

AERZEN

POSITIVE DISPLACEMENT BLOWERS

Aerzener positive displacement blower units
with three-lobe rotors and internal pulsation reduction -
now also for biogas / landfill gas



AERZEN

**AERZENER MASCHINENFABRIK
GMBH**

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Compression of bio- / landfill gases and other non-inert gases

The specific utilization of bio – and landfill gases contributes to reduce the emissions of gases which are dangerous for the climate by generating power. In block-type thermal power stations (BHKW) current is produced in gas motor – generator aggregates. The waste heat arising during combustion is supplied via heat exchangers to a further utilization. Concerning gas exhaust and admission pressure production for block-type thermal power station and flare unit, gas compressors are used. Aerzen gas units are designed for the conveyance and compression of landfill - and biogas as well as natural - or town gas. The blowers can be operated with differential pressures up to 700 resp. 1000 mbar depending on blower size and intake pressure.

Standard - scope of supply:

- **Blower stage**
with gastight sealing of the driving shaft,
(explosion-proof up to 12 bar with **TÜV - certificate**
or strength test by a hydrostatic test with 5 bar),
combined conveying chamber sealing for humid
landfill gas (option), special corrosion protection-
coating of the rotors and the conveying chamber
(option).
- **Base support with integrated discharge silencer**
dimensioned for operating overpressure 1 bar
(explosion-proof 12 bar)
- **Flexible machinery mountings** with fixing bolts
- **Hinged motor mounting plate**
as belt tensioning device
- **Belt drive** complete (narrow v-belts antistatic)
- **Belt guard** (spark-safe)
(in case of design with acoustic
hood hand guard)
- **Suction silencer**
dimensioned for operating
overpressure 0,1 / 1,0 bar
(explosion-proof 12 bar)
- **Non-return flap**
for installation between two flanges
- **Axial compensators**
suction - and discharge side
- **Starting strainer**
with intermediate ring
- **Driving motor**

Among others the following components are available in addition beside the described standard concept:

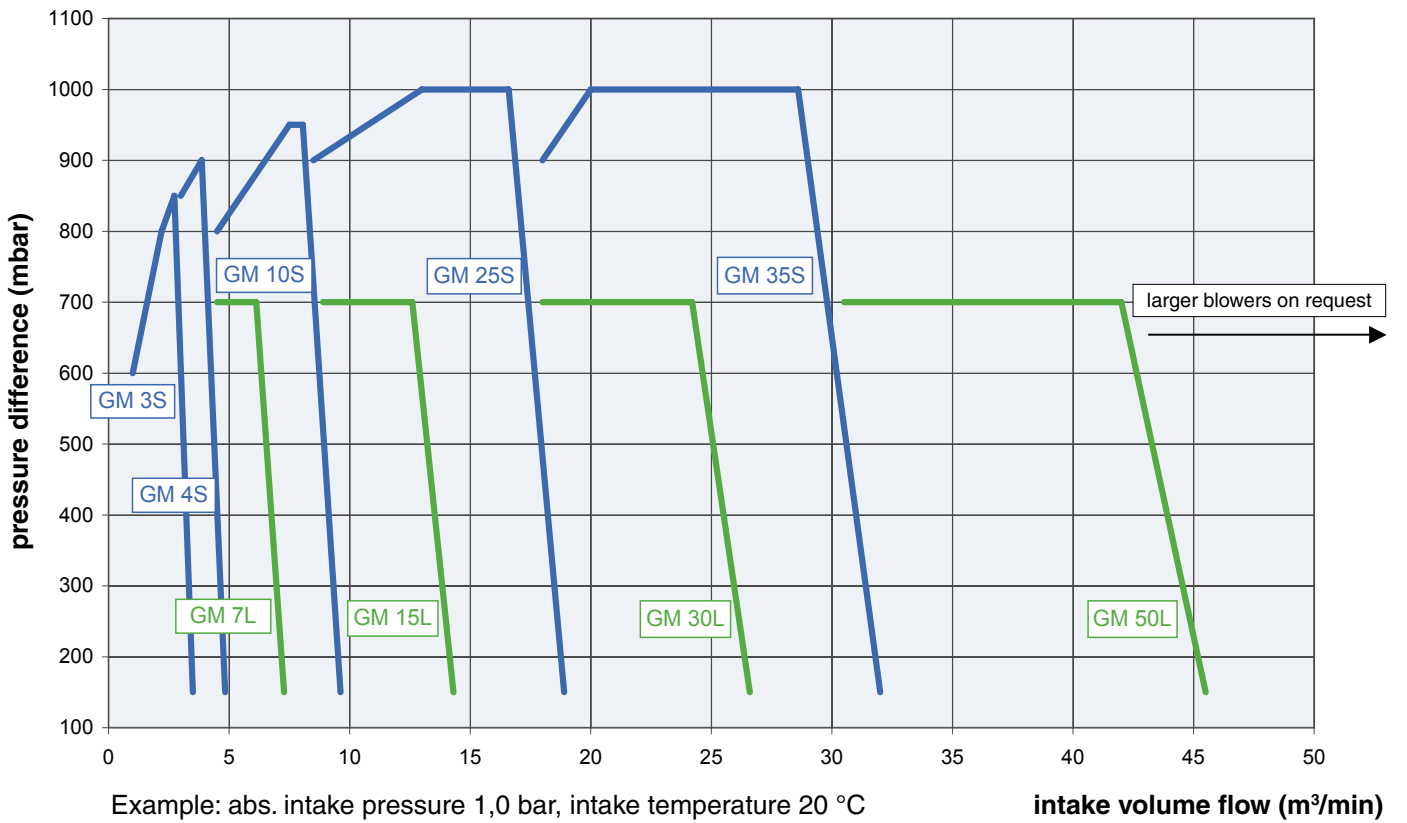
- Bypass operation with overflow regulator for keeping the discharge pressure
- Pressure protection via safety relief valve
- Bypass with start-up unloading device
- Purge gas station (admission of the neutral chambers with purge gas)
- Shut-off devices (e.g. ball cocks)
- Instrumentation and protection
- Acoustic hood

After arrangement special designs and modifications regarding design and material are possible.

Acc. to EC-guideline 94/9/EC (ATEX) the units can be used within the appliance group II in category 2 with corresponding equipment – therefore zone 1 internal and external (temperature class T3).



Performance data for compression of landfill gas



Aerzen Positive Displacement Blower GM 15 L

intake volume flow: 13,3 m³/min
 pressure difference: 165 mbar
 medium: biogas



A good address, everywhere

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