

BIOGAS

basic technical data

CHP Unit type	Electrical Output (kW)	Heat Output (kW)	Electrical Efficiency (%)	Heat Efficiency (%)	Total Efficiency (%)	Power input in fuel (kW)
Micro 30	20	41.8	29.5	62.0	91.5	67.7
Micro 30	30	59.0	30.9	60.7	91.6	97.1
Cento 80	83	121	35.0	50.9	85.9	237
Cento 100	106	143	36.4	49.2	85.6	291
Cento 120	124	165	36.9	49.2	86.1	336
Cento 160	166	217	37.8	49.5	87.3	439
Cento 180	182	224	39.1	48.1	87.2	465
Cento 200	200	245	39.2	48.1	87.3	510
Cento 210	210	241	40.4	46.5	86.9	519
Flexi 250 ⁴	250	235	42.5	40.0	82.5	588
Flexi 265 ⁴	265	249	43.0	40.0	83.0	624
Flexi 350	354	398	40.1	45.1	85.2	883
Flexi 430	430	550	39.4	50.5	89.9	1 090
Flexi 530	528	639	40.2	46.6	88.8	1 315
Quanto 600	600	639	42.9	45.6	88.5	1 400
Quanto 800	800	843	43.1	45.4	88.5	1 856
Quanto 1000	999	1 089	42.6	46.5	89.1	2 345
Quanto 1200	1 200	1 283	43.0	46.0	89.0	2 790
Quanto 1600	1 560	1 700	42.6	46.4	89.0	3 653
Quanto 2000	2 000	2 138	43.0	46.0	89.0	4 651
Quanto 2300	2 300	2 398	43.6	45.5	89.1	5 274

4. Product of TEDOM SCHNELL GmbH.

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Notes for data in all tables

Referenced data is for general purposes only.

The technical parameters apply to emission standards according to the European legislation, which defines a maximum of 250 mg NO_x/Nm³ for cogeneration units over 1 MW in fuel input. The specified NO_x and CO emission level apply at a concentration of 5% O₂ in the dry flue gas. Gas consumption is referenced with tolerance according to ISO 3046-1.

The term biogas also includes other fuels resulting from biological decomposition - such as sewage or landfill gas.

These parameters may vary with respect to technical and design developments or innovations. TEDOM reserves the right to make changes.

TEDOM



CHP UNITS

Overview of manufactured types

NATURAL GAS

basic technical data

CHP Unit type	Electrical Output (kW)	Heat Output (kW)		Electrical Efficiency (%)	Heat Efficiency (%)		Total Efficiency (%)		Emission NOx/CO (mg/Nm ³)
		standard / increased ¹			standard / increased ¹		standard / increased ¹		
Micro 30	20	41.8	47.2	30.7	64.1	72.4	94.8	103.1	95 / 300
Micro 30	30	58.1	65.4	32.4	62.8	70.7	95.3	103.1	95 / 300
Micro 30	33	63.7	71.8	32.5	62.8	70.7	95.3	103.2	95 / 300
Micro 50	50	88.5	101.5	34.2	60.6	69.5	94.8	103.7	95 / 300
Cento 80	81	120	126	35.1	52.2	54.5	87.3	89.6	500 / 650
Cento 100	104	142	149	36.9	50.5	52.9	87.4	89.8	500 / 650
Cento 120	125	177	185	36.4	51.7	54.0	88.1	90.4	500 / 650
Cento 130	133	191	196	37.8	54.2	55.7	92.0	93.5	95 / 300
Cento 160	164	221	231	37.8	50.9	53.3	88.7	91.1	500 / 650
Cento 180	184	232	243	39.2	49.5	51.8	88.7	91.0	500 / 650
Cento 200	200	253	265	39.2	49.5	51.9	88.7	91.1	500 / 650
Cento 210	210	267	279	39.7	50.5	52.7	90.2	92.4	500 / 300
Flexi 260 ³	260	370	392	38.0	54.0	57.2	92.0	95.2	95 / 300
Flexi 350 ³	355	442	486	40.0	49.8	54.8	89.8	94.8	500 / 300
Flexi 430 ³	430	610	669	37.0	52.5	57.5	89.5	94.5	250 / 300
Flexi 530 ³	528	672	740	39.3	50.0	55.1	89.3	94.4	250 / 300
Quanto 600	600	690	726	42.0	48.3	50.9	90.3	92.9	250 / 300
Quanto 800	800	911	959	42.3	48.2	50.8	90.5	93.1	250 / 300
Quanto 1000	999	1 155	1 216	42.0	48.5	51.1	90.5	93.1	250 / 300
Quanto 1200	1 200	1 354	1 428	42.6	48.0	50.6	90.6	93.2	250 / 300
Quanto 1600	1 560	1 788	1 884	42.2	48.4	51.0	90.6	93.2	250 / 300
Quanto 2000	2 000	2 251	2 372	42.6	48.0	50.6	90.6	93.2	250 / 300
Quanto 2300	2 300	2 475	2 608	43.8	47.1	49.6	90.9	93.4	250 / 300
Quanto 3000	3 203	3 666	3 856	42.1	48.2	50.7	90.3	92.8	250 / 300
Quanto 4000	4 500	4 799	5 066	43.7	46.6	49.2	90.3	92.9	250 / 300

NATURAL GAS

basic technical data for low emission design

CHP Unit type	Electrical Output (kW)	Heat Output (kW)		Electrical Efficiency (%)	Heat Efficiency (%)		Total Efficiency (%)		Emission NOx/CO (mg/Nm ³)
		standard / increased ¹			standard / increased ¹		standard / increased ¹		
Micro 30	20	41.8	47.2	30.7	64.1	72.4	94.8	103.1	50 / 150
Micro 30	30	58.1	65.4	32.4	62.8	70.7	95.3	103.1	50 / 150
Micro 30	33	63.7	71.8	32.5	62.8	70.7	95.3	103.2	50 / 150
Micro 50	50	88.5	101.5	34.2	60.6	69.5	94.8	103.7	50 / 150
Cento 80	85	141	145	33.7	56.1	57.7	89.8	91.4	50 / 150
Cento 100	104	166	170	34.7	55.3	56.8	90.0	91.5	50 / 150
Cento 120	124	182	187	36.6	53.6	55.2	90.2	91.8	50 / 150
Cento 130	133	191	196	37.8	54.2	55.7	92.0	93.5	50 / 150
Cento 200	200	253	265	39.2	49.5	51.9	88.7	91.1	50 / 300 ²
Cento 210	210	267	279	39.7	50.5	52.7	90.2	92.4	50 / 300 ²
Flexi 260 ³	260	370	392	38.0	54.0	57.2	92.0	95.2	50 / 150
Flexi 350 ³	355	442	486	40.0	49.8	54.8	89.8	94.8	50 / 300 ²
Flexi 430 ³	430	545	600	39.6	50.2	55.3	89.8	94.9	50 / 300 ²
Flexi 530 ³	528	642	706	40.4	49.2	54.1	89.6	94.5	50 / 300 ²
Quanto 600	600	662	697	43.0	47.5	49.9	90.5	92.9	50 / 300 ²
Quanto 800	800	873	919	43.4	47.3	49.8	90.7	93.2	50 / 300 ²
Quanto 1000	999	1 106	1 164	43.0	47.6	50.1	90.6	93.1	50 / 300 ²
Quanto 1200	1 200	1 297	1 366	43.6	47.2	49.7	90.8	93.3	50 / 300 ²
Quanto 1600	1 560	1 713	1 804	43.2	47.5	50.0	90.7	93.2	50 / 300 ²
Quanto 2000	2 000	2 154	2 270	43.7	47.1	49.6	90.8	93.3	50 / 300 ²
Quanto 2300	2 300	2 377	2 504	44.7	46.2	48.7	90.9	93.5	50 / 300 ²
Quanto 3000	3 203	3 666	3 856	42.1	48.2	50.7	90.3	92.8	50 / 300 ²
Quanto 4000	4 500	4 799	5 066	43.7	46.6	49.2	90.3	92.9	50 / 300 ²

We also offer cogeneration units with different emission levels. Technical parameters of these CHP units are available on request.

1. With additional exhaust heat exchanger.
2. With SCR technology.
3. With condensation exchanger and return water temperature 35°C / 95°F.