

**TEDOM**



## **CHP UNITS 60 Hz**

Overview of manufactured types

## NATURAL GAS

CHP Unit type	Electrical Output (kW)	Heat Output max.		Electrical Efficiency LHV (%)	Thermal Efficiency LHV (%)	Total Efficiency max. LHV (%)	Fuel Consumption (BTU/h)	Heat Rate (BTU/kWe)
		kW	BTU/h					
Micro 35* SP	35	72.2	246,000	31.0%	63.9%	94.9%	385,000	11,000
Micro 35* AP	35	69.7	238,000	31.9%	63.5%	95.4%	375,000	10,700
Micro 55*	55	99	336,000	34.2%	61.2%	95.4%	549,000	9,900
Cento 150*	150	223	761,000	36.7%	54.7%	91.4%	1,392,000	9,281
Cento 220	220	294	1,003,000	38.9%	51.9%	90.8%	1,931,000	8,777
Cento 285*	285	422	1,440,000	37.0%	54.8%	91.8%	2,624,000	9,207
Cento 375	375	483	1,648,000	39.0%	50.3%	89.3%	3,279,000	8,744
Cento 555	555	725	2,474,000	38.8%	50.7%	89.5%	4,879,000	8,791
Quanto 600	600	689	2,351,000	42.2%	48.5%	90.7%	4,849,000	8,082
Quanto 800	800	913	3,115,000	42.4%	48.4%	90.8%	6,432,000	8,040
Quanto 1200	1200	1312	4,477,000	43.4%	47.4%	90.8%	9,441,000	7,868
Quanto 1600	1560	1733	5,913,000	42.9%	47.7%	90.6%	12,390,000	7,942
Quanto 2000	2000	2179	7,435,000	43.4%	47.2%	90.6%	15,737,000	7,868

\* 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 (%)	Fuel Consumption (BTU/h)	Heat Rate (BTU/kWe)
		kW	BTU/h					
Micro 35	27	50.4	171,000	32.0%	59.6%	91.6%	287,000	10,600
Cento 220	220	286	976,000	38.1%	49.6%	87.7%	1,969,000	8,950
Cento 375	375	482	1,645,000	38.4%	49.2%	87.6%	3,337,000	8,899
Cento 555	555	702	2,395,000	38.3%	48.5%	86.8%	4,941,000	8,903
Quanto 600	600	674	2,299,000	41.7%	43.6%	85.3%	4,910,000	8,183
Quanto 800	800	892	3,044,000	41.9%	43.3%	85.2%	6,521,000	8,151
Quanto 1200	1200	1299	4,431,000	42.8%	46.2%	89.0%	9,578,000	7,982
Quanto 1600	1560	1721	5,872,000	42.3%	46.6%	88.9%	12,584,000	8,066
Quanto 2000	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 (%)	Fuel Consumption (BTU/h)	Heat Rate (BTU/kWe)
		kW	BTU/h					
Micro 35	35	69.0	236,000	31.5%	62.2%	93.7%	379,000	10,821
Micro 55	52	104.3	356,000	30.9%	62.0%	92.9%	578,000	11,115

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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.