

Lifa Air machines for HVAC duct and industrial process pipeline cleaning

Industry-leading solutions since 1988



The machines are robust and built from best possible components in order to ensure maximum efficiency and profitability to our customers



Before After

Industrial exhaust ducts and process pipes

Industrial processes always cause various by-products and contaminants which need to be removed from exhaust systems and/or process pipelines regularly. Clean and functional exhaust/pipeline system also prevents fire hazards, cross-contamination and reduces energy consumption. Cleaning done with Lifa Air dry removal method saves both time and usage of chemicals and water, thus resulting into more economic and environmental friendly result.

Recommended equipment:

- CombiCleaner 40
- CombiCleaner 15
- Hydmaster 40
- Special Cleaner 25 Multi
- DuctControl Cleaning Robot

Hydmaster 40

Electric-hydraulic brushing machine for 40-120cm ducts



Reference examples:

- Food processing
- Automotive manufacturing
- Wood, paper and pulp industries
- Medicine and other clean room technologies



Before After

Kitchen Exhaust Grease

Grease accumulation in exhaust ducts is a fire danger which can cause the whole building to be damaged. Therefore ducts need to be cleaned regularly – as per how many hours kitchen is used per day – in order to keep this accumulation = threat in minimum at all times. Clean and functional exhaust system also prevents odours and heat rise from escaping to other areas.

Recommended equipment:

- CombiCleaner 40
- CombiCleaner 15
- Hydmaster 40
- Special Cleaner 25 Multi
- Extra strong driller shafts

CombiCleaner 40

Pneumatic brushing machine for 40-120cm ducts



Reference examples:

- Hamburger restaurants (all global brands, all over the world)
- Hotel kitchens (all global brands, all over the world)
- Pizzerias



Before

After

Commercial multi-storey buildings

HVAC systems in commercial buildings need to be regularly inspected and cleaned in order to keep the building - and its occupants - healthy. Unfortunately due to lack of maintenance and energy savings ventilation systems actually are too often the very cause for Sick Building Syndrome (SBS) and Building Related Illness (BRI).

Recommended equipment:

- CombiCleaner 40
- CombiCleaner 15
- Hydmaster 40
- Special Cleaner 25 Multi
- DuctControl Cleaning Robot

SpecialCleaner 25 Multi
Electric brushing machine
for 25-80cm ducts



Reference examples:
Hospitals
Office buildings
School and kinder gartens
Residential blocks of flats



Before

After

Residential houses

Dryer vents is by far the greatest risk of fire in relation to HVAC in residential houses. Secondly, kitchen exhaust ductwork. However, in long term, dust accumulated in ducts, heat exchangers etc. will be the source microbial growth (mold/mildew) and/or increase the amount of energy usage.

Recommended equipment:

- CombiCleaner 15
- Special Cleaner 20
- Driller shafts

Special Cleaner 20
Electric brushing machine
for Ø 10-40cm ducts



Reference examples:
Single houses
Terraced houses

Technical Information

	LARGE DUCTS				SMALL DUCTS		
	Hydmaster 40	CombiCleaner 40	SpecialCleaner 25 Multi	DuctControl Cleaning Robot	SpecialCleaner 20	CombiCleaner 15	AirJet Combi 20
Operating power	Electric - Hydraulic	Compressed air	Electricity	Compressed air (brush) + electricity (driving)	Electricity	Compressed air	Compressed air
Operating voltage and frequency	240 VAC (or 110-120 VAC), 1~, 50/60 Hz	--	240 VAC (or 110-120 VAC), 1~, 50/60 Hz	12 VCD	240 VAC (or 110-120 VAC), 1~, 50/60 Hz	--	--
Motor	1,1 kW (1,5 HP)	0,4 kW (0,6 HP)	0,75 kW (1,0 HP)	0,11 kW (0,15 HP)	0,37 kW (0,5 HP)	0,11 kW (0,15 HP)	--
Fuse	16 A	--	10 A	5 A	10 A	--	--
Max torque	10 Nm (7.4 ft.-lb)	6,5 Nm (4.8 ft.-lb)	5 Nm (3.7 ft.-lb)	3 Nm (2.2 ft.-lb)	5 Nm (3.7 ft.-lb)	3 Nm (2.2 ft.-lb)	--
Brush connection	M12	M12	M12	M12	M12	M12	--
Duct size recommendation	400 – 1200 mm (9.8 - 47.2")	400 – 1200 mm (9.8 - 47.2")	250 – 800 mm (9.8 - 27.6")	200 – 600 mm (8.0 - 23.6")	100 – 400 mm (3.9 - 6.3")	160 – 600 mm (6.3 - 23.6")	--
Brush rotation speed	Continuous adjustment, 225 - 880 rpm	Continuous adjustment, max. 670 rpm	Continuous adjustment, 225-580 rpm	Continuous adjustment, max. 1000 rpm	Continuous adjustment, 225-580 rpm	Continuous adjustment max. 1000 rpm	--
Rotation controls	Foot pedal, remote hand control	Manual / Air valve	Foot pedal, remote hand control (accessory)	Manual / Air valve	Foot pedal, remote hand control (accessory)	Manual / Air valve	--
Nozzle connection	--	Quick coupling	Quick coupling	Quick coupling	--	Quick coupling	Quick coupling
Air volume consumption	--	400 l/min (14 CFM), 7 bar	Nozzle type dependant	340 l/min (12 CFM), 7 bar	--	340 l/min (12 CFM), 7 bar	100 - 600 l/min (3.5-21 CFM), 7 bar
Measurements [mm]	H1290 (50.8") L1100 (43.3") W570 (22.4")	H1290 (50.8") L1100 (43.3") W570 (22.4")	H1290 (50.8") L1100 (43.3") W570 (22.4")	H190 (7.5") L410 (16.1") W280 (11")	H910 (35.8") L640 (25.2") W480 (18.9")	H910 (35.8") L640 (25.2") W480 (18.9")	H910 (35.8") L640 (25.2") W480 (18.9")
Weight	93 kg (205 lbs)	45 kg (99 lbs)	71 kg (157 lbs)	8 kg (18 lbs)	38 kg (84 lbs)	17 kg (37 lbs)	15 kg (33 lbs)
Cleaning shaft	40 m (131.2 ft.)	40 m (131.2 ft.)	25 m (82 ft.)	25 m (82 ft.) (driving cable)	20 m (65.6 ft.)	15 m (49.2 ft.)	20 m (65.6 ft.)
Accessories	Y-gear, 3-brush-gear, mechanical centering device, hand controller	Y-gear, 3-brush-gear, pneumatic centering device, hand controller	Y-gear, mechanical centering device, hand controller, spray bottle, nozzles	Y-gear, 3-brush-gear, spray bottle, nozzles	Mechanical centering device, hand controller	Y-gear, 3-brush-gear, mechanical centering device, spray bottle, nozzles	Mechanical centering device, spray bottle, nozzles

Cables / shafts, 4 types

Powered by: electrical drill. Length: 3 / 6 / 9 / 12 m

Lifa Air is one of the few manufactures to have ISO 9001 quality and ISO14001 environmental standards and has also developed in cooperation with Finnish Technical Research Centre VTT several new advanced methods for problems previously thought to be impossible.



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