CHEMINDUSTRIAL LAB NEUTRALIZER questionnaire

Instructions:
ChemIndustrial makes a full range of automatic and semi-automatic neutralizers for lab wastes. Prices are highly dependent on configuration, capacity and degree of automation.

This **LAB NEUTRALIZER** questionnaire will help you define your own project requirements and it will provide ChemIndustrial with the information needed to provide a realistic price.

Complete a separate questionnaire for each neutralizing system needed on your project. Use attachments as needed to give us comprehensive information.

Need help with this questionnaire? Call, fax or e-mail us using the contact information at the bottom of this page.

Customer company:

Customer contact:
Person:
Title:
Address 1:
Address 2:
Phone:
Fax:
e-mail:

Customer project name:

Customer project location:

Previous system:
Will this system replace another system:
YES NO

If YES, please provide a short description of the prior system.

If YES, why is the prior system being replaced?

Select degree of automation required in the new system:

Automatic pH control only

Liquid to be treated will be added manually to the neutralizer

Neutralized liquids will be drained manually

Full automation

Automatic pH control

Liquid to be treated will arrive via pipework

Neutralized liquids will pump out automatically

Other:

Please describe:

Help us with configuration

Describe the Lab facility. Is it	EXISTING	NEW
Is the lab in one building?	YES	NO
Is the lab on:	A SINGLE FLOOR	SEVERAL FLOORS?
Are lab wastes completely separated from other streams that don't require neutralization?	YES	NO
Does lab waste exit via one outflow?	YES	NO
Is neutralizer location already designated?	YES	NO
Can lab waste gravity flow to the location?	YES	NO
Is the selected location close to the waste outflow point?	YES	NO

How much installation space is available

Length= Width= Height=

Help us size the system:

Lab schedule:

Lab mainly operates 8 hours per day	YES	NO
Significant operations outside the 8 hour day?	YES	NO

How much liquid do you need to neutralize?

maximum quantity per minute:	Liters	Gallons
maximum quantity per 24 hours:	Liters	Gallons

If no volumetric information is available, provide a description of the lab waste sources:

How many sinks?

How many continuous streams such as rinsing, cooling, etc?

List and quantify other liquid lab waste sources needing treatment:

Help us select the right chemical feed sub-system:
What is the acceptable range of pH values at the outflow of the new system?
pH 6.0 to pH 9.0?
Other (specify):

Will your wastes be acidic some or all the time? YES NO
What neutralizing agent will we use when the waste stream is acidic?
50% NaOH
Other (please describe)
Will your wastes be basic at least some or all the time? YES NO
What neutralizing agent will be used when the waste stream is basic?
Concentrated H2SO4
Other (please describe)

Characteristics of liquids to be treated:

Clean Liquid Liquid with suspended solids Slurry

Describe constituents that require neutralization:

Temperature range of liquids to be treated
Minimum: = ^{0} Maximum = ^{0} ^{0}F or ^{0}C

Viscosity of liquid to be treated (provide value if known):
Or is like (describe by marking scale): Water Motor Oil Molasses

Density or Specific Gravity of liquid to be treated:

Expected Quantity per hour:
Minimum: = Normal = Maximum = Units

Expected Quantity per 24 hour day:
Minimum: = Normal = Maximum = Units

Help us understand your available utilities:
What electric service is available?

Circle available services	60Hz	50Hz
Single-phase	120Vac 220Vac	220Vac
Three-phase	208Vac 240Vac 480Vac 575Vac	220Vac 380Vac 415Vac

Are there special electrical requirements? YES NO
Explosion proof
Other

Is compressed air available? YES NO

Help us understand the logistics of your project:
When do you expect to go ahead with this project?

Who will design the piping and electrical connections?

Who will install the system?

Who will commission the system?

Who will operate the system?

Does the designated operator have experience with automated process systems?

Other Notes:
Please provide any other information relevant to this project: