

LIFA AIR[®]

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.



Lifa Hydmaster 40

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 230V) 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 115 cm.



Optional video camera system for guidance and inspecting

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

40m flexible yet extremely durable cleaning shaft

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

Pneumatic rotation control, forward and reverse

Easy to move and lift

Solutions for Indoor Air Quality

www.lifa.net

Lifa CombiClean 40



Lifa CombiClean 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

Lifa Special Cleaner 30 PE

The Lifa Special Cleaner 30 PE is an electrically powered ventilation duct cleaning machine

- The number one professional choice for cleaning middle-size \varnothing 20–100 cm ducts
- 30 m cleaning shaft, three layer cover
- Variable brush speed ranging from 300 to 700 rpm
- Compact, relatively lightweight machine with a good torque
- Safe pneumatic 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 Special Cleaner 30 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.



Lifa SpecialCleaner 20 PE

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

- The professional duct cleaner's first choice
- For ducts ranging from 7 to 50 cm, 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 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

Lifa 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

	Hydmaster 40	SpecialCleaner 30 PE	Special Cleaner 20 PE
Source of Power	Hydraulic pump / electricity	Electricity	Electricity
Operating voltage	230V or 115V, single phase	230V or 115V, single phase	230V or 115V, single phase
Frequency	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz
Motor	1,1 kW / 1,5 HP	0,55 kW / 0,7 HP	370 W / 0,6 HP
Required fuse	16A	10A / 15A	10A
Frequency converter	Yes	Yes	Yes
Needed air volume			
Maximum torque	10 Nm	7 Nm	4 Nm
Brush speed	0–800 rpm / frequency converter	300–650 rpm	300–600 rpm
Control system	Pneumatic pedal, frequency converter	Pneumatic pedal, frequency converter	Pneumatic pedal, frequency converter
Change of rotation	Yes	Yes	Yes
Brush adapter type	M12	M12	M12
Nozzle adapter type			
Dimensions	1290 x 570 x 1100 mm	1290 x 570 x 1100 mm	970 x 480 x 640 mm
Weight	80 kg	50 kg	30 kg
Length of the shaft	40 m	30 m	20 m
Accessories	Brushes, mechanical centering device, video system, Y-Gear	Brushes, manual steering, centering device, Y-Gear	Brushes, manual steering, flexible brush adapter, centering device, T-Gear

	Special Cleaner 2	CombiCleaner 40	AirJet Combi 20
Source of Power	Electricity	Compressed air	Compressed air
Operating voltage	230V or 115V, single phase		
Frequency	50 Hz or 60 Hz		
Motor	250 W / 0,4 HP		
Required fuse	10A		
Needed air volume		300–600 l/min, 7–10 bar	100–600 l/min, 7 bar
Maximum torque	3 Nm	5 Nm	
Brush speed	300–600 rpm	0–700 rpm/air valve	
Control system	Pneumatic pedal, frequency converter	Manual/air valve	Manual/air valve
Change of rotation	Yes	Yes	
Brush adapter type	M12	M12	
Nozzle adapter type		nozzles	plug
Dimensions	280 x 300 x 515 mm	1290 x 570 x 1100 mm	970 x 480 x 640 mm
Weight	15 kg	40 kg	10 kg
Length of the shaft	Accessory, 2–20 m	40 m	20 m
Transport case	Aluminium/plywood		
Accessories	Shafts, brushes, manual steering, flexible brush adapter, centering device	Brushes, pneumatic or mechanical centering device, hydrovane compressor 4 kW	Nozzles, centering brushes, centering device

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