

**TEDOM**



# CHP UNITS 60 Hz

Overview of manufactured types

## Micro, Cento and Quanto line

### NATURAL GAS

CHP Unit type	Electrical Output (kW)	Heat Output max.		Electrical Efficiency LHV (%)	Thermal Efficiency LHV (%)	Total Efficiency max. LHV (%)	Gas Consumption (BTU/h)	Heat Rate (BTU/kWe)
		kW	BTU/h					
Micro T35 SP <sup>1</sup>	35	72,2	246,000	30.9%	63.9%	94.8%	385,000	11,000
Micro T35 AP <sup>1</sup>	35	69,9	238,000	32.0%	63.5%	95.5%	375,000	10,700
Micro T55 <sup>1</sup>	55	99	339,000	34.1%	61.7%	95.8%	549,000	9,900
Cento M80 <sup>1</sup>	80	125	427,000	34.2%	53.4%	87.6%	798,000	9,980.5
Cento T100 <sup>1</sup>	99	173	592,000	32.5%	57.0%	89.5%	1,038,000	10,485
Cento T150 <sup>1</sup>	146	226	771,000	35.5%	55.1%	90.6%	1,403,000	9,586.5
Cento T200	192	255	873,000	37.8%	50.5%	88.3%	1,723,000	9,009
Cento L230	235	314	1,070,000	37.7%	50.3%	88.0%	2,128,000	9,047
Cento M285 <sup>1</sup>	287	426	1,454,000	37.0%	54.9%	91.9%	2,903,000	9,226
Cento M375	375	490	1,638,000	39.2%	51.3%	90.5%	3,262,000	8,699
Cento L520	520	703	2,399,000	37.4%	50.6%	88.0%	4,742,000	9,119
Cento M555	555	767	2,617,000	38.1%	52.7%	90.8%	4,968,000	8,951
Quanto D800	800	950	3,242,000	41.5%	49.2%	90.7%	6,582,000	8,228
Quanto D1200	1200	1312	4,477,000	43.4%	47.4%	90.8%	9,441,000	7,868
Quanto D1600	1560	1733	5,913,000	43.0%	43.8%	86.8%	12,390,000	7,942
Quanto D2000	2000	2179	7,435,000	43.4%	47.2%	90.6%	15,737,000	7,868

1. Combustion with the stoichiometric air-fuel ratio

### BIOGAS

CHP Unit type	Electrical Output (kW)	Heat Output max.		Electrical Efficiency LHV (%)	Thermal Efficiency LHV (%)	Total Efficiency max. LHV (%)	Gas Consumption (BTU/h)	Heat Rate (BTU/kWe)
		kW	BTU/h					
Micro T35	27	50,4	171,000	32.0%	59.6%	91.6%	287,000	10,600
Cento T100	94	148	505,000	33.5%	52.8%	86.3%	955,000	10,164
Cento T150	140	214	732,000	34.2%	52.3%	86.5%	1,397,000	9,976.8
Cento T200	191	261	891,000	36.8%	50.4%	87.2%	1,766,000	9,247
Cento M375	375	480	1,637,000	39.2%	50.2%	89.4%	3,262,000	8,699
Cento L520	520	677	2,310,000	37.2%	48.4%	85.6%	4,768,000	9,170
Cento M555	555	767	2,617,000	38.0%	52.6%	90.7%	4,975,000	8,964
Quanto D800	800	899	3,066,000	41.7%	46.9%	88.6%	6,537,000	8,172
Quanto D1200	1200	1299	4,431,000	42.8%	46.2%	89.0%	9,578,000	7,982
Quanto D1600	1560	1643	5,606,000	42.3%	41.0%	83.3%	12,584,000	8,067
Quanto D2000	2000	2162	7,376,000	42.7%	46.1%	88.8%	15,989,000	7,995

### PROPANE

CHP Unit type	Electrical Output (kW)	Heat Output max.		Electrical Efficiency LHV (%)	Thermal Efficiency LHV (%)	Total Efficiency max. LHV (%)	Gas Consumption (BTU/h)	Heat Rate (BTU/kWe)
		kW	BTU/h					
Micro T35	35	71,5	243,968	31.5%	64.4%	95.9%	379,000	10,821
Cento T100	98	181	617,651	31.2%	57.6%	88.8%	1,071,000	10,929
Cento T150	157	259	884,820	33.8%	55.8%	89.6%	1,584,000	10,092
Cento T200	168	275	938,665	34.0%	55.6%	89.6%	1,687,000	10,040
Quanto D800	535	691	2,358,000	39.6%	51.2%	90.8%	4,606,000	8,610
Quanto D1200	911	1102	3,760,000	41.0%	49.6%	90.6%	7,575,000	8,315
Quanto D1600	1161	1422	4,852,000	40.7%	49.8%	90.5%	9,738,000	8,388
Quanto D2000	1381	1701	5,804,000	40.5%	49.8%	90.3%	11,649,000	8,435

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#### Notes for data in all tables

Gas consumption is referenced for natural gas with heating value of 912.18 BTU/CF and at ambient conditions: 59 °F, 14.648 psi – with tolerance according – to ISO 3046-1. Gas consumption is referenced for biogas with methane volume 65 % (629.4 BTU/CF), at normal conditions (32 °F, 14.648 psi). Biogas mark means fuels incurred by biological decomposition – e.g. gas from water treatment plants, agricultural concerns or communal landfill sites. Gas consumption is referenced for propane (acc. to DIN 51622) (2,498 BTU/CF). Parameters of Propane CHP units are calculated for ambient temperature 86 °F and humidity of 75 %. Referenced data is for general purposes only. Consult with TEDOM factory or country area authorized TEDOM representative for specific application assistance. All rights reserved specifications subject to change. TEDOM is a registered trademark of TEDOM a.s. It is possible to combine more units in one container. Technical specifications of these units and their configuration are available on request.

Official distributor for USA: The Kinsley Group, 14 Connecticut South Drive, East Granby, CT 06026, [www.kinsley-group.com](http://www.kinsley-group.com)



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