

HVAC / Ventilation hygiene

Lifa Air manufactures state-of-the-art equipment for inspection and cleaning of ventilation and a/c systems. Lifa Air improves the Indoor Air Quality of any environment by integrating mechanics, electronics and information technology. The Lifa Cleaning Concept consists of an evaluation procedure for estimating the need of cleaning and verification of the cleaning result, a mathematical model to select the cleaning brush and the cleaning methods of HVAC system. This ensures the best cleanliness result in minimum time and labour. All Lifa

brushing machines can clean round and rectangular ducts. The machines have been developed by trial-and-error in the field during past 10 years and are therefore very durable and easy to service and maintain. The reel for the flexible shaft is designed to wind the shaft back easily and to prevent the dirty shaft cover from coming into contact with floor during cleaning. The rotation direction can be changed using the pneumatic foot control. Changing the direction of rotation enables the user to navigate the brush through bends in ducts.

Hydmaster 40 (with or without camera)

Lifa Hydmaster 40 is patented technology by Lifa Air and it is the most powerful hydraulic brushing machine on the market and the only one with built in camera. It operates on single phase voltage (115 or 230 V) and is distinctly quieter and more user friendly than pneumatic cleaning machines. It is designed especially for demanding industrial cleaning and for large ducts ranging from 25 to 120 cm.



Optional video camera system for guidance and inspecting

Built-in 1,1 kW hydraulic pump drives hydraulic motor, no compressor needed

Y-gear for rotating 2 brushes in rectangular ducts (accessory)

40m flexible yet extremely durable cleaning shaft

Adjustable speed control 0 – 800 rpm, variable speed AC motor drive

Easy to move and lift

Pneumatic rotation control, forward and reverse

Lifa DuctCleaner Robot

Solution for commercial cleaning jobs formerly considered impossible. All functions included, yet cheapest cleaning robot in the market !!!

Based on the same high quality components used in the other Lifa machines; proven functionality and durability. Accessory unit for LIFA DuctControl Mini camera robot: steering and video recording with the same control box. Brush rotation with a pneumatic motor. Requires just a regular single phase compressor. Simultaneous brushing and air-jetting/liquid spraying via separate hose. Selection of brushes for all kinds of dirt, from static dust to heavy/hard burned grease.





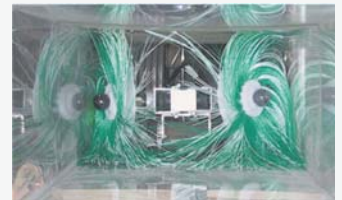
Lifa CombiCleaner 40



Lifa CombiCleaner 40 is a pneumatic brushing machine for duct cleaning and spraying chemicals.

- For ducts ranging from 25 to 120 cm, rectangular or circular
- Pneumatic motor driven by a separate compressor 600 l/min at 100 PSI
- Adjustable rotation speed 0 – 760 rpm, forward and reverse
- Manual control and regulation valves
- 40 m flexible cleaning shaft
- Built-in chemical hose and spraying nozzles: can also be used for filter cleaning and disinfecting ducts polluted with microbe substances
- Pneumatic or mechanical centering device available

Y-Gear
for rotating 2 brushes
in rectangular ducts



Lifa SpecialCleaner 25 Multi

The Lifa SpecialCleaner 25 Multi is an electrically powered ventilation duct cleaning machine. It is extremely handy both for rectangular or circular ducts, giving it the edge over other cleaning machines. As a lightweight machine with a reel it can quickly and easily be set up for use or for transportation. It has extensive reach and a long power cord.

- The number one professional choice for cleaning middle-size \varnothing 250 – 700 mm ducts
- 25 m cleaning shaft, three layer cover
- Variable brush speed ranging from 300 to 700 rpm
- Compact, relatively lightweight machine with a good torque
- Safe brush operation by foot control mechanism
- Wide range of accessories available
- Wheel-mounted for easy mobility
- Single-phase current 230V/115V, 50 or 60 Hz.

Lifa SpecialCleaner 20PE

Lifa SpecialCleaner 20 PE is an electrical powered brushing machine for duct cleaning

- The professional duct cleaner's first choice
- For ducts ranging from 100 - 550 mm, rectangular or circular
- Gear motor drives flexible 20 m cleaning shaft
- Adjustable brush speed 300 – 600 rpm, variable speed AC motor drive
- Pneumatic rotation control, forward and reverse
- Mechanic centering device and T-gear as accessory
- Handy reel, easy to handle and move



Lifa Compressor

model 362-20-1P,
operates with 220V, 3 HP,
240L/min constant flow,
weight 38kg



Y-Gear
for rotating 2 brushes
in rectangular ducts



CombiCleaner 15

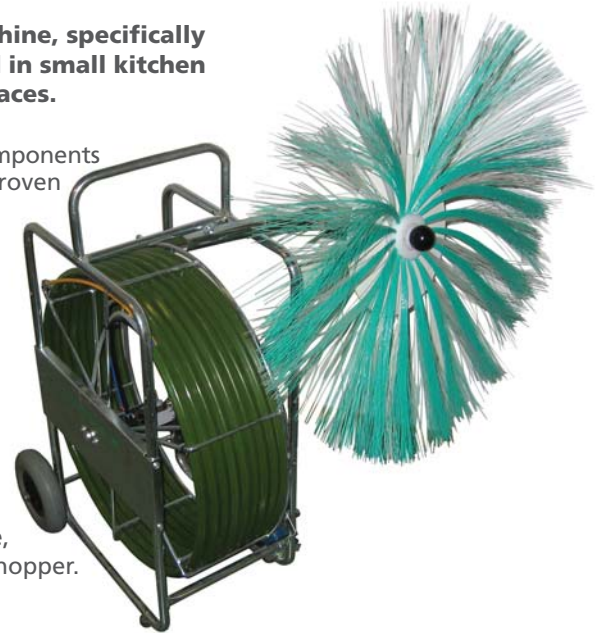


New grease duct cleaning machine, specifically designed and made to be used in small kitchen exhaust ducts and cramped spaces.

Based on the same high quality components used in the other Lifa machines; proven functionality and durability.

Brush rotation with a pneumatic motor. Requires just a regular single phase compressor. If Y-gear and 2 stiff brushes are used, then the optimum air power 340 l/min at 7 bar is needed. Simultaneous brushing and air-jetting/liquid spraying via integrated hose.

All Lifa brushes for all kinds of dirt can be used with this machine, from soft brushes to the Grease Chopper.



SpecialCleaner 2

Lifa SpecialCleaner 2 is electrical brushing machine for smaller objects and for air conditioning systems

- Handy at use
- For ducts ranging from 7 – 40 cm, rectangular or circular
- Gear motor drives flexible cleaning shaft
- Brush speed 600 rpm
- Optional variable speed AC motor drive for 115 V or 230 V 50/60 Hz (300 – 600 rpm)
- Pneumatic rotation control, forward and reverse
- Mechanic centering device as accessory
- Flexible brush adapter for ducts ranging from 7 to 20 cm
- Built-in aluminium/plywood transport case



AirJet Combi 20

Lifa AirJet Combi 20 is a pneumatic multi-use machine for air-jetting or for spraying chemicals in different ducts, pipes or cavities.

- Lightweight 20 m shaft
- Glass fibre spring and chemical hose inside shaft
- For ducts and pipes from 5 cm
- Wide variety of nozzles
 - spraying disinfectants, cleaning chemicals, duct sealants etc.
 - blasting with compressed air
 - rotating recoil jet brushing
- Centering brushes or adjustable centering device available
- Powered by a separate compressor
- Chemical spraying with a low-pressure sprayer



Technical information

LARGE DUCTS	Hydmaster 40	CombiCleaner 40	SpecialCleaner 25 Multi	DuctControl Cleaning Robot
Powered by	Hydraulics	Compressed air	Electricity	Compressed air (brush) + electricity
Operating voltage	230V / 50 Hz		230V / 50 Hz	230V / 50 Hz
Motor	1,1 kW / 1,5 Hv		0,55 kW / 0,7 Hv	80 W
Fuse/breaker	16 A		10 A	2 A
Electric cable	7 m length, 3G2,5 mm ²		7 m length, 3G2,5 mm ²	25 m length, 3G2,5 mm ²
Air volume consumption		200-600 l/min, 7 bar	nozzle type decisive	200-340 l/min, 7 bar
Max torque	10 Nm	7 Nm	5 Nm	6 Nm
Brush rotation speed	0-700 rpm, stepless adjustment	0-760 rpm, manual/stepless air valve	0-650 rpm, stepless adjustment	0-500 rpm, manual/stepless air valve
Rotation controls	Pneumatic pedal, frequency converter	Manual/air valve	Pneumatic pedal, frequency converter	Manual/air valve
Brush connection	M12	M12	M12	M12
Nozzle connection		1/4" quick coupling	1/4" quick coupling	1/4" quick coupling
Size	H 1290 mm, W 570 mm, L 1100 mm	H 1290 mm, W 570 mm, L 1100 mm	H 1290 mm, W 570mm, L 1100mm	H 190 mm, W 280 mm, L 410 mm
Weight	90 kg	40 kg	50 kg	8 kg
Length of shaft (cleaning axis)	40 m	40 m	25 m	25 m (electric cable)
Accessories	Y-gear, mechanical centering device, hand controller	Y-gear, pneumatic centering device, spray bottle, nozzles	mechanical centering device, hand controller, spray bottle, nozzles	Y-gear, spray bottle, nozzles

SMALL DUCTS	SpecialCleaner 20 PE	Combicleaner 15	AirJet Combi 20	Special Cleaner 2
Powered by	Electricity	Compressed air	Compressed air	Electricity
Operating voltage	230V / 50 Hz			230V / 50 Hz
Motor	0,37 kW / 0,6 Hv			0,37 kW / 0,6 Hv
Fuse/breaker	10 A			10 A
Electric cable	7 m length, 3G2,5 mm ²			4 m length, 3G2,5 mm ²
Air volume consumption		200-340 l/min, 7 bar	100-600 l/min, 7 bar	
Max torque	5 Nm	6 Nm		5 Nm
Brush rotation speed	0-550 rpm, stepless adjustment	0-500 rpm, manual/stepless air valve		550 rpm
Rotation controls	Pneumatic pedal, frequency converter	Manual/air valve		Pneumatic pedal, frequency converter
Brush connection	M12	M12		M12
Nozzle connection		1/4" quick coupling	1/4" quick coupling	
Size	H 910 mm, W 480 mm, L 640 mm	H 910 mm, W 480 mm, L 640mm	H 910 mm, W 480 mm, L 640mm	H 280 mm, W 300 mm, L 510 mm
Weight	39 kg	20 kg	10 kg	15 kg
Length of shaft (cleaning axis)	20 m	15m	20m	accessory (2-20m)
Accessories	mechanical centering device, hand controller	Y-gear, mechanical centering device, spray bottle, nozzles	mechanical centering device, spray bottle, nozzles	mechanical centering device, hand controller



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