. It is the latest 5th generation machine based on the verified previous version of the 4th generation Fortador VOLT. The performance of this model includes 12 Bars so it is better than in the case of the leading internal combustion machines on the market.

This model is a unique steam device on the market that allows for working without any exhaust fumes. Two independent boilers guarantee the highest power and reliability. The Fortador VOLT PRO is powered by three phases and features the proprietary ECO PRO® system of reducing energy consumption. The VOLT PRO model is a MULTI TASK device, which enables two operators to work independently. It operates a steam cleaner and at the same time washes using steam with a detergent. It features an integrated professional dry / wet extractor manufactured by the renowned Ghibli & Wirbel company. The Fortador VOLT PRO does not generate any water or chemical sewages. It requires neither sewage system nor lodging applications. Delivery all around the country and e-training free of charge.

This is the most frequently chosen model by: cleaning companies, offices, car washes and auto detailing companies in the underground garages, car showrooms, shopping centres, production companies. It is an electric equivalent of the Fortador Pro PLUS Diesel Hybrid model.

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Max. working steam pressure	12 Bars or 174 PSI
Steam operating temperature	120-140 °C or 234-273 °F
Boiler temperature	190 °C or 370 °F thermostat / auto stop
Preheating time	4-10 min.
Capacity of water / detergent 1 /detergent 2 container	15 l (4 gallons) / 10 l (2.5 gallons) / 5 l (1.3 gallons)
Working volume	60-74 dB
Voltage and frequency	400 V / 50-60 Hz or 240 V / 50-60 Hz
Number of boilers	2 independent 5 l boilers, activated together or independently
Net weight	65 kg or 143 lbs
Dimensions	50 cm / 20 in (W) x 98 cm / 40 in (L) x 78 cm / 30 in (H)
Standard accessories	Anti-burn steam gun RL 20 X 1 pc. Isolated steam hose, pressure (10 m / 30 ft.) 1 pc. Washing gun with small nozzle for upholstery (4 touch functions) 1 pc. Isolated steam pressure hose; steam cleaning and extraction (5 m / 15 ft.) 1 pc. Ghibli & Wirbel dry / wet vacuum cleaner 1 pc. Set of end parts for vacuum cleaner 1pc. Short lance with steam nozzle - variable spacing (50 cm / 20 inches) 1 pc. Release nozzle 1 pc. Transport belts 3 pcs. Repair set 1pc.
Case material	Aluminium
Boiler material	Acid-resistant stainless steel
Descale system	YES
Providing hot detergents	YES
Emergency stop button	YES
Protection against electric shock	YES
ECO PRO® system of reducing energy consumption	YES
Features of 5-inch LCD display	Pressure indicator; fluids level indicator; moto hours counter; serial number display; water level in boiler; signalisation of water pump operation; setting dry or wet steam; service panel; removing water in order to prevent freezing; starting a supply of detergents from machine.
Power consumption (kW)	10.4



Purchase price includes a Certificate testifying that the Fortador machines have undergone the tests, which confirm a possibility to sterilise and disinfect them (issued by Sanitary-Epidemiological Station)

FORTADOR VOLT DUAL

ELECTRIC 2 GUNS 1 x CLEANING







Fortador VOLT DUAL is the latest development in the offer of our company. The performance of this model includes 12 Bars so it is better than in the case of the leading internal combustion machines on the market. It is the latest 5th generation machine based on the verified Fortador VOLT PRO model.

This model is a unique steam device on the market that allows for working without any exhaust fumes. Two independent boilers guarantee the highest power and reliability. The Fortador VOLT DUAL is powered by three phases and features the proprietary ECO PRO® system of reducing energy consumption. The VOLT DUAL model is like a strong man, which enables to work independently by two operators. It simultaneously cleans two cars using steam with a detergent. The Fortador VOLT DUAL does not generate any water or chemical sewages. It requires neither sewage system nor lodging applications. Delivery all around the country and e-training free of charge.

This is the most frequently chosen model by: car washes, cleaning companies and auto detailing companies in the underground garages, car showrooms, shopping centres, production companies.

It is an electric equivalent of the Fortador Pro S Diesel Hybrid model.

A modern design and the highest quality components guarantee a position of the leader in the industry. Our dealer showroom can be found in Miami, Dubai, Pretoria, Hong Kong and Bangkok. The machines are built according to the standards and CE marking certification requirements, Lamborghini Caloreclima, TÜV Nord, Florida As, UL CAN / US.











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ШАБН









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Max. working steam pressure	12 Bars or 174 PSI
Steam operating temperature	120-140 °C or 234-273 °F
Boiler temperature	190 °C or 370 °F thermostat / auto stop
Preheating time	4-10 min.
Capacity of water / detergent 1 /detergent 2 container	15 l (4 gallons) / 10 l (2.5 gallons) / 5 l (1.3 gallons)
Working volume	60-74 dB
Voltage and frequency	400 V / 50-60 Hz or 240 V / 50-60 Hz
Number of boilers	2 independent 5 l boilers, activated together or independently
Net weight	65 kg or 143 lbs
Dimensions	50 cm / 20 in (W) x 98 cm / 40 in (L) x 78 cm / 30 in (H)
Standard accessories	Anti-burn steam gun RL 20 x 2 pcs Isolated steam hose, pressure (10 m / 30 ft.) 2 pcs. Short lance with steam nozzle - variable spacing (50 cm / 20 inches) 1 pc. Transport belts 3 pcs. Repair set 1pc.
Case material	Aluminium
Boiler material	Acid-resistant stainless steel
Descale system	YES
Providing hot detergents	YES
Emergency stop button	YES
Protection against electric shock	YES
ECO PRO® system of reducing energy consumption	YES
Features of 5-inch LCD display	Pressure indicator; fluids level indicator; moto hours counter; serial number display; water level in boiler; signalisation of water pump operation; setting dry or wet steam; service panel; removing water in order to prevent freezing; starting a supply of detergents from machine.
Power consumption (kW)	10,4

The set includes:









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FORTADOR VOLT S

ELECTRIC 1 GUN 1 x WASHING







Fortador VOLT S is the tried and tested one-phase device in the offer of our company. It is the latest 5th generation machine based on the verified one-phase Fortador VOLT of the 3rd generation. This model can boast of the performance at the level of 8 Bars so it is better than in the case of the leading internal combustion machines on the market.

The advantage of this machine consists in a very small size while featuring the maximum power. In a combination with the ECO PRO® system our boiler constitutes a guarantee the highest power at the level of 8 Bars and reliability. The Fortador VOLT S is powered from a regular electric socket and features the proprietary ECO PRO® system of reducing energy consumption. The VOLT S model is a MULTI TASK device, which enables to perform many tasks. It possesses an integrated professional dry / wet extractor manufactured by the renowned Ghibli & Wirbel company. The Fortador VOLT S does not generate any water or chemical sewages. It requires neither sewage system nor lodging applications. Delivery all around the country and e-training free of charge.

This is the most frequently chosen model by: cleaning companies, offices, auto detailing companies, sole proprietorships involved in washing cars, sofas and carpets at the customer's site. Unmatched while comparing with washing vacuum cleaners.

A modern design and the highest quality components guarantee a position of the leader in the industry. Our dealer showroom can be found in Miami, Dubai, Pretoria, Hong Kong and Bangkok. The machines are built according to the standards and CE marking certification requirements, Lamborghini Caloreclima, TÜV Nord, Florida As, UL CAN / US.











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Max. working steam pressure	8 Bars or 116 PSI
Steam operating temperature	120-140 °C or 234-273 °F
Boiler temperature	190 °C or 370 °F thermostat / auto stop
Preheating time	4-10 min.
Capacity of water / detergent 1 /detergent 2 container	5 l (1.3 gallons) / 5 l (1.3 gallons)
Working volume	60-71 dB
Voltage and frequency	220-230 V / 50-60 Hz or 110-120 V / 50-60 Hz
Number of boilers	1
Net weight	45 kg or 99 lbs
Dimensions	43 cm / 17 in (W) x 67 cm / 26 in (L) x 88cm / 35 in (H)
Standard accessories	Washing gun with small nozzle for upholstery (4 touch functions) 1 pc. Isolated steam pressure hose; steam cleaning and extraction (5 m / 15 ft.) 1 pc. Ghibli & Wirbel dry / wet vacuum cleaner 1 pc. Set of end parts for vacuum cleaner 1pc. Short lance with steam nozzle - variable spacing (50 cm / 20 inches) 1 pc. Release nozzle 1 pc. Transport belts 3 pcs. Repair set 1pc.
Case material	Aluminium
Boiler material	Acid-resistant stainless steel
Descale system	YES
Providing hot detergents	YES
Emergency stop button	YES
Protection against electric shock	YES
ECO PRO® system of reducing energy consumption	YES
Features of 5-inch LCD display	Pressure indicator; fluids level indicator; moto hours counter; serial number display; water level in boiler; signalisation of water pump operation; setting dry or wet steam; service panel; removing water in order to prevent freezing; starting a supply of detergents from machine.
Power consumption (kW)	2-3.5











Purchase price includes a Certificate testifying that the Fortador machines have undergone the tests, which confirm a possibility to sterilise and disinfect them (issued by Sanitary-Epidemiological Station)

FORTADOR SELF WASH

The self-service Fortador Self Wash of the 5th generation is a high-tech robot for washing upholstery while using steam. Steam as opposed to water has a significantly higher temperature therefore it dissolves dirt in the upholstery much quicker. A steam nozzle combined with an extractor suction piece sucks simultaneously moisture and contaminations leaving the washed element clean and practically dry. The built-in professional dry / wet extractor manufactured by the renowned Ghibili & Wierbel company lower the dampness of the upholstery up to below 5%. The customer drives out with a dry, scented and disinfected vehicle. Its state-of-art design and a speech synthesizer will revitalise each facility.

The Fortador SELF WASH of the 5th generation does not generate any water or chemical sewages. It requires neither sewage system nor lodging applications. Delivery all around the country and e-training free of charge.

This is the most frequently chosen model by: self-service car washes, filling stations, shopping centres.

Return on investment within 12-18 months. The machine will earn for its leasing and You. Just show your customer that your company develops and offers new services. Cut your competition down to size.

The highest quality components guarantee a position of the leader in the industry. Our dealer showroom can be found in Miami, Dubai, Pretoria, Hong Kong and Bangkok. The machines are built according to the standards and CE marking certification requirements, Lamborghini Caloreclima, TÜV Nord, Florida As, UL CAN / US.















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Max. working steam pressure	8 Bars or 116 PSI
Steam operating temperature	120-140 °C or 234-273 °F
Boiler temperature	190 °C or 370 °F thermostat / auto stop
Preheating time	Prompt readiness
Capacity of water / detergent 1 /detergent 2 container	40 l (10 gallons) / 40 l (10 gallons)
Working volume	60-74 dB
Voltage and frequency	400 V / 50-60 Hz or 240 V / 50-60 Hz
Number of boilers	1
Net weight	450 kg or 992 lbs
Preferred connections (led from concrete foundations)	Electric energy / water (option) / sewage system (option)
Dimensions of machine base (concrete foundations required) Figure no. 1	66 cm / 26 in (W) x 50 cm / 20 in (L) x 250 cm / 10 in (H)
Dimensions	66 cm / 26 in (W) x 50 cm / 20 in (L) x 250 cm / 10 in (H)
Standard accessories	Isolated steam pressure hose; steam cleaning and extraction (8 m / 30 ft.) 1 pc. Washing gun with small nozzle for upholstery (4 touch functions) 1 pc. Isolated steam pressure hose; steam cleaning and extraction (5 m / 15 ft.) 1 pc. Ghibli & Wirbel dry / wet vacuum cleaner 1 pc. Set of keyboard and mouse 1 pc. GSM modem 1 pc. Coin acceptor (banknote and pay cards is not included in standard accessories) 1 pc.
Case material	Aluminium
Boiler material	Acid-resistant stainless steel
Anti-theft system	YES
Providing hot detergents	YES
Emergency stop button	YES
Continuous operations 24 hrs. / 365 days	YES
Protection against electric shock	YES
Cooling system and work at high temperatures	YES
Heating system and anti-freezing system	YES
ECO PRO® system of reducing energy consumption	YES
Features of 19-inch LCD display	Cash desk application; monitoring of operations with fault auto-re- porting; cash reports with function of sending e-mails every 24 hrs.; washing with detergent programme; washing with detergent pro- gramme for allergic persons; vacuum cleaning programme; remote diagnosis and repair via TimeViewer; service panel; starting a supply of detergents from machine.
Power consumption (kW)	6



COMPARISON OF MACHINES

Parameters of the most powerful steam cleaners on the market







	FORTADOR PRO PLUS	IDROMATIC ASTRA CHEMIC	OPTIMA DMF
Working pressure	max. 16 Bars (232 PSI)	max. 9 Bars (131 PSI)	max. 10 Bars (145 PSI)
Boiler temperature	max. 260 °C	max. 180 °C	max. 200 °C
Steam operating tempera- ture	120-140 °C or 234-273 °F	150 °C or 302 °F	85-120 °C or 185-273 °F
Fuel consumption	0.6 l per hour	3.4 l per hour	2 l per hour
Case material	aluminium	plastic	plastic
Touchscreen display	YES	NO	NO
Possibility of steam cleaning and vacuuming	YES	NO	NO
Possibility of providing hot detergent	YES	NO	NO
Warranty	Up to 3 years	1 year	1 year



NON-STANDARD ACCESSORIES



Water softener



Cargo Slider vehicle bodywork (sliding bed with flooring)



Brush with lance



10 meters (32 ft) Heavy Duty steam hose



End part for washing in a standing position



Truck for steam cleaning of underbody



50 cm lance



170 cm long lance



Divider for connecting a subsequent hose



Washing hose



10 m extension for washing hose



Cleaning hose



Extension for cleaning hose



Set of microfibre towels 50 pcs. + 1 pc. (600 g)



Gun for cleaning



Vacuum cleaner

The prices specified in the catalogue are net prices.

PRICELIST OF CHEMICALS

NOTE: VERY STRONG CONCENTRATES OF POLYMERS MANUFACTURED IN U.S.A.



Green Magic - 1 gallon Wash with Carnuba wax and polymer.1 gallon provides 1,000 l of ready product. Used for cleaning outer and inner parts.



Blue magic - 1 gallon
Polymer wash with dryer added directly to a boiler of steam cleaners.
1 gallon provides 1,000 l of ready product.



Tire Gel - 1 gallon Strongly concentrated gel. Provides high gloss for tires and non-painted elements. Lasts up to 30 days. Applied without dissolution.



Leather Vinyl Trim Protectant 1 gallon Strongly concentrated polymer for protecting leather, vinyl and plastic surfaces. Anti-static with UVA / UVB

filter. Applied without dissolution.



Yellow Interior Cleaner
1 gallon
Strong formula designed for steam
washers and extractors, which
disinfects and impregnates.
1 gallon provides 20 l of ready
product.



Paint Cleaner - 1 gallon
For removing waxes, tarmac, mechanical intrusions recommended prior an application of Ceramic Coating, Nano Sealant or White Nano Wax. Used both inside and outside. Applied without dissolution.



White Nano Wax - 1 gallon
Wax intended for a manual sprayer.
Combination of Carnuba wax /
polymer lasts on the surface up to
5 months. Shake strongly before
direct application.



Glass Cleaner - 1 gallon
It is a very strong glass cleaner
based on alcohol, not on ammonium. Mix 100 ml of mixture with
5 l of water.



Ceramic Coating

Ceramic protection for paint, windows and wheel rims. Protects surfaces from scratching up to 24 months. Direct application for degreased surface.



Nano sealant

NANO protection for paint, windows and wheel rims. Protects surfaces from scratching up to 9 months. Direct application for degreased surface.



Interior Guard

Hydrophobic formula to be applied for cleaned or washed surface. Direct application for dry washed or degreased surface.



Brown Degreaser

Very strong and popular degreasing and cleaning formula. Used for engines, wheel rims, surface disinfection. Applied for industrial cleaning. Favourite universal formula of cleaning companies and car washes. Concentrate diluted from 4:1 to 20:1 as needed.



STARTER KIT

Enables to perform any order.
Sufficient quantity for on average for 12 months and includes all above-mentioned products.
The prices specified in the catalogue are net prices.



STATEMENT OF EMISSION CLASS TEST RESULTS



Sękocin Stary, 5th January 2017



Certificate

Environmental expertise of combustion of the Fortador machines

We hereby determine that the Fortador oil devices that use on average 0.5 / 0.6l of diesel oil per one year are compliant with the fire protection provisions and the provisions of the District Inspectorate of Building Control (PINB). They were provided an operation permit for using in the spaces not requiring any additional mechanical ventilation. The devices are widely used in the car washes localize. Inter alia. in:

- underground parking lots (e.g. Main Building of the Supreme Court, Trump World Tower),
- closed parking lots in the shopping centres (np. Felicity shopping centre),
- closed parking lots in the sport stadium (e.g. Wembley, UK),
- airport (e.g. Qatar),
- hundreds of the similar facilities.



As a confirmation, we are attaching a printout of the T100 exhaust fumes emission on behalf of the Fortador manufacturer.

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ièle /	Prodotto / Modele):	testo 320 basic
série	e / No. Serie strun	nento / nº de serie:	03027928
	Sollwert Reference Référence Valore campione Referencia	Istwert Actual value Valeur effective Valore misurato Valor medido	zulässige Abweichung Permissible deviation Différence admissible Scostamento ammesso Desviación permitida
temp.	199.0 °C	199.5 °C	+- 1.0 °C
iture	199.0 °C	199.1 °C	+- 1.0 °C
	40.00 hPa	39.95 hPa	+- 0.60 hPa

Medición de trio/ presión

Gasmeßwerte / Gas values / Valeurs de gaz measurées / Parametri di misura dei gas / Gases patrón

Reg. Nr. Reg. No. Reg. No. Num. reg.	Gas Gas Gas Gas Gas	Sollwer Referei Référei Valore Referei	nce nce campione		effective misurato	Permi Différi Scost	sige Abwei issible dev ence admi amento an ación pern	iation ssible nmesso
20161232	02	2.53	8	2.54	8	+-	0.20	8
20161402	02	0.00	*	-0.01	8	+-	0.20	8
20161232	CO	700	ppm	701	ppm	+-	35	ppm
20161402	co	100	ppm	104	ppm	+-	10	ppm

Datum/Date/Date/Data/Fecha: 18.07.2016 Prüfer/Inspector/Vérificateur/Verificatore/Verificador: 276

Kalibrier-Protokoll

Certificate of conformity « Protocole d'étalonnage Certicifato di taratura » Informe de calibración

Wir bestätigen, dass dieses Testo-Produkt unter Beachtung eines zertifizierten Qualitätssicherungssystems nach DIN EN ISO 9001:2008 abgeglichen wurde.

Die dafür verwendeten Messeinrichtungen werden regeimäßig kalbrier und sind rückfürbar auf die nationalen Normale der Physikaliach Technischen Bundesanstatt (PTB) Deutschlands oder auf andere nationalen Normale. Wo keine nationalen Normale wie keine nationalen Normale wie keine nationalen Normale wie keine nationalen Normale existeren, nationalen Normale existeren, nationalen Normale existeren, nationalen Normale existeren, nationalen Normale.

Dieses Kalibrier-Protokoli belegt die Einhaltung der von uns zugesagten Toleranzen.

Sehr gerne informieren wir Sie über Katibrier-Zertifikate, di die Toleranzen des gesamten Messsystems (Messgerät und Fühler) beinhalten.

Dieses Zertifikat benötigen Sie, wenn das Messsystem in qualitäts-relevanten Prozessen innerhalb eines nach DIN EN ISO 9001:2008 zertifiziertem Unternehmen

Unsere Kalibrieriabors für Temperatur, Druck, Feuchte, Strömung und elektrische Messgrössen sind vom Deutschen Kalibrierdienst (DAkkS) akkreditierte Kalibrieriabors.

DAkkS-Kalibrierscheine werden für Messungen gefordert, bei denen die Genauigkeit eine entscheidende Rolle spielt.

We confirm that this Testo product was calibrated under the observation of a DIN EN ISO 9001:2008 certified quality

The measuring installations used for this calibration are calibrated regularly and can be traced back to the national standards of the Geman Federal Physical and Technical institution (PTB), or to other national standards. Should no national standards sait, the measuring procedure corresponds with the currently valid technical regulations and standards.

This calibration protocol is proof of adherence to the tolerances as confirmed by us.

We would be delighted to inform you about certificates of conformities which cover the tolerances for the complete measuring system (measuring instrument and probes).

This perificate is required only if the measuring system is to the LBB in processes relevant to quality in a company thin first to DIN EN ISO 9001:2008.

24 WS calibration certificates are required for measurements anare accuracy plays a decisive role.

Nous confirmons par la présente que ce produit testo a été étatione sous la surveillance d'un système d'assurance qualité séein la norre DIN ER NE DO 9001;2000. Las installations de mesure utilisées pour cat étalonnage sont étalonnées de facon régulière es l'appliquent aux normes nationales de l'Institut Fiddéral de Techniques Physiques d'Allemagne (PTB) ou sux autres normes nationales. S'il n'existe aucune norme nationale, le processus de mesure est conforme aux règles et normes techniques actuellement valables.

Ce protocole d'étalonnage vous indique que cet appareil respecte bien les tolérances constructeurs annoncées dans nos documentations.



Un certificat d'étalonnage est nécessaire pour la vérification de la chaîte complète (appareils et sonde). N'hésitez pas à nous contacter pour de plus amples rereseignements.

Ce certificat vous sera utile si vous vous trouvez être certifié ou en cours de certification DIN EN ISO 9001:2008.

Notre laboratoire d'étalonnage en température, pression, humidité, vitesse d'air et paramètres électriques a été accrédité par le DAKKS - équivalent BNM/COFRAC -, Bureau de Métrologia Allamand.

Les certificats d'étalonnage DAkkS/COFRAC sont indispensables lorsque les mesures effectuées doivent être précises.

Vi confermiamo che questo prodotto è stato collaudato seguendo il sistema di certificazione di qualità

Gii strumenti di misura elettronici utilizzati per la calibrazione sono a loro volta regolarmente verificati e possono essere ricondotti agli standard nazionali del PTE (Physikalisch Technische Bundeasnstali), Sistituto ufficiale tedesco per la determinazione degli standard tecnici.

determinazione degli standard teonici.

Questo protocollo di collaudo documenta l'osservanza delle tolleranze da noi indicate.

Siamo a Vs. disposizione per fornire informazioni sui Certificati di Taratura che comprendono le tolleranze del sistema di misura completo (strumento e sonda).

Questo documento VI sarà utile se glà siete certificati o siete in corso di certificazione DIN EN ISO 9001:2008.

I nostri laboratori di taratura per temperatura, pressione, umidità, velocità dell'aria e parametri elettrici sono stati accreditati dal PTB e sono in grado di rilasciare certificati ufficiali DAMS indispensabili quando le misure effettuate devono essere precise o riferibili.

Queste regole, riconosciute in tutta Europa, sono equivalen a quelle SIT italiane ed alle procedure tecniche standard

Confirmamos que este producto Testo se calibró de acuerdo con el sistema de garantía de calidad DIN EN ISO 9001:2008.

Les instalaciones de medición utilizadas para esta calibración se calibración se

Este informe de calibración es una prueba de las tolerancias que nosotros confirmarnos.

Estaremos encantados en informales sobre certificados de calibración que cubran las tolerancias para el sistema de medición completo (instrumento de medición y sondas).

Nuestros laboratorios de calibración para temperatura, presión, humedad, velocidad y parámetros eléctricos son laboratorios de calibración acreditados por el Servicio de calibración alemán (DAkkS).

Los certificados de calibración DAkkS son necesarios para las mediciones donde la precisión sea muy importante.



testo 320 basic

V1. 07 03027928/PL

18.08.2017 12:52:00

Fuel: Diesel oil O1odn: 3.0 % CO2Max: 15.9 %

Exhaust fumes

18.08.2017 12:51:38

228.2 °C Temperature 14.46 % CO2 8.3 % qA b 1.10 Lambda 1.9 % 02 18 ppm CO 20 ppm CO nieroz. 97.7 % **Efficiency** 31.0 °C Surface temperature 1.9 % O₂ pds --- mbar Continuous 51.6 °C Dew point

Exhaust fumes

228.2 °C	Temperature
14.46 %	CO2
8.3 %	qA b
1.10	Lambda
1.9 %	02
18 ppm	CO
20 ppm	CO nieroz.
97.7 %	Efficiency
31.0 ºC	Surface temperature
1.9 %	O2 pds
mbar	Continuous
51.6 °C	Dew point

AQUATIC LEGAL SURVEY

Aquatic Legal Survey

According to Art. 32 of the Water Law Act, the Water Permits for discharging wastewater into water or land or to the wastewater system devices are issued taking into account Chapters 1-4, Division IV, Title III of the Act of 27th April 2001 – Environmental Protection Act.

According to Art. 180 section 2 of the Environmental Protection Act, on operation of the installations that results in:

- 1) gas or dust releases into the ambient air,
- 2) discharge of wastewater into waters or to land

is permitted after obtaining the permit, if required.

Art. 180a determines that the permit for waste generation:

- 1) with a weight of above 1Mg per year in case of the hazardous waste or
- 2) with a weight above 5,000 Mg per year in case other than hazardous waste.

The substances from List I - causing water contamination, which should be eliminated:

- 1) Mercury (Hg).
- 2) Cadmium (Cd),
- 3) Hexachlorocyclohexane (CHC),
- 4) Terachlorometane (carbontetrachloride) (CCL₄),
- 5) Pentachlorophenol (PCP),
- 6) Aldrin (C₁₂H₈Cl₆),
- 7) Dieldrin (C₁₂H₈Cl₆O),
- 8) Endrin (C₁₂H₈Cl₆O),
- 9) Isodrin (C₁₂H₈Cl₆),
- 10) Dichloro-diphenyl-trichloroethane (DDT),
- 11) Polychlorinated biphenyls (PCB),
- 12) Polychlorinated triphenyls (PCT),
- 13) Hexachlorobenzene (HCB),
- 14) Hexachlorobutadiene (HCBD),
- 15) Dichloromethane (chlorophorm)(CHCl₃),
- 16) 1,2-dichloroethane (EDC),
- 17) Trichloroethylene (TRI),
- 18) Tetrachloroethylene (tetrachloroethen) (PER),
- 19) Dioxins,
- 20) Furans.

The substances from List II - causing water contamination, which sh

- 1) Arsine,
- 2) Barium,

- 3) Beryllium,
- 1) Boron,
- 5) Chromium hexavalent,
- Chromium generally,
- 7) Zinc,
- 8) Tin,
- 9) Cobalt,
- 10) Cooper, 11) Molybdenum,
- 12) Nickel,
- 13) Lead,
- 14) Selenium,
- 15) Silver, 16) Tantalum,
- 17) Titanium,
- 18) Vanadium,
- 19) Antimony,
- 20) Volatile phenols (phenol index),
- Phosphorus and phosphorus compounds determined generally as general phosphorus,
- 22) Petroleum hydrocarbons,
- 23) Free cyanides and bound cyanides,
- 24) Fluorides,
- 25) Ammoniacal nitrogen,
- 26) Nitric nitrogen.

My explanation: not discharging the above-mentioned substances to the wastewater devices in the amount exceeding the quantities indicated above will not result in a necessity to obtain the subsequent Water Permit for conducting activity in the above-mentioned scope.

According to Regulation of the Council of Ministers of 9 November 2010, as amended, on projects likely to have significant effects on the environment and on the detailed criteria considering the qualification the project as for preparing the environmental report on the effects on the environment exercised by the project, a car wash was not mentioned as the project, which may have significant effects on the environment in case of which drawing up the report on the effect on the environment may be required. With regard to the above there is no obligation to perform the proceedings due to an assessment in respect of the effects on the environment.

SUMMARY:

In case of discharging the industrial wastewater from the conducted activity to the wastewater system one should consider – firstly – if the wastewater contains the substances mentioned in the above-mentioned Regulation, and secondly – if it contains them if the quantities determined in the above-mentioned Act. It will be of decisive nature with regard to a necessity of possessing the Water Permit and/or a separator.

In case of the Fortador eco car wash, the wastewater is not discharged so it does not cause any law conflict.

Mantin Woroniyeki

STATEMENT IN RESPECT OF DISINFECTION





Certificate

A thermal disinfection process is carried out with a usage of water with a temperature of 93°C or steam with a temperature of 105-110°C and overpressure of 0.5 atm. The Fortador steam cleaners fulfil these parameters therefore they are perfectly suitable for decontamination and disinfection. They are frequently used in the sanitary equipment. An advantage of such disinfection is a possibility of monitoring a process and a lack of toxicity.

As an attachment we provide a report of the sanitary tasts performed by the State Sanitary Inspection in Olsztyn no. L/BOŻ-9051.3

The tests were carried out successfully and they Agnieszka Zglińska.

Form no. Po-OBZ-03/F11 of 10th June 2015



Voivodship Sanitary and Epidem 16 Żolnierska Street 10-561 Olsztyn

Laboratory in Eblag 40 Gen. J. Bema Street 82-300 Elblag





Food Research Department Phone 055 236 74 18 e-mail: labelblag@gmail.co

Elblag, 13th October 2015

Przedsiębiorstwo Wielobranżowe Anette Aneta Sadowska 83 A Osiek Suite 7

Report from the tests of sanitary swabs no. L/BO2-9051.3/321/z-322/z/2015

The test is related to sanitary samples taken by the Przedsiębiorstwo Wielobranżowe Anette, Aneta Sadowska, 83 A Osiek Suite 7, 87-340 Osiek, Poland (customer's order no. 83/TP/2015).

A scope of the tests is compliant with the order no. 9051.3/117Z/2015.

Test objective: obtaining data related to compliance with the food law

Sample Code Sanitary smear		Total quantity of microorganisms at temperature of 30°C	Presence of Salmonella at temperature of 37°C and 41.5°C	Presence of Listeria monocytogenes
			Test methods	
		PN-EN ISO 4833-1:2013-12	PN-EN ISO 6579:2003+A1:2007+ AC:2014-11	PN-EN ISO 1290- 1:1999/A1:2005
321/z	(Large smear) Sanitary smear – refrigerated truck (after washing and disinfection)	Determined 5.0 x 10 ¹ CFU/cm ²	Not present in 25g	Not tested
322/z	(Large smear) Sanitary smear – refrigerated truck (after washing and disinfection)	Not tested	Not tested	Not present in 25g

CFU - colony-forming unit

The microbiological tests were carried out within a period between 8th October 2015 until 13th October 2015.

Condition of samples: without objections

- 1. The report from the tests cannot be photocopied in the other way than as the whole, if The laboratory has not permitted otherwise.

 The results of the tests are related only to the tested sample.

 The laboratory is not responsible for the stage of sampling and transporting the sample.

STARSZY ASYSTENT mar Acadeszka Zglińska

GENERAL SALES CONDITIONS

RELATED TO CUSTOMERS WITH A REGISTERED OFFICE IN POLAND AND OUTSIDE POLAND (HEREINAFTER REFERRED TO AS "GSC")

§ 1. The undermentioned sales conditions are applicable to any and all sales contracts conducted by Fortador K.A. Traczyńscy Spóka jawna (Fortador K.A. Traczyńscy Registered Partnership) with a registered office in Sękocin Stary at 108 Al. Krakowska entered into the Register of Entrepreneurs of the National Court Register (KRS) number: 0000405994 (hereinafter referred to as the "Seller"). The provisions of these GSC are not applicable when the Purchaser is a natural person, who purchases the goods in the objective not connected with the conducted economic and professional activity. Any and all amendments and correction of these conditions shall be null and void unless a written consent of the Seller is obtained. In case of any contradictions or discrepancies between these conditions and the special conditions specified in the other documents of the Seller addressed to the Purchaser (e.g. contracts) the specific conditions shall be applicable.

§ 2. PLACING AND CONFIRMING ORDERS

An order becomes biding only after its written confirmation provided by the Seller submitted via electronic mail ("Order Confirmation"); pursuant to a mutual agreement a message received via e-mail shall be deemed as an evidence of concluding a commercial transaction. The orders can be placed via e-mail submitted to the following Seller's address: "info@fortador.com" and they are registered in the computer system. A failure to accept and confirm an order by the Seller constitutes neither an implied consent of the Seller to conclude a contract nor a violation of the provisions of the other contracts concluded between the Seller and the Purchaser. Any other information than those contained in the offer directed to the Purchaser or in the Order Confirmation, related, in particular to the prices, availability of the product range and order delivery dates, is included only for information purposes and does not constitute the offer within a meaning of the provisions of the Civil Code. The orders must be placed by the persons authorised to perform such acts (indicated in the appropriate register or possessing an adequate power of attorney). While placing the order, the Purchaser each time agrees to accept the GSC. In case of the foreign customers or the orders related to the special types of the goods, prior to commencing a realisation of the order, the Seller may request to make a payment of the specified sum in the amount that constitutes a concerned percentage of the order value, which should be paid by the Purchaser before the realisation of the order is commenced. This sum shall be an advance payment within a meaning of the Civil Code. In case when after the Order Confirmation occurs an obstacle, which is hard to be eliminated caused by force majeure, the Seller may, without any liability, partially or entirely cancel or suspend a performance of its obligation. As the force majeure should be understood such an event, which activity could not be foreseen despite the exercise of due diligence.

§ 3. DELIVERY AND TRANSPORT

The Seller shall deliver the specified goods personally, by the carriers or the Purchaser shall collect the goods directly from the Seller depending on the individual arrangements made between the parties. In case of the international transactions, a method of delivery, in that also a moment, in which a transfer of risk from the Seller to the Purchaser occurs shall be determined in the Order Confirmation, in the electronic correspondence or in a contract concluded between the parties on the basis of Incoterms® 2010 rules. In case of the national transactions upon a moment of the delivery of the goods to the carrier or an issuance of the goods to the Purchaser, any and all risk related to the sold goods, including a risk resulting from an occurrence of force majeure, is transferred to the Purchaser. When collecting the goods, the Purchaser is obliged to inspect quality, quantity, condition and weight of the goods and their compliance with the transport documents, as well as to report any and all objections and lodge a complaint to the carrier, and if necessary, to take appropriate legal steps towards it within a deadline determined by the law provisions. Furthermore, the Purchaser shall notify the Seller about any such claims. A period of time intended for the delivery shall be counted from a date of the Order Confirmation. The deadlines of the delivered of the ordered goods are specified in the Order Confirmation. The Seller disclaims any responsibility and liability in case of a failure to

deliver the goods in the deadline determined in such a manner if a failure to meet the deadline does not result from gross negligence of the Seller.

The transport costs, including the costs resulting from its special requests related to the method of transport (e.g. express shipping service, air shipping service, etc.).

§ 4. PRICES AND PAYMENT TERMS

A price for the ordered goods and payment deadlines are established in the Order Confirmation or in the contract concluded between the Seller and the purchaser. The price excludes any additional costs related to selling and delivering the goods. These costs, in particular transport costs shall be borne by the Purchaser. A payment should be made by a transfer to a bank account indicated by the Seller. A day on which the Seller's bank account is credited shall be deemed to be a payment date. Any discounts are provided from the foreseen payment amount unless a prior consent of the Seller is obtained. The Purchaser is not entitled to settle mutual claims unless these claims are adjudicated by a judgment, which has the force of res judicata. Both the Seller and the Purchaser can individually, on the basis of the contract or an e-mail correspondence, determine the other conditions of payment and goods delivery than those resulting from these GSC.

§ 5. FAILURE TO MAKE PAYMENT

If any delays occur in case of the payments for the goods prior to their delivery, the Seller is entitled to withhold a performance of the contract until the payments due are made by the Purchaser. In such case a non-performance of the contract by the Seller within a time limit until the Purchaser covers the payments due does not result in arising any liability for damages from the Seller, and the deadlines related to the contract performance applicable for the Seller are suspended for a period until the Purchaser covers the payments due to the benefit of the Seller. In case of sales with deferred payment, the seller reserves a right to an ownership title to the goods sold, issued to the Purchaser until the Purchaser covers any and all payments due, including incidental dues owed to the Seller. In case when the Ordering Party is behind with any payments resulting from the other contracts that bind the Seller with the Purchaser, until the Purchaser covers the payments due, the Seller is also entitled to withhold a performance of a part of entire contract, without falling in any delay or default because of this. In case of the delay or a failure to pay, the Seller may pursue claims – besides the other entitlements foreseen by the law provisions and these GSC – for paying statutory interest for delay.

§ 5. FAILURE TO COLLECT DELIVERY

In case of a failure to collect the goods delivered according to the order conditions by the Purchaser, the Purchaser shall be responsible and liable for paying any and all costs incurred by the Seller in connection with failure to collect the goods, in particular the costs of storage and warehousing.

§ 6. STATUTORY WARRANTY FOR DEFECTS OF SOLD PROPERTY WARRANTY

The Seller grants a warranty for the sold goods pursuant to the conditions determined in detail in the guarantee card. Liability of the Seller due to the statutory warranty for physical and legal defects of the sold goods is excluded.

§ 7. FINAL PROVISIONS

The Polish law provisions (in particular the provisions of the Civil Code) shall apply to the orders placed with the Seller and the orders shall be construed according to them; The application of the United Nations Convention on Contracts for the International Sale of Goods of 11th April 1980 shall be excluded. The seller shall be entitled to amend these GSC at any time, whereas the current provisions of the GSC shall apply to the already concluded contracts. Any and all disputes arising out of or in connection with the sales and/or an interpretation of these sales conditions shall be settled by the court of the competent jurisdiction.

WARRANTY CONDITIONS

A. CONDITIONS OF GRANTED WARRANTY

The Warrant of the device quality is Fortador K.A. Traczyńscy Spóka jawna (Fortador K.A. Traczyńscy Registered Partnership), and a contractor Autoryzowany Serwis Fortador (Fortador Authorised Service).

The warrant is liable for manufacturing defects (material or production defects) of the device within a period of – (option in case of the standard version) 12 months from a date of its selling; - (option for the extended version) 36 months or after 3,000 manhours of the device operation from a date of its selling.

Fortador Authorised Service accepts a repair order only through the Warrant web site where you should specify a model and series number of the device, as well as describe a breakdown at the same time attaching the photos of the reported fault. The reports made by phone shall not constitute a basis for commencing a compliant process.

Fortador Authorised Service shall make every effort to make an attempt to diagnose and provide a possible repair on the same day, however it reserves a right to commence the order within 72 hrs. Fortador Authorised Service works from Monday till Friday (8;30 a.m. – 5:00 p.m.) excluding public / statutory holidays and breaks in work.

The defects disclosed during the warranty shall be eliminated at the latest within 14 days, counting from a date of delivering the device to the Fortador Authorised Service.

The device, which is a subject of the compliant should be delivered to the service in a clean condition with a full standard equipment, its warranty card and a proof of purchase. The delivery of the dirty device results in charging a fee in the amount of the service rate per one hour.

The repairs are performed in the Fortador Authorised Service while the costs of the delivery and collection shall be borne by the Customer

A travel of the mobile service to the Customer's site is charged 1.20 PLN net for each kilometre, counting both directions from the service office.

A replacement machine is offered free of charge in case of the repairs, which last more than 1 man-day. An issuance of the replacement machine takes place personally in the registered office of the Warrant, after signing a delivery and acceptance protocol and after a delivery of the machine, in which Fortador Authorised Service has determined a fault.

Resulting from the normal wear of the parts and equipment, which while operated according to the recommendations are a subject of wearing prior an expiry of the warranty, such as: sensors, filters, fuses, valves, tubes, electrodes, cables, guns, end parts of the guns, steam washing hoses, steam cleaning hoses, sealants, engines for vacuum cleaners, press buttons in washing hose. A failure or a refuse to make a payment for the possible costs connected with the service operations, about which an owner of the device is informed suitably in advance shall void the warranty and shall result in charging with the diagnostics and delivery costs.

The repair of the accessories, hoses or a vacuum cleaner shall not require the delivery of the entire device, but only these elements that pose a problem.

After an expiry of the warranty period, the Customer has a right to perform a diagnostic and a review of the device at the price of 99.00 PLN net in the registered office of the Warrant upon a prior determination of a date.

B. REFUSAL TO ACCEPT A COMPLAINT

The Fortador Authorised Service shall refuse to accept a complaint only in the following cases: determination of using the device inconsistently with its intended use and user's manual, delivery of the dirty device without its standard equipment, warranty or with the modifications made on their own, a failure to make any and all payments due to the benefit of the Warrant. The Warrant has a right to withhold the warranty operations until an owner of the machine pays the payments due. A refusal to cover the payments due may result in cancelling the warranty.

Model and serial number: FORTADOR PRO+ STEAM CLEANER 230V EU SN: 0000A221601 Owner: EKO SPA SERVICE Jan Kowalski Warranty type: Standard Date of warranty issuance and date of the proof of purchase: Invoice 2016/11/K/0013 29/11/2016 2016-12-12 12:44 FORTADOR K.A. TRACZYŃSCY S.J. ½.

C. QUALITY WARRANTY EXCLUDES THE FOLLOWING DEFECTS:

Caused by an operation or a storage of the device in the extremely unfavourable conditions, i.e. humidity >80%, dusting, negative ambient temperature above 45°C.

Caused by water contaminations (symptoms: interlocking of steam or solenoid valves) or low-quality fuel (symptoms: no possibility to trigger or strong smoke during operating).

Caused by connecting to the defective electric installation.

Caused by flooding with liquid or damping of the electric or electronic subassemblies.

Resulting from using the other chemicals than recommended by the manufacturer for the concerned type of the device, not adhering to the operating notes while using the highly foaming or acid chemical agents.

Burn caused by using the improper fuel, suction of the inflammable liquids or smouldering contaminations.

The damages resulting from abandoning to provide the maintenance and handling activities by the User anticipated in the user's manual and the accompanying documents.

The damages resulting from using non-original, improper for the given model spare parts and equipment, performing repairs and alternations by the unauthorised persons.

Faults resulting from continuing the operations with the faulty device or equipment.

The owner has read the warranty conditions, has been trained and understands the conditions of the service operations during and after the warranty period.

The real wear parts such as filters, seals, valves, cleaning or washing hoses are a subject of wearing and are excluded from the warranty.

ADVANTAGES OF STEAM CLEANER

DISINFECTS – according to the provisions issued by Sanitary-Epidemiological Station the Fortador steam devices allow for the thermal disinfection, which neutralises waste, microorganisms and fungi at the operating temperature of 110°C.

PENETRATES DIRT - according to the provisions issued by Sanitary-Epidemiological Station the Fortador steam devices non-chemically penetrate dirt with a thickness not exceeding 75mm at the operating temperature and a working pressure of 16 Bars.

ELIMINATES ODOURS – steam emitted by the Fortador machines features odour neutralising properties what improves work comfort in the room cleaned by this method. These data are confirmed by the health protection system (www.gov.pl).

SAVES TIME – cleaning by the unsaturated steam does not force the party ordering a service to exclude the production lines and protect the surfaces against flooding. It saves time and financial efforts unavoidable in case of the water technology. Data confirmed by the technologists from the companies that use the services during performance of which the Fortador devices are applied, e.g. Ferrero Rocher, Coca Cola, Bosch, Egg Farm.

NO DIRT SPRAYING - the industrial lines, which produce food must fulfil the strict guidelines of the General Veterinary Inspectorate related to a method of cleaning and disinfection. The technology applied in the Fortador machines eliminates splashes during cleaning.

FRIENDLY TO ELECTRIC DEVICES – unsaturated steam features a temperature of 120°C and a humidity not exceeding 5%.

Working pressure of our machines gives a guarantee of no damage to the engines, electric machines or voltage systems. The steam allows for the precise degreasing, sterilisation of the surface without any risk of damage or to human health.

SAVES WATER — a constantly increasing price of m3 of the supplied water as well as restrictions resulting from using water for cleaning in the summer period financially displace an outdated technology of cleaning with the high-pressure water washers. The Fortador machines reduce a water consumption up to 90% in comparison with the traditional water method.

MINIMISES WASTE – the steam technology chosen by You as the only one enables to no-waste mobile and stationary washing. We do not emit the water and chemical waste. We do not enter into a conflict with the Water Regulation and consequently we do not need to apply for the additional permits or certificates from the Communal office in your voivodeship. Regulation of the Ministry of Environment of 24th July 2006.

NO CHANGE IN HUMIDITY – cleaning with unsaturated steam does not result in any humidity increase what is of importance in the places, where a steam condensation could case the quality issues.

NO CHEMICALS ARE NEEDED – the steam technology reduces a level of an emission of the chemical waste to zero. It not only enables to eliminate the costs of the chemicals, but first of all it does not cause any skin sensitizations, irritations and results in no damages of the cleaned surface by a left chemical mass.





