

## Specifications

### Floor Mounted Chamber Unit

Height:	62" plus horizontal inlet size
Width & Depth:	1.6 sq. ft./1000 cfm
Static Pressure Loss:	0.40" to 0.60"
Velocity in Chamber:	800 to 900 fpm
Shipping Weight:	500 to 1400 lbs.
Operating Weight:	520 to 1440 lbs.
Fan Motor Size:	1/2 to 5 hp

### Number of 1.3 gph Nozzles

1000 to 2500 cfm:	2 nozzles
2600 to 5000 cfm:	4 nozzles
5100 to 8000 cfm:	9 nozzles

### Utilities

Fan Electrical 1/2 hp:	120V, 1Ø, 60 hz, 10 amp
1-1/2 to 2 hp:	220V, 1Ø, 60 hz, 10-15 amp
3 to 5 hp:	460V, 3Ø, 60 hz, 6-12 amp
Feed System Water:	4 gpm, 45 psi, Potable
Drain:	Sanitary Floor Drain

### Operating Costs

Chemical Costs/cfm/year:	\$0.50 to \$1.00
Fan Electrical Usage 1/2 hp:	1.03 kw/h
1-1/2 to 2 hp:	1.89 to 2.84 kw/h
3 to 5 hp:	4.10 to 8.21 kw/h



## Applications - 1,000 to 8,000 cfm

### Municipal Wastewater Sites

- Enclosed Headworks Areas
- Enclosed Lift Station Wet Wells
- Enclosed Sludge Dewatering Areas
- Enclosed Sludge Storage Areas
- Enclosed Grit and Screening Areas

### Industrial Sites

- Enclosed Solid Waste Receiving Areas
- Enclosed Solid Waste Processing Areas
- Industrial Exhaust Systems

### Companion Chemical Feed System

- Mist Pro® Chemical Feed and Dilution System
- Series 950 Chemical Feed and Dilution System

## System Overview

The QCID™ system provides both ventilation and odor control for point source areas. QCID™, which stands for "Quick-Contact-In-Duct" features a contact time of 0.3 seconds. The system has the smallest footprint of any comparably sized odor control system and is an excellent choice when space is limited. This system is designed to use NuTech's Chi-X® or DeAmine™ Odor Eliminators. The targeted odors are oxidized organic odors for applications with fairly consistent odor loading.

Seasonal variation in ventilation requirements is accommodated by the use of a two-speed or variable speed fan motor. Fabricated from stainless steel, the QCID™ system can be supplied in sizes from 1,000 to 8,000 cfm for situations where the total static pressure requirement is 3.5" or less. Custom designed, the QCID™ is built to handle any needed air inlet and outlet configuration. Systems are typically floor mounted, however; mounting options are available to fit the site. Installation costs average 10 to 20% of the capital costs.

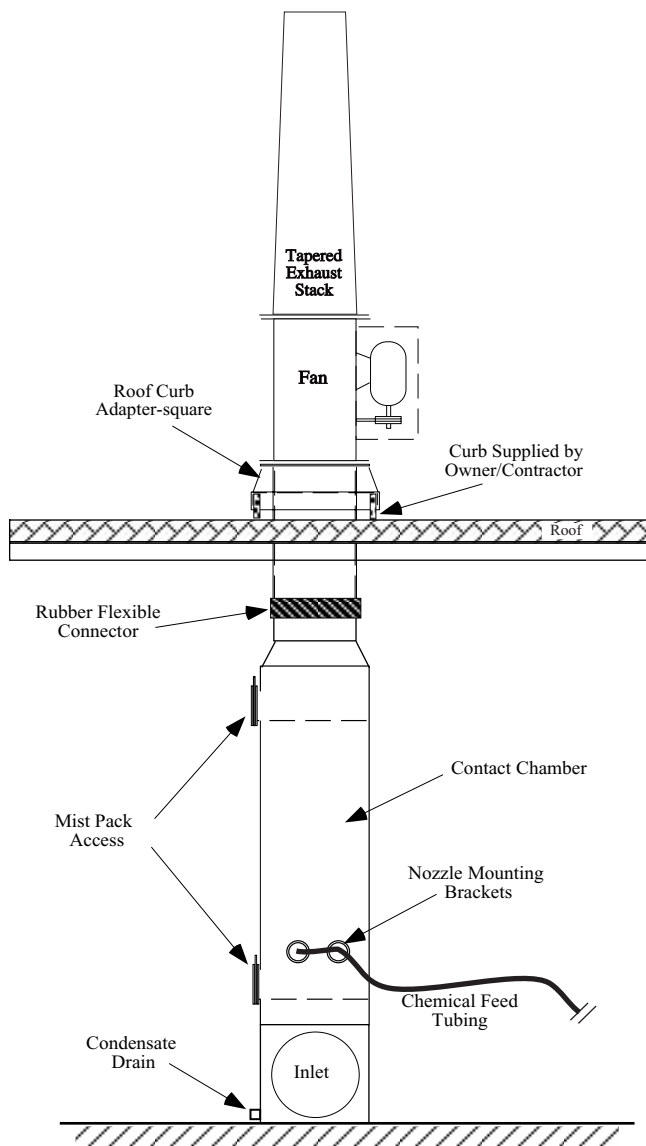
With a QCID™, NuTech guarantees odor reduction at the discharge stack to 200 odor units or less (D/T), with Butanol intensity of 3 or less. Butanol intensities as low as 1 are possible. Effectiveness on hydrogen sulfide is limited to 1 ppm. If H<sub>2</sub>S levels exceed one ppm, companion treatment for H<sub>2</sub>S should be considered.

*Technical Experts in Odor Control*

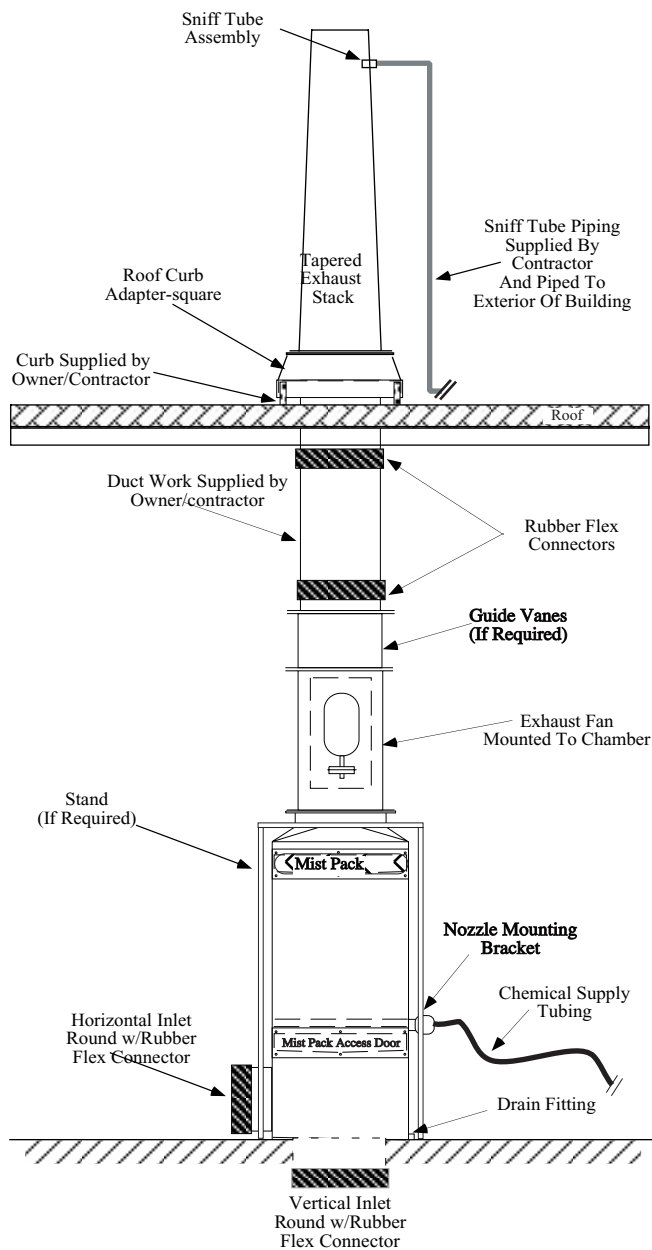


## QCID™ Typical Installations

**Fan Mounted On Roof Curb Adapter**



**Fan Mounted On Chamber**



## QCID™ Ventilated Odor Control System Components

### Fan and Motor

- • In-line Axial, FRP, Sized by cfm requirement
- □ - Guide Vane—when required
- • TEFC Motor—1/2 to 5 hp
- • Flanges, Rubber Connectors and Mounting Hardware

### Control Panel

- • Nema 4X, FRP or Polycarbonate Construction
- • Panel Disconnect for 220V and 460V Panels
- • Motor Controls
- • Chemical Feed System Controls
- • Optional Items
  - □ - Day Timer
  - □ - Photohelic Pressure Differential Switch
  - □ - Additional Panel Tie-ins

### Chamber

- • Stainless Steel Chamber
- □ - Horizontal or Vertical Inlet—site specific
- □ - Horizontal or Vertical Outlet—site specific
- □ - Mounting Design—site specific
- • SS Nozzle Mounting Brackets—union mounted
- • Force Packs (2)—mist eliminators to 40 microns
- • Inlet and Discharge Rubber Connectors and Hardware
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### Optional Items

- • Discharge Stack—stainless steel or fiberglass
- • Roof Curb Adapter—stainless steel
- • Chamber/Blower Stand, stainless steel—when required