Delivery Chart 2019

Compact CHP units driven by natural gas

Specification		Power data			Efficiency rates				Servicing		Dimensions				
CHP unit type	engine producer MAN, engine type	electrical [kW] [1]	thermal [kW]	gas input [kW H_i]	electrical [%]	thermal [%]	total [%]	power to heat ratio [2]	servicing interval [hours of operation]	general overhaul after ca. [h]	length [mm] (base pan)	width [mm]	height [mm]	operating weight [kg]	noise level [dB(A) in 1m]
	**50 kW class**														
GG 50 [3]	E 0834 E 302	**50**	**92**	**146**	34,2	63,0	97,2	0,53	1.500	60.000	2.200	900	1.830	1.950	62
GG 70	E 0836 E 302	**71**	**114**	**204**	34,8	55,9	90,7	0,61	1.500	60.000	2.400	900	1.800	2.070	63
	**100 kW class**														
GG 100	E 2676 E 302	**100**	**164**	**284**	35,2	57,7	92,9	0,59	1.500	50.000	2.900	900 [6]	2.000	3.220	71
GG 132	E 2676 E 302	**133**	**196**	**356**	37,4	55,1	92,5	0,66	1.500	50.000	2.900	900 [6]	2.000	3.220	71
GG 140	E 2876 E 312	**142**	**216**	**392**	36,2	55,1	91,3	0,64	1.500	50.000	2.900	900	2.000	3.280	69
	**200 kW class**														
GG 202	E 3262 E 302	**206**	**316**	**561**	36,7	56,3	93,0	0,63	1.500	50.000	3.600	1.500	2.340	5.390	74
GG 260	E 3262 E 302	**263**	**380**	**693**	38,0	54,8	92,8	0,67	1.500	50.000	3.600	1.500	2.340	5.390	74
	**400 kW class**														
GG 355 [4,5]	E 3268 LE 212	**357**	**445**	**889**	40,2	50,1	90,3	0,78	1.000	50.000	3.700	1.500	2.550	6.170	73
GG 395 [4]	E 3262 LE 232	**397**	**505**	**999**	39,7	50,6	90,3	0,76	1.000	50.000	3.700	1.500	2.550	6.940	74
GG 430 [4]	E 3262 LE 232	**435**	**548**	**1.090**	39,9	50,3	90,2	0,77	1.000	50.000	3.700	1.500	2.550	6.940	74
	**500 kW class**														
GG 530 [4]	E 3262 LE 202	**532**	**652**	**1.310**	40,6	49,8	90,4	0,80	1.000	50.000	3.700 [7]	1.500	2.600	6.990	74
GG 530 Twinpack [4]	E 3262 LE 202 (Twinpack)	**999**	**1.230**	**2.468**	40,5	49,8	90,3	0,79	1.000	50.000	3.700 [7] (twice / twin plant)	1.500	2.600	6.990	77

1) Value given as electric gross power at the connector block of the alternator.
2) Calculated with net electrical power.
3) Power values for standard CHP unit with integrated condensing heat utilization at 40 °C return temperature.
4) Power values apply to 40 °C mixture cooler return temperature. Heating power values include the mixture intercooler heat.
5) Expected availability starts with serial production in summer 2019.
6) Width without quick-lock cabinet panels (insertion witdth), with cabinet panels the width is 1000 mm.
7) Plus external switchgear cabinet for the power section, dimensions (width x depth x height =) 1200 x 600 x 2200 mm, cross-wiring on customer side.

Scope of delivery: 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 internal pipework, for operation in heating water systems at 90/70 °C flow/return temperatures (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 control and power section for fully automatic operation including mains monitoring with protection devices according to German guideline VDE AR-N 4105 (< 100 kWel.) resp. BDEW mid voltage guideline (>= 100 kWel.), fully wired [7]. Pollutant reduction by catalyst and lambda-regulation below limit values of the German TA-Luft (2002). Filled with lubricating oil and anticorrosive. Test run followed by first servicing is performed in factory prior to delivery. For further details see technical descriptions.

All specifications are standard values and subject to change.

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