

## QUESTIONNAIRE CO<sub>2</sub>-RECOVERY PLANT

Please send this questionnaire back to:

**Buse Gastek GmbH & Co KG**  
**Sprudelstrasse 3, D-53557 Bad Honningen**  
**Tel.: 0049 2635 781 – 0**  
**Fax: 0049 2635 781 – 192**  
**E-mail : info@buse-gastek.com**

Company name: \_\_\_\_\_

Company address: \_\_\_\_\_

Company phone / fax: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Plant Location: \_\_\_\_\_

Address: \_\_\_\_\_

Height above sea level: \_\_\_\_\_ m

Capacity CO<sub>2</sub>-recovery plant: \_\_\_\_\_ kg/h

- Raw gas source:
- Brewery
  - Distillery
  - Chemical Industry
  - Natural Source
  - Dry Ice Production Source

Raw gas flow rate: \_\_\_\_\_ kg/h

Raw gas temperature: \_\_\_\_\_ °C

Raw gas pressure: \_\_\_\_\_ bar

For Brewery process we kindly ask you to enclose diagram of chronological fermentation sequence.

For Dry Ice process we kindly ask you to enclosed capacity / quantity of dry ice machines.

Raw gas composition (please enclose analysis if available):

CO <sub>2</sub>	_____	Vol-%	N <sub>2</sub>	_____	Vol-%
CO	_____	Vol-%	H <sub>2</sub>	_____	Vol-%
NO <sub>2</sub>	_____	Vol-%	CH <sub>4</sub>	_____	Vol-%
NO	_____	Vol-%	C <sub>2</sub> H <sub>6</sub>	_____	Vol-%
SO <sub>2</sub>	_____	Vol-%	C <sub>4</sub> H <sub>10</sub>	_____	Vol-%
SO <sub>3</sub>	_____	Vol-%	C <sub>5</sub> H <sub>12</sub>	_____	Vol-%
H <sub>2</sub> O	_____	Vol-%	C <sub>x</sub> H <sub>y</sub>	_____	Vol-%
O <sub>2</sub>	_____	Vol-%	Ethanol	_____	ppm v/v
Others	_____	Vol-%			

Purity of final product: \_\_\_\_\_ % CO<sub>2</sub>

**Steam:**

In case steam is available, it can be used for regeneration of activated charcoal filtering unit. Otherwise warm CO<sub>2</sub>-gas is used for this purpose.

Available steam for stripping of CO<sub>2</sub>: \_\_\_\_\_ kg/h

Steam pressure / temperature: \_\_\_\_\_ bar / °C

**Cooling water:**

Cooling tower to be included?  yes  no

Wet bulb ambient temperature: max. \_\_\_\_\_ °C

Dry bulb ambient temperature: max. \_\_\_\_\_ °C

Quality of make-up water => Please enclose analysis if possible.

**In case you are providing cooling water:**

Cooling water inlet temperature: \_\_\_\_\_ °C

Cooling water inlet pressure: \_\_\_\_\_ barg

Quality of cooling water =&gt; Please enclose analysis if possible.

Is there alternatively Glykol water available for cooling purposes?     yes     no

If yes, please advise the following details:

Glykol water temperature inlet: \_\_\_\_\_ °C

max. Glykol water temperature outlet: \_\_\_\_\_ °C

Unappropriated cooling capacities of your main cooling plant: \_\_\_\_\_ kW

**Electricity:**

Current:    Power voltage: \_\_\_\_\_ V

Control voltage: \_\_\_\_\_ V

Phases: \_\_\_\_\_

Cycles (hertz): \_\_\_\_\_ Hz

**Which accessories are required?**Capacity of CO<sub>2</sub>-storage facilities: \_\_\_\_\_ kgCapacity of CO<sub>2</sub>-evaporator: \_\_\_\_\_ kg/hCapacity of CO<sub>2</sub>-cylinder filling station: \_\_\_\_\_ kg/hCapacity of CO<sub>2</sub>-transfer pump unit: \_\_\_\_\_ kg/hCapacity of CO<sub>2</sub>-transportation tank: \_\_\_\_\_ kg

Further requirements / comments:

---

---