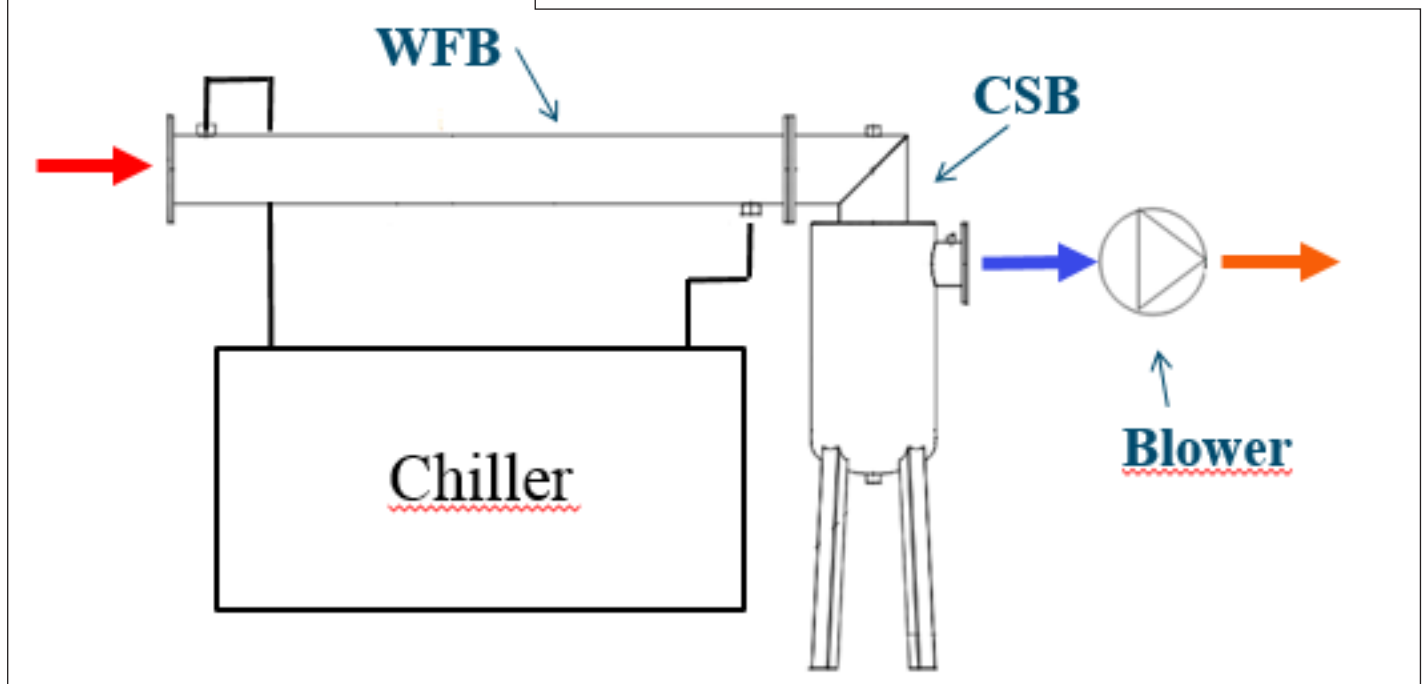


Check list for biogas product sizing

First Configuration:

water-cooled heat exchanger + separator + Chiller

Blower After Cooling System



Required sizing parameters:

- Gas composition (usually 60 % CH₄ / 40 % CO₂ for biogas from digester)
- Gas Flow Rate
- Gas Temperature at cooler inlet (usually 35 -> 40 °C for biogas from digester)
- Gas RH % at cooler inlet (usually 100 % for biogas from digester)
- Gas Pressure at cooler inlet (usually between 5 and 30 mbar for biogas from digester)
- Gas outlet temperature/dew point required (usually between 5 and 10 °C for biogas from digester)
- Max/Min Ambient Temperature
- Max pressure drop

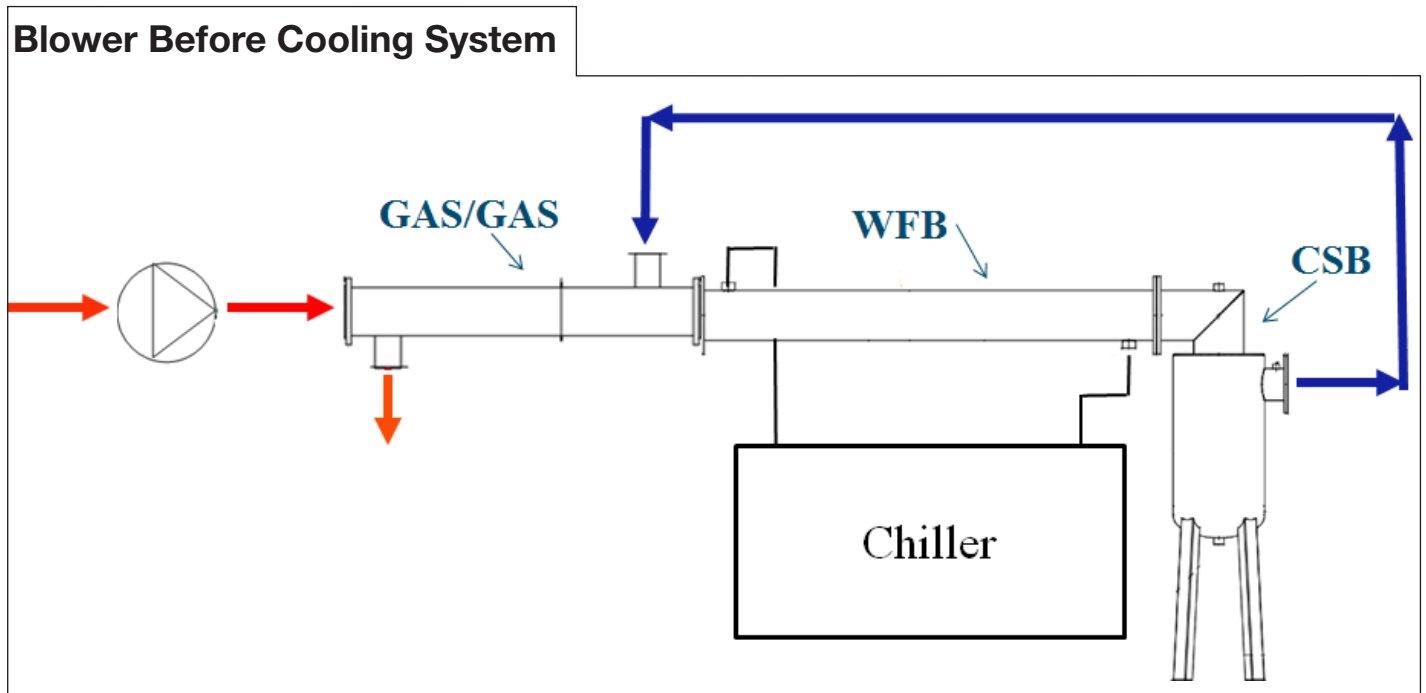
When this configuration is generally used:

- Suggested configuration for Waste Water treatment and Digester, where blower is generally installed after the cooling system, therefore it is possible to take advantage of the blower position to increase the Temperature of the gas and decrease its RH %;
- When it is necessary only to cool the gas down to the required outlet temperature;
- When we can direct the customer to install the blower after the cooling system.

Check list for biogas product sizing

Second Configuration:

gas/gas heat exchanger + water-cooled heat exchanger + separator + Chiller



Required sizing parameters:

- Gas composition (usually 50 % CH₄ / 45 % CO₂ for biogas from landfill)
- Gas Flow Rate
- Gas Temperature at cooler inlet*
- Gas RH % at cooler inlet*
- Gas Pressure at cooler inlet (usually between 75 and 200 mbar for biogas from landfill)
- Gas Dew point required
- Gas Outlet temperature or RH% required at the exit of the gas/gas
- Max/Min Ambient Temperature
- Max pressure drop

*if customer provides only temperature and RH % before the blower, we will estimate temperature and RH % at the inlet of the cooler.

When this configuration is generally used:

- When the blower is installed before the cooling system and a reheating (or a reduction in RH %) of the gas is required from the customer (typical landfill configuration)

EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre

Toll-free number: 1-800-27 27 537

www.parker.com/hzfd

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