

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 ¹	35	72,2	246,000	30.9%	63.9%	94.8%	385,000	11,000
Micro T35 AP ¹	35	69,9	238,000	32.0%	63.5%	95.5%	375,000	10,700
Micro T55 ¹	55	99	339,000	34.1%	61.7%	95.8%	549,000	9,900
Cento M80 ¹	80	125	427,000	34.2%	53.4%	87.6%	798,000	9,980.5
Cento T100 ¹	99	173	592,000	32.5%	57.0%	89.5%	1,038,000	10,485
Cento T150 ¹	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 ¹	287	426	1,454,000	37.0%	54.9%	91.9%	2,903,000	9,226
Cento L320	324	480	1,637,000	35.4%	52.6%	88.0%	3,118,000	9,619
Cento L520	520	703	2,399,000	37.4%	50.6%	88.0%	4,742,000	9,119
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 L230	235	304	1,037,000	37.3%	48.3%	85.6%	2,147,000	9,135
Cento L320	324	459	1,567,000	35.4%	50.1%	85.5%	3,125,000	9,644
Cento L520	520	677	2,310,000	37.2%	48.4%	85.6%	4,768,000	9,170
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.