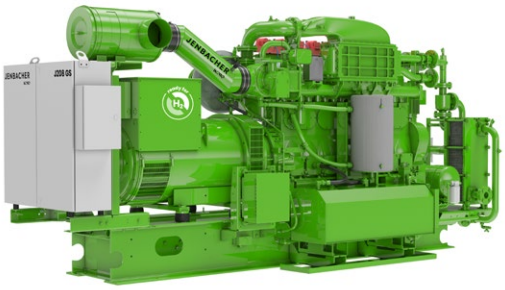
JENBACHER

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	290 kW
Thermal output	371 kW
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	350 kW
Thermal output	370 kW
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	991 kW
Thermal output	669 kW
Energy source	Sewage gas
Commissioning	2016, 2018, 2019

J208 — Endress+Hauser Maulburg II, Germany



In Maulburg, two Jenbacher gensets with a total of 1,145 kWel supply the Endress+Hauser SE+Co. KG plant. After the first Jenbacher genset with 845 kWel 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	1,145 kW
Thermal output	1,261 kW
Energy source	Natural gas
Commissioning	2014, 2020

JENBACHER

Technical data

Configuration	In line
Bore (mm)	135
Stroke (mm)	145
Displacement/cylinder (lit)	2.08
Speed (rpm)	1,500 (50 Hz) 1,800 (60 Hz)
Mean piston speed (m/s)	7.3 (1,500 1/min) 8.7 (1,800 1/min)
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 (lit)	16.6

Dimensions l x w x h (mm)	
Generator set	4,250 x 1,600 x 2,450
Cogeneration system	4,500 x 1,900 x 2,450
Container[1] 40-foot	12,200 x 2,500 x 2,600 – 5,000
Weights empty (kg)	
Generator set	4,900
Cogeneration system	5,600

Outputs and efficiencies

Natural gas		**1,500 1/min | 50 Hz**					**1,800 1/min | 60 Hz**				
NO_x <	**Type**	**Pel (kW)[2]**	**Pth (kW)[3]**	**ηel (%)[2]**	**ηth (%)[3]**	**ηtot (%)**	**Pel (kW)[2]**	**Pth (kW)[3]**	**ηel (%)[2]**	**ηth (%)[3]**	**ηtot (%)**
500 mg/m³$_N$	J208	324	371	40.8	46.6	87.4	-	-	-	-	-
	J208	361	326	41.8	37.8	79.7	360	366	40.5	41.2	81.7
250 mg/m³$_N$	J208	324	383	40.2	47.5	87.7	360	373	39.7	41.2	80.9
	J208	361	336	41.0	38.3	79.3	-	-	-	-	-

Biogas		**1,500 1/min | 50 Hz**					**1,800 1/min | 60 Hz**				
NO_x <	**Type**	**Pel (kW)[2]**	**Pth (kW)[3]**	**ηel (%)[2]**	**ηth (%)[3]**	**ηtot (%)**	**Pel (kW)[2]**	**Pth (kW)[3]**	**ηel (%)[2]**	**ηth (%)[3]**	**ηtot (%)**
500 mg/m³$_N$	J208	361	379	40.7	42.8	83.5	360	440	39.1	47.8	86.8
250 mg/m³$_N$	J208	361	392	40.0	43.5	83.5	360	455	38.3	48.5	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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