KRÜGER
CLEANING AND AIR CONDITIONING SOLUTIONS

2016/2017 CATALOGUE

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CLEANING SYSTEMS

- PRESSURE WASHERS
- VACUUM CLEANERS
- SCRUBBER MACHINES
- ROTARY MACHINES
- SWEEPING MACHINES
- STEAM GENERATORS
- NEBULISERS AND FOAMERS
- SELF-SERVICES
- CHEMICAL PRODUCTS

AIR CONDITIONING SYSTEMS

- HEATERS
- DEHUMIDIFIERS

The **most efficient** solutions in **industrial cleaning**

NEW ITEMS 2016/17

PRESSURE WASHERS

KH40018F-KH50021F

VACUUM CLEANERS

KRA12 - KRA1250

KRA14SIL KRA6M

KRA9040 -- KRA1650

SCRUBBER MACHINE

KF56BBC KF71B KF76B-KF76BPLUS-KF85BPLUS KF90B

SWEEPING MACHINES

KBM950

HEATERS

ASGARD120M ASGARD180A

ASGARD260A ASGARD340A

ASGARD100A

CLEANING SYSTEMS

PRESSURE WASHERS

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TSS
Complete automatic shut-down

Ideal for the home

Variable angle lances

PRESSURE WASHERS/COLD WATER/HOUSEHOLD USE

KH501/KH502/KH601

KH501

KH502

KH601

KH501/502/601 Accessories

RECOMMENDED USE

The models in the DIY pressure washers series provide high efficiency and efficiency in the removal of dirt in private vehicles, gardening machinery, façades, terraces, swimming pools, small vessels, etc.

FEATURES

- 3-piston steel axial pump and light alloy head.
- Universal electric motor 3400 rpm, Up to 1800 W, with thermal protection.
- Complete automatic shut-down.
- Product chemical output.
- Water inlet filter.
- Electric cable 3 m (5 m in KH601).
- Operation in vertical position.
- Handle and transport wheels (Except KH502).
- Accessory brackets (Except KH501).
- Fast connection gun hose in KH601.

Complete equipment

KH501/KH502 Standard

KH5011	Gun + hose 3 m
KH5013	Lance extension
KH5012	Variable angle lances
KH6014	Turbo lance
KH50111	Foam lance
KH6019	Fixed Brush

KH601 Standard

KH601FQ5	High pressure hose 5 m
KH601FQ7	Gun+extension
KH6015	Variable angle lance
KH6018	Accessory adaptor
KH6014	Turbo lance
KH50111	Foam lance
KH6019	Fixed Brush

KH501-KH502- KH601 Optional

KH60118	WC-ground floor-washing lance
KH6016	Blaster kit with probe
KH6017	Hose-mouse pipes unblocker kit 10 m

	KH501	KH502	KH601
Max.Pressure bar	100	105	135
Output l/h	300	300	360
Voltage pH-V-Hz	1-230 V-50 Hz	1-230 V-50 Hz	1-230 V-50 Hz
Total Power W	1,500	1,600	1,800
RPM	3,400	3,400	3,400
Max. Time Intake °C	40	40	60
Detergent tank l	0.5	0.5	0.5
Dimensions LxWxH cm	36x18x28	23x20x45	24x25x60
Weight kg	5	6.1	8

TSS
Complete automatic shut-down

Pressure and chemical product controlled from lance

Hose reel Included

Chemical product deposit

PRESSURE WASHERS/COLD WATER/SEMI-PROFESSIONAL SERIES

KH604/KH701

KH604

KH701

RECOMMENDED USE

Semi-professional cold water pressure washer which, unlike do-it-yourself machines, reach higher pressure with higher water input. Great performance machines that are simple and practical. Due to their high performance and efficiency in the removal of dirt, they are suitable for private use in vehicles, garden machinery, swimming pools, terraces, small workshops, small boats, small farms, poultry farms, etc.

FEATURES

- Professional axial pump, with 3 steel pistons and light alloy head.
- 2,400 W asynchronous electric motor, in KH604 with thermal protection.
- 3,100 W asynchronous electric motor, in KH701 with thermal protection.
- Automatic by-pass valve fitted in pump head.
- TSS complete automatic shut-down.
- Water inlet filter.
- Built-in chemical tank.
- Low pressure chemical product outlet controlled from lance.
- Accessory housings and brackets.
- Equipped with variable angle and high-low pressure nozzle.
- Built-in hose reel.
- 5 m electric cable.
- Operation in vertical and horizontal position.
- Quick hose connection to gun.

Complete equipment

KH604FQ6	High pressure hose 6 m, in KH604
KH701FQ8	High pressure hose 8 m, in KH701
KH701FQ9	Gun with thermal extension
KH6045	Variable angle lance nozzles
KH6018	Accessory adaptor
KH6014	Turbo lance
KH6019	Fixed Brush

Optional accessories

KH60118	Washer / dryer lance
KH6016	Blaster kit with probe
KH6017	Hose-mouse pipes unblocker kit 10 m

	KH604	KH701
Max. Pressure bar	140	160
Output l/h	360	420
Voltage pH-V-Hz	1-230 V-50 Hz	1-230 V-50 Hz
Total Power W	2,400	3,100
RPM	2,800	2,800
Max. Temp. Intake °C	60	60
Detergent tank l	1	1
Dimensions LxWxH cm	34x28x63	38x36x86
Weight kg	20	28

TSS
Complete automatic shut-down

5 high pressure nozzles kit

INOX
Bodywork Stainless Steel

PRESSURE WASHERS/COLD WATER/PROFESSIONAL SERIES

KHL120F/KHL1812F

Wall fastening kit

Wheels transport kit

Optional accessories page 21

RECOMMENDED USE

Professional high-performance cold water pressure washers for demanding jobs. Its high pressure and input performance make this equipment an ideal tool for the professional. Due to their stainless steel chassis and bonnet design, they are especially suitable for the food, livestock, agrarian, automotive, transport, construction and cleaning sectors, etc.

FEATURES

- High performance professional pump with three ceramic pistons, connecting rod / crankshaft system and brass head with built-in by-pass valve.
- 4-pole electric motor with continuous operation with thermal protection (1,450 rpm).
- Automatic by-pass valve.
- With pressure regulator and pressure gauge.
- TSS Automatic total shut-down.
- Water inlet filter.
- Chemical product outlet controlled rom lance.
- Stainless steel chassis and bonnet.
- 5 m electric cable.

Series accessories

MKA1481	1/4" 8 m high pressure hose with fast connection
MKA51681	5/16" 8 m high pressure hose with fast connection
37000036	Gun extension 600 mm
60020322	Fast connection lance nozzle holder 600 mm
50120282	5 interchangeable nozzles kit, different angles (0º-15º-25º-40º-detergent)

Optional accessories

66080058	Wall fastening kit
66080056	Wheels transport kit with handle

	KHL120F	KHL1812F
Max Pressure bar	30-120	30-180
Output l/h	660	720
Voltage pH-V-Hz	1-230 V-50 Hz	3-400 V-50 Hz
Power Total W	3,300	5,000
RPM	1,450	1,450
Max. Temp. Intake ºC	60	60
Detergent tank l	-	-
Dimensions LxWxH cm	50x43x56	50x43x56
Weight kg	34	34

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TSS
Complete automatic shut-down KHL1211F

TST
Electronic timed complete shut-down

Pressure and chemical product controlled from lance

1.450 rpm
1.450 rpm
Engine-pump unit

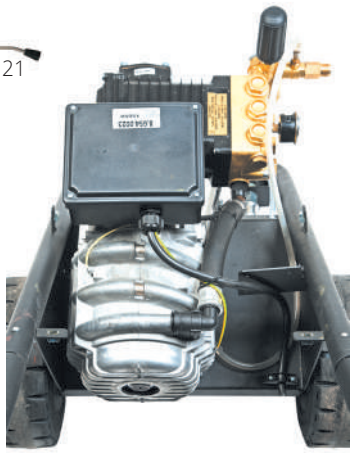
Glycerine-filled pressure gauge

Elastic joint motor-pump coupling

Optional hose reel

PRESSURE WASHERS/COLD WATER/INDUSTRIAL SERIES
KHL1211F/KHL1515F/KHL2015F/KHL2021F/KHL2515F

Optional accessories page 21



RECOMMENDED USE

Industrial high-performance cold water pressure washers for demanding jobs. Its high pressure and input performance make this equipment an ideal tool for the professional. Especially suitable for the following sectors: automotive/transport, agrarian/ livestock, food, construction, cleaning, etc.

FEATURES

- 1.450 rpm. high performance professional pump with three ceramic pistons, connecting rod / crankshaft system and brass head.
- 4-pole continuous operation electric motor with thermal protection (1,450 rpm).
- Water cooled engine (except KHL1211F).
- Motor pump unit in horizontal position.
- Elastic joint motor-pump coupling, 4 bearings in line (except KHL1211F).
- Automatic by-pass valve.
- With pressure regulator and pressure gauge.
- TSS Complete automatic shut-down in KHL1211F.
- TST Complete automatic timed shut-down in KHL1515F-KHL2015F-KHL2021F-KHL2515F.
- Water inlet filter.
- Chemical outlet with control, adjusted from lance.
- 5 m electric cable.
- Cover in stainless steel.
- Accessory brackets.
- Large diameter solid wheels that provide stability and mobility on all types of surfaces.
- 66080017 High Pressure Hose reel (without hose) (optional)

Series accessories

MKA1481	1/4" 8 m high pressure hose with fast connection (KHL1211F)
MKA516102	5/16" 10 m high pressure hose with fast connection (KHL1515F)
MKA38103	3/8" 10 m high pressure hose with fast connection (KHL2015F-2021-2515).
37000036	600 mm Pistol Extension (KHL1211-1515F)
66010002	600 mm Pistol Extension (KHL2015-1515F)
37010015	Stainless steel lance. 700 mm with fast connection
470111	1/4-1/8" High and low pressure nozzle holder
101/825	1/8" 25º high pressure nozzle according to machine model

	KHL1211F	KHL1515F	KHL2015F	KHL2021F	KHL2515F
Max Pressure bar	30-120	30-150	30-200	30-200	30-250
Output l/h	660	900	900	1,260	900
Voltage pH-V-Hz	1-230 V-50 Hz	3-400 V-50 Hz	3-400 V-50 Hz	3-400 V-50 Hz	3-400 V-50 Hz
Power Total W	3,300	5,000	7,000	9,400	8,500
RPM	1,450	1,450	1,450	1,450	1,450
Max. Temp. Intake ºC	60	60	60	60	60
Detergent tank l	-	-	-	-	-
Dimensions LxWxH cm	50x90x83	50x90x83	50x90x83	50x90x83	50x90x83
Weight kg	42	54	56	58	59

ABS Cover

Pressure and chemical product controlled from lance

Optional hose reel

TST

Electronic timed complete shut-down

1.450 rpm 1.450 rpm

Engine-pump unit

Glycerine-filled pressure gauge

Elastic joint motor-pump coupling

Chemical product deposit

PRESSURE WASHERS/COLD WATER/INDUSTRIAL SERIES

KH1510F/KH2015F

Optional accessories page 21

RECOMMENDED USE

Industrial pressure washers designed for demanding work, solving any cleaning problem in various sectors of industry, such as agriculture, livestock, construction, transport, etc.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor continuous service (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor = 95%, higher performance and lower current consumption..
- Elastic joint motor-pump coupling (4 bearings in line).
- 5 m electric cable and glycerine-filled pressure gauge.
- Automatic by-pass valve for pressure control.
- Low voltage 24 V operation.
- TST system, electronic timed complete shut-down.
- Low pressure chemical product outlet controlled from lance.
- Painted steel chassis with robust polypropylene handle, convenient for transport.
- 2 solid wheels and swivel wheel with parking brake.
- Built-in detergent dispenser.
- Support for lance, hose and electric cable.
- Ideal for hose reel storage.

Series accessories

MKA516105	5/16" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	Stainless steel lance. 420 mm with fast connection
1000101000	1/4-/4" High and low pressure nozzle holder
1003625	1/4" 25º high pressure nozzle according to machine model

Optional accessories

207104006	Hose reel up to 10 m (Without hose) (optional)
903504002	Steel handle + detergent tank for 207104006
207104009	Hose reel up to 20 m (Without hose) (optional)
903504001	Steel handle + detergent tank for 207104009

	KH1510F	KH2015F
Max Pressure bar	30-150	30-200
Output l/h	600	900
Voltage pH-V-Hz	1-230 V-50 Hz	3-400 V-50 Hz
Power Total W	3,300	7,000
RPM	1,450	1,450
Max. Max. Intake °C	60	60
Detergent tank l	4	4
Dimensions LxWxH cm	75x50x82	75x50x82
Weight kg	60	73

ABS Cover

Pressure and chemical product controlled from lance

Optional hose reel

TST

Electronic timed complete shut-down

1.450 rpm 1.450 rpm

Engine-pump unit

Glycerine-filled pressure gauge

Elastic joint motor-pump coupling

PRESSURE WASHERS/COLD WATER/INTENSIVE OPERATION

KH2020F/KH2520F/KH2030F

Optional accessories page 21

RECOMMENDED USE

Industrial pressures washers for intensive use and designed for demanding work, solving any cleaning problem in various sectors of industry, such as agriculture, livestock, construction, transport, etc.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor = 95%, higher performance and lower current consumption..
- Elastic joint motor-pump coupling (4 bearings in line).
- 5 m electric cable and glycerine-filled pressure gauge.
- Automatic by-pass valve for pressure control.
- Low voltage 24 V operation.
- TST system, electronic timed complete shut-down.
- Low pressure chemical product outlet controlled from lance.
- Painted steel chassis with robust polypropylene handle, convenient for transport.
- 2 solid wheels and swivel wheel with parking brake.
- Support for lance, hose and electric cable.
- Ideal for hose reel storage.

Series accessories

MKA38106	3/8" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	420 mm stainless steel lance with fast connection
1000101000	1/4- 1/4" High and low adjustable pressure nozzle holder
1003625	1/4 - 25º High pressure nozzle according to machine model

Optional accessories

72867	Hose reel up to 40 (without hose)

	KH2020F	KH2520F	KH2030F
Max Pressure bar	30-200	30-250	30-200
Output l/h	1,200	1,200	1,800
Voltage pH-V-Hz	3-400 V-50 Hz	3-400 V-50 Hz	3-400 V-50 Hz
Total Power W	9,400	11,000	11,000
RPM	1,450	1,450	1,450
Max. Temp. Intake ºC	60	60	60
Detergent tank l	-	-	-
Dimensions LxWxH cm	115x62x93	115x62x93	115x62x93
Weight kg	127	129	133

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NEW
KH40018F-
KH50021F

INOX
Bodywork
Stainless Steel
KH3515 and
KH522

TSI
Complete smart
shut-down
KH3515

1.450 rpm
1.450 rpm
Engine-pump
unit

Glycerine-filled
pressure gauge

Elastic joint
motor-pump
coupling

PRESSURE WASHERS/COLD WATER/INTENSIVE OPERATION

KH40018F/KH50021F/KH3515/KH522

KH522/KH3515

KH40018F/ KH50021F

Optional accessories page 21

RECOMMENDED USE

High-power and -input cold water power cleaners for intensive use. Especially suitable for very demanding work in different sectors: naval, construction, heavy industry, special cleaning, etc.

FEATURES

- INTERPUMP high performance professional pump with three ceramic pistons and connecting rod / crankshaft system. 1,450 rpm, in KH40018F model.
- High performance A. R. professional pump with three ceramic pistons and connecting rod / crankshaft system 1,450 rpm, in model KH50021-KH3515 and KH522.
- Elastic joint motor-pump coupling (4 bearings in line).
- High efficiency electric motors, lower power consumption, EME-Unielectric, (CIMME IE2 in KH522), continuous service with thermal protection. Four poles of 16, 20, 25 Hp and 30 Hp 400 V 50 Hz, depending on model.
- Star-delta start-up on KH40018F-KH50021F and KH522 models.
- Control panel in low voltage 24 V.
- TSI system (complete smart shut-down in KH3515).
- P.A. state-of-the-art by-pass valve with pressure.
- P.A. safety valve.
- Glycerine-filled high pressure gauge.
- Water inlet filter.
- Stain. steel tank and ¾" filter water inlet in KH522.
- 5 m electric cable.
- Thermostatic valve on models KH40018F and KH50021F.
- Robust tubular steel frame painted to avoid vibrations.
- Stain. steel hood cover in KH3515 and KH522 models.
- 4 D-28 mm solid wheels on models KH3515-KH40018F-KH50021F.
- 2 Swivel castors with parking brake and 2 D-28 cm wheels in KH522.

KH3515-KH40018F-KH50021F Standard acc.

MKA3810	R2T 3/8" 10 m A.P. hose, 400 bar in KH3515-KH40015F
112250022	A.P. Hose 600 bar R2A 3/8"-10 m (KH50021F)
30473000	RL57 gun with rotating fitting + stain. steel lance. 1050 mm with thermal protection (KH40015F-KH50021F)
302122003	500 mm pistol with thermal
302212034	extension (KH3515)
1000101000	Stainless steel lance. 700 mm with fast connection (KH3515)
1003602505	High and low pressure nozzle holder (KH3515) 1/4" 25° High pressure stain. steel nozzle

KH522 Standard accessories

1030500000	RL84 gun with anti-recoil
1030800080	800 m stain. steel ½" lance
1030501921	Anti-recoil shoulder support
1003602505	1/4" 25° High press. stain. steel nozzle
016800038x10	A.P. Hose 600 bar R4A 3/8"-10 m steel

	KH40018F	KH50021F	KH3515	KH522
Max Pressure bar	30-400	30-500	30-350	30-500
Output l/h	1,080	1,260	900	1,320
Voltage pH-V-Hz	3-400-50	3-400-50	3-400-50	3-400-50
Total Power W	15,000	19,000	12,000	22,500
RPM	1,450	1,450	1,450	1,450
Max. Temp. Intake °C	60	60	60	60
Dimensions LxWxH cm	125x66x90	125x66x90	125x65x90	146x89x107
Weight kg	140	160	125	335

INDEPENDENT
PETROL

5 high pressure nozzles kit

PRESSURE WASHERS/COLD WATER/INDEPENDENT PROFESSIONAL SERIES

KHG170F/KHG220F

KHG170F

KHG220F

Optional accessories page 21

RECOMMENDED USE

Independent cold water pressure cleaners for works in which there is no electric network. Its high pressure and input performance make this equipment an ideal tool for the professional. Especially suitable for the following sectors: Agrarian / livestock, construction, cleaning, etc.

FEATURES

- High performance professional pump with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Endothermic, single-cylinder, four stroke, BEST-MOTORS petrol engine, start-up by self-winding belt and low-oil detector.
- State-of-the-art by-pass valve with pressure regulator.
- Water inlet filter.
- Thermostatic discharge valve that prevents heating of the pressure pump.
- Low pressure chemical product outlet controlled from lance.
- Tubular chassis in oven-lacquered steel..
- 2 pneumatic wheels with metal rim and D-25 cm double bearing in KHG170F.
- 4 pneumatic wheels with metal rim and D-25 cm double bearing in KHG220F.
- Includes five different high pressure nozzles: 0º, 15º, 25º, 40º and detergent at low pressure.

Standard Equipment

LA8MKHG	10 m 5/16” R2A Flexible hose with fast connection
KHG22016	500 mm pistol with thermal extension + 500 mm fast connection galvanised steel lance
C100KHG	5 high pressure nozzles kit

	KHG170F	KHG220F
Max Pressure bar	30-170	30-200
Output l/h	750	900
Engine Power kW/Hp	4.8/6.5	9.6/13
Engine type	Petrol	Petrol
RPM	3,400	3,400
Fuel tank l	3.6	6.5
Fuel consumption l/h	2.9	3.6
Max. Temperature Int. ºC	60	60
Start-up	Manual	Manual
Dimensions LxWxH cm	70x56x57	105x69x90
Weight kg	42	72

INDEPENDENT **PETROL** KHG2015FAE

INDEPENDENT **DIESEL** KHD2015FAE

START-UP **ELECTRIC**

5 high pressure nozzles kit

Pump revolutions

PRESSURE WASHERS/COLD WATER/INDEPENDENT PROFESSIONAL

KHG2015FAE/KHD2015FAE

Complete professional equipment

Optional accessories page 21

RECOMMENDED USE

Independent cold water pressure cleaners for works in which there is no electric network. Its high pressure and input performance make this equipment an ideal tool for the professional. Especially suitable for the following sectors: agrarian/livestock, construction, services, cleaning, roads, etc.

FEATURES

- High performance professional pump with three ceramic pistons, connecting rod / crankshaft system and brass head 1.560 rpm.
- Independent motor and pump reducer.
- Endothermic, single-cylinder, four stroke, BEST-MOTORS petrol engine, start-up by self-winding belt and low-oil detector in KHG2015FAE.
- Endothermic, single-cylinder, four stroke, BEST-MOTORS diesel engine, start-up by self-winding belt and low-oil detector in KHD2015FAE.
- State-of-the-art by-pass valve with pressure control.
- Water inlet filter.
- Thermostatic discharge valve that prevents heating of the pressure pump.
- Low pressure chemical product outlet controlled from lance.
- Includes five different high pressure nozzles: 0º, 15º, 25º, 40º and detergent (detergent at low pressure).

Complete equipment

LA8MKHG	10 m 5/16" R2A Flexible hose with fast connection
KHG22016	500 mm pistol with thermal extension + 500 mm fast connection galvanised steel lance
C100KHG	Five high-pressurenozzles kit

	KHG2015FAE	KHD2015FAE
Max Pressure bar	30-200	30-200
Output l/h	900	900
Engine Power kW/Hp	9.6/13	7.4/10
Engine type	PETROL	DIESEL
RPM	1,560	1,560
Fuel tank l	6.5	5.5
Fuel consumption l/h	3.6	2.8
Max. Temperature Int ºC	60	60
Start-up	Electrical	Electrical
Dimensions LxWxH cm	105x69x90	105x69x90
Weight kg	86	106

INDEPENDENT **PETROL** KHA215GFSP KHA3517GFSP

INDEPENDENT **DIÉSEL** KHA215DFSP

Optional hose reel

1.450 rpm 1.450 rpm

Engine-pump unit

Pressure and chemical product controlled from lance

Double lance

START-UP **ELECTRIC** KHA3517GFSP KHA215GFSP

PRESSURE WASHERS/COLD WATER/INDEPENDENT/INTENSIVE OPERATION

KHA215GFSP/KHA3517GFSP/KHA215DFSP

KOLHER, THE BEST PETROL ENGINE ON THE MARKET

Optional accessories page 21

RECOMMENDED USE

Independent cold water pressure cleaners for works in which there is no electric network. Its high pressure and input performance make this equipment an ideal tool for the professional. Suitable for long and intensive work. Especially suitable for the following sectors: agrarian/livestock, construction, services, cleaning, roads, etc.

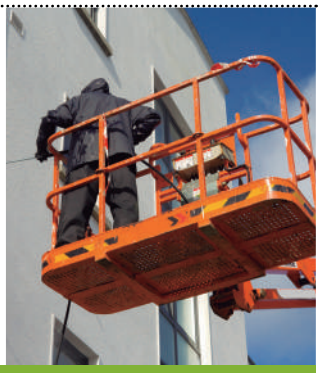
FEATURES

- High performance HAWK 1.450 rpm professional pump (2,000 hours guaranteed without change gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Independent motor and pump reducer.
- Endothermic, single-cylinder, four stroke, KOLHER 14 Hp petrol engine, start-up by self-winding belt and low-oil detector in KHA215GFSP.
- Endothermic, single-cylinder, four stroke, KOLHER 25 Hp petrol engine, start-up by self-winding belt and low-oil detector in KHG3517FAE.
- Single-cylinder, four stroke, LOMBARDINI 440 11 Hp diesel engine, electric start-up and low-oil detector in KHA215DFSP.
- State-of-the-art by-pass valve with pressure regulator and safety valve.
- Water inlet filter.
- Glycerine-filled pressure gauge.
- Thermostatic discharge valve that prevents heating of the pressure pump.
- Low pressure chemical product outlet controlled from lance. except in KHA3517GFSP.
- Tubular chassis in oven-lacquered steel..
- 4 pneumatic wheels with metal rim and D-25 cm double bearing.
- 40 m hose reel (optional).

Series accessories

MKA3810	A.P. Flexible hose 10 m R2A 3/8”
1000908331	Double lance with thermal extension and pressure adjustment
301822007	350 bar 40 l/m Pistol with rotating fitting
1003625	High pressure nozzle 25 °C
1003605020	Low pressure nozzle

	KHA215GFSP	KHA215DFSP	KHA3517GFSP
Max Pressure bar	30-200	30-200	30-350
Output l/h	900	900	1,020
Engine Power kW/Hp	10.2/14	8.1/11	18.5/25
Engine type	PETROL	DIESEL	PETROL
RPM	1,450	1,450	1,450
Fuel tank l	3.6	6.5	6.5
Fuel consumption l/h	3.2	2.4	4.4
Max. Temperature Int. °C	60	60	60
Start-up	Manual	Electrical	Electrical
Dimensions LxWxH cm	71x75x75	71x75x75	98x80x75
Weight kg	85	101	162



HOT WATER

TST

Electronic timed complete shut-down KH140C

TSS

Complete automatic shut-down in KHL1108C

ABS

ABS Cover

Pressure and chemical product control from lance

Chemical product deposit

Glycerine-filled pressure gauge

PRESSURE CLEANERS/HOT WATER/SEMI-PROFESSIONAL

KH140C/KHL1108C

KH140C

KHL1108C

Optional accessories page 21

RECOMMENDED USE

Semi-professional hot water cleaner ideal for the elimination of all types of dirt, especially fats and oils in the domestic sectors, small workshops, small-scale industry, agrarian, etc.

FEATURES

KH140C Characteristics

- Semi-professional axial pump with brass head and three steel pistons with ceramic coating.
- Asynchronous continuous service electric motor (2,800 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- 5 m electric cable and glycerine-filled pressure gauge.
- Automatic by-pass valve for pressure control.
- Safety valve for overpressure discharge.
- Low voltage 24 V operation.
- TST system, electronic timed complete shut-down.
- Direct water intake with inlet filter.
- High performance boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Burner shut-down due to lack of water.
- Anti-seizure diesel oil pump.
- Diesel oil level control gauge.
- Temperature control thermostat 30 - 90 °C.
- "A"Diesel oil fuel.
- Low pressure chemical product outlet controlled from lance.
- Painted steel chassis with built-in polypropylene detergent and diesel oil tanks.
- 4 D-20 cm solid wheels.
- Support for lance, hose and electric cable.

Series accessories

MKA1484	1/4" 8 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	420 mm stain. steel nozzle with fast connection
1000101000	1/4-/4" High and low pressure nozzle holder
1003625035	1/4 - 25° 035 high pressure nozzle

Optional accessories page

207104004	10/20 m Hose reel (without hose)

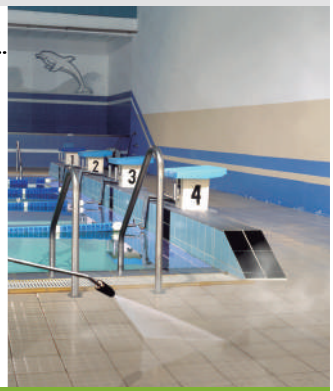
KHL1108C Features

- Semi-professional axial pump with light alloy head and three steel pistons with ceramic coating.
- Asynchronous continuous service electric motor (2,800 rpm), with thermal protection included in all winding phases.
- 5 m electric cable.
- Automatic by-pass valve fitted in pump head.
- Low voltage 24 V operation.
- TSS System, complete shut-down.
- Safety valve.
- Independent hot water system.
- Direct water intake with inlet filter.
- High performance vertical boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Anti-seizure diesel oil pump.
- Temperature control thermostat 30 - 90 °C.
- "A" Diesel oil fuel.
- Low pressure chemical product outlet controlled from lance.
- 2 D-20 cm solid wheels.
- Handle with ergonomic grip.
- Support for lance, hose and electric cable.

KHL1108C Series accessories

46180049	1/4" 8 m high pressure hose with fast connection
37000037	500 mm pistol with thermal extension
60020309	420 mm stain. steel lance with variable angle nozzle and fast connection

	KHL1108C	KH140C
Max Pressure bar	110	30-140
Output l/h	450	600
Voltage pH-V-Hz	1-230 V-50 Hz	1-230 V-50 Hz
Total Power W	2,400	2,800
RPM	2,800	2,800
Max. Temp. Generated °C	30÷90	30÷90
Diesel-oil consumption kg/h	3.5	4
Diesel-oil tank l	14	18
Detergent tank l	2.5	8
Dimensions LxWxH cm	82x60x87	87x59x72
Weight kg	72	90



HOT WATER

TST
Electronic timed complete shut-down

1.450 rpm
1.450 rpm
Engine-pump unit

Elastic joint motor-pump coupling

DSS
DSS Safety Systems

Optional hose reel

Glycerine-filled pressure gauge

PRESSURE WASHER/HOT WATER/PROFESSIONAL/LION SERIES

KH14011CP/KH17013CP/KH20015CP

Optional accessories page 21

RECOMMENDED USE

Semi-professional hot water pressure washer, ideal for the elimination of all types of dirt, especially grease and oil with its high water temperature up to 120°C. Suitable for use in the automotive, industrial, agricultural, livestock and food sectors, etc.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor n = 95%, higher performance and lower power usage.
- Elastic joint motor-pump coupling (4 bearings in line).
- 5 m electric cable.
- Oil level control and glycerine-filled pressure gauge.
- Automatic independent by-pass valve for pressure control.
- Safety valve for overpressure discharge.
- Low voltage 24 V operation.
- TST system, electronic timed complete shut-down.
- DSS system (safety device that prevents start-up if flexible hose pressure is not less than 15 bar).
- Direct water intake with inlet filter.
- High performance boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Maximum safety boiler with air cooling system that prevents external heating, equipped with steel pipe coil with a thickness of 2.6 to 2.8 mm, the most durable on the market.
- Complete shut-down of the machine in case of no diesel oil.
- Anti-seizure diesel oil pump.
- Diesel oil level control gauge.
- Temperature control thermostat 30 - 120 ºC.
- "A" Diesel oil fuel.
- Low pressure chemical product outlet.
- Chassis with built-in polypropylene diesel oil tank.
- Brackets and housing for accessories.
- 2 Ø 20 cm fixed wheels, and 1 Ø 12 cm rotating, which facilitate its movement.

Possibility (on request) of voltage to 230 three-phase in KH17013CP-K20015CP and 60 Hz in both models.

KH14011CP-KH17013CP-KH20015CP Series accessories

MKA516105	5/16" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	420 mm stain. steel lance with fast connection
1000101000	1/4-/4" High and low pressure nozzle holder
1003625	1/4 25º high pressure nozzle according to machine model

KH14011CP-KH17013CP-KH20015CP Optional accessories

207104013	10/20 m Hose reel (without hose)

	KH14011CP	KH17013CP	KH20015CP
Max Pressure bar	30-140	30-170	30-200
Output l/h	660	780	900
Voltage pH-V-Hz	1-230 V-50 Hz	3-400 V-50 Hz	3-400 V-50 Hz
Total Power W	3,300	5,300	6,800
RPM	1,450	1,450	1,450
Max. Temp. Generated °C	30÷120	30÷120	30÷120
Diesel-oil consumption kg/h	4	4.5	5
Diesel-oil tank l	20	20	20
Dimensions LxWxH cm	95x60x100	95x60x100	95x60x100
Weight kg	88	90	100

HOT WATER

1.450 rpm 1.450 rpm
Engine-pump unit

DSS
DSS Safety Systems

TST
Electronic timed complete shut-down

Optional hose reel

Elastic joint motor-pump coupling

Glycerine-filled pressure gauge

PRESSURE WASHER/HOT WATER/INDUSTRIAL/TIGER SERIES

KH120CI/KH170CI/KH200CI

Optional accessories page 21

RECOMMENDED USE

Industrial hot water pressure washer, ideal for the elimination of all types of dirt with its high water temperature up to 150°C. Its state-of-the-art components make this machine the ideal tool for the most demanding professionals. Suitable for use in the automotive, industrial, agricultural, livestock and food sectors, etc.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor n = 95%, higher performance and lower power usage.
- Elastic joint motor-pump coupling. (4 bearings in line)
- 5 m electric cable.
- Oil level control and glycerine-filled pressure gauge.
- Automatic by-pass valve for pressure and steam production control.
- Safety valve for overpressure discharge.
- Low voltage 24 V operation.
- TST system, electronic timed complete shut-down.
- DSS system (safety device that prevents start-up if flexible hose pressure is not less than 15 bar).
- Direct water intake to pump.
- Stain. steel high performance boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Maximum safety boiler with air cooling system that prevents external heating, equipped with steel pipe coil with a thickness of 2.6 to 2.8 mm, the most durable on the market.
- Burner shut-down due to lack of water.
- Independent fan motor.
- Anti-seizure diesel oil pump.
- Diesel oil level control gauge.
- Temperature control thermostat 30 - 150 ºC.
- "A" Diesel oil fuel.
- Low pressure chemical product outlet.
- Chassis and detergent and gas oil tanks in polypropylene, without risk of chemical corrosion, adapts very well to salty places and humidity in the environment.
- 4 25 cm diameter wheels, with parking brake.

Possibility (on request) of voltage to 230 three-phase in KH17013CP-K20015CP and 60 Hz in both models.

KH120CI-KH170CI-KH200CI Series accessories

MKA516105	5/16" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	Stainless steel lance. 420 mm with fast connection
1000101000	1/4-/4" High and low pressure nozzle holder
1003625	1/4" 25º high pressure nozzle according to model

KH120CI-KH170CI-KH200CI Optional accessories

207104009	10/20 m Hose reel (without hose)

	KH120CI	KH170CI	KH200CI
Operating pressure bar	30-120	30-170	30-200
Output l/h	660	780	900
Voltage pH-V-Hz	1-230 V-50 Hz	3-400 V-50 Hz	3-400 V-50 Hz
Total Power W	3,300	5,420	7,000
RPM	1,450	1,450	1,450
Max. Temp. Generated °C	30÷150	30÷150	30÷150
Diesel-oil consumption kg/h	4.78	4.78	5.5
Diesel-oil tank l	45	45	45
Detergent tank l	10	10	10
Dimensions LxWxH cm	105x68x90	105x68x90	105x68x90
Weight kg	118	125	130

HOT WATER

Engine-pump unit

DSS Safety Systems

Electronic timed complete shut-down

Optional hose reel

Elastic joint motor-pump coupling

Hour meter on control panel.

Water softener device

PRESSURE WASHER/HOT WATER/INTENSIVE OPERATION/PHANTER SERIES

KH20015CSP/KH20020CSP/KH25020CSP

Optional accessories page 21

RECOMMENDED USE

intensive operation hot water pressure washer, ideal for the elimination of all types of dirt with its high water and steam temperature up to 150°C. Its robustness and safety systems make it the most complete on the market for long and intensive work. Suitable for use in the automotive, transportation, heavy industry, public works, agrarian, livestock and food sectors, etc.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor n = 95%, higher performance and lower power usage.
- Elastic joint motor-pump coupling (4 bearings in line).
- 5 m electric cable.
- Automatic by-pass valve for pressure and steam production control.
- Safety valve for overpressure discharge.
- Oil level control and glycerine-filled pressure gauge.
- Low voltage 24 V operation.
- TST system (electronic timed complete shut-down).
- DSS system (safety device that prevents start-up if flexible hose pressure is not less than 15 bar).
- hour meter on control panel.
- Water tank 2 l, equipped with float and filter.
- Indicator lights for voltage control, low diesel-oil, flame out and fault.
- Drip-free anti scaling device with 12 V solenoid valve, and 1 l tank.
- Stain. steel high performance boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Maximum safety boiler with air cooling system that prevents external heating, equipped with steel pipe coil with a thickness of 2.6 to 2.8 mm, the most durable on the market.
- Flame control and burner shut-down due to lack of water.
- Independent engine for burner.
- Anti-seizure diesel oil pump.
- Diesel oil level control gauge.
- Temperature control thermostat 30 - 150 °C.
- "A" Diesel oil fuel.
- Low pressure chemical product outlet.
- Chassis and detergent and gas oil tanks in polypropylene, without risk of chemical corrosion, adapts very well to salty places and humidity in the environment.
- 4 Ø 25 cm wheels, with parking brake.

Possibility (on request) of voltage to 230 three-phase in 60 Hz in all models.

KH20015CSP-KH20020CSP-KH25020CSP Series accessories

MKA38106	3/8" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	Stainless steel lance. 420 mm with fast connection
1023000000	Automatic double nozzle holder
1003625	1/4" 25° high pressure nozzle according to model
10036000	1/4" high pressure nozzle, direct jet

KH20015CSP-KH20020CSP-KH25020CSP Optional accs.

207104003	30/40 m Hose reel (without hose)

	KH20015CSP	KH20020CSP	KH25020CSP
Operating pressure bar	30-200	30-200	30-250
Output l/h	900	1,200	1,200
Voltage pH-V-Hz	3-400 V-50 Hz	3-400 V-50 Hz	3-400 V-50 Hz
Total Power W	7,000	9,400	11,000
RPM	1,450	1,450	1,450
Max. Temp. Generated °C	30÷150	30÷150	30÷150
Diesel-oil consumption kg/h	5.98	7.52	7.52
Diesel-oil tank l	30	30	30
Detergent tank l	16	16	16
Water tank l	20	20	20
Water softener tank l	1,5	1.5	1.5
Dimensions LxWxH cm	115x76x95	115x76x95	115x76x95
Weight kg	192	212	231

HOT WATER

1.450 rpm 1.450 rpm

Engine-pump unit

DSS

DSS Safety Systems

TST

Electronic timed complete shut-down

Optional hose reel

Elastic joint motor-pump coupling

Hour meter on control panel.

Water softener device

PRESSURE WASHERS/HOT WATER/INTENSIVE OPERATION

KH20030CSP

Optional accessories page 21

RECOMMENDED USE

intensive operation hot water pressure washer, ideal for the elimination of all types of dirt with its high water and steam temperature up to 150°C. Its robustness and safety systems make it the most complete on the market for long and intensive work. Allows the simultaneous use of two nozzles, distributing output and maintaining pressure. Its state-of-the-art components make it the ideal tool for the most demanding professionals. Suitable for use in the automotive, transportation, heavy industry, public works, agrarian, livestock and food sectors.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor n = 95%, higher performance and lower power usage.
- Elastic joint motor-pump coupling (4 bearings in line).
- 5 m electric cable.
- Automatic by-pass valve for pressure and steam production production.
- Safety valve for overpressure discharge.
- Oil level control and glycerine-filled pressure gauge.
- Low voltage 24 V operation.
- TST system (electronic timed total shut-down) and micro leakage control.
- DSS system (safety device that prevents start-up if flexible hose pressure is not less than 15 bar).
- Hour meter on control panel.
- Water tank 20 l, equipped with float and filter.
- Indicator lights for voltage control, low diesel-oil, flame out and fault.
- Drip-free anti scaling device with 12 V solenoid valve, and 1.5 l tank.
- Stain. steel high performance boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Maximum safety boiler with air cooling system that prevents external heating, equipped with steel pipe coil with a thickness of 2.6 to 2.8 mm, the most durable on the market.
- Flame control and burner shut-down due to lack of water.
- Independent engine for burner.
- Anti-seizure diesel oil pump.
- Diesel oil level control gauge.
- Temperature control thermostat 30 - 150 °C.
- "A" Diesel oil fuel.
- Low pressure chemical product outlet.
- Allows the simultaneous use of two nozzles, distributing output and maintaining pressure.
- Painted steel chassis with built-in polypropylene detergent and diesel oil tanks.
- 4 Ø 30 cm wheels, with parking brake + 1 Ø 10 cm rotating centre wheel.

Possibility (on request) of voltage to 230 V three-phase in 60 Hz in all models.

Series accessories

MKA3810	3/8" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	420 mm stain. steel lance with fast connection
1023000000	Automatic double nozzle holder
1003602509	1/4 - 25° 09 high pressure nozzle
1003600009	1/4" 09 high pressure nozzle, direct jet

Optional accessories

207104003	30/40 m Hose reel (without hose)

	KH20030CSP
Operating pressure bar	30-200
Output l/h	1800
Voltage pH-V-Hz	3-400 V-50 Hz
Total Power W	11,000
RPM	1,450
Max. Temp. Generated °C	30÷150
Diesel-oil consumption kg/h	9.56
Diesel-oil tank l	30
Detergent tank l	16
Water tank l	20
Water softener tank l	1.5
Dimensions LxWxH cm	115x76x105
Weight kg	238

WE MANUFACTURE AUTONOMOUS EQUIPMENT according to your **REQUIREMENTS**

HOT WATER

PETROL AND **DIESEL**

1.450 rpm
1.450 rpm
Engine-pump unit

START-UP **ELECTRIC** in all engines

Hour meter on control panel.

Glycerine-filled pressure gauge

PRESSURE WASHERS/INDEPENDENT/HOT WATER/INTENSIVE OPERATION

KHA209GC/KHA209DC/KHA229GC

Optional accessories page 21

VERSION WITH WHEELS AVAILABLE

Possibility of adapting equipment on trailer (consult prices). Optional accessories page 21

RECOMMENDED USE

Independent cold water pressure washers built according to "CE" standards for works in which there is no electric network. Its high performance of pressure, output and high water heating 95 ºC make this equipment an ideal tool for the professional. Suitable for long and intensive work. Especially suitable for the following sectors: agrarian/livestock, construction, services, cleaning, urban maintenance, roads, etc.

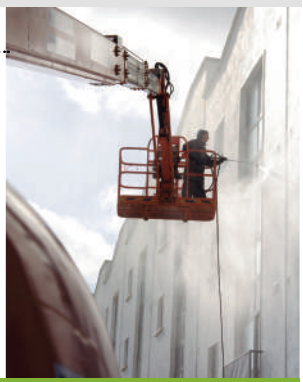
FEATURES

- Interpump high performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Automatic by-pass valve with external pressure control.
- Built-in safety valve.
- Direct water supply to the pump with inlet filter.
- By-pass type remote control with pump return system.
- Low pressure chemical product outlet controlled from lance.
- Honda endothermic petrol engine, single cycle, air cooled (in KHA209GC-229GC models).
- Yanmar, double-cylinder, air-cooled, endothermic diesel engine (model KHA209DC).
- Reducer joint motor-pump coupling.
- Automatic acceleration and deceleration device.
- Automatic start and shut-down with key in control panel.
- Motor-pump-alternator group mounted on platform with 4 oversized anti-vibration mechanisms.
- Maximum safety boiler with air cooling system that prevents external heating, equipped with double-walled steel pipe coil.
- Temperature control thermostat.
- 23 l PVC diesel oil tank.
- Burner shut-down device due to lack of outlet pressure.
- 230 V 50 Hz 400 W Built-in alternator.
- Closed bodywork in varnished steel, with top cover opening.
- 2 D-400 mm pneumatic wheels and 2 swivel castors.
- Control panel in PVC with IP54 protection.
- Low diesel oil indicator gauge with burner shut-down.
- Low fuel supply light and battery charge.
- Diesel engine oil fault warning light.
- Hour meter and alternative current supply voltmeter control.
- Emergency shut-down button on control panel.

KHA209GC-KHA209DC-KHA229GC Series accessories

MKA3810	A.P. Flexible hose 10 m R2A 3/8"
1000908331	Double lance with thermal extension and pressure adjustment
301822007	350 bar 40 l/m Pistol with rotating fitting
1003625	25º high pressure nozzle
1003605020	Low pressure nozzle

	KHA209GC	KHA209DC	KHA229GC
Operating pressure bar	30-200	30-200	30-200
Output l/h	900	900	1,200
Engine Power kW/Hp	9.6/13	8.1/11	11/15
Engine type	PETROL	DIESEL	PETROL
RPM Pump	1,450	1,450	1,450
RPM Engine	3,400	3,000	3,600
Max. Temp. Generated ºC	30÷95	30÷95	30÷95
Petrol tank l	5	-	5
Diesel-oil tank l	23	23	23
Dimensions LxWxH cm	121x95x124	121x95x124	121x95x124
Weight kg	260	290	293



HOT WATER

DIESEL

1.450 rpm
1.450 rpm
Engine-pump unit

START-UP ELECTRIC in all engines

Hour meter on control panel.

Glycerine-filled pressure gauge

PRESSURE WASHERS/INDEPENDENT/HOT WATER/INTENSIVE OPERATION

KHA220DC/KHA300DC

Optional accessories page 21

Possibility of adapting equipment on trailer (consult prices).
Optional accessories page 21

RECOMMENDED USE

Independent cold water pressure washers built according to "CE" standards for works in which there is no electric network. Its high performance in pressure, output and 95 ºC high water heating make this equipment an ideal tool for the professional. Suitable for long and intensive work. Especially suitable for the following sectors: agrarian/livestock, construction, services, cleaning, urban maintenance, roads, etc.

FEATURES

- High performance (Interpump in KHA220DC), (HAWK in KHA300DC) 1,450 rpm professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Automatic by-pass valve with external pressure control.
- Safety valve for overpressure discharge.
- Direct water supply to the pump with inlet filter.
- By-pass type remote control with pump return system.
- Low pressure chemical product outlet controlled from lance.
- Lombardini Fox 702 diesel endothermic engine, two-cylinder, water-cooled.
- Motor pump connection by belt drive.
- Automatic acceleration and deceleration device.
- Automatic start and shut-down with key in control panel.
- Motor-pump-alternator group mounted on platform with 4 oversized anti-vibration mechanisms.
- Maximum safety boiler with air cooling system that prevents external heating, equipped with double-walled steel pipe coil.
- Temperature control thermostat.
- 50 l steel diesel oil tank.
- Burner shut-down device due to lack of outlet pressure.
- 230 V 50 Hz 700 W Built-in alternator.
- Closed bodywork in varnished steel, with top cover opening.
- PVC Control panel with IP54 protection.
- Low diesel oil indicator gauge with burner shut-down.
- Low fuel supply light and battery charge.
- Diesel engine oil fault warning light.
- Hour meter and alternative current supply voltmeter control.
- Emergency shut-down button on control panel.

Series accessories

MKA3810	A.P. Flexible hose 10 m R2A 3/8"
1000908331	Double lance with thermal extension and pressure adjustment
301822007	350 bar 40 l/m Pistol with rotating fitting
1003625	25º high pressure nozzle
1003605020	Low pressure nozzle

	KHA220DC	KHA300DC
Operating pressure bar	30-200	30-300
Output l/h	1,200	1,000
Engine Power kW/Hp	11/15	11.8/16
Engine type	DIESEL	DIESEL
RPM Pump	1,400	1,400
RPM Engine	3,200	3,600
Max. Temperature Generated ºC	30÷90	30÷90
Diesel-oil tank l	50	50
Dimensions LxWxH cm	145x95x98	145x95x98
Weight kg	435	438

Engine-pump unit

DSS Safety Systems

Electronic timed complete shut-down

Elastic joint motor-pump coupling

INOX Stainless Steel

Glycerine-filled pressure gauge

PRESSURE WASHERS/MODULAR/COLD WATER/INTENSIVE OPERATION

KGM15020F/KGM20020F

Complete professional equipment

Optional accessories page 21

RECOMMENDED USE

Cold water pressure washer for intensive operation fixed modular installation. Its high pressure and high output provide an ideal tool for the elimination of all types of dirt. Suitable for use in the automotive, transportation, heavy industry, public works, agrarian, livestock and food sectors.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor n = 95%, higher performance and lower power usage.
- Elastic joint motor-pump coupling (4 bearings in line).
- 5 m electric cable.
- Automatic by-pass valve for pressure control.
- Oil level control and glycerine-filled pressure gauge.
- Low voltage 24 V operation.
- TST system (electronic timed complete shut-down).
- DSS system (safety device that prevents start-up if flexible hose pressure is not less than 15 bar).
- Stainless steel water tank 5 l, equipped with float and filter.
- Automatic shut-down device for low water.
- Low water sensor.
- Low pressure chemical product outlet.
- Stainless steel bodywork and bonnet.

Possibility (on request) of voltage to 230 V three-phase in 60 Hz in all models.

KGM15020F-KGM20020F Series accessories

MKA38106	3/8" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	420 mm stain. steel lance with fast connection
1023000000	Automatic double nozzle holder
1003625	1/4" 25° high pressure nozzle according to machine model
10036000	1/4" high pressure nozzle, direct jet

	KGM15020F	KGM20020F
Operating pressure bar	30-150	30-200
Output l/h	1,200	1,200
Voltage pH-V-Hz	3-400 V-50 Hz	3-400 V-50 Hz
Power Total W	7,000	9,400
Engine rpm	1,450	1,450
Max. Temp. Intake °C	60	60
Water tank l	5	5
Dimensions LxWxH cm	85x45x54	85x45x54
Weight kg	92	112

HOT WATER

1.450 rpm 1.450 rpm

Engine-pump unit

DSS

DSS Safety Systems

TST

Electronic timed complete shut-down

INOX

Stainless Steel

Elastic joint motor-pump coupling

Hour meter on control panel.

Water softener device

Glycerine-filled pressure gauge

PRESSURE WASHERS/HOT WATER/INTENSIVE OPERATION

KGM15020C/KGM20020C

Optional accessories page 21

Complete professional equipment

RECOMMENDED USE

Hot water pressure washer for intensive operation fixed modular installation. Due to its high pressure, high flow rate and high temperature up to 150 ° C, this equipments is an ideal tool for the removal of all types of dirt. Especially suitable for the following sectors: automotive/ transport, agrarian/livestock, food, heavy industry, etc.

FEATURES

- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Asynchronous continuous service electric motor (1,450 rpm), with thermal protection included in all winding phases.
- IPX5 motor protection with class F insulation.
- High efficiency motor n = 95%, higher performance and lower power usage.
- Elastic joint motor-pump coupling (4 bearings in line).
- 5 m electric cable.
- Automatic by-pass valve for pressure and steam production control.
- Safety valve for overpressure discharge.
- Oil level control and glycerine-filled pressure gauge.
- Low voltage 24 V operation.
- TST system (electronic timed complete shut-down).
- DSS system (safety device that prevents start-up if flexible hose pressure is not less than 15 bar).
- Internal hour meter on control panel.
- Stainless steel water tank 5 l, equipped with float and filter.
- Automatic shut-down device for low water.
- Indicator lights for voltage control, low diesel-oil, flame out and fault.
- Drip-free anti scaling device with 12 V solenoid valve, and 1.5 l tank.
- Stainless steel high performance boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Maximum safety boiler with air cooling system that prevents external heating, equipped with double-walled steel pipe coil.
- Flame control and burner shut-down due to lack of water.
- Independent engine for burner.
- Anti-seizure diesel oil pump.
- Diesel oil level control gauge.
- Temperature control thermostat 30 - 150 ºC.
- "A" Diesel oil fuel.
- Low pressure chemical product outlet.
- Chassis, bodywork and water tank and diesel oil in stainless steel..

Possibility (on request) of voltage to 230 three-phase in 60 Hz.

Series accessories

MKA38106	3/8" 10 m high pressure hose with fast connection
302122003	500 mm pistol with thermal extension
302022021	420 mm stain. steel lance with fast connection
1023000000	Automatic double nozzle holder
1003625	1/4" 25º high pressure nozzle according to machine model
10036000	1/4" high pressure nozzle, direct jet

	KGM15020C	KGM20020C
Operating pressure bar	30-150	30-200
Output l/h	1,200	1,200
Voltage pH-V-Hz	3-400 V-50 Hz	3-400 V-50 Hz
Total Power W	7,000	9,400
Engine rpm	1,450	1,450
Max. Temp. Generated ºC	30÷150	30÷150
Diesel-oil consumption kg/h	7.52	7.52
Diesel-oil tank l	25	25
Water tank l	5	5
Water softener tank l	1.5	1.5
Dimensions LxWxH cm	135x68x72	135x68x72
Weight kg	205	215

PRESSURE WASHER ACCESSORIES

We stock all of the Interpump and Hawk pump repair kits.

When purchasing optional accessories, we advise you to indicate the machine for which they are intended.

Reference	Description
NOZZLES	
Nozzles	High pressure 1/4 or 1/8" fan spray
VARIABLE ANGLE NOZZLES	
1001604003	1.1 mm high-low pressure 210 bar 9 l/m nozzle
1001604002	1.2 mm high-low pressure 210 bar 12 l/m nozzle
1001604004	1.3 mm high-low pressure 210 bar 15 l/m nozzle
1000041512	1.4 mm high-low pressure 210 bar 21 l/m nozzle
NOZZLE HOLDER	
1023000000	Double automatic (jet-fan) without nozzles
1000101000	1/4" Adjustable for low and high pressure
470111	1/8" Adjustable for low and high pressure
TURBO NOZZLES	
1025110011	170 bar 11 l/m 60 ºC
2904007930	170 bar 15 l/m 60 ºC
3125172045	210 bar 15 l/m 90 ºC
3125172065	210 bar 21 l/m 90 ºC
0204006940	400 bar 24 l/m 90 ºC
0204006820	500 bar 18 l/m 100 ºC stainless steel
0204006825	500 bar 21 l/m 100 ºC stainless steel
FLEXIBLE HOSES	
Flexible hoses	R2A 3/8"-5/16" from 8, 10, 15, 20, 25, 30 m per m
Flexible hoses	R2A 3/8"-5/16" of other measures per m
Flexible hoses	R2A 1/4" per m
NOZZLES	
1040770000	40 cm zinc plated steel extension
1000908311	60 cm zinc plated steel
1000908312	90 cm zinc plated steel
1000908313	120 cm zinc plated steel
1000908314	150 cm zinc plated steel
1000908315	170 cm zinc plated steel
1000908316	200 cm zinc plated steel
1000908331	106 cm Double zinc-plated steel
302022021	Stain. steel 500 mm + adjustable nozzle holder
090500	5.5 m telescopic aluminium gun-lance
090502	7.5 m telescopic aluminium gun-lance
090550	Telescopic lance harness belt kit
GUNS	
301822007	350 bar 40 l / m 150 ° C, with Krüger rotating fitting
302122003	350 bar 40 l/m Pistol with rotating fitting
QUICK SCREW CONNECTIONS	
1001101001	1/4H 250 bar 30 l/m 150°C Part A Socket
1001101002	1/4M 250 bar 30 l/m 150°C Part A Socket
1001101003	3/8H 250 bar 30 l/m 150°C Part A Socket
1001101009	3/8M 250 bar 30 l/m 150°C Part A Socket
1001101004	1/4H 250 bar 30 l/m 150°C Part B Plug
1001101005	1/4M 250 bar 30 l/m 150°C Part B Plug
1001101006	3/8H 250 bar 30 l/m 150°C Part B Plug
1001101007	3/8M 250 bar 30 l/m 150°C Part B Plug
QUICK BALL CONNECTIONS	
1020202361	3/8H chrome 250 bar 40 l/m 90°C Part A Plug
1026203000	3/8H chrome 250 bar 40 l/m 90°C Part B Socket
BLASTER WITH PROBE	
1001501001	200 bar 9 l/m
1001501002	200 bar 15 l/m
1001501003	200 bar 21 l/m
PIPE UNBLOCKER MOUSE	
1000102002	1/8 H stain. Max. pressure 300 bar 15 l/m 3 + 1 outputs
1025120151	1/4 H stain. Max. pressure 300 bar 9 l/m 3 + 1 outputs
1025121051	3/8 M stain. Max. pressure 300 bar 15-21 l/m 8 + 1 outputs
0124722570	Rotating 1/4 H stain. Max. press. 250 bar 15 l/m 3 + 1 outp.
0124722620	Rotating 3/8 H stain. Max. press. 250 bar 18 l/m 3 + 1 outp.
1000102001	3/8 M stain. Max. pressure 300 bar 30-60 l/m 3 + 1 outputs
HOSE REELS (WITHOUT HOSE)	
72867	Max. 40m for 5/16" hose
1029030003	Automatic lacquered steel max. 20 m
66080017	Manual 10/20 m KHL1211-1515-2015-2020-2515F
207104006+903504002	Manual 10 m + steel hose KH1510F-KH2015F
207104009+903504001	Manual 20 m + stain. steel hose KH1510F-KH2015F KH1510F-KH2015F
207104004	Manual 10/20 m KH140C
2071044013	Manual 10/20 m KH14011CP-17013CP-20015CP
207104009	Manual 10/20 m KH120-170-200CI
207104003	Manual 30/40 m KH20015-20020-25020-20030CSP
FOAM NOZZLES	
1029082000	1/4 H with 2 l capacity tank
ROTATING BRUSH	
1029050015	1/4 H Nylon
LANCE NOZZLE FOR FLOOR CLEANING WITHOUT GUN	
0207001010	D-350 mm, stain. steel 250 bar 40 l/m, with 2 nozzles
HOT WATER OPTIONS	
303702002	KH20015CSP Venturi chimney extension
110504009	KGM150-20020C Modular group steel floor support

NEW KRA14SIL-KRA6M

Silent equipment perfect for hospitals, hotels and related

PVC protected head

PPL**Tanks**

Backpack type KRA6M

VACUUM CLEANERS/SILENT/FOR DUST/PROFESSIONAL SERIES

KRA14SIL/KRA6M/KRA20SIL2V

KRA14SIL

KRA6M

KRA20SIL2V

RECOMMENDED USE

Professional silent vacuum cleaners for dust. Compact, light and handy, they easily vacuum all types of surfaces such as stoneware, PVC, wood, carpet, upholstery, etc. Especially suitable for the following sectors: hospitality, sanitary, chemical, pharmaceutical, electronics and domestic use.

FEATURES

Common features:

- Great suction power, small size, easy accesibility and low acoustic level.
- Shock-resistant PVC head protected for noise reduction.
- Long duration self-ventilated motors, with acoustic insulation.
- Ergonomic design.
- Its large diameter KRA14SIL-KRA20SIL2V rear wheels provide easy transport and great stability.
- Shock-resistant polypropylene tanks.
- Rotating terminal in hose to avoid strangulation.
- Ø36 mm complete accessories kit for dust extraction.

KRA14SIL Features

- Powerful silent vacuum cleaner for dust.
- Textile mesh filter and paper filter bag.
- 4 m length of electric cable, can be rolled and stored in head housing.
- Built-in chassis and accessory holder.
- 2 swivel castors and two large diameter fixed wheels.

Series accessories KHL1108C

YS647	Flexible hose with 1.8 m terminals
YS629	30 cm PVC extension (3 units)
YS612	Dual function nozzle
YS613	Flat nozzle
YS617	Corner brush
YS609	Filter bag paper (1 item)
YS673	Textile mesh filter

KRA6M Features - Backpack

- Powerful silent vacuum cleaner for dust.
- Used as a backpack
- Portable, manageable and 6.5 kg reduced weight
- Suitable for cleaning in hard to reach places
- Hands free, does not hinder movements and allows you to work quickly and in a simpler and less fatiguing way
- Double filtration system by filter textile mesh and textile bag
- Air exhaust filter
- Thermal protection for motor
- 8 m power cable
- Wall fastening kit

KRA20SIL2V Series accessories

YS647	Suction hose with 1.8 m terminals
YS629	30 cm PVC extension (2 units)
YS612	Dual function nozzle
YS613	Flat nozzle
YS617	Corner brush
YS676	Textile mesh filter
YS675	Textile filter bag

KRA20SIL2V Features

- 2-speed vacuum cleaner
- PVC tank resistant to chemicals and high temperatures
- Switch for the double working speed of the High-Low motor
- Filter full indicator or tube jam indicator
- 5 m length of electric cable
- Washable polyester filter

KRA20SIL2V Series accessories

ACTF362	Flexible hose with 2 m terminals
ACTC036	Stain. extension 50 cm
ACSP036R	Dual function nozzle
ACB036	Upholstery nozzle
ACLP036	Flat nozzle
ACPE036	Round brush
FA034P	Polyester filter

Optional accessories for KRA20SIL2V

YS0033 5 paper bag kit

	KRA14SIL	KRA20SIL2V	KRA6M
Motor no.	1	1	1
Power W	1,400	1,400	1,250
Voltage V	220-240	220-240	220-240
Cooling	Direct air	Direct air	Direct air
Output m^3/h	170	205	170
Depression mm/H_2O	2,000	2,400	1,650
Tank l	15	21	6
Sonority dB a 1 m	65	54	69
Accessories Ø mm	36	36	36
Dimensions LxWxH cm	36x32x39	35x38x56	35x25x53
Weight kg	5.5	12	6.5

NEW
KRA12-KRA1250

PVC protected head

PPL**Tanks**

Filter cartridge in KRA12 and KRA1250

Blow system in KRA1250

VACUUM CLEANERS/PROFESSIONAL SERIES PROFESIONAL/DUST-LIQUID

KRA12/KRA1250

KRA12

KRA1250

KRA1250 Accessories

RECOMMENDED USE

Powerful vacuum cleaner for dust and liquid. Compact, light, handy and powerful, hey easily vacuum all types of surfaces such as earthenware floors, PVC, wood, carpet, rugs, sofas, upholstery, etc. Especially suitable for the following sectors: hospitality, offices, small workshops, vehicles and domestic use.

FEATURES

Common features:

- Great suction power, small size, easy accessibility.
- Shock-resistant PVC head protected for noise reduction.
- Long lasting self-ventilated motors in KRA12.
- Long-lasting double-by-pass cooling motors in KRA1250.
- Motors with sound insulation.
- Ergonomic design.
- Built-in accessories holder
- Rotating terminal in hose to avoid strangulation (except in KRA12).
- Complete accessories kit Ø36 mm.
- Blow system function.

KRA12 Features

- Powerful vacuum cleaner for dust and liquid type shoulder strap.
- Portable, manageable and 3.6 kg reduced weight
- Ideal for cleaning in hard to reach places
- Filtration of air by cartridge filter.
- Shock-resistant polypropylene tank.
- 3 m length of electric cable
- Storage in head for rolled-up electric cable.

KRA12 Accessories series

YS622	Suction hose D25 mm with 1 m terminals
YS629	30 cm PVC extension (3 units)
YS618	Floors dust-carpet-liquid nozzle
YS613	Flat nozzle
YS702	Upholstery nozzle
YS701	Filter cartridge

KRA1250 Features

- Powerful vacuum cleaner for dust and liquid.
- Portable, manageable and 7 kg reduced weight
- Triple air filtration through filter cartridge, paper bag filter and anti-foam sponge filter.
- Shock-resistant 20 l polypropylene tank.
- 4 m length of electric cable

KRA1250 Accessories series

YS647	Suction hose with 1.8 m terminals
YS602	50 cm PVC extension (2 units)
YS618	Floors dust-carpet-liquid nozzle
YS613	Flat nozzle
YS617	Corner brush
YS611	Filter cartridge
YS609	Paper filter bag
YS610	Anti-foam sponge filter

	KRA12	KRA1250
Motor no.	1	1
Power W	1,000	1,400
Voltage V	220-240	220-240
Cooling	Direct air	By-Pass
Output m^3/h	140	160
Depression mm/H_2O	1,500	1,700
Tank l	12	20
Sonority dB a 1 m	72	75
Accessories Ø mm	36	36
Dimensions LxWxH cm	34x27x39	35x35x50
Weight kg	3.6	7

NEW
KRA9040-KRA1650

Filter cartridge in KRA9040 and KRA1650

INOX
Stainless steel tank

PVC protected head

KRA9040 and KRA1650 Blow system

24 V
BATTERY
KRA124BAT

30°
Polyester filter washable in KRA124BAT

ACOUSTIC INDICATOR (Battery Backup) KRA124BAT

VACUUM CLEANERS/PROFESSIONAL SERIES PROFESIONAL/DUST-LIQUID

KRA9040/KRA1650/KRA124BAT

KRA9040

KRA1650

KRA124BAT

KRA9040 Accessories

KRA1650 Accessories

RECOMMENDED USE

Powerful vacuum cleaner for dust and liquid. Compact, light, handy and powerful, they easily vacuum all types of surfaces such as earthenware floors, PVC, wood, carpet, rugs, sofas, upholstery, walls, etc. Especially suitable for the following sectors: hospitality, offices, small workshops, vehicles and domestic use.

FEATURES

Common features

- Great suction power, small size, easy accessibility.
- Shock-resistant PVC head protected for noise reduction.
- Long-lasting double-by-pass cooling motors.
- Motors with sound insulation.
- Ergonomic design.
- Rotating terminal in hose to avoid strangulation.
- Complete accessories kit Ø36 mm.

KRA124BAT Features

- Powerful vacuum cleaner for dust and liquid.
- 24 V DC battery operation, without electric cable.
- With a working capacity of 1 hour at full power + 30 minutes of reserve.
- Reserve battery acoustic alarm system.
- Includes 2x12 Vx35AHGEL batteries, and high frequency charger.
- Filtration with polyester filter and liquid foam filter.
- Stainless steel tank 21 l.
- Built-in accessories holder
- 5 m length of electric cable

KRA124BAT Accessories series

ACTF032/3	Flexible hose with 3 m terminals
ACTC032	Stain. steel tube 50 cm
ACSP032RT	Dual function nozzle
ACSM032	Liquid nozzle
ACLP032	Flat nozzle
ACBO032	Upholstery nozzle
ACPE032	Round brush
FA034PP	Polyester filter
ACCA165A	Liquid sponge filter
08SP43	5 paper bags Kit (optional)
FI175140	Filter cartridge (optional)

KRA9040/ KRA1650 Features

- Powerful vacuum cleaner for dust and liquid.
- Multifunction vacuum cleaners with suction and blowing system.
- Portable, manageable and reduced weight
- Triple air filtration through filter cartridge, paper bag filter and anti-foam sponge filter, en KRA9040.
- Filtration of air by cartridge filter en KRA1650.
- Blow system with opening and closing valve.
- Shock-resistant 40 - 50 l polypropylene tank.
- Market trolley with built-in accessories holder.
- Liquid drain hose in KRA1650.
- Manual electronic cable reel in head KRA1650.
- 4 m length of electric cable

KRA9040 Accessories series

YS647	Suction hose with 1.8 m terminals
YS602	50 cm PVC extension (2 units)
YS618	Floors dust-carpet-liquid nozzle
YS613	Flat nozzle
YS617	Corner brush
YS632	Filter cartridge
YS609	Paper filter bag
YS636	Anti-foam sponge filter

KRA1650 Accessories series

YS633	Suction hose with 2.5 m terminals
YS655	50 cm PVC extension (2 units)
YS612	Dual function nozzle
YS613	Flat nozzle
YS617	Corner brush
YS632	Filter cartridge

	KRA9040	KRA1650	KRA124BAT
Motor no.	1	1	1
Power W	1,600	1,600	550
Voltage V	220-240	220-240	24 V DC
Cooling	By-Pass	By-Pass	By-Pass
Output m^3/h	190	205	120
Depression mm/H_2O	1,600	1,700	1,400
Tank l	40	50	21
Sonority dB a 1 m	75	79	54
Accessories Ø mm	36	36	36
Dimensions LxWxH cm	41x38x64	47x46x67	58x58x96
Weight kg	12	15	19

INOX
Stainless steel tank

PVC protected head

30°
Washable polyester filter

Earth ground for the elimination of static electricity in both models

Anti-foam device

VACUUM CLEANERS/PROFESSIONAL SERIES/DUST-LIQUID

KRA773/KRA775

KRA773

Series accessories

KRA775

Equipped with market trolley

RECOMMENDED USE

Powerful vacuum cleaner for dust and liquid. Compact, light and handy, they easily vacuum all types of surfaces such as stoneware, PVC, wood, carpet, rugs, upholstery, etc. Especially suitable for the following sectors: automotive, hospitality, cleaning, workshops, industry, etc.

FEATURES

- Powerful vacuum cleaner for dust and liquid..
- Stainless steel, high capacity lightweight tank, non-conducive of static electricity, resistant to shock, heat and harsh chemicals.
- PVC shock resistant head protected for noise reduction.
- Long lasting self-ventilated motors.
- Washable polyester filter and anti-foam device.
- Drainage tube for draining liquids.
- 5 m length of electric cable
- Grounding by means of metal chain in tank, for the elimination of static electricity.
- Ø40 mm complete accessories kit for dust and liquid extraction.

KRA773-775 Ø40 mm Series accessories

09S00081	Flexible hose with 2.5 m terminals
BF732	Double metal curve
BF739	Dust nozzle
BF738	Liquid nozzle
09S0003	Flat nozzle
09S6295	Round brush
SPC013	Polyester filter
SPC20	Ring + tightener

Optional accessories

08SP2875	Paper filter bag
09S0082	Vacuum hose Ø40 mm, per meter without terminals
09SFPF90	Fine dust filter kit

	KRA773	KRA775
Motor no.	2	3
Power W	2,400	3,600
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	390	480
Depression mm/H_2O	2,200	3,000
Tank l	70	80
Sonority dB a 1 m	72	74
Accessories Ø mm	40	40
Dimensions LxWxH cm	62x57x102	62x57x114
Weight kg	26	30

PVC protected head

90L

Large capacity polypropylene tank

Anti-foam device

30°

Washable polyester filter

VACUUM CLEANERS/PROFESSIONAL SERIES/DUST-LIQUID

KRA774/KRA776

KRA774

KRA776

RECOMMENDED USE

Powerful vacuum cleaner for dust and liquid. Compact, light and handy, they easily vacuum all types of surfaces such as stoneware, PVC, wood, carpet, rugs, upholstery, etc. Especially suitable for the following sectors: automotive, hospitality, cleaning, workshops, industry, etc.

FEATURES

- Powerful vacuum cleaner for dust and liquid.
- Tank made of high capacity polypropylene, lightweight, resistant to shock, heat and aggressive chemicals, with market trolley for greater manoeuvrability and transport..
- PVC shock resistant head protected for noise reduction.
- Long lasting self-ventilated motors.
- Washable polyester filter and anti-foam device.
- Drainage tube for draining liquids.
- 5 m length of electric cable
- Possibility of placing fixed accessory in the vacuum cleaner base for sweeping or liquid collection system.

KRA773-776 Ø40 mm Series accessories

09S00081	Flexible hose with 2.5 m terminals
BF732	Double metal curve
BF739	Dust nozzle
BF738	Liquid nozzle
09S0003	Flat nozzle
09S6295	Round brush
SPC013	Polyester filter
SPC20	Ring + tightener

Optional accessories

08SP2875	Paper filter bag
09S0082	Vacuum hose Ø40 mm, per meter without terminals
09SFPF90	Fine dust filter kit
09S0041	Fixed dust accessory
09S0042	Fixed liquid accessory
09S00071	Suction hose for fixed accessory

	KRA774	KRA776
Motor no.	2	3
Power W	2,400	3,600
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	390	480
Depression mm/H_2O	2,200	3,000
Tank l	90	90
Sonority dB a 1 m	72	74
Accessories Ø mm	40	40
Dimensions LxWxH cm	55x43x102	55x43x102
Weight kg	31	33

INOX
Stainless steel tank

PVC protected head

30°
Washable polyester filter

Anti-foam device

MECHANICAL filter cleaning system

KRA265MK/KRA365BS

KRA265MK

Filter Shaker

Series accessories

KRA365BS

RECOMMENDED USE

Powerful vacuum cleaner for dust and liquid. High-tech, compact, light and handy, they easily vacuum all types of surfaces. Specially designed to meet specific requirements in the professional and industrial field.
Their performance and mechanical filter cleaning system make them an essential tool for automotive, hospitality, cleaning, workshops, and industrial sectors.

FEATURES

- Professional vacuum cleaners for dust and liquid.
- Stainless steel, high capacity lightweight tank, non-conducive of static electricity, resistant to shock, heat and harsh chemicals.
- PVC shock resistant head protected for noise reduction.
- Long lasting self-ventilated motors.
- Washable polyester filter and anti-foam device.
- Mechanical filter cleaning system, without the need to take off or remove the head for cleaning.
- 7.5 m length of electric cable
- KRA265MK with market trolley and KRA365BS with tipping tank.
- Ø40 mm complete accessories kit for dust and liquid extraction.

KRA265MK-KRA365BS Ø40 mm Series accessories

09S00081	Flexible hose with 2.5 m terminals
62050126	Straight tube + metal curve
37540083	Body nozzle floors
37540084	Floor dust accessory
37540085	Floor liquids accessory
09S0003	Flat nozzle
09S6295	Round brush
52090169	KRA265MK-KRA365BS Polyester filter cloth

KRA265MK-KRA365BS Additional options

52120034	HEPA filter kit for fine dust
52120022	Paper bag filter kit (10 items)

	KRA265MK	KRA365BS
Motor no.	2	3
Power W	2,400	3,600
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	468	700
Depression mm/H_2O	2,240	2,240
Tank l	65	65
Sonority dB a 1 m	74	74
Accessories Ø mm	40	40
Dimensions LxWxH cm	62x51x96	62x51x99
Weight kg	25	27

INOX
Stainless steel tank

PVC protected head

37L
37 l Stain. Tank

76L
76 l Stain. Tank

AUTOMATIC filter cleaning system

Filter cartridge

REMOTE CONTROL

VACUUM CLEANERS/REMOTE CONTROL/PROFESSIONAL SERIES

KRA126TLEV/KRA270TLEV

KRA126TLEV

KRA270TLEV

RECOMMENDED USE

Professional vacuum cleaners with double filtration and automatic filter cleaning system by vibration. Its advanced technology, features and performance make these vacuum cleaners the essential tool for the professional carpentry, construction, panel beaters, etc.

FEATURES

- Professional vacuum cleaners, with remote control system (single phase 230 V - 50 Hz - 2,200 W), for the connection of electric portable tools, sanders, grinders, etc., that allow command of the start and shut-down of the vacuum cleaner.
- Double filtration system, polyester filter + HEPA filter cartridge.
- Automatic filter cleaning system through vibration.
- Stainless steel, high capacity lightweight tank, non-conducive of static electricity, resistant to shock, heat and harsh chemicals.
- PVC shock resistant head protected for noise reduction.
- Long lasting self-ventilated motors.
- 5 m length of electric cable
- Ø28 mm Suction hose with 3.3 m terminals.

Availability on request of pneumatic remote control vacuum cleaners. Contact us for prices

KRA126-270TLEV Accessories series

ACTF028C	Complete hose, 3,3 m Ø28 mm
FI202153HP	HEPA KRA126TLEV Filter cartridge
FI250178H	HEPA KRA270TLEV Filter cartridge
FINY334	KRA126TLEV Nylon filter
FI004P	KRA126TLEV Polyester bag filter
FI005P	KRA270TLEV Polyester bag filter
FA044P	KRA270TLEV Conical polyester filter

KRA126-270TLEV Accessories series

09S00081	Flexible hose with 2.5 m terminals
ACTC038D	Metal extension for tube
ACTC038C	Metal curve extension
ACSC300P	L-300 mm Complete dust nozzle
ACSC300L	L-300 mm Complete liquid nozzle
09S0003	Flat nozzle
09S6295	Round brush

	KRA126TLEV	KRA270TLEV
Motor no.	1	2
Power W	1,400	2,600
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	215	430
Depression mm/H_2O	2,400	2,400
Tank l	37	76
Sonority dB a 1 m	60	67
Accessories Ø mm	40	40
Dimensions LxWxH cm	41x41x80	59x60x106
Weight kg	14	28

INOX
Stainless steel tank

PVC protected head

Anti-foam device

External device for chemical product

VACUUM CLEANERS/UPHOLSTERY CLEANER/PROFESSIONAL SERIES

KRA50LT/KRA78LT

KRA50LT

KRA78LT

RECOMMENDED USE

Professional upholstery injection-extraction vacuum cleaners for the cleaning of hard and soft surfaces such as floors, upholstery, carpets, rugs, etc. Especially suitable for the automotive, transport and cleaning sectors, etc.

FEATURES

- Complete professional upholstery injection-extraction cleaners.
- Stainless steel tank.
- External chemical tank for quick filling and cleaning.
- Drainage hose.
- One suction motor in KRA50LT and two suction motors in KRA78LT, which guarantee faster drying.
- One injection solenoid pump in KRA50LT, and two independent injection solenoid pumps in KRA78LT.
- Built-in anti-foam filter.

KRA265MK-KRA365BS Ø40 mm Series accessories

62050129	Suction-injection hose, 2.5 m
52090143	Complete upholstery nozzle, L90 mm

KRA50LT-KRA78LT Optional accessories

ACTF038E5	Suction-injection hose, 5 m
62050132	Carpet nozzles 240 mm, complete with extension tubes
55090039	KRA78LT Complete dust filter
62050008	KRA50LT Complete dust filter
1312010000	K120 Upholstery cleaning detergent, 25 kg

	KRA50LT	KRA78LT
Motor no.	1	2
Power W	1,400	2,400
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	195	400
Depression mm/H_2O	2,200	2,240
Injection pump W bar l/m	32-3.5-0.8	96-5-1.2
Recovery tank l	50	78
Detergent tank l	11	25
Sonority dB a 1 m	71	74
Accessories Ø mm	40	40
Dimensions LxWxH cm	62x51x85	62x51x96
Weight kg	19	30

INOX
Stainless steel tank

PVC protected head

Anti-foam device

External device for chemical product in KRA250LTHW

VACUUM CLEANERS/UPHOLSTERY CLEANER/PROFESSIONAL SERIES

KRA125LT/KRA250LTHW

KRA125LT

KRA250LTHW (HOT WATER)

RECOMMENDED USE

Professional upholstery injection-extraction vacuum cleaners for the cleaning of hard and soft surfaces such as floors, upholstery, carpets, rugs, etc. Especially suitable for the automotive, transport and cleaning sectors, etc.

FEATURES

- Complete professional upholstery injection-extraction cleaners.
- Stainless steel tank.
- External chemical product tank for quick filling and cleaning, in KRA250LTHW.
- With drain hose in KRA250LTHW.
- Suction motor in KRA125LT and two suction motors in KRA250LTHW, which guarantee faster drying.
- 900W coil that heats water up to 90ºC in KRA250LTHW.
- Temperature control thermostat in KRA250LTHW.
- Solenoid injection pump.
- Built-in anti-foam filter.

KRA125LT–KRA250LTHW Series accessories

ACTF038E	KRA125LT Suction-injection hose, 2.5 m
ACTF038EH	KRA250LTHW suction-injection hose, 2.5 m
ACBL100POC	Complete upholstery nozzle

KRA125LT–KRA250LTHW Series accessories

ACLA230C	Complete carpet nozzle with 1 injector.
ACBL2302UC	Complete carpet nozzle with 2 injectors.
ACTF038E5	Suction-injection hose, 5 m
1312010000	K120 Upholstery cleaning detergent, 25 kg

	KRA125LT	KRA250LTHW
Motor no.	1	2
Power W	1,400	2,600
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	215	430
Depression mm/H_2O	2,400	2,400
Injection pump W bar l/m	48-2-0.8	48-2-0.8
Recovery tank l	37	76
Detergent tank l	8	20
Sonority dB a 1 m	60	67
Accessories Ø mm	40	40
Dimensions LxWxH cm	41x41x77	59x60x106
Weight kg	19	28

INOX
Stainless steel tank
KRA125HOR/
KRA220HOR

PVC protected head

TIPPING
Tank
KRA220HOR

FOR **OVENS**
Special filter for high temperatures
220 °C
KRA125HOR/
KRA220HOR

VACUUM CLEANERS/FOR OVENS AND ASH/PROFESSIONAL SERIES

KRA125HOR/KRA220HOR

KRA125HOR (Ovens)

KRA220HOR (Ovens)

RECOMMENDED USE

KRA125-220HOR: Professional vacuum cleaner for the cleaning of electric ovens in bakeries, bakers´ shops, workshops, etc.
KRA99C: Professional vacuum cleaner for cleaning barbecues, fireplaces, homes, etc.

FEATURES

Common features:

- Great suction power, small size, easy accessibility.
- Shock-resistant PVC head protected for noise reduction.
- Long lasting self-ventilated motors.
- 5 m length of electric cable
- Complete accessories kit.

KRA125HOR-KRA220HOR Features

- Technically studied models for the suctioning of food residues in electric ovens.
- Not suitable for suctioning of embers and incandescent items.
- Professional vacuum cleaner with 1 or 2 motors according to model.

- Great suction power, small size, easy accessibility.
- Shock-resistant PVC head protected for noise reduction.
- Long lasting self-ventilated motors.
- Special high temperature filter 220°.
- Stainless steel, high capacity lightweight tank, resistant to shock, heat and chemical products.
- Accessories in thermo-resistant material.

KRA125HOR-KRA220HOR Series D-38 mm accessories

ACTF036M	Steel-ceramic flexible hose Ø36 mm, with 2.5 m terminals
ACTA038DP	Aluminium extension tube with total protection 1 m
ACTA038DS	Aluminium extension tube with 1/2 protection 1 m
ACTA038DCM	Aluminium extension tube 1 m
ACCV400FF	Special Teflon nozzle L-400 mm
FA034AT	KRA125HOR Special filter for high temperatures
FA044AT	KRA220HOR Special filter for high temperatures

	KRA125HOR	KRA220HOR
Motor no.	1	2
Power W	1,400	2,400
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	215	340
Depression mm/H_2O	2,400	2,250
Tank l	37	76
Sonority dB a 1 m	60	67
Accessories Ø mm	38	38
Dimensions LxWxH cm	41x41x77	59x60x106
Weight kg	14	27

INOX
Stainless steel tank

PVC protected head

TIPPING
Tank

30°
Washable polyester filter
KRA378BS2

Anti-foam device

DRAIN
Tank
KRA220DE

VACUUM CLEANERS/SPECIAL/HIGH PERFORMANCE

KRA378BS2/KRA220DE

KRA378BS2

KRA220DE

Drainage tank
KRA220DE

RECOMMENDED USE

Special machines for different uses
KRA378BS2: Powerful professional vacuum cleaner for dust and liquid. Especially indicated for the interior cleaning of vehicles by 2 operators at the same time. Ideal for the automotive, industry, cleaning and workshop sectors, etc.
KRA220DE: Professional vacuum cleaner for liquids, equipped with drain pump. Ideal for cleaning after floods in basements, wells, tanks, etc.

FEATURES

Common features:

- Great suction power, small size, easy accessibility.
- Shock-resistant PVC head protected for noise reduction.
- Long lasting self-ventilated motors.
- Complete accessories kit.

KRA378BS2 Features

- Powerful 3 motor vacuum cleaner for dust and liquid.
- Long lasting self-ventilating motors.
- 78 l tank, with 2 suction inlets, for 2 simultaneous operators.
- 10 m electric cable.
- Washable polyester filter and anti-foam filter sponge.
- Stainless steel, high capacity lightweight tipping tank, resistant to shock, heat and chemical products.

KRA378BS2 Ø40 mm Series accessories for 2 operators

09S00081	Flexible hose with 2.5 m terminals (2 items)
09S0003	Flat nozzle (2 items)
09S6295	Round brush (2 items)
55090039	Polyester filter

KRA220DE Features

- Great suction power, small size, easy accessibility.
- Professional 2 motor vacuum cleaner for liquids.
- Drain pump built into the tank, with an extraction capacity of 125 l / m
- 5 m electric cable.
- Anti-foam sponge filter.
- Stainless steel, high capacity lightweight tipping tank, resistant to shock, heat and chemical products.

KRA220DE6 Ø40 mm Series accessories

09S000812	Flexible hose with 2.5 m terminals
ACTC038C	Metal curve extension
ACTC038D	Straight chrome tube
ACSC300L	Liquid nozzle

KRA220DE Optional accessories

ACSC300P	L-300 mm Complete dust nozzle
09S0003	Flat nozzle
09S6295	Round brush
FA044P	Complete polyester filter
ACCA165	Liquid sponge
FI250178H	HEPA Filter cartridge

	KRA378BS2	KRA220DE
Motor no.	3	2
Power W	3,600	2,400
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	600	340
Depression mm/H_2O	2,240	2,250
Tank l	78	76
Sonority dB a 1 m	74	67
Accessories Ø mm	40	40
Dimensions LxWxH cm	62x51x99	59x60x106
Weight kg	27	28

Equipment prepared for INTENSIVE USE

INOX Stainless steel tank

PVC protected head

TANGENTIAL suction inlet

TIPPING Tank

SINGLE-PHASE By-pass motors

For OIL & EMULSIONS KRAI375OIL

For DUST KRAI375PA

KRAI375OIL/KRAI375PA

KRAI375OIL

RECOMMENDED USE

Industrial vacuum cleaners for intensive use. Especially suitable for the industry, transport, automotive and cleaning sectors.

FEATURES

KRAI375OIL-KRAI375PA FEATURES

- Industrial vacuum cleaner with 3 by-pass type, single-phase motors with independent switches.
- Compact, sturdy and handy, it allows you to vacuum heavy materials such as metal, wood, glass, oil and other types of mechanical waste as well as fine dusts.
- Tangential suction inlet, which ensures rapid disposal of waste.
- High filter surface, 1,5 m^2 and high efficiency, with HEPA cartridge filter H178 (3 micron), protected by a metallic conical barrier for the cyclone effect.
- Stainless steel tilting tank on both models
- KRAI375OIL anti-static and rubber accessories in KRAI375OIL model.
- Includes Ø50 mm industrial type accessories.
- Drainage hose.

KRAI375OIL Anti-oil, anti-static series accessories, D50 mm

ACTF50PUC	Anti-abrasive and anti-static hose, 2 m
ACLA050Z	500 mm zinc plated lance
ACTC050A	Antistatic conical body
ACLC050A	Antistatic conical lance
ACVO050A	Antistatic wavy nozzle
ACMG050Z	Zinc plated pipe sleeve
FI250178H	HEPA Filter cartridge

KRAI375PA D50 mm Dust water accessories series

ACTF50C	Hose 2,5 m Ø50 mm
ACTS050	Zinc plated tube extension, 1 m
ACCS40050	Body nozzle floors
ACIL400DAV	Liquids accessory
ACIP400DAV	Dust accessory
ACPE050	Round brush
ACLP050	Flat nozzle
ACBO050T	Triangular nozzle
FI250178H	HEPA Filter cartridge

KRAI375OIL-KRAI375PA Optional accessories

KITSE440	Solids and liquids separator kit
FA044P	Complete polyester filter
ACCE450V	Metal basket accessories holder
09S0041	Fixed dust accessory
09S0042	Fixed liquids accessory
09S0072	Suction hose fixed accessory

	KRAI375PA	KRAI375OIL
Motor no.	3	3
Power W	3,600/5	3,600/5
Voltage V	1-230	1-230
Output m^3/h	645	645
Depression mm/H_2O	2,400	2,400
Tank l	76	76
Filter surface cm^2	15,000	15,000
Sonority dB a 1 m	68	68
Accessories Ø mm	50	50
Dimensions LxWxH cm	59x60x106	59x60x106
Weight kg	30	30

Equipment prepared for INTENSIVE USE

Comfortable EMPTYING of TANK

Vacuum gauge Included KRAI202

3m² High efficiency FILTRATION surface KRAI202

2 SINGLE-PHASE By-pass motors KRAI202A

ATEX KRAI202ATEX

INDUSTRIAL/VACUUM CLEANERS

KRAI80M/KRAI80T/KRAI202/KRAI202A/KRAI202ATEX

KRAI80M-KRAI80T

KRAI202A

KRAI202-KRAI202ATEX

RECOMMENDED USE

Industrial vacuum cleaners with high airflow, depression and filtering surface, for intensive use. Especially suitable for the construction, industry, transport, automotive and cleaning sectors., etc.

FEATURES

Common features

- Powerful industrial vacuum cleaners, durable, quiet, compact and easy to transport.
- No transmission, no maintenance required.
- Suitable for continuous service.
- Vacuum cleaners mounted on a sturdy cast steel frame, equipped with wheels with brake.

KRAI80M-KRA80T Features

- Large filtration area 4,300 cm2², high efficiency.
- Simple and easy filter cleaning system.
- Front suction system allows suctioning of powders, solids and liquids.
- Waste container in stainless steel.

KRAI80M-KRA80T Ø40 mm Series accessories

09S00081	Flexible hose with 2.5 m terminals
BF732	Double metal curve
BF739	Dust nozzle
BF738	Liquid nozzle
09S0003	Flat nozzle
09S6295	Round brush

KRAI202-KRAI202A-KRAI202ATEX Features

- KRAI202 and KRAI202A, designed to work in conjunction with polishing machines and routers, within the construction sector.
- In KRAI202A, 2 by-pass type, single-phase motors with independent switches.
- In KRAI202 and KRAI202ATEX, high performance and continuous work asynchronous motor-turbine.
- With empty indicator, useful for recording an eventual saturation of the filter.
- Large filtration area 4,300 cm^2 and high efficiency (1 micron).
- Dushut-down self-cleaning system
- Waste container in steel with wheels.
- KRAI202ATEX Model , for working in explosive environments Z22.

KRAI202 and KRAI202A Ø40 mm Series accessories

SV2511210	Hose 2.5 m
AA2642	Double chrome curve
AA2644	Floor dust nozzle
AA2665	Conical body nozzle
AA2647	Round brush

AA2831 Ø40 mm Series accessories kit, KRAI202ATEX anti-statics

AA1161	Anti-static hose 3 m
AA1027	Hose terminals
AA2828	Double aluminium curve
AA2829	Floor dust nozzle
AA2665	Conical body nozzle

	KRAI80M	KRAI80T	KRAI202A	KRAI202	KRAI202ATEX
Motor no.	1	1	2	1	1
Power W/hp	2,200/3	3,000/4	2,300/3.2	1,800/2.5	1,800/2.5
Voltage pH/V	1-230	3-400	1-230	3-400	1-230
Output m^3/h	350	350	360	250	250
Depression mm/H_2O	3,200	3,200	2,500	2,300	1,800
Tank l	80	80	35	20	20
Filter surface cm2	4,300	4,300	3.0000	30,000	30,000
Sonority dB a 1 m	74	74	75	75	75
Accessories Ø mm	40	40	40	40	40
Dimensions LxWxH cm	50x50x140	50x50x140	42x52x100	55x48x115	50x56x107
Weight kg	80	85	31	42	45

Equipment prepared for INTENSIVE USE

Comfortable EMPTYING of TANK

2m²
High efficiency FILTRATION surface

Operated by **COMPRESSED AIR**
KRAI802AIREX

ATEX
KRAI802AIREX

INDUSTRIAL/VACUUM CLEANERS

KRAI37/KRAI46/KRAI802AIREX

KRAI37

KRAI46

KRAI802AIREX

RECOMMENDED USE

FEATURES

Common features

- Powerful industrial vacuum cleaners, durable, quiet, compact and easy to transport.
- No transmission, no maintenance required.
- Suitable for continuous service.
- Front suction system allows suctioning of powders, solids and liquids.

KRAI37-KRAI46 Features

- KRAI37 model, with 3 by-pass type, single-phase motors with independent switches.
- KRAI46 model with asynchronous turbine engine, high performance and continuous work.
- Large filtration area1.8 m^2 and high efficiency (3 micron).
- Anti-static polyester filter, which protects the suction unit and ensures high dust retention.
- Manual filter cleaning system, by shaker with vertical movement.
- Vacuum cleaners mounted on a sturdy cast steel frame, with stainless steel body and tanks and fitted with non-track wheels with brake.
- Stainless steel waste container with wheels.

KIT AA2717 Ø50 mm series accessories KRAI37-KRAI46

7464	Flexible hose with 3 m terminals
004024	Metal reduction 70-50 mm
004047	"L" metal extension
004450	Floors dust-liquid nozzle
004067	Flat nozzle
AA2592	Round brush
004130	Polyester filter 18.000 cm^2

KRAI802AIREX Features

- ATEX pneumatic vacuum cleaner, in accordance with the safety standards in areas of risk of explosion: Zones 1 and 2 for explosive gases and zones 21 and 22 for explosive powders, with TÜV certificate for those zones.
- Venturi-type compressed air suction unit.
- High performance and continuous work.
- Large filtration area 1.8 m and high efficiency (3 micron).
- Anti-static polyester filter, which protects the suction unit and ensures high dust retention.
- Manual filter cleaning system, by shaker with vertical movement.
- Vacuum cleaners made with AISI 304 stainless steel.
- Equipped with non-track wheels with brake.

KIT AA2763 Ø50 mm series accessories KRAI802AIREX

AA2728	Suction hose 3 m, with terminals
AA2638X	Metal reduction 80-50 mm
AA1035	Conical body nozzle
AA2659X	Double aluminium curve
AA1420X	Powder nozzle 430 mm, with wheels

Enquire about optional accessories

	KRAI37	KRAI46	KRAI802AIREX
Motor no.	3	1	Compressed air 1.500 l/m 6 bar
Power W/hp	3,300/4.5	3,000/4	-
Voltage pH/V	1-230	3-400	-
Output m^3/h	540	350	170
Depression mm/H_2O	2,700	3,200	4,500
Tank l	50	75	80
Filter surface cm2	18,000	18,000	8,000
Sonority dB a 1 m	77	77	72
Accessories Ø mm	50	50	50
Dimensions LxWxH cm	62x80x140	62x80x150	50x48x108
Weight kg	62	95	33

Equipment prepared for INTENSIVE USE

Comfortable EMPTYING of TANK

Vacuum gauge Included

3m²

High efficiency FILTRATION surface

100L

100 l WASTE Tank

SIEMENS

SIEMENS vacuum equipment

ATEX

KRAI400ATEX

INDUSTRIAL/VACUUM CLEANERS

KRAI50/KRAI70/KRAI400ATEX

KRAI50/KRAI70

Complete industrial equipment

RECOMMENDED USE

Industrial vacuum cleaners with high airflow, depression and filtering surface, for intensive use. Especially suitable for the industry, transport, automotive and cleaning sectors.

FEATURES

Common features

- Siemens brand powerful, durable and quiet industrial vacuum cleaner.
- No transmission, no maintenance required.
- They are suitable for continuous service (including 24 hours a day)
- Front suction system allows suctioning of powders, solids and liquids.
- Includes vacuum gauge to control the level of depression.
- Large filtration area 3 m^2 and high efficiency (3 micron).
- Manual filter cleaning system, by shaker with vertical movement.
- Vacuum cleaners mounted on a robust varnished steel frame, with support for accessories, equipped with non-track wheels, 2 fixed and 2 caster with brake.
- Waste container in steel with wheels.
- KRAI400ATEX model manufactured according to safety standards for use in hazardous areas, for explosive powders, zones 22.

KRAI50-KRAI70-KRAI400ATEX Ø50 mm Series accessories

AA1019	Suction hose 3 m, with terminals (KRAI50-70)
AA1162	Suction hose 3 m, with terminals (KRAI400ATEX)
AA2638	Metal reduction 80-50 mm
AA2592	Round brush (KRAI50-70)
AA1045	Flat aluminium nozzle (KRAI50-70)
AA1035	Conical body nozzle (KRAI400ATEX)
AA2659	Double aluminium curve
AA1420	Floor dust nozzle 430 mm, with wheels

KRAI50-KRAI70-KRAI400ATEX Optional accessories

AA2722	Accessory Kit D-40
AA2719	Accessory Kit D-70
AA2667	Kit cleaning accessories D-40
AA2763	Anti-static accessories kit D-50
AA1403	Liquid nozzle 430 mm, with wheels D-50
AA2629	Aluminium lance 1000 mm D-50
AA1047	Round aluminium mouth 500 mm D-50
AA1362	Reduction 50-40 mm
AA1028	Side terminal accessory D-50
AA1400	Rubber nozzle 120 mm D-50
AR3003	Polyester filter 30.000 cm^2 D-500
AA1252	HEPA filter D-430 x 80H
AA114500	Decanter cone D-500
AA1003	Solid-liquid separator screen grid
SEPMST011	Separating container 100 l D-450 Ent.-Salt. D-50

	KRAI50	KRAI70	KRAI400ATEX
Motor no.	1	1	1
Power W/hp	4,000/5.5	5,500/7.5	4,000/5.5
Voltage pH/V	3-400	3-400	3-400
Output m^3/h	450	600	450
Depression mm/H_2O	3,000	3,000	2,300
Tank l	100	100	100
Filter surface cm^2	30,000	30,000	30,000
Sonority dB a 1 m	74	77	75
Accessories Ø mm	50	50	50
Dimensions LxWxH cm	64x103x150	64x103x150	64x103x150
Weight kg	110	120	115

Equipment prepared for INTENSIVE USE

Vacuum gauge Included

Ideal for SEPARATING liquids and solids

150/200 l WASTE Tank

TANGENTIAL suction inlet KRAI150OIL

TRANSFER PUMP

For OIL & EMULSIONS

VACUUM CLEANERS/INDUSTRIAL/FOR OILS AND EMULSIONS

KRAI150OIL/KRAI40OIL

KRAI150OIL

KRAI40OIL

RECOMMENDED USE

Industrial equipment for suction of oils, cutting fluids and emulsions mixed with chips and metallic particles. Especially suitable for the industrial sector.

FEATURES

- Rapid aspiration of oils and emulsions mixed with chips and metal particles.
- Separation of solids and liquids through a 40-litre grid.
- Recovery and reintroduction of mixing oil by means of an electric pump.
- No transmission, no maintenance required, suitable for continuous service (Model KRAI40OIL).
- Suction developed by 3 by-pass type motors, with independent switches and empty indicator (Model KRAI150OIL).
- External level indicator, allows constant monitoring of suctioned liquid.
- Float system for break in suction at maximum capacity and nylon filter that prevents the intrusion of solid bodies into motors.
- Tangential suction system with D-50 mm mouth , which allows the aspiration of liquids without risk to motors (KRAI150OIL)
- Powerful electric pump with independent supply, allows fast removal of suctioned liquid, even at great distances.
- The vacuum cleaner is mounted on a robust varnished steel frame, with support for accessories, equipped with non-track wheels, 2 fixed and 2 rotating with brake.
- Complete accessories kit D-50 mm.

Series accessories D50 mm

AA2732	Anti oil suction hose 3 m, with terminals
AA1280	Rubber conical body nozzle
AA1043	Aluminium lance nozzle
AA2595	Floors lance nozzle tube

	KRAI150OIL	KRAI40OIL
Motor no.	3	1
Power W/hp	3,450/4.7	4,000/5.5
Voltage pH/V	1-230	3-400
Output m^3/h	540	300
Depression mm/H_2O	2,500	3,500
Tank l	150+40	200+40
Filter surface cm^2	300 micron	300 micron
Sonority dB a 1 m	76	73
Accessories Ø mm	50	50
Dimensions LxWxH cm	60x70x140	120x62x145
Weight kg	70	130

INOX
Stainless steel tank KRAA365BS

KRAA99-KRAA365BS PVC protected head

Filter cartridge in KRAA105COM

30°
Washable polyester filter KRAA365BS

Need for **COMPRESSED AIR**

BLASTERS/PROFESSIONAL VACUUM CLEANERS

KRAA105COM/KRAA365BS

KRAA105COM

KRAA365BS

RECOMMENDED USE

Venturi blasting machines, which launch the abrasive and recover it, reintroducing it to the tank itself by using the brush extraction system. High technology, compact, light and handy, can work independently with or without suction. Suitable for the engraving and cleaning of façades, sculptures, monuments, crosses, gravestones, pantheons, etc.

FEATURES

Common features:

- They are impact-suction vacuum engraving machines, which launch and suctions the abrasive in continuous recycling.
- The gun controls respond instantaneously at start and shut-down.
- Pressurised air is injected into the gun, and the abrasive and compressed air are mixed inside the gun, entering through separate and independent ducts.
- Usable with different aggregates such as silica, corundum, grit, etc. (Consult applications).
- For the correct functioning of these Sanders-Vacuum cleaners, a minimum of 4 kW Electrical Compressor, 9 Hp Petrol, with a minimum of 100 litres in tank is required and 8 bars of pressure and a flow rate of 540 l / m generated.

KRAA99-KRAA105COM Features

- Great suction power, small size, easy accessibility.
- Long lasting self-ventilating motors.
- Air pressure regulating filter valve with pressure gauge.
- 5 m length of electric cable
- Washable cartridge special filter.
- Painted steel tank , lightweight, shock and heat resistant.
- Complete engraving-vacuum accessories.

KRAA365BS Features

- Stainless steel, high capacity lightweight tank, non-conducive of static electricity, resistant to shock, heat and harsh chemicals.
- PVC shock resistant head protected for noise reduction.
- Long lasting self-ventilating motors.
- Air pressure regulating filter valve with pressure gauge.
- Washable polyester filter and anti-foam device.
- Mechanical filter cleaning system, without the need to take off or remove the head for cleaning.
- 7.5 m length of electric cable
- Easy-to-empty tipping tank.
- Complete engraving-vacuum accessories kit.

KRAA105COM-KRAA365BS Series accessories

09S00081	Suction hose with 2.5 m terminals
50301	Sandblasting gun
27370365	Suc. Hose, glass 6 m
20201705096	Sandblasting suction brush
50205	Rubber nozzles kit
55090039	KRAA365BS Polyester filter cloth
KRAA10510	KRAA105COM Filter cartridge

KRAA105COM-KRAA365BS Series accessories

20201682294	Long sand blasting gun with tungsten nozzle
20201682494	Long sand blasting gun with steel nozzle

	KRAA105COM	KRAA365BS
Motor no.	1	3
Power W	1,200	3,600
Voltage V	220-240	220-240
Cooling	By-Pass	By-Pass
Output m^3/h	190	700
Max. pressure bar	8	8
Tank l	105	78
Sonority dB a 1 m	70	74
Accessories Ømm	40	40
Dimensions LxWxH cm	37x37x104	62x51x99
Weight kg	40	30

kruger.es

CHARGER AND BATTERY included in KF36BBC

REVERSIBLE suction lips

Ideal for REDUCED spaces

18kg

Brush pressure

SOLENOID VALVE Detergent

Impact- and acid-resistant polyethylene tanks

SCRUBBER/PROFESSIONAL SERIES/ELECTRIC OR BATTERY

KF36E/KF36BBC

Easy storage and transport

RECOMMENDED USE

Compact and ergonomic professional scrubber, ideal for cleaning and maintenance of hard surfaces in areas difficult to access or between furniture. Especially suitable for the hotel sector, small stores, shops, etc.

FEATURES

- Easy to use, easy to maintain and high performance.
- Separate switches for the various functions of the scrubber.
- Lever on the handle for water advance and exit, easy to operate in any position.
- Detergent outlet control by solenoid valve.
- Motors protected by circuit breakers.
- Floating wash head that allows the brush to adhere to the surface in an optimal way, guaranteeing homogeneouspressure.
- Parabolic suction nozzle that ensures perfect drying, with reversible rubber lips.
- The reclining handle facilitates transportation and storage.
- Equipped with maintenance-free, long-life AGM battery (1 hour and 1200 charge cycles) and 12 V-10 and charger with charge indicator (in KF36BBC).
- Nylon brush as standard equipment.

Series accessories

55111411	Nylon brush 0.3 fine 360 mm
12V55AHGEL	Battery 12 V 50 Ah AGM (KF36BBC)
01080045	High frequency charger 12 V 10A (KF36BBC)

Optional accessories

55111346	Nylon brush 0.65 hard 360 mm
55111413	Tynex brush 360 mm
55111129	Velcro traction plate 360 mm
1321448001	Polishing disc 350 mm
1321448002	Scrubber disc 350 mm
1321448003	Abrasive disc 350 mm
1321448004	Abrasive disc Plus 350 mm
1349250000	K49 Soft detergent esp. Floors 25 kg
1350250000	K50 Strong detergent special for flooring with treads 25 kg

	KF36E	KF36BBC
Maximum yield m^2/h	1,260	1,260
Width of scrubbing mm	360	360
Drying width mm	460	460
Voltage V	230	12 DC
No. of brushes / Diameter	1x360	1x360
Brush rotation rpm	130	130
Brushes pressure kg/cm^2	18	18
Brushes motor traction W	370	250
Traction motor brushes W	Mechanical	Mechanical
Suction motor brushes W	400	250
Clean water tank l	12	12
Recovery tank l	12	12
AGM Battery V/Ah	-	1x12x50 AGM
Battery endurance h	-	1
Dimensions LxWxH cm	120x43x97	120x43x97
Weight kg	61	70

Velcro face plates Tynex Brush Nylon Brush

Scrubber / polishing / abrasive disc

Chemical product

CHARGER AND BATTERY included

REVERSIBLE suction lips

Powerful 2-stage vacuum cleaner

Great pressure on brushes

Impact- and acid-resistant polyethylene tanks

BATTERY charging light

1 brush

SCRUBBERSS/PROFESSIONAL SERIES/ELECTRIC OR BATTERY

KFL50E/KFL50BBC/KFL50BBCTR

RECOMMENDED USE

Compact and ergonomic professional scrubber, ideal for cleaning and maintenance of medium and large hard surfaces. Especially suitable for the hospitality, cleaning, industry and warehouses sectors.

FEATURES

- Compact and ergonomic professional scrubber, ideal for cleaning and maintenance of medium and large hard surfaces..
- Easy to use, easy to maintain and high performance.
- Mechanical traction.
- Floating wash head that allows the brush to adhere to the surface in an optimal way, guaranteeing homogeneous pressure.
- Motors protected from impacts and well insulated from water.
- Suction motor fitted inside the tank lid for perfect acoustic insulation.
- High density polyethylene tanks, shock- and acid-resistant.
- External, easy-access suction filters for quick and easy maintenance of the whole machine.
- Adjustable suction nozzle that ensures perfect drying, with reversible rubber lips.
- Dry nozzle with support for parallelogram, which allows drying to be performed with the brush raised without scrubbing.
- Short suction flume, when the recovery tank is full

Series accessories

109DS05004	Nylon brush 0.3 fine 480 mm
12V80AHGEL	Battery 12 V 80 Ah GEL (KFL50BBC/TR)
01080031	High frequency charger 24 V 10A (KFL50BBC/TR)

Optional accessories

55110233	Nylon brush 0.65 hard 480 mm
55110235	Tynex brush 480 mm
55110239	Velcro traction plate 480 mm
1321948001	Polishing disc 480 mm
1321948002	Scrubber disc 480 mm
1321948004	Abrasive disc 480 mm
1321948003	Abrasive disc Plus 480 mm
1349250000	K49 Soft detergent special for floors 25 kg
1350250000	K50 Strong detergent special for floors with treads 25 kg

	KFL50E	KFL50BBC	KFL50BBCTR
Maximum yield m^2/h	2,000	2,000	2,000
Width of scrubbing mm	500	500	500
Drying width mm	800	800	800
Voltage V	230	24 DC	24 DC
No. of brushes / Diameter	1/500	1/500	1/500
Brushes pressure kg/cm^2	30	24	24
Brushes motor traction W	550	250	250
Traction motor brushes W	Mechanical	Mechanical	200
Suction motor brushes W	1,000	480	480
Clean water tank l	44	44	44
Recovery tank l	55	55	55
GEL Battery V/Ah	-	2x12x80 GEL	2x12x80 GEL
Battery endurance h	-	2,5	2,5
Dimensions LxWxH cm	114x50x98	114x50x98	114x50x98
Weight kg	115	116	120

Velcro face plates Tynex Brush Nylon Brush

Scrubber / polishing / abrasive disc

Chemical product

2

2 brushes

CHARGER AND BATTERY included

45kg

Great pressure on brushes

REVERSIBLE suction lips

SOLENOID VALVE Detergent

Impact- and acid-resistant polyethylene tanks

2

Powerful 2-stage vacuum cleaner

BATTERY charging light

Built-in hour meter

SCRUBBERSS/PROFESSIONAL SERIES/BATTERY

KF56BBC-KF67BBC

RECOMMENDED USE

Compact, robust and reliable professional scrubbers, ideal for cleaning and maintenance of medium and large hard surfaces. Especially suitable for the hospitality, cleaning, industrial and warehouses sectors.

FEATURES

- KF56BBC and KF67BBC models, recommended for hard and semi-hard surfaces with independent traction.
- High density, high capacity polyethylene tanks, shock- and acid-resistant.
- Automatic traction with reversing by differential..
- Monoblock steel wash head, exerts pressure up to 45 kg.
- Transmission to the brush by gear motor.
- High-power 2-stage suction motor.
- External, easy-access suction filters for quick and easy maintenance of the whole machine..
- Level indicator and detergent solenoid valve.
- Battery charge status light.
- Easy and immediate access to the batteries.
- External socket for battery charging.
- Easy-to-adjust suction nozzle and perfect drying.
- Short suction flume, when the recovery tank is full

Series accessories

55111254	Nylon brush 0.3 fine 275 mm KF56BBC (2 U)
55111255	Nylon brush 0.3 fine 330 mm KF67BBC (2 U)
2V105AHGEL	Battery 12 V 105 Ah GEL (2 units)
01080031	High frequency charger 24 V 10A

KF56BBC Optional accessories

55111101	Nylon brush 0.65 hard 275 mm Unit
55111102	Tynex brush 275 mm Unit
55111103	Velcro traction plate 275 mm unit

KF67BBC Optional accessories

55111105	Nylon brush 0.65 hard 330 mm Unit
55111106	Tynex brush 330 mm Unit
55111107	Velcro traction plate 330 mm unit

KF56BBC Optional accessories

1321128001	Polishing disc 280 mm
1321128002	Scrubber disc 280 mm
1321128004	Abrasive disc 280 mm
1321128003	Abrasive disc Plus 280 mm

KF67BBC Optional accessories

1327300013	Polishing disc 330 mm
1327100013	Scrubber disc 330 mm
1327200013	Abrasive disc 330 mm
1521201	Abrasive disc Plus 330 mm
1349250000	K49 Soft detergent special for floors 25 kg
1350250000	K50 Strong detergent special for floors With tread 25 kg

	KF56BBC	KF67BBC
Peak performance m^2/h	2,475	2,970
Width of scrubbing mm	550	660
Drying width mm	800	800
Voltage V	24 DC	24 DC
No. of brushes / Diameter	2x275	2x330
Brushes pressure kg/cm^2	45	45
Brushes motor traction W	600	600
Traction motor brushes W	200	200
Suction motor brushes W	480	480
Clean water tank l	67	67
Recovery tank l	77/95	77/95
GEL Battery V/Ah	2x12x105 GEL	2x12x105 GEL
Battery endurance h	2.5	2.5
Dimensions LxWxH cm	129x63x108	129x71x108
Weight kg	102	107

Velcro face plates Tynex Brush Nylon Brush

Scrubber / polishing / abrasive disc

Chemical product

BATTERY charging light

Impact- and acid-resistant polyethylene tanks

49kg

Great pressure on brushes

3

Powerful 3-stage vacuum cleaner

Built-in hour meter

REVERSIBLE suction lips

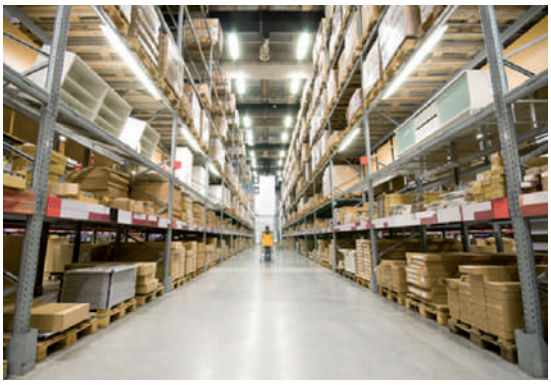
2

2 brushes Large width of scrubbing

SOLENOID VALVE Detergent

SCRUBBERS/PROFESSIONAL SERIES/BATTERY

KF71B



Optional charger and battery

RECOMMENDED USE

Compact, robust and highly reliable professional scrubbers, ideal for cleaning and maintenance of large surfaces. Especially suitable for cleaning companies, industry, car parks, warehouses, etc.

FEATURES

- High density, high capacity polyethylene tanks, shock- and acid-resistant.
- Automatic traction with reversing by differential..
- Monoblock steel wash head, exerts pressure up to 49 kg.
- Transmission to brushes by reducing motor..
- High-power 3-stage suction motor.
- Solenoid valve detergent discharge.
- External, easy-access suction filters for quick and easy maintenance of the whole machine..
- Battery charge status light.
- Hour meter.
- Easy and immediate access to the batteries.
- External socket for battery charging.
- Easy-to-adjust suction nozzle and perfect drying.
- Short suction flume, when the recovery tank is full

Series accessories

55111169	Nylon brush 0.3 fine 360 mm KF71B (2 U)

Optional accessories

55111168	Nylon Brush 360 mm Unit
55111246	Tynex brush 360 mm Unit
55111129	Velcro traction plate 360 mm Unit
1321048001	Polishing disc 350 mm
1321048002	Scrubber disc 350 mm
1321048003	Abrasive disc 350 mm
1321048004	Abrasive disc Plus 350 mm
1349250000	K49 Soft detergent special for floors 25 kg
1350250000	K50 Strong detergent special for floors with treads 25 kg
6V210AH	Battery 6 V 210 Ah ACID x 4 (C Series)
C2430	Battery charger 24 V 30A (C Series)

KF71B

Peak performance m^2/h	4,275
Width of scrubbing mm	750
Drying width mm	900
Voltage V	24 DC
No. of brushes / Diameter	2x360
Brushes pressure $^{kg/cm}kg/cm^2$	49
Brushes motor traction W	1,000
Traction motor brushes W	300
Suction motor brushes W	550
Clean water tank l	88
Recovery tank l	91-95
ACID Battery V/Ah	4x6x210
Battery endurance h	4-5
Dimensions LxWxH cm	133x73x117
Weight kg	153

Velcro face plates Tynex Brush Nylon Brush

Scrubber / polishing / abrasive disc

Chemical product

KF675BBC

RECOMMENDED USE

Compact, rugged, reliable, easy-to-handle, high-performance, easy-to-maintain on-board industrial scrubber. Ideal for cleaning and maintenance of small, medium and large surfaces. With a scrubbing width of 660 mm, it is ideal for cleaning narrow aisles with difficult access. Especially suitable for cleaning companies, industry, car parks, shopping centres, warehouses, etc.

FEATURES

- High density, high capacity polyethylene tanks, shock- and acid-resistant.
- Traction by reduction motor on rear wheels.
- Electric brake.
- Floating wash head.
- Transmission to brushes by reducing motor.
- Mechanical system for raising / lowering the wash head and drying nozzle.
- High-power 2-stage suction motor, soundproofed.
- External, easy-access suction filters for quick and easy maintenance of the whole machine..
- Control system for detergent output by means of solenoid valve.
- Simple and quick brush assembly enabled by automatic latch system
- Digital timer.
- Thermoplastic wheels.
- Battery charge status light.
- Easy and immediate access to the batteries.
- External socket for battery charging.
- High frequency charger 24 V 10 Ah.
- Easy-to-adjust suction nozzle and perfect drying, with reversible rubber lips.
- 2 Nylon brushes as standard equipment.
- Short suction flume, when the recovery tank is full

Series accessories

55111255	Nylon brush 0.3 fine 330 mm KF675BBC (x 2)
12V105AHGEL	Battery 12 V 105 Ah GEL (2 units)
01080031	High frequency charger 24 V 10 Ah.

Optional accessories

55111105	Nylon brush 330 mm Unit
55111106	Tynex brush 330 mm Unit 236,03
55111107	Velcro traction plate 330 mm unit
1327300013	Polishing disc 330 mm
1327100013	Scrubber disc 330 mm
1327200013	Abrasive disc 330 mm
1521201	Abrasive disc Plus 330 mm
1349250000	K49 Soft detergent special for floors 25 kg
1350250000	K50 Strong detergent special for floors with Treads 25 kg

KF675BBC

Peak performance m²/h	3,250
Width of scrubbing mm	660
Drying width mm	900
Voltage V	24 DC
No. of brushes / Diameter	2x330
Spin and pressure of brushes rpm/kg/cm²	150/32
Brushes motor traction W	2x400
Traction motor brushes W	400
Suction motor brushes W	480
Clean water tank l	80
Recovery tank l	80-85
GEL Battery V/Ah	2x12x105
Battery endurance h	2.5
Dimensions LxWxH cm	123x63x121
Weight kg	160

Velcro face plates Tynex Brush Nylon Brush

Scrubber / polishing / abrasive disc

Chemical product

CHARGER AND BATTERY included

BATTERY charging light

Impact- and acid-resistant polyethylene tanks

REVERSIBLE suction lips

Powerful 2-stage vacuum cleaner

32kg

Spin and pressure of brushes rpm/kg 150/32

SOLENOID VALVE Detergent

NEW

BATTERY charging light

Impact- and acid-resistant polyethylene tanks

REVERSIBLE suction lips

Built-in hour meter

Powerful 2-stage vacuum cleaner

SOLENOID VALVE Detergent

SCRUBBERS/INDUSTRIAL SERIES/BATTERY/MAN ON BOARD

KF76B/KF76BPLUS/KF85BPLUS

Optional charger and battery

RECOMMENDED USE

Compact, rugged, reliable, easy-to-handle, high-performance, easy-to-maintain on-board industrial scrubber. Ideal for cleaning and maintenance of small large surfaces. Especially suitable for cleaning companies, industry, car parks, warehouses, etc.

FEATURES

- High density, high capacity polyethylene tanks, shock- and acid-resistant.
- Traction by reduction motor on front wheel.
- Electric brake.
- Floating wash head.
- Transmission to brushes by reducing motor.
- Mechanical system in KF76B, and automatic electronic in KF76PLUS-KF85PLUS, for raising / lowering the wash head and drying nozzle.
- High-power 2-stage suction motor, soundproofed.
- External, easy-access suction filters for quick and easy maintenance.
- Control system for detergent output by means of solenoid valve.
- Simple and quick brush assembly enabled by automatic locking system.
- Digital timer in KF76BPLUS-KF85BPLUS.
- Thermoplastic wheels in (KF76B), and highly resistant anti-foil polyurethane in KF76BPLUS-KF85BPLUS.
- Controls and digital display.
- Battery charge status light.
- Empty water tank indicator light and front / rear traction indicator.
- Flashing light in KF76BPLUS-KF85BPLUS.
- Automatic nozzle lifting device for reversing in KF76BPLUS-KF85BPLUS.
- Automatic device for shut-downping brushes and interrupting detergent dispensing with machine shut-downped.
- Easy and immediate access to the batteries.
- External socket for battery charging.
- Easy-to-adjust suction nozzle and perfect drying, with reversible rubber lips.
- 2 Nylon brushes as standard equipment.
- Short suction flume, when the recovery tank is full

Series accessories

55111168	Brush Nylon 360 mm KF76B-KF76BPLUS (2 units)
55111688	Brush Nylon 430 mm KF85BPLUS (2 units)

Common optional accessories

6V210AH	Battery 6 V 210 Ah ACID 4 Units (C Series)
C2430	Battery charger 24 V 30A (C Series)
1349250000	K49 Soft detergent special for floors 25 kg
1350250000	K50 Strong detergent special for floors treads 25 kg

KF76B/KF76BPLUS Optional accessories

55111168	Nylon brush 360 mm Unit
55111246	Tynex brush 360 mm Unit
55111592	Velcro traction plate 380 mm unit

KF85BPLUS Optional accessories

55111688	Nylon brush 430 mm Unit
55111713	Tynex brush 430 mm Unit
55111095	Velcro traction plate 430 mm unit

KF76B/KF76BPLUS Optional accessories

1321538001	Polishing disc 380 mm
1321538002	Scrubber disc 380 mm
1321538004	Abrasive disc 380 mm
1321538003	Abrasive disc Plus 380 mm

KF85BPLUS Optional accessories

1327320041	Polishing disc 430 mm
1327320002	Scrubber disc 430 mm
1521202	Abrasive disc 430 mm
1327320040	Abrasive disc Plus 430 mm

	KF76B	KF76BPLUS	KF85BPLUS
Peak performance m^2/h	3,750	3,750	4,100
Width of scrubbing mm	750	750	850
Width of drying mm	900	900	1,000
Voltage V	24 DC	24 DC	24 DC
No. of brushes / Diameter mm	2x360	2x360	2x430
Spin and pressure of brushes rpm/kg/	150/50	150/50	150/50
Brushes motor traction W	2x400	2x400	2x400
Traction motor brushes W	600	600	600
Suction motor brushes W	400	400	400
Clean water tank l	110	110	110
Recovery tank l	130/155	130/155	130/155
Max. possible power empty/full tank %	13/10	13/10	13/10
ACID Battery V/Ah	4x6x210	4x6x210	4x6x210
Battery endurance h	3	3	3
LxWxH dimensions cm	146x81x138	146x81x138	146x81x138
Weight (without batteries) kg	220	223	223

Velcro face plates Tynex Brush Nylon Brush

Scrubber / polishing / abrasive disc

Chemical product

KF90B

Optional charger and battery

NEW

BATTERY charging light

Impact- and acid-resistant polyethylene tanks

3

Powerful 3-stage vacuum cleaner

Large width of scrubbing

Lowering and raising of Electric brushes

NFS

Anti-foam device

Built-in hour meter

SOLENOID VALVE Detergent

80kg

Great pressure on brushes

RECOMMENDED USE

Compact, rugged, reliable, easy-to-handle, high-performance, easy-to-maintain on-board industrial scrubber. Ideal for cleaning and maintenance of large surfaces. Especially suitable for cleaning companies, industry, car parks, warehouses, hospitals, etc.

FEATURES

- Professional man-on-board scrubber, with great independent operation with its robustness, reliability and easy handling. Ideal for the most demanding and heavy jobs.
- High density, high capacity polyethylene tanks, shock- and acid-resistant. This large load capacity reduces the number of shut-downs and maximises battery charge performance.
- Large diameter lid in recovery tank, allowing quick and easy cleaning.
- The reclining tank together with the large diameter drain hose allows the tank to be completely emptied.
- Short suction flume that interrupts suction when the recovery tank is full
- Chassis built in steel profiles with a thickness of 5 to 12 mm, protected by anti-corrosive paint..
- Simple and intuitive control panel, equipped with timer, speed control knob and low detergent solution and battery charge indicators.
- Traction by reduction motor on front wheel.
- Electric brake system on front wheel reduction motor.
- Single block wash head with auto level ALS system, and constant brushes pressure 80 kg.
- Transmission to brushes by reducing motor.
- Automatic raising and lowering of brushes and drying mouth.
- Automatic drying nozzle lifting device for reversing in KF76BPLUS-KF85BPLUS.
- Automatic device for shut-downping brushes and interrupting detergent dispensing with machine shut-downped.
- High-power 3-stage suction motor.
- Anti-sealing filter housing for suction hose.
- NFS Anti-foam system for protection of the suction motor.
- Detergent solution dispenser by solenoid valve.
- Easy-to-adjust and dry suction nozzle outlined in "V" and perfect drying.
- Highly resistant non-track polyurethane wheels.
- Easy and immediate access to the batteries.
- External socket for battery charging.
- Battery compartment 450 Ah C5, which allows a continuous working time of up to 5 h
- 2 Nylon brushes as standard equipment.

	KF90B
Peak performance m²/h	6,200
Width of scrubbing mm	900
Width of drying mm	1,000
Voltage V	24 DC
No. of brushes / Diameter mm	2x457
Spin and press. of brushes rpm/kg/cm²	150/80
Brushes motor traction W	1,250
Traction motor brushes W	1,000
Suction motor brushes W	550
Clean water tank l	140
Recovery tank l	150/180
Max. possible power empty/full tank %	10/7
ACID Battery V/Ah	HOUS.1x24x450
Battery endurance h	5
LxWxH dimensions cm	175x93x149
Weight (without batteries) kg	240

Series accessories

55111845	Nylon brush 457 mm KF90B (2 Units)

Optional accessories

24V450AH	Battery 1x24 Vx450 Ah-5H
C2460	Battery charger 24 V -60A

Velcro face plates Tynex Brush Nylon Brush

55111848	Tynex brush 457 mm (unit)
55111849	Nylon brush 0.3 mm 457 mm (unit)
55111847	Velcro traction plate 457 mm (unit)

Scrubber / polishing / abrasive disc

1321845001	Polishing disc 450 mm
1321845002	Scrubber disc 450 mm
1321845004	Abrasive disc 450 mm
1321845003	Abrasive disc Plus 450 mm
1349250000	K49 Soft detergent special for floors 25 kg
1350250000	K50 Strong detergent special for floors with treads 25 kg

BATTERY charging light

Impact- and acid-resistant polyethylene tanks

NFS
Anti-foam device

3
Powerful 3-stage vacuum cleaner

170kg
Great pressure on brushes

Lowering and raising of Electric brushes

Built-in hour meter

SOLENOID VALVE Detergent

Large width of scrubbing

KF120B

Polyurethane Non-track wheels

3 nylon brushed 406 mm

Optional charger and battery

RECOMMENDED USE

Compact, rugged, reliable, easy-to-handle, high-performance, easy-to-maintain on-board industrial scrubber. Ideal for cleaning and maintenance of small large surfaces. Especially suitable for cleaning companies, industry, car parks, warehouses, etc.

FEATURES

- Professional man-on-board scrubber, with exclusive traction system on three wheels, great independent operation with its robustness, reliability and easy handling. Ideal for the most demanding and heavy jobs.
- High density, high capacity polyethylene tanks, shock- and acid-resistant.
- Total drive by reduction motor on all three wheels and speed control device.
- Braking system with drum on rear wheels and parking brake.
- Monobloc wash head with ALS self-levelling system and a pressure exerted on the floor of 150 to 170 kg.
- 3 independent motors for each scrub brush.
- Rise and lower brushes with electric motor.
- High-power 3-stage suction motor.
- Anti-sealing filter housing for suction hose.
- NFS Anti-foam system for protection of the suction motor.
- Highly resistant non-track polyurethane wheels.
- Control system for detergent output by means of solenoid valve.
- Digital hour meter.
- Battery charge status light.
- Easy and immediate access to the batteries.
- External socket for battery charging.
- Easy-to-adjust and dry suction nozzle outlined in "V" and perfect drying.
- 3 Nylon brushes as standard equipment.

Series accessories

5511109	Nylon brush 457 mm KF90B (3 Units)

Optional accessories

55111109	Nylon brush 406 mm Unit
55111110	Tynex brush 406 mm Unit
55111111	Velcro traction plate 406 mm unit
1327320041	Polishing disc 430 mm
1327320002	Scrubber disc 430 mm
1521202	Abrasive disc 430 mm
1327320040	Abrasive disc Plus 430 mm
1349250000	K49 Soft deterg. special for floors 25 kg
1350250000	K50 Strong detergent special for floors with treads 25 kg
36V450AH	Battery 1x36 Vx450 Ah-5H (C Series)
C3670	Battery charger 36 V -70A (C Series)

KF120B

Peak performance m²/h	8,400
Width of scrubbing mm	1,220
Drying width mm	1,450
Voltage V	36 DC
No. of brushes / Diameter	3x406
Brush rotation rpm	150
Brushes pressure kg/cm²	170
Brushes motor traction W	3x1,000
Traction motor brushes W	3x600
Suction motor brushes W	600
Clean water tank l	280
Recovery tank l	315-340
ACID Battery V/Ah	HOUSI. 1x36x450
Battery endurance h	5 - 6
Dimensions LxWxH cm	222x112x169
Weight (without batteries) kg	585

Velcro face plates Tynex Brush Nylon Brush

Scrubber / polishing / abrasive disc

Chemical product

KFB650BBC/KFB850BBC

RECOMMENDED USE

Intense service man-on-board Scrubber-Sweeper - compact, rugged, reliable, easy-to-handle, high-performance and easy-to-maintain. Ideal for cleaning and maintenance of medium and large surfaces. With its 3 functions of sweeping, scrubbing and drying, it differs from other machines on the market through its high performance and low water and chemical product consumption, saving cleaning costs. Especially suitable for cleaning companies, industry, car parks, warehouses, etc.

CHARGER AND BATTERY included

BATTERY charging light

Impact- and acid-resistant polyethylene tanks

Powerful 2-stage vacuum cleaner

Suspension of 6 cm in brushes

Suspension of 6 cm in drying mouth

FEATURES

- Very compact sweeper with maximum width dimensions slightly higher than the scouring track, allowing cleaning in small and narrow aisles and premises.
- These models work smoothly and with a perfect finish even on uneven surfaces with their self-levelling central brush, which can sweep and scrub deeply over protrusions on the surface.
- The sweeping system collects large amounts of waste with its large holding tank. It performs complete filtration and does not require suction filtration, as the sweeping action is preceded by humidification with water and product of the surface to be swept.
- High density, high capacity polyethylene tanks, shock- and acid-resistant.
- Traction by reduction motor on front wheel.
- Minimum turning radius without leaving traces of water or dirt.
- Electric brake.
- Floating wash-sweeping head.
- Transmission to side brushes by reducing motor.
- High-power 2-stage suction motor, soundproofed.
- Central brush pressure, dosage of water and detergent administered from control panel.
- Water-independent detergent dispensing system.
- Easy access to all components for any intervention and maintenance
- Digital timer and emergency shut-down button on control panel.
- Thermoplastic wheels.
- Battery charge status light.
- Easy and immediate access to the batteries.
- External socket for battery charging.
- High frequency charger 24 V 20 Ah.
- Easy-to-adjust suction nozzle and perfect drying.
- 1 central cylindrical brush + 1 side nylon brushes, As standard equipment.,

Series accessories

1008100	Nylon central brush 650 mm KFB650BBC
2008200	Nylon central brush 850 mm KFB850BBC
0008000	Nylon side brush D400 mm
24V320AH	Housing battery 24 V 320 Ah
0200010	High frequency charger 24 V 20A

Optional accessories

0100001	Left side brush unit
0100002	150 Amp traction lift (20% outstanding)
0100003	Back-up acoustic indicator
0100004	Headlight kit
1008101	Tynex-PPL central brush 650 mm KFB650BBC
1008102	Tynex central brush 650 mm KFB650BBC
1008201	Tynex central brush 850 mm KFB850BBC
1008202	Tynex central brush 850 mm KFB850BBC
1349250000	K49 Soft detergent special for floors 25 kg
1350250000	K50 Strong detergent special for floors with treads 25 kg

	KFB650BBC	KFB850BBC
Sweep width with 1 side brush mm	880	880
Sweep width with 2 side brushes mm	1,060	1,060
Width of scrubbing mm	650	850
Drying width mm	670	900
Cleaning capacity / performance m^2/h	3,800	4,500
Operating time with 3 functions h	3	3
Clean water tank capacity l	90	90
Chemical tank capacity l	3	3
Recovery tank capacity l	90	90
Solid waste tank capacity	23	30
Centre brush / scrubbing, length and diameter mm	650 x Ø300	850 x Ø300
Brush rotation rpm	900	900
No. of side brushes swept length and diameter mm	2 x 400	2 x 400
Turning radius mm	860	860
Traction	Front wheel	Front wheel
TYPES OF TRACTION	Electric motor reducer	Electric motor reducer
Maximum travel speed Km/h	0 - 6	0 - 6
Maximum surmountable gradient %	12	12
Central brush suspension height and drying mouth mm	60	60
Mains voltage	24 DC	24 DC
No. of dry suction motors W	1 x 24 V x 850	1 x 24 V x 850
No. of motors cylindrical brush scrub W	1 x 24 V x 1,000	1 x 24 V x 1,000
No. of motors lateral brushes sweeping W	1 x 24 V x 400	1 x 24 V x 400
ACID Battery	HOUSING 24 V 320 Ah C5	HOUSING 24 V 320 AH C5
Battery charger	24 V 20 Ah High frec.	24 V 20 Ah High frec.
Noise level dB	78	78
Dimensions LxWxH cm	140x78x130	140x78x130
Weight (without batteries) kg	515	515

KBF115B/KBF115G/KBF115D

6m²
High efficiency FILTRATION surface

BATTERY charging light

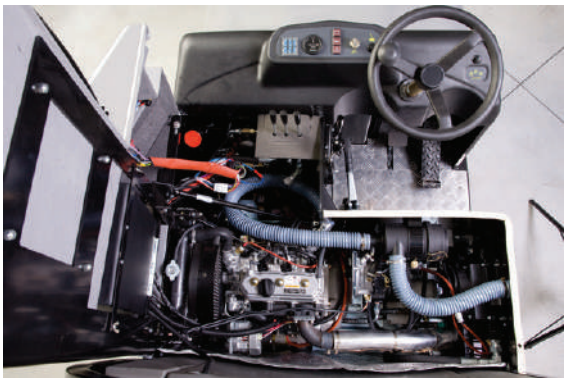
Built-in hour meter

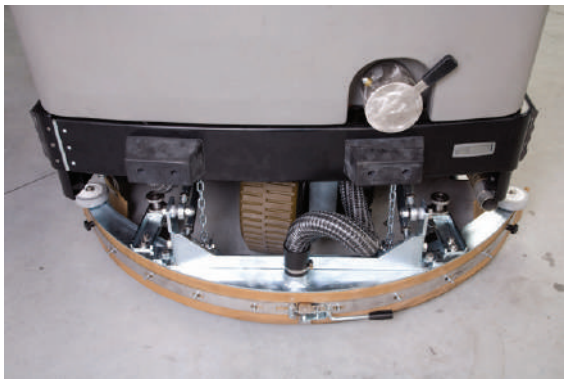
210L 220L
LARGE capacity tank

ELECTRIC Filter Shaker

ADJUSTABLE BRUSHES

Wide width Sweeping and scrubbing





RECOMMENDED USE

Sweeping and scrubbing simultaneously on the same machine. Ideal for large areas where a great cost savings due to cleaning is required.

KBF115B battery and charger included

	KBF115B	KBF115G	KBF115D
Drying width mm	1,450	1,450	1,450
Width of scrubbing mm	1,150	1,150	1,150
Drying width mm	1,350	1,350	1,350
Cleaning capacity / performance at maximum m^2/h	7,000	8,050	8,050
Operating time with 3 settings h	3	UNLIMITED	UNLIMITED
Gas/Diesel tank capacity l	---	20	20
Chemical tank capacity l	220	220	220
Recovery tank capacity l	210	210	210
Solid waste tank capacity l	210	210	210
Solid waste tank hydraulic discharge	Yes	Yes	Yes
Filter surface m^2	6	6	6
No. of brushes and diameter scrubbed mm	3 x 380	3 x 380	3 x 380
Central brush length and diameter mm	850 x 300	850 x 300	850 x 300
No. of side brushes swept length and diameter mm	2 x 400	2 x 400	2 x 400
Scrubbing brushes pressure kg	180	180	180
Traction	Rear hydraulics	Rear hydraulics	Rear hydraulics
TYPES OF TRACTION	Moto-wheel / differential	Moto-wheel / differential	Moto-wheel / differential
Maximum travel speed Km/h	0 - 6	0 - 7	0 - 7
Maximum surmountable gradient %	10	10	10
Minimum turning radius mm	1,900	1,900	1,900
Mains voltage V	36 DC	GAS GPL	DIESEL
No. of dry suction motors W	2 x 36 V x 850	2 x 36 V x 850	2 x 36 V x 850
No. of sweeping suction motors W	1 x 36 V x 350	1 x 36 V x 350	1 x 36 V x 350
No. of scrubbing suction motors W	3 x 36 V x 900	3 OMM HYDRAULIC	3 OMM HYDRAULIC
Filter shaker motor W	1 x 36 V x 200	1 x 36 V x 4,4 AMP 7.000 rpm	1 x 36 V x 4,4 AMP 7.000 rpm
Hydraulic traction motor	GLT 250	GLT 250	GLT 250
Battery power	HOUSING 36 V 630 Ah	GAS GPL	DIESEL
Raising side sweeping brushes	Electrical	Electrical	Electrical
Raising central sweeping brushes	Electrical	Electrical	Electrical
Raising scrubbing brushes	Electrical	Electrical	Electrical
Raising dry mouth	Electrical	Electrical	Electrical
Base scrubbing brushes	Electrical	Electrical	Electrical
Service brake	Hydraulic pedal	Hydraulic pedal	Hydraulic pedal
Parking Brake	Mechanical by cam	Mechanical by cam	Mechanical by cam
Noise level	78	85	85
Length cm	2,100	2,100	2,100
Width cm	1,230	1,230	1,230
Height cm	1,850	1,850	1,850
Weight (without batteries) kg	960	960	960
ACID Battery	HOUSING 36 V 630 Ah	---	---
Battery charger	1 36 V 80 Ah	---	---

Impact- and acid-resistant polyethylene tanks

30kg

Great pressure on brushes

2

Powerful 2-stage vacuum cleaner

KF51EM

RECOMMENDED USE

Compact, robust and reliable professional scrubbers, ideal for cleaning and maintenance of escalators. Especially suitable for railway stations, buses, metros, airports, shopping centres, etc.

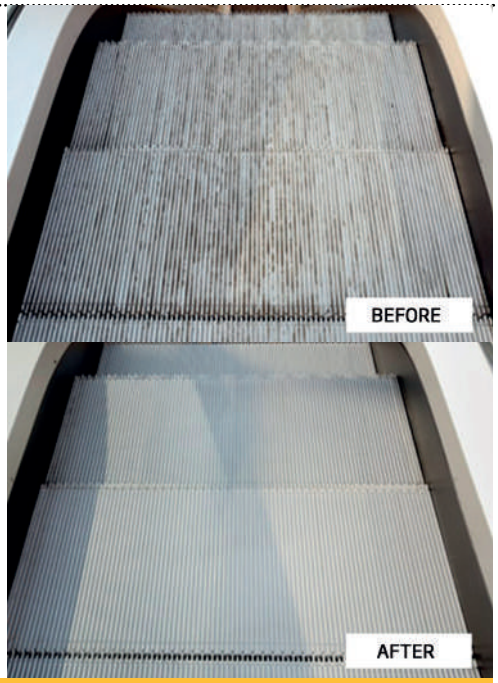
FEATURES

- Scrubber for the cleaning and maintenance of mechanical stairs and ramps.
- Efficiently eliminates all dirt and debris found on mechanical stairs and ramps.
- Scrubbing system with brush in horizontal position and injection extraction in vertical position.
- Cleaning of escalator or ramp in motion.
- Simple system of rotation of the brush head for cleaning the ends of the escalators.
- Possibility of connecting auxiliary vacuum to increase the power and efficiency of the cleaning..
- Its nylon brushes kit and drying nozzle enables the conventional scouring of all types of surfaces..

Complete equipment

Tynex brushes kit
Nylon brushes kit
Drying nozzle
Injection kit including: suction-injection hose, narrow nozzle, wide nozzle, extension tubes, injection gun and drawer for cleaning brushes

KF51EM	
Performance m^2/h	1,000
Suction motor W	700
Brush motor W	900
Brush width mm	510
Brush rotation rpm	400
Supply V/Hz	230/50
Drying width mm	870
Brush pressure kg	30
Solution tank l	35
Recovery tank l	35
Depression mm/H_2O	2,100
Weight kg	96
Dimensions LxWxH cm	97x60x74
Height of step cm	0-23
Air output m^3/h	140
Total consumption kW	1.6
Lifting motors W	-
Pressure pumps W	48
Noise level dB	< 70
Cable length m	15
Horizontal step cleaner	YES
Vertical step cleaner	NO
With scale of movement	YES



From 150 to 190 rpm

Great pressure on surface

Liqid tank included

INDUSTRIAL/ROTARIES

RK520/RK521/RK620

RK520

RK521

RK620

RECOMMENDED USE

Low speed rotating for crystallisation, polishing, scouring, small areas (RK520), middle areas (RK521), and large areas (RK620). For the final scouring and crystallisation of marble or terrazzo surfaces, they are used with face plate, steel wool and chemical strippers-crystallisers. For surface scrubbing, they are used with the nylon brush or with a face plate and scrub discs. For the maintenance and polishing of surfaces, they are used with trawler with mop or polishing discs. For combing and scouring carpets and rugs, they are used with the carpet brush.

FEATURES

- Satellite-planetary gearbox transmission, which guarantees the best performances in terms of power, durability and noise level in RK520 and RK521.
- Epicyclic reduction gearbox with planetary gears and helical teeth made of hardened steel and mounted in an oversized box for its durability over time in RK620.
- Steering handle with a robust gear that allows adjusting to the preferences of each operator.
- Ergonomically designed high strength grip for control of all machine controls.
- Safety control in the commissioning of the machine that prevents an involuntary ignition and the operation of the machine with the handle in vertical position.

RK520 Series equipment

AF09212	Face plate 13”
AF09211	Hard nylon brush 13”
AF09210	Carpet brush 13”
AF09304	10 l tank

RK521 Series equipment

AF168C	Face plate 17”
AF168B	Hard nylon brush 17”
AF168A	Carpet brush 17”
AF169	12 l tank

RK620 Series equipment

004505	Face plate
004509	Hard nylon brush
004500	12 l tank

	RK520	RK521	RK620
Motor W	750	1,200	1,600
Voltage pH-V-Hz	1-230-50	1-230-50	1-230-50
Motor rpm	190	154	154
Plate diameter mm	330	430	505
Transmission	Satellite-planetary	Satellite-planetary	Satellite-planetary
Cable length m	12	12	15
Tank l	10	12	12
Weight kg	26	45	55

ROTARY
ACCESSORIES

OPTIONAL ACCESSORIES

		RK520 SKU #	RK521 SKU #	RK620 SKU #
PLATES				
	Face plate	AF09212	AF168C	004505
BRUSHES				
	Hard nylon brush	AF09211	AF168B	004509
	Carpet brush	AF09210	AF168A	004513
DISCS				
	Mop disc 13" Ø 33 cm	5070331	--------	--------
	Mop disc 17" Ø 43 cm	--------	5070431	--------
	Mop disc 20" Ø 50 cm	--------	--------	5070531
	Polishing disc B 13" Ø 33 cm	1327300013	--------	--------
	Polishing disc B 17" Ø 43 cm	--------	1327320041	--------
	Polishing disc B 20" Ø 50 cm	--------	--------	1327300004
	Scrubbing disc R 13" Ø 33 cm	1327100013	--------	--------
	Scrubbing disc R 17" Ø 43 cm	--------	1327320002	--------
	Scrubbing disc R 20" Ø 50 cm	--------	--------	1327320003
	Semi-hard scouring disc M 13" Ø 33 cm	1327200013	--------	--------
	Semi-hard scouring disc M 17" Ø 43 cm	--------	1521202	--------
	Semi-hard scouring disc M 20" Ø 50 cm	--------	--------	1521200
	Hard scouring disc N 13" Ø 33 cm	1521201	--------	--------
	Hard scouring disc N 17" Ø 43 cm	--------	1327320040	--------
	Hard scouring disc N 20" Ø 50 cm	--------	--------	1327320050
STEEL WOOL				
	Steel wool no. 1 (unidad)	LA001	LA001	LA001
	Steel wool no. 2 (unidad)	LA002	LA002	LA002
TANKS				
	10 l tank	AF09304	--------	--------
	12 l tank	--------	AF169	--------
	12 l tank	--------	--------	004500
CHEM. PRODUCTS				
	Crystallizer X-1 5kg Stripper Base		1324600005	
	Crystallizer X-3 5 kg polisher		1324800006	
			1349250000	
		treads 25 kg	1350250000	

NEW
KBM950

Ideal for
REDUCED spaces

ADJUSTABLE
brushes

Folding
handlebars for
storage and
transport

SWEEPERS/MANUAL/PROFESSIONAL SERIES

KBM650/KBM800/KBM950

KBM950

1 central brushes + 2 side brushes **KBM950**

KBM800

2 central brushes + 2 side brushes **KBM800**

KBM650

Structure in varnished steel **KBM650/KBM950**

RECOMMENDED USE

Specially designed for the cleaning of smooth and hard surfaces, in small and medium-sized premises, patios, warehouses, etc., interior or exterior.

KBM650/KBM950 FEATURES

- Strong, practical, handy and effective on all types of surfaces.
- Its multiplier gear system makes handling it easier, and it can be used in any environment by anyone.
- Guarantees the sweeping of all types of dirt, such as leaves, paper, cigarette butts, seeds, etc.
- Made of high quality materials.
- Varnished steel structure.
- Side brush steel arms (less in KBM800).
- One central brush and one lateral brush in KBM650.
- One central brush and one lateral brush in KBM950.
- Front tank of 30 l and rear in PPL.
- Highly resistant to shocks, allowing perfect sweeping both forward and backward.
- Light, practical and easy to empty tanks.
- Central and lateral brush adjustable in height and pressure, made in PPL.
- Folding handlebar for easy storage and transport.

KBM800 FEATURES

- Especially designed for smooth and hard floors.
- The system of two central brushes + two lateral brushes, guarantee the sweeping of all types of dirt, such as butts, used papers, handkerchiefs, fine gravel, sand, etc., all will be absorbed.
- With adjustable brush pressure selector.
- Easy to maintain, brushes, tanks and wheels can be cleaned with water.
- Folding handlebar for easy storage and transport.

	KBM800	KBM650	KBM950
Cleaning capacity m^2/h	2,800	2,100	3,200
No. of brushes	2 central + 2 side	1 central + 1 side	1 central + 2 side
Drying width mm	800	650	950
Recovery tank capacity l	40	30	30
Dimensions LxWxH cm	86x70x123	84x76x115	84x96x115
Weight kg	11	29	31

PETROL or BATTERIES

HONDA engine in petrol model

System ALZA-FLAP

Adjustable brushes

2m² FILTERING surface

SWEEPERS/INDUSTRIAL SERIES/PETROL OR BATTERIES

11B501GT/11B501ET

11B501GT

RECOMMENDED USE

Specially designed for the cleaning of surfaces, in small and medium-sized interior or exterior warehouses. A compact and versatile industrial sweeper that is a simple and easy to use cleaning tool, as well as guaranteeing a perfect and quality sweep, and respectful with the environment. Designed for the collection of dirt with either volume, light materials or heavy dust. Retention of airborne dust by means of an air suction and filtration system.

FEATURES

- Industrial sweeper with rear tank for waste collection and dust filtration.
- Electro-welded chassis in 2 mm sheet metal.
- Mechanical traction.
- Simple adjustment of the central brush.
- Mechanical insertion of the side brush.
- Powerful suction.
- Opening and closing suction.
- Lift-flap that allows the collection of waste in certain materials such as cans, packs, pieces of wood, glass, small stones, etc.
- Traction and lift-flap controls inserted in the handle of the machine.
- Panel filter in horizontal position for greater efficiency and simplicity of cleaning.
- Mechanical and electric filter shaker in battery version.
- Wheels inside the bodywork for easy handling.

Optional accessories

12V110AH	Battery 1x12 Vx110 Ah-5H (running time approximately 2.5 hours (C Series)
C1216	Battery charger 12 V -16A (C Series)

	11B501GT	11B501ET
Cleaning capacity m²/h	2,600	2,600
No. of brushes	1 central + 1 side	1 central + 1 side
Drying width mm	680	680
Recovery tank capacity l	45	45
Filter surface m²	2	2
Maximum power	4 HONDA Hp	400 W
ACID Battery (no.-V-Ah)	-	1x12x110
Battery endurance h	-	2.5
Dimensions LxWxH cm	126x63x85	126x63x85
Weight kg	77	78

PETROL or BATTERIES

HONDA engine in petrol model

System ALZA-FLAP

Adjustable brushes

3m² FILTERING surface

SWEEPERS/INDUSTRIAL SERIES/PETROL OR BATTERIES

11B701GT/11B701ET

11B701ET

RECOMMENDED USE

Specially designed for the cleaning of surfaces, in small and medium-sized interior or exterior warehouses. A compact and versatile industrial sweeper that is a simple and easy to use cleaning tool, as well as guaranteeing a perfect and quality sweep, and respectful with the environment. Designed for the collection of dirt with either volume, light materials or heavy dust. Retention of airborne dust by means of an air suction and filtration system.

FEATURES

- Industrial sweeper with rear tank for waste collection and dust filtration.
- Electro-welded chassis in 2 mm sheet metal.
- Mechanical traction.
- Simple adjustment of the central brush.
- Mechanical insertion of the side brush.
- Powerful suction.
- Opening and closing suction.
- Lift-flap that allows the collection of waste in certain materials such as cans, packs, pieces of wood, glass, small stones, etc.
- Traction and lift-flap controls inserted in the handle of the machine.
- Paperl filter in horizontal position for greater efficiency and simplicity of cleaning.
- Mechanical and electric filter shaker in battery version.
- Wheels inside the bodywork for easy handling.

Optional accessories

12V110AH	Battery 1x12 Vx110 Ah-5H (running time approximately 2.5 hours (C Series)
C1216	Battery charger 12 V -16A (C Series)

	11B701GT	11B701ET
Cleaning capacity m²/h	3,700	3,700
No. of brushes	1 central + 1 side	1 central + 1 side
Drying width mm	880	880
Recovery tank capacity l	60	60
Filter surface m²	3	3
Maximum power	4 HONDA Hp	400 W
ACID Battery (no.-V-Ah)	-	1x12x110
Battery endurance h	-	2.5
Dimensions LxWxH cm	126x83x85	126x83x85
Weight kg	89	89

System ALZA-FLAP

Adjustable brushes

ELECTRIC Filter Shaker

4 m² FILTERING surface

Equipped with high efficiency filter cartridges

11B650ET

11B650ET

RECOMMENDED USE

Industrial on-board battery-operated industrial sweeper, designed to meet the increasing demand for man-on-board machines in very limited areas of warehouses, shopping malls, car parks, etc. Without giving up the high performance that is usually obtained with larger machines. Ideal for cleaning companies, construction, industry, warehouses, etc.

FEATURES

- Industrial sweeper with great features that guarantees a perfect sweep.
- Self-supporting steel chassis ensures robustness and a long life.
- All the controls located in front of the operator.
- Electric speed control and battery charge indicator.
- Rotating flashing lamp on lid filters.
- Steel waste deposit with 55 l capacity, removable on support wheels.
- 4 m² of filter surface obtained by 5 filter cartridges
- Front wheel drive with 700W motor-wheel.
- Central and right side brush.
- Service brake and parking.
- Hoist-flap control pedal that allows the collection of certain materials such as cans, packs, pieces of wood, glass, small stones, etc.
- Side brush control pedal.
- Central oscillating brush.
- Adjustment and replacement of the central and lateral brush in a few minutes.
- Motor-driven suction turbine that is independent, high powered and reliable.
- Access to batteries by lifting the operator's seat.
- Electric filter shaker.
- Elastic rubber anti-track wheels.
- Front bumpers in rubber.

Optional accessories

12V110AH	Battery 2x12 Vx110 Ah-5h (approximate running time: 2,5 hours) (C Series)
C2416	Battery charger 24 V -16A (C Series)

11B650ET

Cleaning capacity m²/h	4,900
No. of brushes	1 central + 1 side
Sweeping width mm	850
Recovery tank capacity l	55
Filter surface m²	4
Maximum power W	1,670
ACID Battery (no.-V-Ah)	2x12x110
Battery endurance h	2.5
Dimensions LxWxH cm	115x80x121
Weight kg	186

PETROL or BATTERIES

System LIFT-FLAP

Adjustable brushes

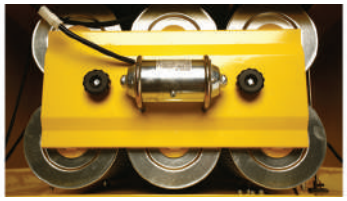
ELECTRIC Filter Shaker

6m² FILTERING surface

Wide width sweeping

SWEEPERS/INTENSIVE OPERATION/MAN ON BOARD

11B705GT/11B705ET



RECOMMENDED USE

Industrial sweeper for intensive man on board service in electric to battery versions and internal petrol combustion engines. For cleaning medium and large surfaces, interior or exterior. Its robustness and filtering capacity make it the ideal machine for cleaning, construction, industry, warehouses, car parks, etc.

FEATURES

- Professional man-on-board sweeper with high maneuverability and high performance that ensures a a perfect sweep.
- Hydraulic front-wheel drive in petrol version and engine with differential on rear wheels in battery version a
- All the controls are located laterally to the side of the operator.
- Electric speed control and battery charge indicator in 11B705ET.
- Lift-flap that allows the collection of waste in certain volumes, such as tins, packs, pieces of wood, glass, small stones, etc.
- Easy disposal ABS plastic waste tank.
- Service brake and parking.
- Central brush controls and both sides.
- Opening and closing suction.
- Powerful suction.
- 6 filter cartridges with 6 m² of filtering surface.
- Electric filter shaker.
- Front bumpers in rubber.

Optional accessories

6V210AH	Battery 4x6 Vx210 Ah-5h (time approximately 3 hours) (C Series)
C2430	Battery charger 24 V -30A (C Series)

	11B705GT	11B705ET
Cleaning capacity m²/h	8,280	8,280
No. of brushes	1 central + 2 side	1 central + 2 side
Drying width mm	1,150	1,150
Recovery tank capacity l	62	62
Filter surface m²	6	6
Maximum power	5.5 HONDA Hp	1,240 W
ACID Battery (no.-V-Ah)	-	4x6x210
Battery endurance h	-	3
Dimensions LxWxH cm	143x91x114	143x91x114
Weight kg	288	256

System LIFT-FLAP

Adjustable brushes

ELECTRIC Filter Shaker

11m²

Surface area: FILTER B1140

HYDRAULIC waste discharge

SWEEPERS/INTENSIVE OPERATION/MAN ON BOARDLARGE CAPACITY

B1300G/B1300E/B1440E/B1440D

B1300

Optional charger and battery

B1440

RECOMMENDED USE

Industrial sweepers for large capacity intensive man-on-board service. For cleaning medium and large surfaces, interior or exterior. Its robustness and features make it the ideal machine for cleaning, construction, industry, car parks, etc.

FEATURES

- The new B1300-B1440 series is reliable and suitable for any surface.
- Designed for minimum maintenance and wery easy access to the mechanical area.
- Hydraulic discharge of the waste container (height of 40 - 143 cm).
- Electronic front wheel drive In the B1300B electric model.
- Electronic 2-wheel rear drive in the B1440B electric model.
- Hydraulic front-wheel drive in B1300G-B1440D petrol and diesel version.
- Steel shock protectors for side brushes and folding "antishock" system in case of impact.
- Double suction turbine, with opening and closing.
- Lift-flap that allows the collection of waste in certain materials such as cans, packs, pieces of wood, glass, small stones, etc.
- Super-elastic large diameter wheels for greater comfort and traction.
- Giant filter surface of 11 m² in B1440 and 6.4 m² in B1300, both models with electric shaker and self-cleaning filter with fine dust tolerance.
- All controls facing the operator.
- Reverse audible warning and flash safety light.
- Service brake and parking.
- 24 V / 305 Ah battery with 3 to 4 hours life in B1300E model (optional).
- 24 V / 450 Ah battery life of 4 to 5 hours in B1440E model (optional).
- Base for lifting crane.

B1300E Optional accessories

24V320AH	HOUSING Battery 1x24 Vx3200 Ah 5h (approximately 4 hours´ life (C Series)
C2460	Battery charger 24 V -60A (For battery 1x24 Vx320 Ah) (C Series)

B1440E Optional accessories

24V450AH	HOUSING Battery 1x24 Vx450 Ah 5 h (approximately 4-5 hours´ battery life) (C Series)
C2460	Battery charger 24 V -60A (For Battery 1x24 Vx450 Ah) (C Series)

	B1300G	B1300E	B1440E	B1440D
Cleaning capacity m²/h	9,500	9,500	11,500	11,500
No. of brushes	1 central + 2 side	1 central + 2 side	1 central + 2 side	1 central + 2 side
Drying width mm	1,300	1,300	1,440	1,440
Waste tank capacity l	115	115	180	180
Filter surface m²	6.4	6.4	11	11
Petrol/diesel-oil engine Hp/kW	Petrol 6.5/5	24/2710	-	Diesel 17/12.5
Electric motor V/kW	-	-	24/3,200	-
Hydraulic discharge height mm	1,430	1,430	1,430	1,430
Traction	Hydraulic	Electronic	Electronic	Hydraulic
Maximum speed m/seg	2.0	2.0	2.2	2.2
Approximate running time h	-	4	5	-
Noise level dB	82.5	82.5	82.5	82.5
Dimensions LxWxH cm	157x101x130	157x101x130	186x125x156	186x125x156
Weight kg	478	448	750	870

B1250DT/TURBO1

B1250DT

TURBO1

RECOMMENDED USE

Industrial sweepers for large capacity intensive man-on-board service with diesel engine. For cleaning large surfaces, interior or exterior. Its robustness and features make it the ideal machine for cleaning companies, construction, industry, car parks, etc.

B1250DT FEATURES

- Professional man-on-board sweeper, highly robust construction and hydraulic operating system.
- Hydraulic discharge of waste
- Motor cooled by air and water.
- Large diameter central brush and hydraulic rotation.
- 2 hydraulic rotation floating siding brushes.
- Two suction turbines on bag filter.
- Electric filter shaker.
- Suction opening and closing.
- Lift-flap that allows the collection of waste in certain volumes.
- Service brake and parking.
- Dust skirt.
- Impact protector.

Optional accessories

1503640	Nylon side brush
1503641	Mixed nylon-steel side brush
1500819	Nylon brush for third arm
1501197	Mixed nylon-steel brush for third arm
2710464	Left side brush arm (brushless)
V2710447	Third extensible arm
2710761	Protective roof
2710461	Front and back moon
2710498	Front and rear light kit
2710412	Dust skirt

TURBO1 FEATURES

- Multifunction machine for sweeping and lawn mowing.
- The sweeping system is ideal for the collection of sheets, papers, cans and plastic bottles, on any surface.
- Sweeping plate of 150 cm with anti-dust spray.
- 2 nylon-steel mixed brushes.
- 2 120 l water tanks with 3 nebulisers.
- Great capacity and speed in collecting leaves and other residues.
- System of floating brushes that allow walls to be approached without hindrance.
- Lawn mower system with 130 cm plate.
- Its powerful motor and high forward speed allow an impeccable cut quality with high wet grass.
- A 700 l container with discharge lift from 2.1 m that allows a great job performance.
- Closed cabin for driver comfort.
- All functions are hydraulically controlled from the driver's position.

	B1250DT	TURBO1
Cleaning capacity m²/h	12,400	12,500
No. of brushes	1 central + 2 side	2 side
Drying width mm	1,550	1,500
Waste tank capacity l	300	700
Loading system	By pulling	Through hydraulic
Unloading system	Hydraulic	suction
Filter surface m²	11.4	-
Motor Hp	Lombardini 22	Lombardini 26
Traction and reverse brake	Hydraulic	hydraulic
Maximum travel speed Km/h	-	18
Maximum surmountable gradient %	18	26
Dimensions LxWxH cm	200x119x138	250x120x207
Weight kg	900	700

1200L
1500L
LARGE capacity tank

Large sweeping width 2,300 mm

HYDRAULIC waste discharge

SWEEPERS/ROADS

BAV120ART/BDV1500AA

BAV120ART

BDV1500AA

All road sweepers include:

- Toolbox, spare wheel, hydraulic jack and wheel wrench
- Maintenance and spare parts manual
- Training course in machine handling and maintenance
- 1 year warranty, excluding natural wear or misuse of the machine
- ITV and documentation for registration

BAV120ART FEATURES

- Self-propelled suction sweeping system, With high performance turbine.
- Water-cooled direct injection engine.
- Stainless steel water tank.
- Stainless steel waste hopper with 1.2 m³ capacity.
- Front anti-dust lawn sprinklers.
- 2 extendable front brushes.
- 2 seater cabin Heat- and soundproofed with air conditioning.
- Hydraulic power steering.
- Hydrostatic 4-wheel drive and braking system
- Auxiliary suction hose Ø125 mm, 4 m in length.

BAV120ART Optional accessories

Extendable front third brush.
High pressure washing equipment
Colour monitor and camera

BDV1500AA FEATURES

- Self-propelled suction sweeping system, Combined drag and suction.
- Water-cooled direct injection engine.
- Stainless steel waste hopper.
- Front anti-dust lawn sprinklers.
- 1 central brush and 2 extendable front brushes.
- Cabin with 2 seats.
- Hydraulic power steering.
- Hydrostatic transmission and braking system
- Air conditioning equipment in cabin.
- High pressure washer equipment.

BDV1500AA Optional accessories

Colour monitor and camera
Extendable front third brush.
Auxiliary suction hose

	BAV120ART	BDV1500AA
Motor Hp	50 KUBOTA	48 KUBOTA
No. of brushes	2 front	1 central + 2 front
Drying width mm	2,350	2,200
Waste tank capacity l	1,200	1,500
Recovery tank capacity l	300	350
Unloading height mm	1,500	1,300
Speed Km/h	0-15 Work	0-15 Work
Dimensions LxWxH cm	370x160x225	388x148x230
Weight kg	2,300	2,400

2000L
4200L
LARGE capacity tank

HYDRAULIC waste discharge

Large sweeping widt
2,500 mm

SWEEPERS/ROADS

BAV200DRIVER/BDV400

BAV200DRIVER

BDV400

All road sweepers include:

- Toolbox, spare wheel, hydraulic jack and wheel wrench
- Maintenance and spare parts manual
- Training course in machine handling and maintenance
- 1 year warranty, excluding natural wear or misuse of the machine
- ITV and documentation for registration

BAV200DRIVER FEATURES

- Self-propelled sweeping system with high performance turbine suction.
- Water-cooled direct injection engine.
- Stainless steel waste hopper.
- Front anti-dust lawn sprinklers.
- 2 extendable front brushes with separate single opening.
- Cabin with 2 seats.
- 4-wheel hydraulic power steering.
- Hydrostatic braking system
- Spring and shock absorber suspension.
- Automatic central lubrication.
- Auxiliary suction hose.
- Air conditioning equipment in cabin.
- High pressure washer equipment.

BAV200DRIVER Optional accessories

Colour monitor and camera
Extendable front third brush.

BDV400 FEATURES

- Self-propelled sweeping system with high performance turbine suction.
- Commonrail water-cooled direct injection engine.
- Floating suction nozzle with 200 mm diameter suction tube.
- 2 extensible front brushes with independently controlled by joystick and adjustable speed.
- Joystick ergonomically located in the cabin for sweeping functions.
- Waste hopper made of stainless steel, with a capacity of 4.200 l with tilting hydraulic drive.
- Front dusting system with sprinklers in the brushes and in the suction tube.
- Spring and shock absorber suspension.
- Hydrostatic and hydraulic braking system
- Automatic central lubrication.
- Auxiliary suction hose.
- Air conditioning equipment in cabin.
- High pressure washer equipment.
- Colour monitor and rear camera.

BDV400 Optional accessories

Extendable front third brush.
High discharge at 1.70 m height

	BAV200DRIVER	BDV400
Motor Hp	73 KUBOTA	145 IVECO
No. of brushes	2 front	2 front
Sweeping width mm	2,300	2,500
Waste tank capacity l	2,000	4,200
Recovery tank capacity l	400	600
Unloading height mm	1,300	900
Speed Km/h	0-15 Work	0-20 Work
Dimensions LxWxH cm	393x149x237	490x180x265
Weight kg	2,600	5,000

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INOX
Boiler and bodywork in stainless steel KGV7000/ KGV8000

High Temperature 175 ºC

24h
UNLIMITED operation

Steam controller

Pressure gauge KGV8000

Display indicator KGV3000D/KGV7000

Suction systems KGV3000D/ KGV7000

KGV8000/KGV7000/KGV3000D

KGV8000 KGV7000 KGV3000D

RECOMMENDED USE

Its high pressure and steam flow rate as well as the suction on the KGV3000D and KGV7000 models make these machines an indispensable tool for the cleaning and disinfection of all types of surfaces and features requiring extreme cleaning. Especially suitable for sectors: food, sanitary, hospitality, automotive, industrial, urbanism, etc.

FEATURES

- The steam pressure and high temperature ensure excellent cleaning and hygiene at all points, however difficult, using only water.
- KGV300D-KGV7000 with suction system for impeccable cleaning.
- Simultaneously cleans and dries surfaces, saving time and costs.
- Disinfects, sterilises and removes bacteria, mold and fungi.
- Manufactured according to Rohs regulations.
- KGV3000D model with "CE Medical" certificate by Intertek, which complies with EEC regulations on medical devices.
- Equipment with minimal environmental impact due to its reduced consumption of water and chemicals.
- AISI 304 stainless steel boiler.
- 5 l capacity recharge tank in KGV7000-KGV8000 and 2.2 l in KGV3000D.
- 3 l capacity detergent tank in KGV7000-KGV8000 and 1.5 l in KGV3000D.
- Electronic management of boiler and power functions.
- Digital steam flow regulator.
- Steam, detergent and suction control handle at low voltage 9 V.
- Safety systems with thermostats and safety valves.
- Acoustic and visual low water indicator.
- Built-in magnetic anti-foam filter.
- KGV7000-KGV8000 stainless steel bodywork.
- 1.8 l Removable recovery tank de 1,8 l in KGV3000D and in KGV7000.
- Low current, steam and water lights in KGV3000D and KGV8000.
- Digital display of all functions in KGV7000.
- Low water acoustic and visual signaling electronic system that will prevent the operation of the machine.
- Pressure gauge indicating vapor pressure in KGV8000.
- On / Off switch.
- Maintenance drainage system for emptying the boiler, eliminating calcareous material.
- 7 m electric cable.
- KGV8000 / KGV7000 Accessory basket.

KGV3000D-KGV7000 Common series accessories

AC8000073 Complete reinforced flexible hose 2.5 m
AC8000066 Thermo-insulated extension tubes 2 x 500 mm
AC8000023 Accessory steam adaptor
AC0000013 Triple use carpet nozzle 400 mm
AC0000014 Triple use dust nozzle accessory 400 mm
AC0000015 Triple use liquid nozzle accessory 400 mm
AC0000014 Accessory triple use carpet nozzle 400 mm
AC8000067 Transparent upholstery nozzle
AC0050001 Horizontal multi purpose nozzle
AC0000020 Vertical nozzle
AC8000041 Non-suction steam accessories adapter
AC8000024 Universal brush adapter nozzle
AC0010022 Nylon brush D30 mm
AC0010023 Steel brush D30 mm
AC0010001 Nylon brush D60 mm
AC0050006 Glass nozzle 15 cm
AC0000017 Glass nozzle 25 cm
AC0000019 Acc Glass rubber nozzle 15 cm
AC0000018 Acc Glass nozzle brush 15 cm
AC0020003 Microfibre cloth
AC0000004 Ecological detergent 50 ml
AC0000003 Anti-calcareous product 50 ml
T03300002 Purging valve

KGV3000D Accessories series

AC8000016 Floor nozzle
AC8000040 Wall nozzle
AC0020002 Microfibre nozzle cover
AC0020001 Microfibre wall cover

KGV7000 Accessories series

AC8000065 Aluminium lance nozzle
AC8000041 Aluminium lance adaptor
AC0010032 PPL Rectangular brush
PP1030047 Rectangular brass brush
PP1030046 Rectangular steel brush
AC0050003 Transparent upholstery nozzle 25 cm

KGV8000 Accessories series

AC8000037 Complete reinforced flexible hose 2.5 m
AC8000005 2 Thermo-insulated extension tubes 500 mm
AC8000005 PPL rectangular nozzle for walls and floors
AC8000012 PPL triangular brush nozzle
AC8000006 Glass cleaning nozzle
AC8000075 Glass rubber nozzle 35 cm
AC8000065 Aluminium lance nozzle
AC8000014 Universal nozzle for adapting brushes
AC0000008 4 cm scraper nozzle
AC0010001 PPL brush 60 mm
AC0010022 PPL brush 30 mm
PP1150006 Full tank funnel
AC0030001 Foor nozzle padded cloth for walls
AC0030002 Triangular nozzle padded cloth
AC0000005 Drying cloth and polishing

	KGV8000	KGV7000	KGV3000D
Maximum power W	3,200	4,400	3,400
Max. boiler power W	3,200	3,200	2,200
Max. suction power W	-	1,200	1,200
Voltage V/Hz	230/50	230/50	230-50
Steam Pressure bar	9	9	6.5
Steam production kg H_2O/h	4.5	4.5	3.5
Boiler capacity l	2 + 5	2 + 5	2.6 + 2.2
Detergent tank l	3	3	1.5
Maximum temperature °C	175	175	161
Recovery tank l	-	1.8	1.8
Dimensions LxWxH cm	42x42x80	65x45x95	53x40x40
Weight kg	19	45	15

Optional accessories

AC8000084 Transport cart and tank for KGV3000D.
AC8000093 Mop with telescopic arm for floors and walls + cloths kit for KGV7000 and KGV3000D
AC8000092 Mop with telescopic arm for floors and walls + cloths kit for KGV8000
AC0020011 White-grey mop wipe cloth for highly porous surfaces
AC0020009 Blue mop wipe for slightly porous and smooth surfaces
AC0020010 White-blue degreasing mop wipe for all types of surfaces
AC0020008 Striped white mop wipe for dust and scouring
AC8000123 Car Wash gun hose for KGV7000
AC8000123 Car Wash gun hose for KGV8000
AC0000046 Special VITAL OXIDE approved detergent-disinfectant product 4 kg

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NEW KGV9000

Suction systems

INOX
Boiler and bodywork in stainless steel

High Temperature 180 °C

24 h.
UNLIMITED operation

Pressure gauge COMBY4000

Detergent tank

Water softener device KGV9000

Steam controller

CATALOGUE 2016/2017

STEAM GENERATORS/WITH SUCTION/INDUSTRIAL

COMBY4000/KGV9000

COMBY4000

COMBY4000 Accessories

KGV9000 Accessories

KGV9000

RECOMMENDED USE

Its high pressure and steam flow rate make these machines an indispensable tool for the cleaning and disinfection of all types of surfaces and features requiring extreme cleaning. Especially suitable for the food, sanitary, hospitality, automotive, industrial and urban planning sectors, etc.

FEATURES

- The pressure and high temperature of the steam ensure excellent cleaning and hygiene at all points however difficult, using only water.
- Suction system for impeccable cleaning.
- Simultaneously cleans and dry surfaces, saving time and costs.
- Disinfects and eliminates bacteria.
- Equipment whose reduced water and chemical consumption offers minimum environmental impact.
- AISI 304 stainless steel boiler and bodywork.
- 5/8 l capacity recharge tank according to model.
- Detergent tank 5 l.
- Anti-calcareous tank 1 l, in KGV9000.
- Electronic management of boiler and power functions.
- Steam flow controller.
- Safety systems with thermostats, safety valves and low voltage on handle (6 V - 9 V).
- Digital temperature and pressure display.
- Pressure gauge, current, low steam, water and current indicator lights in Comby4000.
- Acoustic low water and detergent indicator in KGV9000 model.
- Possibility of connection to water network for automatic operation in KGV9000 model.
- Double outlet (steam + suction / steam), in KGV9000 model .

COMBY4000 Accessories series

YFL65003	Steam/suction flexible hose 3 m
UTRN0000	3 tubes extension 500 mm
YLAN0003	Cleaning lance
UBON0008	Upholstery nozzle

	COMBY4000	KGV9000
Maximum power W	4,900	10,200
Max. boiler power W	3,500	9,000
Max. suction power W	1,200	1,200
Voltage pH-V-Hz	1-230-50	3-400-50
Steam Pressure bar	8	10
Steam production kg H_2O/h	5.5	19
Boiler capacity l	3 + 5	4 + 8
Detergent tank l	5	5
Maximum temperature °C	176	178
Recovery tank l	20	21
Dimensions LxWxH cm	75x38x70	76x63x65
Weight kg	38	60

YSPN5000	Multi-purpose floor brush
VSPN0011	Round nylon brush
VSPN0010	Round metallic brush
USPN0001	Multi-purpose carpet protection brush
YSPN0001	Bracket with multi-purpose horsehair brush
YPUN1000	Glass Brush
YBON1002	Flat nozzle
UBON0001	Curved nozzle
VSPN0012	Round brush
YSPN0003	Triangular brush
YSPN0004	Bracket for triangular brush
UPN60000	Sock for triangular brush
UPN60002	Cloth for triangular brush

KGV9000 Accessories series

AC8000131	Steam/suction flexible hose 5 m
AC0000057	Tube extension (unit)
AC0000051	Double profile with bristles 300 mm
AC0000052	Double rigid profile 300 mm
AC0000053	Double rubber profile 300 mm
AC0000058	Profile with bristles 150 mm
AC0000059	Rubber profile 150 mm
AC0000060	Rubber-bristles profile 225 mm
AC0050011	Glass washer nozzle 150 mm
AC0050010	Metal tip nozzle
AC0050002	Vertical nozzle
AC0050001	Horizontal nozzle
AC8000130	Steam flexible hose 5 m
AC8000132	Steel lance 500 mm
AC8000133	Curved lance 450 mm
AC8000134	Steel extension tube 450 mm
AC0010009	Grey brush D30 mm
AC0010001	Black brush D60 mm
AC0010003	Horsehair bristle brush D60 mm
AC0010018	Red bristles brush D60 mm
AC0010030	Black soft bristles brush D60 mm
AC0000004	Ecological detergent 50 ml
AC0000003	Anti-calcareous product 50 ml

Optional accessories

YFL65001	Complete reinforced flexible hose 4.5 m for Comby4000
1343250000	Concentrated detergent steam K43 25kg
AC0000046	Approved detergent / disinfectant Vital-oxide 4K

Steam controller

INOX
Boiler and bodywork in stainless steel

High Temperature 180 °C

24h
UNLIMITED operation

Pressure gauge

Detergent tank

STEAM GENERATORS/INDUSTRIAL

GAISER4000/GAISER18000

GAISER4000

GAISER18000

RECOMMENDED USE

Its high pressure and steam flow make these machines the indispensable tool for cleaning and disinfecting all types of surfaces and features that require extreme cleaning. Especially suitable for the food, sanitary, hospitality, automotive, industrial and urban planning sectors, etc.

FEATURES

- The pressure and high temperature of the steam ensure excellent cleaning and hygiene at all points however difficult, using only water.
- Disinfects and eliminates bacteria.
- Equipment whose reduced water and chemical consumption offers minimum environmental impact.
- AISI 304 stainless steel boiler.
- 5/20 l capacity recharge tank according to model.
- Detergent tank 5 l.
- Boiler and power functions electronic management
- Safety systems with thermostats, safety valves and low voltage on handle (6 V - 9 V).
- Stainless steel bodywork.
- Pressure gauge, current and low water and steam indicators
- Digital temperature and pressure display.

GAISER4000 Accessories series

YFLG5500	Complete reinforced steam hose 3 m
UTRN0002	2 extension tubes 500 mm
YLAN5000	Cleaning lance
USPN0006	Multi-purpose floor brush
USPN0013	Multipurpose brush Joint
USPN0027	Round nylon brush
USPN0028	Round metallic brush
USPN0029	Large round brush
UPUN0002	Glass Brush
USPN0007	Triangular brush
UPN60001	Sock for triangular brush
UPN60002	Cloth for triangular brush

GAISER18000 Accessories series

YFLN6602	Complete reinforced hose with lance 6 m
VSPN0011	Round polyester brush D28
VSPN0010	Round metallic brush D28

Optional accessories

1343250000	Concentrated detergent steam K43 25kg
AC0000046	Approved detergent-disinfectant Vital-oxide 4K

	GAISER4000	GAISER18000
Max. power W	3,500	18,000
Max. boiler power W	3,500	18,000
Voltage pH-V-Hz	1-230-50	3-400-50
Steam Pressure bar	8	8
Steam production kg H_2O/h	5.5	25
Boiler capacity l	3.2-5	4.8 + 20
Detergent tank l	5	5
Max. temperature °C	176	180
Dimensions LxWxH cm	46x38x46	65x45x70
Weight kg	19	60

High Temperature 180 °C

24 hours UNLIMITED operation

Pressure gauge

Detergent tank AST175Q/ AST175HI

Water softener device

2-4 Simultaneous use of 2-4 operators

STEAM GENERATORS/INTENSIVE OPERATION

AST175/AST175Q/AST175V/AST175HI

IMPORTANT:

RECOMMENDED USE

New system of unhindered diesel-oil combustion steam generation. Its high pressure and steam flow make this machine an indispensable tool for cleaning and disinfecting all types of surfaces and features that require extreme cleaning. Cleaning with its powerful jet of steam is hygienic, economical and ecological, as it uses a small amount of chemical-free water. Especially suitable for the automotive, aeronautic, nautical, transport, industrial and urban planning sectors, etc.

FEATURES

- The steam pressure and high temperature ensure excellent cleaning and hygiene at all points, however difficult, using only water.
- Disinfects and eliminates bacteria.
- Steam pressure in 5 minutes, with 24 hour running power.
- Stability in steam production.
- Its 27 l -capacity water tank (except AST175HI) allows operation without connection to the water supply network.
- High performance boiler with minimal gas emission, with levels much lower than those set by the EEC.
- Maximum safety boiler with air cooling system that prevents external heating.
- Flame control and burner shutdown due to lack of water.
- "A" Diesel oil fuel.
- Electronic management of boiler and power functions.
- Pressure gauge and water level, diesel oil and operating systems fault indicators
- Steam humidity control system.
- Safety systems with thermostats, safety valves, flame control, pressure control, etc.
- 3 automatic decalcification systems: filter solenoid valve, filter pump and magnetic anti-lime device.
- Pilots signalling status and breakdown.
- Operation at 12 V DC, AST175V model, ready to connect to vehicle battery. Especially suitable for independent use on a vehicle, without the need for mains power or generator.
- AST175Q model with auxiliary membrane pump, which injects the detergent into the steam jet. With its 5-litre detergent tank , it is especially suitable for heavy vehicle washing applications, gum and tar removal, etc.
- AST175HI Model with high pressure cold water group (130 bar, 9 l/m), with a 5-litre detergent tank, and independent operation of the steam generating system.
- Bodywork in painted steel.
- Allows 4 operators, reducing flow and pressure.
- Its design allows easy access to all the machine´s component, facilitating maintenance.

AST175 Accessories series:

Special high temperature silicone hose 10 m (2 units)
Special high temperature gun with rotating fitting (2 units)
Teflon nozzle in special high temperature teflon (2 units) (2 units)

Optional accessories:

Accessory kit for 2 operators with a total of 4 simultaneous operators
1343250000 Contrated steam detergent K43

	AST175	AST175Q	AST175V	AST175HI
Voltage and power V/W/Hz	230/400/50	230/400/50	12 DC	230/2,600/50
Water tank l	27	27	27	NO
Diesel-oil tank l	20	20	20	20
Diesel-oil consumption kg/h	3.4	3.4	3.4	3.4
Steam Pressure bar	9	9	9	9
Steam production kg H_2O/h	33/42	33/42	33/42	33/42
Heating time min	<4	<4	<4	<4
Detergent tank l	-	5	-	5
Maximum temperature °C	180	180	180	180
Hydrojet function	YES	YES	YES	YES
Dimensions LxWxH cm	106x70x102	106x70x102	106x70x102	106x70x102
Weight kg	120	120	120	135

Pressure gauge

INOX
Stainless steel tank

STEEL
Stainless steel tank

NEBULISERS AND FOAMERS/PROFESSIONAL SERIES

08S3302/08S3303/08S3320/08S3321

08S3302

08S3320

08S3321

NEBULISER FEATURES

- To nebulise chemicals products before washing.
- Requires compressed air from an external source.
- Chemical product level indicator.
- Air pressure indicator (max. 6 bar).
- Safety valve.

	08S3302	08S3303	08S3320	08S3321
Capacity l	24	50	24	50
Maximum pressure bar	6	6	6	6
Type of steel	Steel	Steel	Stainless	Stainless
Dimensions LxWxH cm	34x34x78	40x40x103	34x34x78	40x40x103
Weight kg	15	32	15	32

08S3304/08S3305/08S3323/08S3322

08S3304

FOAMER FEATURES

- For foaming and foam production.
- Requires compressed air from an external source.
- Foam quantity and density control.
- Chemical product level indicator.
- Air pressure indicator (max. 6 bar).
- Safety valve.

	08S3304	08S3305	08S3323	08S3322
Capacity l	24	50	24	50
Maximum pressure bar	6	6	6	6
Type of steel	Steel	Steel	Stainless	Stainless
Dimensions LxWxH cm	34x34x78	40x40x103	34x34x78	40x40x103
Weight kg	15	32	15	32

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Engine COOLED by water

Detergent and wax

TST

Electronic timed complete shutdown

1.450 rpm
1.000 rpm
2 speeds

INOX
Stainless Steel

REMOTE CONTROL
from gun

SELF-SERVICE/WATER PRESSURE

KRU8000

RECOMMENDED USE

High pressure self-service equipment with coins or tokens for the cleaning of private or commercial vehicles, motorcycles, trucks, etc. In service stations and washing bay.

FEATURES

- High pressure self-service with 4 programs, (detergent, rinse, wax, final rinse).
- High performance professional pump (2,000 hours guaranteed without change of gasket or valves), with three ceramic pistons, connecting rod / crankshaft system and brass head.
- Continuous service electric motor, 2 speeds (1000-1450 rpm), water cooled, with circuit breaker protection.
- Total system shut-down with gun turned off.
- Environmentally friendly, no CO_2 emissions, with an electric boiler to heat water up to 60 ° C.
- Radio control system, which allows the washing program to be selected by gun, saving time and money..
- Electric thermal accumulator 50 l, 6.7 kW, with temperature control of 40 to 60 ºC.
- Low pressure detergent and wax dosing system.
- Low voltage control and electric control panel.
- 1 € coin slot, with coin storage system and digital display.
- Wash programming.
- Change of radio-control programs by gun and digital programs by control panel.
- Emergency pushbutton, Shut-down.
- Stainless steel bodywork and housing.
- System of anti-vandal zips, locks and anchors.
- 4 Programs:

  Hotwater with detergent in low pressure
  Hot water rinsed under high pressure.
  Hot water with wax in low pressure.
  Cold water with final rinse in high pressure.

Accesories included in KRU8000

High pressure and temperature flexible hose 5/16” 10 m
Lance 900 mm, pistol with rotating fitting and nozzle

Optional accessories

2401000202	Swivel arm box in stain. steel. 360º 2,000 mm
156300630	Swivel arm box in stain. steel. 360º 3,000 mm
156280640	Swivel arm box in stain. steel. 180º 2,000 mm
156300640	Swivel arm box in stain. steel. 180º 3,000 mm
3128310020	Double wivel arm box in stain. steel. 360º 2,000 - 1.750 mm
740290300	Double wivel arm box in stain. steel. 360º 3,000 - 2,500 mm
250055	A.P. Self-service arm 7,000 - 8,000
1900001100	Lance floor stand holder in stain. steel.

	KRU8000
Operating pressure bar	110
Maximum pressure bar	120
Output l/h	660
Engine Power kW/	3
RPM	1,000-1,450
Reboiler Power kW/	6.7
Voltage pH-V-Hz	3-400-50
Max. temperature °C gen.	60
Detergent tank l	20
Wax tank l	20
Dimensions LxWxH cm	80x50x170
Weight kg	135

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30°
Washable polyester filter

INOX
Stainless steel bodywork.

RANGE
AUT6080

SELF-SERVICE/SUCTION

KRU230/KRU2200/KRU2211/KRU2215/AUT6080

KRU230 KRU2200 KRU2211 KRU2215 AUT6080

RECOMMENDED USE

Vacuum equipment operated by coins or tokens for the cleaning of private or commercial vehicles, trucks, etc., in service stations and washing bays.

FEATURES

- Designed for vacuuming inside any vehicle.
- KRU230 Single phase suction 230 V.
- KRU2200 Three-phase suction 400 V.
- KRU2211 Three-phase suction 400 V.
- KRU2215 Suction-injection three-phase upholstery washer 400 V.
- Built entirely in 304 stainless steel.
- 63 litre waste container in stainless steel.
- Vacuum head with 2 motors (2,400 W), by-pass cooling in KRU230.
- Siemens turbine engine (2,200 W) with anti-vibration system in KRU2200-2211-2215.
- Mechanical wallet in KRU230.
- Electronic board with service counter and time-of-service control LED KRU2200-2211-2215.
- Coin selector for €0.50, €1, €2 in KRU2200-2211-2215..
- Minimum service €0.50 and can be accumulated in KRU2200-2211-2215.
- Supports tokens with previous programming in KRU2200-2211-2215.

KRU230-KRU2200-KRU2211 Standard Accessories

Suction hose, 4.5m, D-40 mm
2 flat nozzles D-40 mm
Hose side support

Complementos de serie KRU2215

Suction-injection hose, 4.5m, D-40 mm
1 transparent upholstery nozzle
Hose side support

AUT6080 Suction features + fragrances

- Self-service suction and fragrance sprayer, for boxes and service stations.
- Designed to vacuum and perfume the interior of any vehicle, creating a fresh and renewed environment.
- With 2 by-pass cooled motors (2,000 W).
- Built entirely in stainless steel.
- 2 20 litre waste tanks.
- Easy access to filters and tanks for quick maintenance.
- Built-in 100W compressor, for fragrance spraying.
- Mode selector: suction or fragrance sprayer.
- Selector for 4 different fragrance types.
- Service time and function selection display.
- Coin selector for €0.50, €1, €2 which are accumulable
- Minimum suction service €1.50 and €2 for fragrances.

AUT6080 Standard Accessories

Suction hose, 4.5m, D-40 mm
4.5 m hose with fragrance spray gun
2 flat nozzles D-40 mm
Side supports for hoses

	KRU230	KRU2200	KRU2211	KRU2215	AUT6080
Motor no./W	2 x 1,200	1 x 2,200	2 x 2,200	1 x 2,200	2 x 1,000
Voltage pH-V-Hz	1-230-50	3-400-50	3-400-50	3-400-50	1-230-50
Depression mm/H_2O	2,200	2,900	2,900	2,900	2,210
Air output m^3/h	420	390	390	390	400
Type of steelm^3/h	Stain. 304	Stain. 304	Stain. 304	Stain. 304	Stain. 304
Dimensions LxWxH cm	54x70x136	50x73x161	54x140x160	50x73x161	80x55x90
Weight kg	57	90	180	113	79

INOX
Stainless steel bodywork. except 08S630-08S631

SELF-SERVICE/AUXILLIARY

KRU4000/KRU5000/KRU100/KRU115/08S6030/08S6031

KRU4000

KRU5000

KRU100

KRU115

08S6030

08S6031

RECOMMENDED USE

Self-service auxiliary equipment operated by coins or tokens for the cleaning of private or commercial vehicles, trucks, etc., in service stations and washing bays.

FEATURES

KRU4000-5000-100-115 SELF-SERVICE COMMON FEATURES

- Self-service for bays and service stations.
- Built entirely in 304 stainless steel.
- Electronic board with service counter and time-of-service control LED.
- Service indicator.
- Coin selector accepts €0.50, €1 and €2
- Minimum service €0.50 and can be accumulated.
- Accepts tokens with previous programming.
- Selector with lock for continuous service, without coins.

KRU4000 SELF-SERVICE CARPET WASHER FEATURES

- Self-service dry or wet carpet washers.
- With cylindrical brush on reinforced nylon supports..
- Hydraulic pedal for regulating the passage of water.
- With anti-ice system.

KRU5000 SELF-SERVICE PAPER MACHINE

- Self-service paper machine.
- Designed to accommodate paper rolls from 2.5 to 4 kg.
- Service indicator and paper loading.
- Safety system with photocell that shut-downs the machine when it runs out of paper or there is a fault.

KRU100 SELF-SERVICE TYRE PUMP FEATURES

- Self-service tire inflator without compressor.
- Pistol with EEC approved pressure gauge.

KRU115 SELF-SERVICE WATER DISPENSER OR PRODUCTS FEATURES

- Self-services water distributor or products.
- Standard water distributor.
- It can be ordered as an anti-bactericide dispenser, tyre rim cleaner, dashboard cleaner, upholstery cleaner, etc.

Auxiliary equipment

08S6030	Wall chamois with 35 cm roller
08S6031	Floor chamois with 35 cm roller

	KRU4000	KRU5000	KRU100	KRU115	08S6030	08S6031
Motor no./W	1 x 1,000	1 x 200	1 x 500	1 x 150	-	-
Voltage pH-V-Hz	3+N-400-50	1-230-50	1-230-50	1-230-50	-	-
Type of steel	Stain. 304	Stain. 304	Stain. 304	Stain. 304	Galvan.-painted	Galvan.-painted
Dimensions LxWxH cm	80x55x90	52x40x156	25x30x155	25x30x155	35x33	35x33x105
Weight kg	72	45	24	25	4	15

CHEMICAL PRODUCT

K-35/K-49/K-50/K-01/K-40/K-30/K-115

K-35 MULTIPURPOSE ALKALINE DETERGENT

- Detergent for professional use, alkaline, totally soluble in water.
- Its high characteristics make its performance optimum even with extremely hard water.
- Biodegradable.
- Ideal for cleaning vehicles, trucks, machinery, grease, etc.
- It is used by diluting 1 l of product for 5 l or 10 l of water, or to 50% in a tank, premixed in the pressure washer.
- Comes in packs of 5 and 25 kg.

PACK 5 kg SKU # 1335500000
PACK 25 kg SKU # 1335250000

K-49 FLOOR CLEANING DETERGENT

- High efficiency and slightly alkaline degreaser, soluble in water.
- Balanced mixture of surfactants, loads and powerful solvents, corrosion and light attack on metal inhibitors.
- Does not attack paints, gums or plastics, in indicated concentrations of use..
- Formula with great experience and proven for multiple uses.
- Effectively degreases floors with a large accumulation of dirt..
- Ideal for cleaning floors of workshops, warehouses, garages, etc., by hand or with a scrubbing machine.
- Controlled foam.
- Biodegradable and phosphate-free.
- Suitable for hard water.
- It is used at 5%, diluting 1 l of product with 20 l of water.
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1349250000

K-50 FLOOR CLEANING DETERGENT ESPECIALLY FOR WHEEL MARKS

- High efficiency and slightly alkaline concentrated degreaser, very low in foam and soluble in water.
- Balanced blend of low foam surfactants, solvents and corrosion inhibitor, ideal for deep and effective cleaning.
- Penetrates in the incrustations and dirt that is harder to eliminate.
- Ideal and very effective in eliminating the marks made by tracks.
- **Not suitable for surfaces with epoxy resin.**
- Formula with great experience and proven for multiple uses.
- Ideal for cleaning floors of workshops, warehouses, garages, etc., with a scrubbing machine.
- Controlled foam.
- Biodegradable and phosphate-free.
- Suitable for hard water.
- It is used from 1% to 5%, diluting 1 litre of product per 100 or 20 litres of water, depending on the degree of soiling.
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1350250000

K-01 DESCALING

- Slightly alkaline product for professional use, completely soluble in water.
- Removes scale deposits from lime and magnesium deposits, which normally accumulate in the coils of the closed circuits of the hot water washer.
- Biodegradable.
- It is used by diluting 2 to 3 litres of product in 3 litres of water.
- Comes in packs of 10 kg.

PACK 10 kg SKU # 1301100000

K-40 DRIP DESCALER

- Slightly alkaline product for professional use, completely soluble in water.
- Biodegradable.
- It acts by preventing the accumulation of trace amounts of calcareous salts in the water pipes of the hot water pressure washer.
- It is used purely by automatic drip dispenser.
- Comes in packs of 5 kg.

PACK 5 kg SKU # 1340500000

K-30 FACADE CLEANERS

- Slightly alkaline product for professional use, completely soluble in water.
- Biodegradable.
- It removes all types of remains of cement, saltpetre, rust, moss, etc., that are normally accumulated in the façades..
- It is used by diluting 2 to 5 litres of product with 5 litres of water, or undiluted depending on the thickness of the scale.
- Apply the mixture by spraying on the surface to be cleaned, leave to act and rinse with pressurised water.
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1330250000

K-115 MOSQUITO CLEANERS

- Professional degreaser, with slightly alkaline pH and water soluble.
- Biodegradable.
- Removes organic remains, grease, mosquitoes in the pre-wash of the vehicles without damaging the treated surfaces..
- It is used by diluting 1 litre of product for 5 litres or 10 litres of water, or to 50% in a tank, premixed in the pressure washer.
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1311525000

CHEMICAL PRODUCT

K-120/K-42/K-43/AC0000046/AC000004-2/ AC000003-1/K-60/K-119/X-1/X-3

K-120 UPHOLSTERY CLEANING DETERGENT

- Detergent for professional use, for the cleaning and maintenance of all types of upholstery, carpets and textile coatings by the injection-extraction system.
- Biodegradable.
- Ensures thorough cleaning and revives colours.
- It is used by dilution in cold or hot water from 0.5 to 2 litres of product per 10 litres of water.
- Comes in packs of 5 and 25 kg.

PACK 5 kg SKU # 1312050000
PACK 25 kg SKU # 1312010000

K-42 PERFUMED INTERIOR AND UPHOLSTERY DEGREASER

- Detergent for professional use, for the cleaning and maintenance of all types of upholstery, plastics, carpets, synthetic fabrics, rubber mats, etc.
- Neutral degreaser.
- Emulsifies greases and oils easily.
- Biodegradable.
- Pleasant aroma.
- Special for upholstery cleaners injection-extraction.
- It is used by diluting in cold or hot water to 4% - 1 litre of product per 25 litre of water with extraction system of injection
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1342250000

SPECIAL CHEMICAL PRODUCT STEAM GENERATORS

K-43 K-43 STEAM CONCENTRATE DEGREASER

- Special energetic degreaser for steam generators, with great cleaning action.
- Specially formulated for difficult cleaning of high-fat surfaces.
- Powerful solvents for the removal of dried grease.
- Controlled foam.
- Biodegradable.
- Pleasant aroma.
- It is used by dilution in water from 1% to 5%
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1343250000

AC0000046 VITAL OXIDE APPROVED STEAM DETERGENT-DISINFECTANT

- Disinfectant, bactericidal, virucidal, fumigated, providing 100% disinfection together with steam, on any surface or environment.
- Especially recommended for hospital and agri-food use.
- Recommended for use with steam generators.
- Decontaminate medical devices prior to sterilisation.
- Fast and effective, it can be used daily, weekly, on smooth or porous surfaces, eliminating deep biofilms.
- With odourless chemical agents.
- Non-toxic and environmentally friendly.
- It is used by dilution in water from 1% to 5%
- Comes in packs of 4 kg.

PACK 4 kg SKU # AC0000046

AC0000004-2 ECOLOGICAL STEAM DETERGENT

- Special energetic concentrated degreaser for steam generators, with great cleaning action.
- Specially formulated for difficult cleaning of high-fat surfaces.
- Ecological and Biodegradable.
- Pleasant aroma.
- Dosage of 10 ml, in 1 litre of water.
- Comes in packs of 50 ml and 750 ml.

PACK 0 ml SKU # AC0000004
PACK 750 ml SKU # AC0000002

AC0000003-1 STEAM ANTI-SCALING PRODUCT

- Special anti-scaler for use in steam generators.
- Eliminates hardness and lime in water.
- Made with corn and coconut sulphates.
- Biodegradable.
- 3 spray dosages per 1 litre of water.
- Comes in packs of 50 ml and 750 ml.

PACK 50 ml SKU # AC0000003
PACK 750 ml SKU # AC0000001

SPECIAL CHEMICAL PRODUCT FOR BAYS, BRIDGES AND WASHING TUNNELS

K-60 SPECIAL SHAMPOOFOR CHASSIS

- Detergent for professional use, slightly alkaline, water soluble, foaming, for bays and self-service hot or cold water pressure.
- Balanced mixture of surfactants and cleaning action loads.
- Great cleaning action, even at low dosages.
- Biodegradable and phosphate-free.
- Suitable for hard water.
- Removes dirt from traffic, insects, grease and oil without damaging paint.
- Ideal for use with high pressure pumps in cold or hot water.
- In bays, the dosage is 6%, 1 litre of product per 17 of water. 2% in bridges and washing tunnels.
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1360250000

K-119 SUPER WAX

- Super concentrated drying wax, formulated to eliminate rinse water.
- Providing a super-gloss water repellent finish.
- Biodegradable.
- Suitable for facilities with water recycling systems.
- Dosage of 20 - 30 ml per wash.
- Comes in packs of 25 kg.

PACK 25 kg SKU # 1311925000

SPECIAL ROTARY CHEMICAL PRODUCT

X-1 CRYSTALLISER BASE

- Product specially formulated for the preparation of crystalliser on marble and terrazzo surfaces.
- Apply quickly, thoroughly clean and cover the pore.
- Comes in packs of 5 kg.

PACK 5 kg SKU # 1324600005

X-3 PINK CRYSTALLISER

- Product specially formulated for preparation of crystalliser and polish on marble and terrazzo surfaces.
- High performance and durability, waterproof, crystallises and polishes at the same time.
- Comes in packs of 5 kg.

PACK 5 kg SKU # 1324800006

UNLEADED
Epoxy paint

THREE-PHASE
MODELS
RP150T-RP90T

HEATERS/ELECTRIC/INDUSTRIAL SERIES

RP20M/RP33M/RP90T/RP150T

RP20M RP33M RP90T RP150T

RECOMMENDED USE

Single-phase and three-phase electric heaters, according to models. Suitable for heating commercial or private premises, small warehouses, workshops, etc. They can be used as parts dryers and with painted walls, etc.

FEATURES

- Hot air generator with fan.
- Mounted on a solid metal structure with robust handles.
- Protection against overheating and fire in the hot air generator by means of safety thermostat.
- Thermal selector for power control.
- Room thermostat that guarantees a constant temperature.
- Oven baked and unleaded epoxy paint..

V x D x C = Thermal power kcal / h

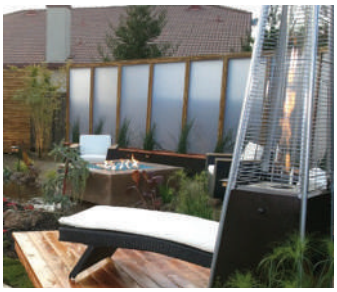
If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1,9 | Very well insulated: C 0, 6-0, 9

	RP20M	RP33M	RP90T	RP150T
Thermal power kW/Hp	1-2	1.5-3	4.5-9	05/10/2015
Thermal power kcal/h	860-1,720	1,400-2,800	2,580-7,740	6,450-12,900
Air output m^3/h	300	400	800	1,300
Voltage V/Hz	230-50	230-50	3-400-50	3-400-50
Electric power kW	2	3	9	15
Sonority dB a 1 m	45	50	52	54
Dimensions LxWxH cm	23x20x33	25x25x42	38x33x59	44x35x60
Weight kg	5	7.5	13.5	15.5

TYR12

Adjustable GAS pressure

GAS **PROPANE** OR **BUTANE**



RECOMMENDED USE

For use in open or closed spaces with ventilation. Ideal for private use and in hotels, heating the environment in patios, terraces, porches, gazebos, bars, restaurants, etc.

FEATURES

TYR12 Heater for patios and outdoor terraces. Its design and performance are synonymous with quality and innovation. This outdoor heater stands out and is different from others that can be found on the market due to its innovative and fascinating design, evoking the torches of the pioneers of fire and transforming these devices into a warm meeting point illuminating and enriching any environment.

	TYR12
Combustible gas	Propane - Butane
Maximum thermal power kW/kcal/h	11.5/9,900
Minimum thermal power kW/kcal/h	5/4,300
Gas pressure bar	3
Gas consumption Lg/h max. / min	0.45/0.86
Dimensions LxWxH cm	62x62x221
Weight kg	31

The TYR12 heater uses an atmospheric burner with a sealed combustion chamber completely isolated from the environment in which it is installed, while ensuring a maximum level of safety because it does not produce gas or smoke emissions in the environment in which it is installed.

- It should always be used in open or closed spaces with ventilation.
- Exclusive pyramidal design that allows the heat optimisation from top to bottom.
- Cosy brightness and immediate warmth, which provides a sense of comfort and well-being.
- Total safety: does not go out with the wind and withstands rain. Can be touched without risk of burns.
- Robust stainless steel construction of corner tubes and reflector.
- Stainless steel burner protected by steel net.
- Flame-proof glass tube, 10 cm diameter.
- Easy mobility thanks to its transport wheel kit.
- Electronic piezoelectric battery operated.
- Flame safety control, with pilot failure indicator.
- Anti-roll over safety system (automatic disconnection in case of overturning).
- Pyramid-type, anti-roll over vertical structure .
- Includes hose and regulating valve.
- With CE, ETL and AGA approvals.

ASTRO15-50/ASGARD120M-180A-260A-340A-100A

ASGARD120M-180A-260A-340A

ASTRO50

ASTRO15

ASGARD100A

V x D x C = Thermal power kcal / h

If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1,9 | Very well insulated: C 0,6-0,9

NEW ASGARD120M-180A-260A-340A-ASGARD100A

UNLEADED Epoxy paint

ADJUSTABLE GAS pressure

PROPANE OR **BUTANE** GAS

Safety thermostat and solenoid valve

AUTOMATIC ASGARD180A-260A-340A-100A

DIRECT COMBUSTION

SET UP FOR AMBIENT THERMOSTATE ASGARD180A-260A-340A-100A

RECOMMENDED USE

Hot air generators for direct combustion of propane or butane gas. Suitable for drying and heating in ventilated places such as commercial or private premises, warehouses, workshops, greenhouses, poultry farms, livestock, etc. They can be used as parts dryers, for painted walls, etc.

FEATURES

Astro15-50-Asgard120M-180A-260A-340A series features:

- Equipped with thermocouple, safety thermostat and solenoid valve.
- Thermo-electric flame control in ASTRO and ASGARD120M models.
- Flame control by ionization detector in ASGARD180A-260A-340A.
- Adjustable gas pressure except ASTRO15.
- Manual start with piezoelectric system in ASTRO15-50 and ASGARD120M.
- Fully automatic with double solenoid valve in ASGARD180-260-340A models.
- Can be fitted with room thermostat to ASGARD180-260-340A.
- Equipped with Shut-down-Gas safety valve, and gas pipe with fittings.
- Power cord with plug.
- Baked with lead-free epoxy paint.

Asgard100A Features:

- Built-in PROPANE gas burner.
- IP54 electrical panel, suitable for damp and dusty environments.
- Infra-red flame control.
- Equipped with thermocouple, safety thermostat and solenoid valve.
- Adjustable 0, 5-2 bar gas pressure.
- Automatic ignition.
- Equipped with Shut-down-Gas safety valve, and gas pipe with fittings.
- Power cord with plug.
- Can be fitted with room thermostat, humidistat or timer.
- External structure in stainless steel.
- Winter-summer switch, for use as a fan.
- Suitable for heating greenhouses, poultry and livestock farms.

	ASTRO15	ASGARD120M	ASTRO50	ASGARD180A	ASGARD260A	ASGARD340A	ASGARD100A
Thermal power kW	7,54 ÷ 15	15,08 ÷ 31.4	26,9 ÷ 50	22,76 ÷ 46.73	32,33 ÷ 66.25	40,95 ÷ 84.81	48 ÷ 125
Thermal power kcal/h	6,450 ÷ 12,900	12,965 ÷ 27,000	23,200 ÷ 43,000	19,570 ÷ 40,180	27,800 ÷ 56,965	35,210 ÷ 72,923	41,300 ÷ 107,500
Air output m^3/h	300	1100	1500	1250	1,950	2,550	6000
Voltage pH-V-Hz	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50
Gas pressure bar	0.7	0.4-1.5	1.5	0.4-1.5	0.4-1.5	0.4-1.5	2
Consumption kg/h	0,66 ÷ 1.11	1,025 ÷ 2.131	2,20 ÷ 4.29	1,54 ÷ 3.15	2,19 ÷ 4.47	2,78 ÷ 5.76	2,75 ÷ 8.56
Dimensions LxWxH cm	48x19x33	51x28x51	63x28x44	58x28x51	58x32x54	70x32x54	112x59x71
Weight kg	6	10	12.5	12	14	16	63

DIRECT COMBUSTION
GALAXI30-50

DIRECT COMBUSTION
STAR30

INOX
Stainless Steel Combustion Chamber

DIESEL

Safety thermostat and solenoid valve

Fuel tank from 24 and 50 l

HEATERS/DIESEL-OIL/BASIC PROFESSIONAL SERIES

GALAXI30/GALAXI50/STAR30

GALAXI30

GALAXI50

STAR30

RECOMMENDED USE

GALAXI hot air generators (direct combustion) and STAR (indirect combustion with chimney), to diesel-oil. Suitable for drying and heating in poorly ventilated or closed places, such as commercial or private premises, warehouses, workshops, industry, greenhouses, farms and livestock, etc.

FEATURES

- Fully automatic operation on diesel-oil, with Danfoss gear pump, in STAR30.
- Electronic flame control.
- AISI 430 stainless steel fuel chamber.
- Timed post-ventilation for cooling the combustion chamber, when shut-downping the machine, in GALAXI50 and STAR30.
- Photoelectric cell.
- Internal safety thermostat.
- Can be fitted with room thermostat, humidistat or timer.
- External diesel oil filter for easy cleaning and maintenance.
- Power cable, 1.5 m, with plug.
- Start switch.
- Reset button, safety shut-down and reset.
- Steel diesel oil tank.
- Fuel drain plug.
- Equipped with wheels for easy transport.
- Oven baked and unleaded epoxy paint.
- 150 mm chimney diameter in STAR30.

Optional accessories

367545230	TA2N Thermostat Environment , with 5 m, cable 2 x 1.5 mm
4819200301	Farm Thermostat Environment, with 5 m, cable 2 x 1.5 mm
0338522	Thermostat cable 2 x 1.5 mm (per metre)
3605061700	Room thermostat heater plug

V x D x C = Thermal power kcal / h

If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1.9 | Very well insulated: C 0.6-0.9

	GALAXI30	GALAXI50	STAR30
Thermal Power kW	30	50	30
Thermal power kcal/h	25,800	43,000	25,800
Air output m^3/h	735	1,100	1,500
Engine power W	180	285	180
Consumption l/h	2.92	4.88	2.92
Tank l	24	50	50
Dimensions LxWxH cm	93x46x52	100x56x63	120x53x69
Weight kg	26	39	63

UNLEADED
Epoxy paint

DIRECT COMBUSTION

SET UP FOR AMBIENT THERMOSTATE

INOX
Stainless Steel Combustion Chamber

DIESEL

Safety thermostat and solenoid valve

Fuel tank 17-42-65-105 litres

ESKOL20/ESKOL36/ESKOL65/ESKOL105

ESKOL105 ESKOL65 ESKOL36 ESKOL20

RECOMMENDED USE

Direct combustion hot air generators (without chimney), diesel oil Suitable for drying and heating in ventilated places, such as commercial or private premises, warehouses, workshops, industry, etc.

FEATURES

- Fully automatic diesel-oil operation with Danfoss gear pump.
- Electronic flame control.
- AISI 430 stainless steel fuel chamber.
- Timed post-ventilation for cooling the combustion chamber, when shut-downping the machine.
- Photoelectric cell.
- Can be fitted with room thermostat, humidistat or timer.
- Diesel-oil feed tube made of hydrocarbon-resistant rubber coated with reinforced textile mesh.
- Diesel oil tanks in reinforced polyethylene in Eskol20-36.
- Eskol65-105 steel diesel oil tank.
- 3 position start switch.
  0 - Machine shut-downped.
  1 - Machine in continuous operation.
  2 - Machine in operation with room thermostat, humidistat or timer clock.
- Voltage indicator light.
- Reset button with green light working correctly and red light for emergency.
- Equipped with wheels for easy transport.
- Oven baked and unleaded epoxy paint..
- Power cable, 3 m, with plug.

Optional accessories

367545230	TA2N Thermostat Environment , with 5 m, cable 2 x 1.5 mm
4819200301	Farm Thermostat Environment, with 5 m, cable 2 x 1.5 mm
0338522	Thermostat cable 2 x 1.5 mm (per metre)
3605061700	Room thermostat heater plug

V x D x C = Thermal power kcal / h

If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1,9 | Very well insulated: C 0,6-0,9

	ESKOL20	ESKOL36	ESKOL65	ESKOL105
Thermal power kW	20	36	65	105
Thermal power kcal/h	17,300	31,002	55,885	90,252
Air output m^3/h	350	605	2,500	4,600
Engine power W	200	232	598	1,170
Consumption l/h	1.69	3.04	5.48	8.85
Tank l	17	42	65	105
Dimensions LxWxH cm	72x30x45	107x44x62	120x56x86	149x67x100
Weight kg	23	29	78	111

HEIMDAL45

UNLEADED
Epoxy paint

INFRARED

SET UP FOR
AMBIENT
THERMOSTATE

INOX
Stainless Steel
Combustion
Chamber

DIESEL

Safety thermostat
and solenoid
valve

Fuel tank
65 litre

HEIMDAL45

RECOMMENDED USE

INFRARED direct combustion hot air generators, diesel oil Suitable for drying and heating in ventilated places, such as commercial or private premises, warehouses, workshops, industry, etc.

FEATURES

- Economical and effective infra-red heater.
- Perfect for heating working environments with ventilation, can be used to thaw machinery, pipes and as drying materials.
- Made with the highest levels of quality, resistant and durable.
- Direct flow of heat irradiation without air movement.
- Very low sound level.
- The incandescent panel that catalyses the gases enables clean combustion, therefore no chimneys or gas exhaust pipes are needed.
- Does not create disturbances or particles in the air and is therefore perfect for drying wherever necessary.
- With protection against overheating.
- Fully automatic diesel-oil operation. with Danfoss gear pump.
- Electronic flame control with photoresist.
- AISI 430 stainless steel fuel chamber.
- Adjustable burner that allows selecting the required height to direct the heat to the desired area.
- Compact, flexible use with easy and quick installation.
- Power cable, 1.5 m, with plug.
- Steel diesel oil tank.
- Heimdal45 with wheels, allows easy placement and transport.
- Oven baked with lead-free epoxy paint.

V x D x C = Thermal power kcal / h

If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1,9 | Very well insulated: C 0,6-0,9

HEIMDAL45

Thermal power kW	45
Thermal power kcal/h	36,713
Air output m³/h	Infra-red
Engine power W	370
Consumption l/h	3.6
Tank l	65
Dimensions LxAnxAl cm	141x71x105
Weight kg	75

UNLEADED
Epoxy paint

INDIRECT COMBUSTION

SET UP FOR AMBIENT THERMOSTATE

INOX
Stainless Steel Combustion Chamber

DIESEL

Safety thermostat and solenoid valve

Fuel tank
42-65-105 litres

LOKI22/LOKI32/LOKI55/LOKI85

LOKI85 LOKI55 LOKI32 LOKI22

Chimney toxic gases outlet

RECOMMENDED USE

Indirect combustion hot air generators (with chimney), diesel oil Suitable for drying and heating in poorly ventilated or closed places, such as commercial or private premises, warehouses, workshops, industry, greenhouses, farms and livestock, etc.

FEATURES

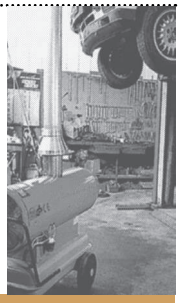
- Fully automatic diesel-oil operation with Danfoss gear pump.
- Electronic flame control.
- AISI 430 stainless steel fuel chamber.
- Timed post-ventilation for cooling the combustion chamber, when shut-downping the machine.
- Photoelectric cell.
- Can be fitted with room thermostat, humidistat or timer.
- Diesel-oil feed tube made of hydrocarbon-resistant rubber coated with reinforced textile mesh.
- Diesel oil tanks in reinforced polyethylene in Loki22-32.
- Loki22-32 steel diesel oil tank.
- 3 position start switch:
  0 - Machine shut-downped.
  1 - Machine in continuous operation.
  2 - Machine in operation with room thermostat, humidistat or timer clock.
- Voltage indicator light.
- Reset button with green light working correctly and red light for emergency.
- Equipped with wheels for easy transport.
- Oven baked and unleaded epoxy paint..
- Power cable, 3 m, with plug.

Optional accessories

367545230	TA2N Room thermostat with 5 m cable 2x1, 5 mm
4819200301	Farm Room thermostat with 5 m cable 2x1, 5 mm
0338522	Thermostat cable 2 x 1.5 mm (per metre)
3605061700	Room thermostat heater plug
02AC285	1 metre stainless straight tube gas outlet Ø150 mm
02AC288	90º stainless gas output curve Ø150 mm
02AC282	China finish for gas outlet tube Ø150 mm

V x D x C = Thermal power kcal / h
If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1,9 | Very well insulated: C 0,6-0,9

	LOKI22	LOKI32	LOKI55	LOKI85
Thermal Power kW	22	32	55	85
Thermal power kcal/h	18,866	27,534	47,318	73,119
Air output m^3/h	550	1,150	2,500	4,300
Engine power W	300	370	850	1,140
Consumption l/h	1.85	2.7	4.64	7.17
Tank l	42	42	65	105
Chimney Ø mm	120	150	150	150
Dimensions LxWxH cm	107x44x62	121x44x67	143x56x94	174x69x102
Weight kg	40	48	81	110



NERTA34/NERTA70/THOR115OIL

NERTA34/NERTA70

THOR115OIL

UNLEADED
Epoxy paint

INDIRECT COMBUSTION

SET UP FOR AMBIENT THERMOSTATE

INOX
Stainless Steel Combustion Chamber

DIESEL

Fuel tank
65-135 l

Equipment prepared for INTENSIVE USE

RECOMMENDED USE

Stationary hot air generators with indirect combustion (with chimney) on diesel oil with very high thermal efficiency. Ideal for heating in large private or industrial areas such as commercial premises, warehouses, workshops, sports venues, etc.

FEATURES

- Fully automatic.
- High efficiency equipment above 90%
- Suitable for conducting hot air through hoses or pipes, in THOR115OIL.
- Independent diesel-oil burner.
- Electronic ignition and flame control.
- High performance heat exchanger.
- Aerodynamic stainless steel combustion chamber.
- Combustion chamber preheating system.
- 65 litre, built-in diesel oil tank in NERTA MODELS.
- External diesel oil outlet in THOR115OIL.
- Smoke outlet for chimney connection.
- Centrifugal fan at low speed with single-phase electric motor directly coupled to the fan..
- Built-in ambient thermostat (+5/+30 ºC.) in NERTA.
- Preconditioning for room thermostat in THOR115OIL.
- Bi-thermostat FAN-LIMIT manual reset.
- Power cord with grounding plug.
- Automatic post-ventilation system for cooling the combustion chamber.
- Built-in diesel oil filter.
- Plenum air distribution, with four adjustable outlets and wings NERTA.
- 3-position switch: 0 Off, 1 heating, 2 ventilation.
- Double outer sheath of baked steel painted with lead-free epoxy paint, for thermo-acoustic insulation.
- Pneumatic wheels with foam to prevent punctures in THOR115OIL.
- Bottom base adapted for handling with forklifts in THOR115OIL.

Optional accessories

02AC520	Double air outlet THOR115OIL
02AC565	Heat hose Ø450 mm length: 6 m.

V x D x C = Thermal power kcal / h

If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1,9 | Very well insulated: C 0,6-0,9

	NERTA34	NERTA70	THOR115OIL
Thermal Power kW	34.8	69.8	129
Thermal power kcal/h	29,900	60,000	110,870
Air output m^3/h	2,400	4,000	8,950
Engine power W	677	1,550	3,700
Consumption l/h	3.3	6.6	12
Tank l	65	65	-
Chimney Ø mm	150	150	200
Dimensions LxWxH cm	92x51x197	102x60x199	214x81x120
Weight kg	151	189	255

UNLEADED
Epoxy paint

INDIRECT COMBUSTION

SET UP FOR AMBIENT THERMOSTATE

INOX
Stainless Steel Combustion Chamber

DIESEL

Equipment prepared for INTENSIVE USE

ODIN SERIES

ODIN

Optional Plenum

RECOMMENDED USE

Stationary hot air generators with indirect combustion (with chimney) on diesel oil, natural or propane gas, with very high thermal performance Ideal for heating in large private or industrial areas such as commercial premises, warehouses, workshops, sports venues, etc.

FEATURES

- High thermal performance indirect combustion hot air generator (with chimney).
- Heat exchanger to 2 - 3 turns of smoke, with stainless steel. combustion chamber.
- High quality steel pipes for smoke.
- Centrifugal fan with turbine mounted on bearings.
- Electrical control system with FAN LIMIT bithermostat control for the automatic start-up of fans and for shut-downping the burner in case of overheating from air.
- Automatic diesel oil burner or natural gas alternative..
- Smoke outlet for chimney connection.
- Direct air outlet to plenum or channelled (optional).
- Exterior painted in oven with lead-free epoxy paint.

V x D x C = Thermal power kcal / h
If you want to calculate the thermal power needed to heat your room, multiply the volume of the room (length x width x height, m3) by the temperature difference (between the one you have and the one you want to achieve) by one of the Scattering Coefficients, according to insulation. Uninsulated: C 3-4 | Poorly insulated: C 2-2.9 | Discreetly insulated: C 1-1,9 | Very well insulated: C 0,6-0,9

Optional accessories

02AC377	Plenum ODIN100
02AC356	Plenum ODIN150
02AC357	Plenum ODIN200

	ODIN 100OIL	ODIN 100GAS	ODIN 150OIL	ODIN 150GAS	ODIN 200OIL	ODIN 200GAS
Thermal power kW	115.1	115.1	174.4	174.4	220.9	220.9
Thermal power kcal/h	99,000	99,000	150,000	150,000	190,000	190,000
Air output m^3/h	7,600	7,600	10,000	10,000	12,500	12,500
Stat. press. mm/H_2O	20	20	20	20	20	20
Power Input W	2,000	2,000	3,100	3,100	4,000	4,000
Voltage pH-V-Hz	3-400-50	3-400-50	3-400-50	3-400-50	3-400-50	3-400-50
Diesel-oil cons. l/h	9.71	-	14.71	-	18.63	-
Natural gas cons. m^3/h	-	9.08	-	13.75	-	17.42
Chimney Øcm	200	200	200	200	200	200
Dimensions LxWxH cm	148x67x183	148x67x183	171x69x183	171x69x183	196x77x213	196x77x213
Weight kg	247	247	278	278	367	367

UNLEADED
Epoxy paint

Powerful and effective for combating moisture

ECOLOGI-CAL
Refrigerator for protecting the OZONE LAYER

4.5-10 litres

Water collection deposit

DEHUMIDIFIERS

KD45/KD80

KD45

KD80

RECOMMENDED USE

Portable dehumidifiers for the reduction of air humidity that provide personal well-being and protect the stored goods. Suitable for commercial or private premises, rooms, basements, small stores, farms, etc.

FEATURES

- Ergonomic, compact, high quality and easy to use.
- Solid construction to withstand the most demanding applications.
- Rotary compressor.
- 407C ecological refrigerator for the protection of the environment and ozone.
- Air filtration system.
- Electronic digital control unit with fully automatic operation.
- Built-in humidistat.
- Defrost system with complete compressor protection.
- Possibility to connect hose to drain.
- Water collection system with tank in both models.
- Equipped with wheels for easy transport.
- Oven baked and unleaded epoxy paint.

		KD45	KD80
Voltage V/Hz		220/50	220/50
Input power W		950	1,250
Dehumidifying capacity			
30°C/80% rh		45 l / 24 h	80 l / 24 h
27°C/60% rh		27 l / 24 h	49 l / 24 h
12°C/70% rh		12 l / 24 h	20 l / 24 h
	% rh	30 / 90	30 / 90
	°C	+5 / +35	+5 / +35
Air output m^3/h		300	400
Tank l		4.5	10
Sonority dB a 1 m		45	52
Dimensions LxWxH cm		46x50x59	54x60x79
Weight kg		30	39

GENERAL CONDITIONS OF SALE

The existence of a commercial relationship implies the acceptance and fulfilment of the conditions established by KRÜGER Technology S.L., at any time. The present conditions will be applied with total rigour without acceptance of any preferential treatment.

SALES

Customer:

You will provide your business and banking details as well as any additional documentation that **KRÜGER Technology S.L.** requests in order to obtain classification and opening of credit.
Make orders in writing through: **KRÜGER Technology S.L.** Area Agent, web **www.kruger.es,** email **pedidos@kruger.es** or Fax (+34) **948 31 84 53**.

If you need an extension on request, you should request this in writing.
You will clearly indicate in the order the reference and price of each requested article.

If you do not specify the delivery address of the goods, you will accept the receipt at the address in the **KRÜGER Technology S. L.** file.
In initial orders and until the obtaining of credit, will settle the total amount of order, by means of prepayment.

KRÜGER TECHNOLOGY, S.L.:

A charge of €7.00 for processing and handling in orders with amounts less than €100.00 net. will be made. This covers the shipping costs through the agency that has been contracted, whenever the order exceeds €400.00 net in the Iberian Peninsula and Balearic Islands. Deliveries to the Canary Islands, Ceuta and Melilla: Postage paid from €1,200.00 net. Orders that do not reach €400,00 net, will also be sent postage paid, with a minimum amount of €15,00 in invoice. Other options: Delivery is at the cost of the customer.

The prices reflected in the current tariff will be systematically applied
(The R.R.P.. indicated in the price is the NET EX-FACTORY VALUE I.V.A. NOT INCLUDED).

The customer will be notified regularly regarding any modifications made to their order.

An invoice will be issued clearly specifying all items, amounts, discounts, expirations, etc.

RETURNS

Customer:

If there is an anomaly in goods upon receipt, this must be recorded in the delivery note of the carrier at the time of delivery, sending a copy to KRÜGER Technology S.L., by email **pedidos@kruger.es** or fax: (+34) 948 318 453, for rapid processing.

Other returns: the moment the customer reports the incident, s/he will be provided with a **RIQ-06.03 Return Request Form** by KRÜGER Technology S. L. which, once completed, must be sent by e-mail or fax number previously indicated.

Our Warehouse Manager will return it to you via email / fax indicating the procedure to follow.

KRÜGER TECHNOLOGY, S.L.:

Will not accept any complaints about the material sent, **24 HOURS AFTER** the date of receipt.

Will not accept returns of material **15 DAYS AFTER** the date of receipt

Will deduct the corresponding costs for the return of material from subsequent purchases or will make a bank payment once the respective material has been returned.

Will deduct from the costs all expenses incurred as a result of the return, as well as damages caused to the material, spare parts and packaging should this be required.

GUARANTEES

The guarantee offered by KRÜGER Technology S.L. Complies with the Law (23/2003 July) of Guarantees in the Sale of Consumer Goods.

Customers:

Must send us the completed form**RIQ-06.02 Guarantee Request** by fax or email.

Our Workshop Manager will indicate on the same form the procedure to be followed, returning it to you via your fax number or email.

Only requests including the respective purchase invoice will be accepted.

KRÜGER TECHNOLOGY, S.L.:

Will dealt with them once the report by the technical services that have verified the materials in question is received.

Guarantee void:

By use or replacement of parts not original or not approved by **KRÜGER Technology S.L.**

Through failure to comply with operating instructions specified in the start-up and maintenance manuals.

Through improper handling of equipment and materials, or improper acquisition of the machine, depending on the work to be performed.

PAYMENTS

Customer:

You must provide your direct debit details with all relevant information. If you do not wish to make payments, **YOU WILL BE SOLELY RESPONSIBLE IN CASE OF RETURN**, assuming all expenses generated.

When the established payment method involves the sending of payment commitment documents (promissory notes, cheques, confirmations, etc.), they must be sent within a maximum period of 30 days from the date of invoice.

If you do not pay on time, you must settle the amount immediately along with the corresponding expenses and interest incurred because of delay.

If you request an exceptional delay in the payment of commitments undertaken, you will be charged for financing expenses.

KRÜGER TECHNOLOGY, S.L.

You must systematically apply the payment method within 30 days on invoices of less than €300.00.

The respective debit will be sent with invoices to those customers who pay by direct debit tor their acceptance, and must be returned by the customer within a maximum period of 15 days. The customer account will be automatically blocked and credit cancelled in the event of:

1. Unpaid bills.

2. A delay in the sending of promissory notes and other payment documents that require acceptance by the customer.

In all matters relating to delays and non-payments, the application of Law 15/2010, of July 5, amending Act 3/2004, of December 29, establishing measures to combat delinquency in Commercial Operations and the Resolution of 27/12/2011 of the General Directorate of the Treasury and Financial Policy published in the Official Gazette, January 1, 2012, No. 1, page 78, and of all subsequent amendments to the aforementioned resolution, shall apply.

KRÜGER Technology S.L. reserves the right to make any changes in product prices and features, without prior notice. The details of the present prices are exempt of any form of liability.

The possible discrepancies that the interpretation or application of the present prices may provoke, will be expressly submitted to the jurisdiction of the Courts and Tribunals of Pamplona (Navarre).

TECHNICAL INFORMATION ICONS

TOTAL AUTOMATIC SHUTDOWN
Instant shut-down that the pressure washer executes by removing the trigger from the gun, thus preventing overheating.

TEMPORARY ELECTRONIC TOTAL SHUTDOWN
The timed electronic system is used in more powerful equipment that needs greater care with motor shut-downs.

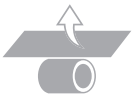
WORK SYSTEM
Indicates the revolutions per minute by the motors and pumps turn in the pressure washers The less revolutions, the better the performance of the equipment.

MOTOR-PUMP CONNECTION THROUGH ELASTIC JOINT
A non-rigid coupling between the motor and the pump that considerably improves the durability of these components.

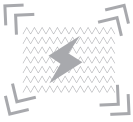
ABS
Acrylonitrile Butadiene Styrene, or ABS, is a highly impact resistant plastic widely used in industrial applications because of its unbeatable characteristics.

DSS SECURITY SYSTEM
This safety system is activated once the machine goes into full shut-down, preventing starting without minimum pressure applied.

TANGENTAL INLET PRESSURE
This entrance, located on the side of the tank, causes a greater sink speed of the dirt in the tank, improving the performance of the vacuum cleaner.



LIFT-FLAP SYSTEM
This feature makes it possible to lift the front skirt of the sweepers to allow the passage of medium volume and light weight objects.



ELECTRIC FILTER SHAKER
Filter cleaning system by means of a vibrating motor placed on the upper cover of the filters, improving their performance.

NFS ANTIFOAM SYSTEM
This system prevents the foam, due to its low weight, from being absorbed into the suction motors.

REVERSIBLE SUCTIONS LIPS
Once worn or deformed, they can be used by turning them around.

From our customer service department, we will be happy to assist you with any queries you may have about our products and services by telephone **902 180 335**, or by e-mail to **info@kruger.es.**

kruger.es
0034 948 343 393
Customer Service and Technical Service
KRÜGER
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