

# Questionnaire

## Gas – Washer (Absorber)

# CETEC

Type  
AAL

Group : 2.0  
Sheet : 2.0.4

Company / Address: \_\_\_\_\_

Name / Dept.: \_\_\_\_\_

Tel.: / Fax: / E-mail \_\_\_\_\_ / \_\_\_\_\_

1. Problem description: \_\_\_\_\_

### 2.1. Crude Gas (see also page 2)

Total flow rate \_\_\_\_\_ m<sup>3</sup>/h (norm m<sup>3</sup> incl. Moisture)  
Crude gas temperature / Exhaust gas temperature \_\_\_\_\_ °C/ \_\_\_\_\_ °C  
pH - Value \_\_\_\_\_  
Suck pressure for plant \_\_\_\_\_ mbar  
max. limit pressure vacuum \_\_\_\_\_ mbar

### 2.2. Crude gas flow rate:

Components		Concentration
1. Steam	_____ m <sup>3</sup> /h	_____ %
2. CO <sub>2</sub>	_____ m <sup>3</sup> /h	_____ %
3. Others	_____ m <sup>3</sup> /h	_____ %

Absorbate	Concentration	Particle dimension	Concentration
1. _____	_____ g/m <sup>3</sup>	0 – 1 Micron	_____ g/m <sup>3</sup>
2. _____	_____ g/m <sup>3</sup>	1 – 2 Micron	_____ g/m <sup>3</sup>
3. _____	_____ g/m <sup>3</sup>	2 – 3 Micron	_____ g/m <sup>3</sup>
4. _____	_____ g/m <sup>3</sup>	> 3 Micron	_____ g/m <sup>3</sup>

Which absorbent could be used / will use: \_\_\_\_\_  
density: \_\_\_\_\_ kg/m<sup>3</sup> /max. capacity: \_\_\_\_\_ kg/h

### 3. Operation:

waste air: continuo  / discontinue   
wash water / wash solvent: continuo  / discontinue   
operation time per day: \_\_\_\_\_ h.

### 4. Installation:

indoor  / outdoor   
available space (L x D x H) \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ m (drawing)  
max. load per sq. meter \_\_\_\_\_ kg/m<sup>2</sup>

### 5. Type / requirements / recommendations:

material: app. / conduit / seals: \_\_\_\_\_  
connection: (DIN / ASA.../ rated pressure): \_\_\_\_\_ / \_\_\_\_\_ bar

### 6. Available energy:

voltage / type of protection / Ex – class \_\_\_\_\_ V / \_\_\_\_\_ Hz / IP \_\_\_\_\_ / EEx \_\_\_\_\_  
compressed air / vacuum \_\_\_\_\_ bar min / \_\_\_\_\_ mbar  
cooling water; temp. / amount / pressure \_\_\_\_\_ / \_\_\_\_\_ °C max / min; \_\_\_\_\_ m<sup>3</sup>/h; \_\_\_\_\_ bar  
other energy forms:  
brine  / steam  / thermo oil  \_\_\_\_\_ / \_\_\_\_\_ °C max / min; ; \_\_\_\_\_ m<sup>3</sup>/h; \_\_\_\_\_ bar

-2-

Technical alternation possible 11-2015

**CETEC - GMBH**  
CHEMICAL EQUIPMENT AND TECHNOLOGY  
Quettinger Straße 289 + D-51381 Leverkusen

CHEMIE - & PILOT - PLANTS / - CONSULTING-  
Education / Training / Research / Production Plants  
Planning + Execution + Assembly + Commissioning

Phone :+49(0)2171/399247-0  
Fax :+49(0)2171/399247-9  
E-MAIL :info@cetec-gmbh.de

**Questionnaire**  
**Gas – Washer (Absorber)**



Type  
 AAL

Group : 2.0  
 Sheet : 2.0.4.1

-2-

at 2.1 Grude Gas

Table 1

No.	Substans name Chemical formula	Density kg/ m <sup>3</sup>	Boiling Point °C	Air Pollution (TA Luft)	Concentration in – mg/m <sup>3</sup> – out
2.1					
2.2					
2.3					
2.4					
2.5					

Carrier gas: N<sub>2</sub> , Air , Other.: \_\_\_\_\_ / \_\_\_\_\_ Nm<sup>3</sup>/h

Table 2

at	Heat capacity Vapour – KJ/kg K – Liquid	Heat of vaporisation KJ/kg	Melting point °C	Molecular weight kg/kmol	Subst. -* properties
2.1					
2.2					
2.3					
2.4					
2.5					

\*1=toxically / 2=sticky / 3=foams / 4=abrasiv / 5=sublimated / 6=explosively/ 7=aggressivly(argry / pH...) / 8=othres

Other Substances (Solids part.): \_\_\_\_\_

Technical alternations possible 11-2015