

TEDOM

technology
... in harmony
with nature

TEDOM CHP Units 60 Hz



NATURAL GAS - BIOGAS - LPG



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^{1,2}	35	69.9	246,300	30.9%	63.5%	94.8%	385,000	11,000
Micro T35 AP^{1,2}	35	69.9	238,500	32.0%	63.5%	95.5%	375,000	10,714
Micro T55^{1,2}	55	99	339,700	34.1%	61.5%	95.8%	549,400	9,989
Cento M80¹	80	125	426,500	34.2%	53.4%	87.6%	798,400	9,980
Cento M285¹	287	426	1,453,600	37.0%	54.9%	91.9%	2,903,000	9,226
Cento T100^{1,2}	99	173	590,300	32.5%	56.9%	89.5%	1,037,300	10,477
Cento T150^{1,2}	146	226	771,100	35.5%	55.0%	90.6%	1,402,400	9,605
Cento T200²	192	255	870,100	37.8%	50.3%	88.3%	1,729,900	9,010
Cento L230	235	314	1,071,400	37.7%	50.3%	88.0%	2,129,200	9,060
Cento L320	324	480	1,637,800	35.4%	52.5%	88.0%	3,118,700	9,625
Cento L520	520	703	2,398,700	37.4%	50.6%	88.0%	4,742,900	9,120
Quanto D800²	800	950	3,241,500	41.5%	49.2%	90.7%	6,582,000	8,227
Quanto D1200²	1200	1312	4,476,700	43.4%	47.4%	90.8%	9,441,400	7,867
Quanto D1600²	1560	1733	5,913,200	43.0%	47.7%	90.7%	12,389,500	7,941
Quanto D2000²	2000	2194	7,486,200	43.4%	47.3%	90.6%	15,736,800	7,868

1. Combustion with the stoichiometric air-fuel ratio. 2. Unit is available in LPG version too.

Micro, Cento and Quanto Line – **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	171,900	32.0%	59.7%	91.6%	287,000	10,063
Cento T100	94	148	505,000	33.5%	52.9%	86.3%	955,400	10,163
Cento T150	140	214	731,700	34.2%	52.3%	86.5%	1,396,800	9,977
Cento T200	191	261	890,900	36.8%	50.4%	87.2%	1,766,200	9,247
Cento L230	235	304	1,037,000	37.3%	48.3%	85.6%	2,147,000	9,136
Cento L320	324	459	1,567,000	35.4%	50.1%	85.5%	3,125,000	9,645
Cento L520	520	677	2,398,700	37.2%	48.5%	85.6%	4,768,400	9,170
Quanto D800	800	899	3,067,500	41.7%	46.9%	88.6%	6,537,700	8,172
Quanto D1200	1200	1299	4,432,400	42.8%	46.3%	89.0%	9,577,900	7,981
Quanto D1600	1560	1721	5,872,300	42.3%	46.6%	88.9%	12,584,000	8,066
Quanto D2000	2000	2162	7,377,100	42.7%	46.1%	88.8%	15,989,300	7,994

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.

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It is possible to combine more units in one container. Technical specifications of these units and their configuration are available on request.

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