

**TEDOM**



# TEDOM COGENERATION

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## 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 (%)		Power input in fuel (kW)
		standard / increased <sup>1</sup>			standard / increased <sup>1</sup>		standard / increased <sup>1</sup>		
Micro 7 <sup>2,3</sup>	<b>6,5</b>	16,0	18,4	27,0	66,3	76,4	93,3	103,4	24,1
Micro 20 <sup>2,3</sup>	<b>20</b>	42,0	48,2	30,5	64,0	73,6	94,5	104,1	66,5
Micro 30 <sup>2,3</sup>	<b>30</b>	58,1	65,7	32,4	62,9	71,1	95,3	103,6	92,4
Micro 33 <sup>2,3</sup>	<b>33</b>	63,7	71,8	32,5	62,8	70,7	95,3	103,2	101,5
Micro 50 <sup>2,3</sup>	<b>50</b>	88,5	101,5	34,2	60,6	69,5	94,9	103,8	146
Cento 80 <sup>4</sup>	<b>81</b>	120	126	35,1	52,2	54,5	87,3	89,6	231
Cento 100 <sup>4</sup>	<b>104</b>	142	149	36,9	50,5	52,9	87,4	89,8	282
Cento 120 <sup>4</sup>	<b>125</b>	177	185	36,4	51,7	54,0	88,1	90,4	343
Cento 140 <sup>3</sup>	<b>140</b>	203	209	36,4	52,8	54,3	89,3	90,7	384
Cento 160	<b>164</b>	221	231	37,8	50,9	53,3	88,7	91,1	434
Cento 180	<b>184</b>	232	243	39,2	49,5	51,8	88,7	91,0	469
Cento 200	<b>200</b>	253	265	39,2	49,5	51,9	88,7	91,1	510
Cento 210	<b>210</b>	267	279	38,6	50,5	52,7	90,2	92,4	529
Cento 260 <sup>3</sup>	<b>260</b>	371	382	37,8	54,0	55,5	91,8	93,3	687
Cento 350	<b>355</b>	442	457	40,0	49,8	51,5	89,8	91,5	887
Cento 430	<b>430</b>	609	640	37,0	52,5	55,2	89,6	92,2	1160
Cento 530	<b>528</b>	672	705	39,3	50,0	52,4	89,3	91,7	1344
Quanto 600	<b>600</b>	681	717	42,3	48,0	50,6	90,3	92,9	1418
Quanto 800	<b>800</b>	904	952	42,5	48,0	50,6	90,5	93,1	1882
Quanto 1000	<b>999</b>	1155	1216	40,5	49,7	51,1	90,5	93,1	2379
Quanto 1200	<b>1 200</b>	1355	1428	42,6	48,1	50,7	90,7	93,3	2818
Quanto 1600	<b>1 560</b>	1788	1884	41,1	48,4	51,0	90,6	93,2	3696
Quanto 2000	<b>2 000</b>	2251	2372	41,3	48,0	50,6	90,6	93,2	4690
Quanto 3000	<b>3 333</b>	3577	3740	43,6	46,8	48,9	90,3	92,5	7650
Quanto 4000	<b>4 500</b>	4679	4904	44,3	46,0	48,3	90,3	92,6	10160

## 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 <sup>2</sup>	<b>28</b>	54,7	31,0	60,6	91,6	90,3
Cento 80	<b>83</b>	121	35,0	50,9	85,9	237
Cento 100	<b>106</b>	143	36,4	49,2	85,6	291
Cento 120	<b>124</b>	165	36,9	49,2	86,1	336
Cento 160	<b>166</b>	217	37,8	49,5	87,3	439
Cento 180	<b>182</b>	224	39,1	48,1	87,2	465
Cento 200	<b>200</b>	245	39,2	48,1	87,3	510
Flexi 250 <sup>5</sup>	<b>250</b>	235	42,5	40,0	82,5	588
Flexi 265 <sup>5</sup>	<b>265</b>	249	43,0	40,0	83,0	624
Cento 350	<b>355</b>	419	40,1	47,3	87,4	885
Cento 430	<b>430</b>	527	39,5	48,4	87,9	1087
Cento 530	<b>528</b>	613	40,2	46,6	86,8	1315
Quanto 600	<b>600</b>	639	42,9	45,6	88,5	1400
Quanto 800	<b>800</b>	843	43,1	45,4	88,5	1856
Quanto 1000	<b>999</b>	1089	42,6	46,4	89,0	2346
Quanto 1200	<b>1200</b>	1283	43,0	46,0	89,0	2790
Quanto 1600	<b>1560</b>	1697	42,7	46,4	89,1	3654
Quanto 2000	<b>2000</b>	2138	43,0	46,0	89,0	4651

1. With additional exhaust heat exchanger.
2. Seasonal space heating energy efficiency A++ classified unit.
3. Stoichiometric combustion, NOx emissions under 100 mg/Nm<sup>3</sup>. Values of under 100 mg of NOx/Nm<sup>3</sup> are possible with all the other products when SCR technology is used. Technical parameters available on request.
4. Alternatively, it is possible to supply a version for the combustion of the stoichiometric mixture. Technical parameters available on request.
5. Product of Schnell Motoren GmbH.

### Notes for data in all tables

Referenced data is for general purposes only.  
 The specified technical parameters apply for emission limits in accord with European legislation. A version with different emission limits is available on request.  
 Gas consumption is referenced with tolerance according to ISO 3046-1.  
 The term biogas also includes other fuels resulting from biological decomposition - such as e.g. sewage or landfill gas.  
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 Specifications subject to change.