



Exhaust Gas Conditioning (EGC) System

Wet Scrubber and Neutralization Systems

Many processes require the use of hazardous gases which can be flammable, toxic, corrosive, or pyrophoric. Industry standards and government regulations mandate the proper treatment of process effluent gases prior to release.

CVD's EGC systems provide automated handling of hazardous gases. We have taken extensive measures to provide fail-safe designs and combine them with forward thinking features in an effort to offer a versatile product for waste gas treatment.

The EGC systems removes particles from the exhaust stream, reacts moisture-sensitive and air-sensitive exhaust byproducts with water and oxygen in a controlled way, and cools the exhaust gases prior to exiting the system. An optional pH monitoring system can neutralize the scrubbing solution.

Integrated System



Models EGC405, EGC605, EGC805, EGC1005, and EGC1505, are integrated with our CVD system CVDwinPrC™ control software.

Standalone System



EGC405S, EGC605S, EGC805S, EGC1005S, and EGC1505S, are standalone models with a PLC control system and touchscreen display.

Touchscreen Display

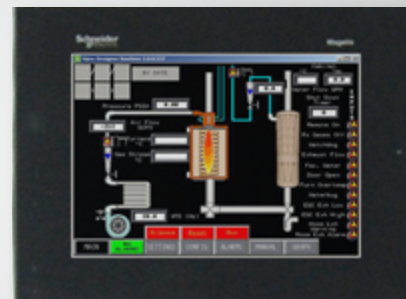
Terminal Type: Touchscreen Display

Display Type: Backlit Color TFT LCD

Display Size: 10.4 inch

Display Resolution: 640 x 480 pixels VGA

Touch Sensitive Zone: 1024 x 1024



EGC System Features

- Nitrogen flow meters to purge line
- Nitrogen shut-off valve
- Emergency off (EMO)
- Audible and visual alarms
- System power on/off switch
- System reset button
- Water spray packed tower
- Water recirculation system to conserve water usage
- Automatic PLC system control with touchscreen display (standalone models)

Treatable Chemistries

- Boron Tribromide (BBr_3)
- Boron Trichloride (BCl_3)
- Chlorine (Cl_2)
- Fluorine (F_2)
- Hydrogen Bromide (HBr)
- Hydrogen Chloride (HCl)
- Hydrogen Flouride (HF)
- Ammonia (NH_3)
- Many Others

Cabinet Dimensions (inches)

MODEL	HEIGHT	DEPTH	WIDTH
EGC 405(S)	72"	30"	30"
EGC 605(S)	72"	30"	30"
EGC 805(S)	83"	37.25"	38.25"
EGC 1005(S)	83"	37.25"	38.25"
EGC 1505(S)	83.5"	41"	48"

EGC System Options

- Water recirculation system
- Drain pump
- Closed loop pH neutralization

Interlocks

- Water flow switch with indicator
- Air flow switch with indicator
- Over temperature protection
- pH lower and upper warning and alarm (optional)
- Signal outputs available to interface with process tools, gas cabinets, and facility alarm systems

Send us your individual gas flows as well as any vacuum pump nitrogen ballast and we will size the EGC Wet Scrubber system for your process needs. Facility requirements and footprint will be provided once the system has been sized.



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