

# Flue Gas Desulfurization

## Specification Sheet (Metric Units)

### Contact Information

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Country \_\_\_\_\_  
Email \_\_\_\_\_  
Phone \_\_\_\_\_  
Your Reference No. \_\_\_\_\_

### End User Contact Information

End User Company \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Country \_\_\_\_\_

Inquiry Date \_\_\_\_\_  
Date Quotation Required \_\_\_\_\_  
Date Equipment Required \_\_\_\_\_  
☐ Firm Price ☐ Budget Price

New or Existing Vessel?<sup>1</sup>    New    Existing  
Unit \_\_\_\_\_

Scrubber No. \_\_\_\_\_  
Scrubber Name \_\_\_\_\_  
Existing Scrubber I.D.<sup>1</sup> (mm) \_\_\_\_\_  
Manhole / Column Access I.D. (mm) \_\_\_\_\_

Welding Permitted?	Weld To Tower Shell	Weld To Tower Attachments	No Welding Permitted
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### Gas Data

	Normal Operating Case	Maximum Operating Case	Minimum Operating Case
Gas Flow Rate (kg/h)	_____	_____	_____
Gas Pressure (bar abs)	_____	_____	_____
Gas Temperature (°C)	_____	_____	_____
Density (kg/m <sup>3</sup> )	_____	_____	_____
Viscosity (cP)	_____	_____	_____

### Liquid Data

Liquid Flow Rate (kg/h)	_____	_____	_____
Liquid Pressure (bar abs)	_____	_____	_____
Liquid Temperature (°C)	_____	_____	_____
Density (kg/m <sup>3</sup> )	_____	_____	_____
Viscosity (cP)	_____	_____	_____

### Feed Characteristics

Are any solids present?    Yes, soluble in entrained liquid    Yes, non-soluble    No  
Composition \_\_\_\_\_  
If yes, concentration (mass %) \_\_\_\_\_    Molecular Weight (kg/kmol) \_\_\_\_\_

### Operating History of Existing Column

Describe the history of fouling and performance of the FGD Unit

### Mist Eliminator Design

Proposed Material of Construction for this Project \_\_\_\_\_

### Performance Required

Desired Efficiency Objective \_\_\_\_\_  
Maximum Allowable Pressure Drop in H<sub>2</sub>O \_\_\_\_\_  
Other Performance Needs \_\_\_\_\_  
Remove \_\_\_\_\_ % at \_\_\_\_\_ micron

**Relevant drawings must be submitted and can be used in lieu of completing this page.**

## Process Data

### General

FGD System Supplier	_____	Reagent Type	_____
Absorption Device	_____	Number of Absorbers	_____
Process	_____		_____
First Stage ME Type	_____	Second Stage ME Type	_____
Absorber Diameter (mm)	_____		_____
Duct Size (mm)	_____	Hold-Down Description	_____
Number of Support Beams	_____		_____
Width of Support Beam (mm)	_____		_____

### Mist Eliminator

Number of Stages	_____	Mist Eliminator Manufacturer / Style	_____
Number of Passes	_____		_____
Blade Spacing (mm)	_____		_____
Typical Module Dimensions (mm) (HxWxL)	_____		_____

### Mist Eliminator Wash System

Levels of Washing	_____	Available Wash Water (L/min)	_____
Location of Existing Wash Levels	_____		_____
Wash Cycles / Strategy	_____	Water Pressure (barg)	_____
	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>
Wash Rates (m <sup>3</sup> /h.m <sup>2</sup> )	_____	_____	_____
Number of Wash Sections	_____	_____	_____
Number of Nozzles	_____	_____	_____
Nozzle Manufacturer / Style	_____	_____	_____

<sup>1</sup> If vessel is existing, please provide vessel elevation, orientation drawing, and drawings of existing tower attachments (or Koch-Glitsch drawing number if applicable).

**Please provide any additional information that will help with your design and describe any documents you will send. Include relevant drawings of existing equipment so that we may design a compatible solution. Use more than one sheet if necessary.**

## Comments/Sketch