

Factors to Define Bleach Production and Equipment Needs

Please review the comments and questions below. This information must be provided to help us design and price the Powell bleach production system. After we receive this information we can provide preliminary flow sheets and a typical layout for discussion. Please use the reference numbers on this form to locate more information in each subject head on the corresponding sheet.

Company Name: Contact Person:

Mailing Address: City:

State: Zip: e-mail:

Shipping Address:

Phone: Fax:

Company description and experience level in sodium hypochlorite, i.e. bleach?

Note: 2 ways to produce bleach: (1)From chlorine and caustic (2)From Brine cells and electrolysis.

System Requirements

Type of Project:

- Entering Market
 Replacement of Existing Process
 Expansion

Bleach Market

(1) Where will the bleach be sold?

- Industrial
 End User

Bleach Strength

Bleach Strength: % by weight

Adjustable by operator: 3% - 16.58 by weight sodium hypochlorite

Bleach Skid Location

- Inside
 Outside

Highest Temperature F° C°

Lowest Temperature F° C°

Shipping Port:

Bleach Flow Rate

(2) Maximum bleach flow rate in US gallons per minute of **highest** strength of bleach desired?

US gallons

Maximum bleach flow rate in US gallons per minute of **lowest** strength of bleach desired?

US gallons

Our bleach plant can be adjusted from 0.2 to 1.5%, normally using the ORP controller on the system. If you need to have lower or higher excess sodium hydroxide, it can be done easily with minor equipment changes.

Highest desired excess sodium hydroxide?

% by weight

Lowest desired excess sodium hydroxide?

% by weight

Raw Materials

(3) What type of chlorine will be used?

Liquid Chlorine

What is the pressure of the liquid chlorine in the system or from the storage vessel?

psig (pounds per square inch)

Note: If liquid chlorine is to be supplied out of vessels without external air or nitrogen pressurizing systems, the temperature of the storage vessel will determine the pressure. Therefore, if the pressure is unknown please state "unknown".

What is the highest ambient temperature the storage vessel will experience?

Gas Chlorine

For approximate pricing of the equipment please fill out all the information possible and mark as "Unknown" in the space you can not answer.

Pressure? psig

Density of the vapor chlorine at operating pressure and temperature?

pounds per cubic feet at operating pressure.

Temperature?

Type of Gas Chlorine?

Wet Dry

Gas Stream Composition?

Caustic Soda

(4) What type of caustic soda will be used?

Membrane

Diaphragm

Mercury

Water

(5) What type of water is available?

Well Water Hardness

City Water Hardness

Soft Water

Denineralized Water

Cooling Water Service Available?

Yes No



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