

Delivery Chart 2012



CHP units driven by natural gas

CHP type	GG 50	GG 70	GG 113	GG 140	GG 201	GG 237	GG 402 ²⁾	GG 530 ^{2) 3)}
Engine manufacturer MAN, type	E 0834 E 302	E 0836 E 302	E 2876 E 312	E 2876 E 312	E 2842 E 312	E 2842 E 312	E 2842 LE 322	E 3262 LE 202
Electric power¹⁾ [kW]	50	71	114	142	205	239	405 [366]	532 [-]
Heating power [kW]	82	114	179	216	331	372	538 [495]	661 [-]
Gas consumption [kW]	146	204	327	392	592	669	1045 [955]	1342 [-]
Electrical efficiency [%]	34,2	34,8	34,9	36,2	34,6	35,7	38,8 [38,3]	39,6 [-]
Heating efficiency [%]	56,2	55,9	54,7	55,1	55,9	55,6	51,5 [51,8]	49,3 [-]
Overall efficiency [%]	90,4	90,7	89,6	91,3	90,5	91,3	90,3 [90,1]	88,9 [-]
Power and heat ratio	0,61	0,62	0,64	0,66	0,62	0,64	0,75 [0,74]	0,80 [-]
Interval of maintenance [h]	1.500	1.500	1.500	1.500	1.500	1.500	1.000	1.000
Basic overhaul approx. [h]	50.000	50.000	50.000	50.000	50.000	50.000	50.000	50.000
Dimensions: length [mm]	2.400	2.400	2.800	2.800	3.400	3.400	3.500	4.000
width [mm]	900	900	900	900	1.300	1.300	1.300	1.600
height [mm]	1.800	1.800	2.000	2.000	2.300	2.300	2.300	2.300
Weight [kg]	1.950	2.070	2.850	2.850	4.650	4.650	5.990	7.000
Noise level [dB(A) in 1 m]	62	63	68	69	70	70	72	74

1) Value given as electric gross power at the connector block of the alternator.

2) Data applies to 40 °C mixture cooler return temperature, data for 70 °C in square brackets. Declaration of the heating power includes the mixture intercooler heat.

3) Availability in series expected for 3rd quarter 2012.

Supply schedule: CHP unit consisting of gas engine and alternator, connected by an elastic coupling and a rigid flange, cooling water- and exhaust heat- exchanger, cooling water pump, safety gas regulation unit, oil supply tank, oil refilling unit with level monitoring etc., with complete pipework system, for heating water systems at 90/70 °C outflow/return temperature (special equipment at 95/80 °C e.g. for operation with absorption chiller on request), mounted ready for installation in a sound-absorbing case. Integrated switchgear cabinet with power and control section for fully automatic operation including net monitoring with protection devices according to BDEW guideline, completely wired. Pollutant reduction by catalyst and lambda-regulation below limiting values of the "TA-Luft (2002)". Primary filling with lubricating oil and antifreeze as well as test run followed by first maintenance service. For further details see respective technical description.

All specifications are guide numbers, subject to change.

Special versions for propane application (also bivalent) on demand.

Also see separate list for CHP units driven by sewage gas or biogas.

SOKRATHERM®
Cogeneration

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