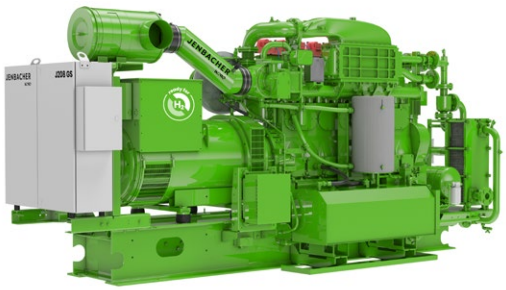
JENBACHER

# JENBACHER TYPE 2

## Continuous development for more than 40 years

Introduced in 1976 and continuously improved since then, the Jenbacher Type 2 engine offers high efficiency in the 250 to 360 kW power range. Its robust design and stationary engine concept result in excellent component durability and a service life of 80,000 operating hours before the first major overhaul. Enhanced components and a proven control and monitoring concept give this engine outstanding reliability.



## Reference installations

### J208 — Abwasserverband Obere Iller, Germany



Every year, the Abwasserverband Obere Iller wastewater treatment plant cleans 13.7 million cubic meters of wastewater from 11 municipalities in the Oberallgäu district. Since 2016, the plant has been able to cover 65% of its power demand and 95% of its heat demand using a high-efficiency Jenbacher J208 engine.

| | |
|---|---|
| **Engine** | 1 x J208 |
| **Electrical output** | 989 MBTU/hr |
| **Thermal output** | 1,266 MBTU/hr |
| **Energy source** | Sewage gas |
| **Commissioning** | 2016 |

### J208 — Biogas plant in Schlitters, Austria



A single J208 engine at the combined heat and power (CHP) station in Schlitters annually transforms about 12,000 tons of leftover food and biowaste into electricity and heat. The residual digested biowaste then is compressed into compost or turned into liquid manure to fertilize agricultural fields in the region.

| | |
|---|---|
| **Engine** | 1 x J208 |
| **Electrical output** | 1,194 MBTU/hr |
| **Thermal output** | 1,262 MBTU/hr |
| **Energy source** | Biogas |
| **Commissioning** | 2015 |

### J208 — ARA Pustertal, Italy



ARA Pustertal's plant Tobl treats the wastewater of about 158,000 people in the Pflarenz/Tobl region of St. Lorenzen annually. In 2022, more than 2.15 million cubic meters of sewage gas was produced and used to power three Jenbacher J208 CHP units – meeting 83% of the plant's annual electricity demand. Exhaust gas heat also is put to use to dry sewage sludge at the plant.

| | |
|---|---|
| **Engines** | 3 x J208 |
| **Electrical output** | 3,381 MBTU/hr |
| **Thermal output** | 2,283 MBTU/hr |
| **Energy source** | Sewage gas |
| **Commissioning** | 2016, 2018, 2019 |

### J208 — Endress+Hauser Maulburg II, Germany



In Maulburg, two Jenbacher gensets with a total electrical output of 3,907 MBTU/hr supply the Endress+Hauser SE+Co. KG plant. After the first Jenbacher genset with electrical output of 2,883 MBTU/hr went into operation in 2014, the Jenbacher J208 genset was installed in 2020. The Jenbacher CHP solution reliably supplies the company site with electricity and heat.

| | |
|---|---|
| **Engines** | 1 x J208, 1 x J412 |
| **Electrical output** | 3,907 MBTU/hr |
| **Thermal output** | 4,303 MBTU/hr |
| **Energy source** | Natural gas |
| **Commissioning** | 2014, 2020 |

JENBACHER

## Technical data

| | |
|---|---|
| **Configuration** | In line |
| **Bore (inch)** | 5.31 |
| **Stroke (inch)** | 5.71 |
| **Displacement/cylinder (cu.in)** | 126.4 |
| **Speed (rpm)** | 1,800 (60 Hz) |
| **Mean piston speed (in/s)** | 343 |
| **Scope of supply** | Generator set, cogeneration system, generator set / cogeneration in container |
| **Applicable gas types** | Natural gas, flare gas, propane, biogas, landfill gas, sewage gas |
| **Engine type** | J208 |
| **No. of cylinders** | 8 |
| **Total displacement (cu.in)** | 1,013 |

| **Dimensions l x w x h (inch)** | |
|---|---|
| **Generator set** | 168 x 63 x 97 |
| **Cogeneration system** | 177 x 75 x 97 |
| **Container[1] 40-foot** | 480 x 100 x 105 – 200 |
| **Weights empty (lbs)** | |
| **Generator set** | 13,230 |
| **Cogeneration system** | 12,350 |

## Outputs and efficiencies

| **Natural gas** | | | | 1,800 rpm \| 60 Hz | | |
|---|---|---|---|---|---|---|
| **$NO_x$<** | **Type** | **Pel (kW)[2]** | **Pth (MBTU/hr)[3]** | **ηel (%)[2]** | **ηth (%)[3]** | **ηtot (%)** |
| 0.5 g/bhp.hr | J208 | 360 | 1274 | 39.7 | 41.2 | 80.9 |
| 1.0 g/bhpr | J208 | 360 | 1248 | 40.5 | 41.2 | 81.7 |
| **Biogas** | | | | 1,800 rpm \| 50 Hz | | |
| **$NO_x$<** | **Type** | **Pel (kW)[2]** | **Pth (MBTU/hr)[3]** | **ηel (%)[2]** | **ηth (%)[3]** | **ηtot (%)** |
| 1.0 g/bhp.hr | J208 | 360 | 1501 | 39.1 | 47.8 | 86.8 |

[1] The dimensions refer to the standard base models with horizontal exhaust silencer.
[2] Technical data according to ISO 3046
[3] Total heat output with a tolerance of +/- 8%, exhaust gas outlet temperature 120°C, for biogas gas outlet temperature 180°C

All data according to full load and subject to technical development and modification. Additional engine versions available on request.

In general, "Ready for $H_2$" Jenbacher units can be converted to operate on up to 100% hydrogen in the future. Details on the cost and timeline for a future conversion may vary and need to be clarified individually.

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