



**QUOTATION**

QTN/CS/MR/1077  
March 16, 2020

CHINA CONTRACTION  
ABU DHABI  
UNITED ARAB EMIRATES

We thank you for your interest in our services and we are pleased to submit the following commercial proposal:

**Subject:**

AC Duct Cleaning & Sanitization Commercial Proposal.

**Work Location:**

Marina Bay 02- C3 Tower, Flat No- 409

**SCOPE OF WORKS:**

1. AC Duct Cleaning

- 01 FUC
- 01 Duct
- 02 Grills
- 01 Bathroom Fan

1. The duct work will be cleaned by means of power-whip rotating brush technique and compressed air blasting and a powerful vacuum extracting unit equipped with high efficiency HEPA filters.

2. To thoroughly internally clean the mentioned duct system. Agitating (brushing) & Extracting and/or Contact Vacuuming the internal duct system to all accessible areas using relevant equipment's.

3. All relevant in the corridor will be removed washed dried and re-installed.

5. To install access components as required carrying out the cleaning and inspection verification on an initial and ongoing basis.

6. A comprehensive report with photographs of the condition of the duct before and after the cleaning will be provided.

**Exclusions:**

1. Any or all services which are not expressly stated and specified in this offer
2. De-rusting of any part on ductwork
3. Any or all fragile flexible ducts
4. Repair of any previously damaged internal insulation material.

- To provide 220/380V, single/three phase power supply, Water supply as required.
- To provide access to locations.
- To provide a store facility.

**COMMERCIAL PROPOSAL:**

**The total price for AC Duct Cleaning is AED 1250.00/Cleaning.**

**Mobilization:**

To be mutually agreed.

**Insurance:**

We carry Third Party Public Liability as well as workmen's compensation.

**Validity:**

Our proposal is open for your acceptance, for 30 days only.

**Certificates:**

Certificates will be issued within 7 working days including reports, photographs.

Yours sincerely,

**Crystalline Environmental Services**



Murugaraaj

Mob: +971 565065816



## **Air Duct Cleaning & Sanitation**

### **"Responsible for Every Breath"**

#### **To create high-quality breathing environment for every family**

AC Duct system is a natural breeding place and a favorable habitat to a variety of contaminants such as mold, fungi, bacteria, and very small particles of dust that have the potential to affect health. If not properly installed, maintained or operated, HVAC systems can also become contaminated with particles of dust, pollen, or other debris.

The concept of "Indoor Air Quality" becomes important as it can impact the health, comfort, general well-being, and productivity of the occupants of the building. The concept of "Indoor Air Quality" as well as indoor pollutants is very new to several people and being new, is quite hard to understand. In addition to this, in UAE generally spend 90% of their time indoors, at home or office environment.

Crystalline offers a comprehensive AC cleaning & sanitation of your AC system including Evaporator Coils, Drainage Tray and pipes, Filters, Duct system and Air vents. We are specialized in AC Duct Cleaning & our staff is professionally trained for AC Duct Cleaning and sanitation.

We use Lifa's duct cleaning solutions following the standards set by EVHA (European Ventilation Hygiene Association) and NADCA (National Duct Cleaners Association). We clean the AC duct with a wide range of brushing, air jetting and spraying machines that will fit any duct size to be cleaned. Our negative air machines and vacuum units ensure clean quality air. As well as, duct inspection cameras and tools to further enhance the quality of air you breathe.

# AC DUCT CLEANING & SANITATION



LIFAair®



## 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 (10" to 27") ducts
- 25 m (82 ft) 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 HepaClean 4000

**Certificated also for asbestos removal**

- Optimum suction power and airflow combination operating with single phase electricity for big projects.
- Maximum airflow without filters 4190 m<sup>3</sup>/h (2470 CFM)
- Static pressure 1350 Pa
- For ventilation duct cleaning, dust collection
- For air cleaning by using bag filter (F7) and/or Hepa filter
- For generating negative pressure in the working compartment
- Wide range of filters and accessories available
- Easy to handle, lockable wheels



**CRYSTALLINE**  
ENVIRONMENTAL SERVICES

# LIFA DuctControl

Clean indoor air is supplied through clean air ducts. In just a few years of use all supply and exhaust air ducts collect lots of dust, microbes and dirt. But kitchen and industrial extract air ducts can be a fire hazard after a couple of months only.

## Just look inside the ducts!

Before



After



### Lifa DuctControl

Lifa Air is specialized in developing and producing methods and equipment for inspecting and cleaning of ventilation and air-conditioning systems. Our inspection cameras can operate both in rectangular and round ducts, as well in vertical as in horizontal ones. The inspection visuals are immediately recordable. Camera equipment can also be used in guiding the cleaning devices during the cleaning process.



*Lifa DuctTruck robot camera shows the status of duct in full colour.*

### DuctControl Mini

Robotic video inspection camera set for horizontal ducts. Lightweight portable inspection package which includes everything needed for any inspection or HVAC visual survey job.

#### Set includes:

- Lifa DuctTruck mini tractor
- Portable field box
- TFT colour monitor
- Video cable 25 m
- Control box, with battery
- Joystick control box
- + LifaDrop camera (optional)



### DuctControl Manual

A portable inspection package for vertical and small horizontal ducts.

#### Set includes:

- LifaDrop camera
- Portable field box
- TFT colour monitor
- Video cable 25 m
- Control box, with battery
- Joystick control box
- + Fiber glass rod(s)
- + Easy upgrade to DuctControl mini by adding Lifa DuctTruck and joystick



# Customised DuctControl

## Lifa DuctTruck - for horizontal ducts

Robot camera unit for horizontal duct inspections. Easy to operate using joystick controls. Video footage monitoring on a display screen, or on a headset monitor.

- Built-in CCTV colour camera
- Wide angle lens
- Dimensions W 150 mm, L 180 mm, H 95 mm (wheels)
- State-of-the-art LED lights
- Minimum duct Ø 200 mm



## Joysticks

- Dual joysticks or
- Single stick joystick to keep the other hand free for feeding CCTV cable.
- Light adjustment knob



## LifaDrop - for vertical ducts

LifaDrop is a colour video camera for inspecting vertical and small horizontal ducts. It is operated dropping the camera connected with cable into the duct.

- Resolution 542 x 582



## TFT screen

Small size monitor for viewing the inspection or cleaning process

- Industrial quality
- Flat TFT display
- Size 7"
- Resolution 1440x234
- NTSC or PAL



## Video Grabber

Device for viewing and saving video on computer

- 720x576-PAL and 720x480-NTSC
- USB 2.0 connection



## Control Box

- Control cable 25 m
- Dual joystick control
- RCA video output for VCR or laptop PC (Video Grabber needed)
- Battery



## Accessories

**Glass fibre rod pair**  
item code: 6420281012365  
(start and end), 2 pcs; 1.75 m each (extendable with more pairs) for Drop Cam (diam. 6 mm, M 8 connection)

**Glass fibre rod**  
item code: 6420281024504  
extension pair 2 pcs; 1.75 m each (diam. 6 mm, M 8 connection)

## Accessories

### LifaComb

stainless steel wet film thickness gauge – measures the thickness dirt/grease, 25 micron accuracy

### Endoscope / Videostick

Visual Optics new video based inspection scope, gives you the latest in remote video technology.



### Lifa DuctCleaner Robot

Operation range from 20cm height ducts up to 70cm. Width of the cleaning robot is 24cm, weight only 8kg.

Accessory to DuctControl Mini camera robot: driving, video picture capture and light adjustment with the same control box. Pneumatic motor or rotating brush needs minimum of 200 l/min of compressed air at 6 bar. Optimum power with 340 l/min at 7 bar when possible to rotate 2 brushes at the same time with Y-gear.





**AC DUCT CLEANING**

**BEFORE**



**AFTER**



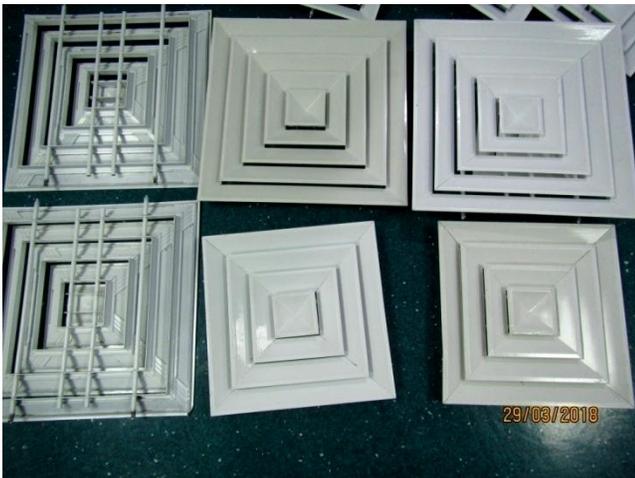


**AC DUCT CLEANING**

**BEFORE**



**AFTER**





**AC DUCT CLEANING**

**BEFORE**



**AFTER**



**AC DUCT CLEANING**

**BEFORE**



**AFTER**





**AC DUCT CLEANING**

**BEFORE**



**AFTER**





**AC DUCT CLEANING**

**BEFORE**



**AFTER**





**AC DUCT CLEANING**

**BEFORE**



**AFTER**





**AC DUCT CLEANING**

**BEFORE**



**AFTER**





**BEFORE**



**AFTER**





**AC DUCT CLEANING**

**BEFORE**



**AFTER**





**AC DUCT CLEANING**

**BEFORE**



**AFTER**

