



GPT-8 - TECHNICAL DATASHEET

The **GPT-8** is an inverter-based micro-cogeneration unit that generates both electricity and thermal energy at the same time. It is versatile and can be installed in any type of building.

The machine operates, depending on heat requirement, off an internal combustion engine, an electricity generator, and a heat recovery system that makes the thermal energy directly available to the building in the form of hot water.

To ensure safe operation, the unit has a control system that manages its activities, and includes real-time monitoring.

To achieve better thermal energy performance, we recommend installing appropriate storage tanks along with the **GPT-8**.

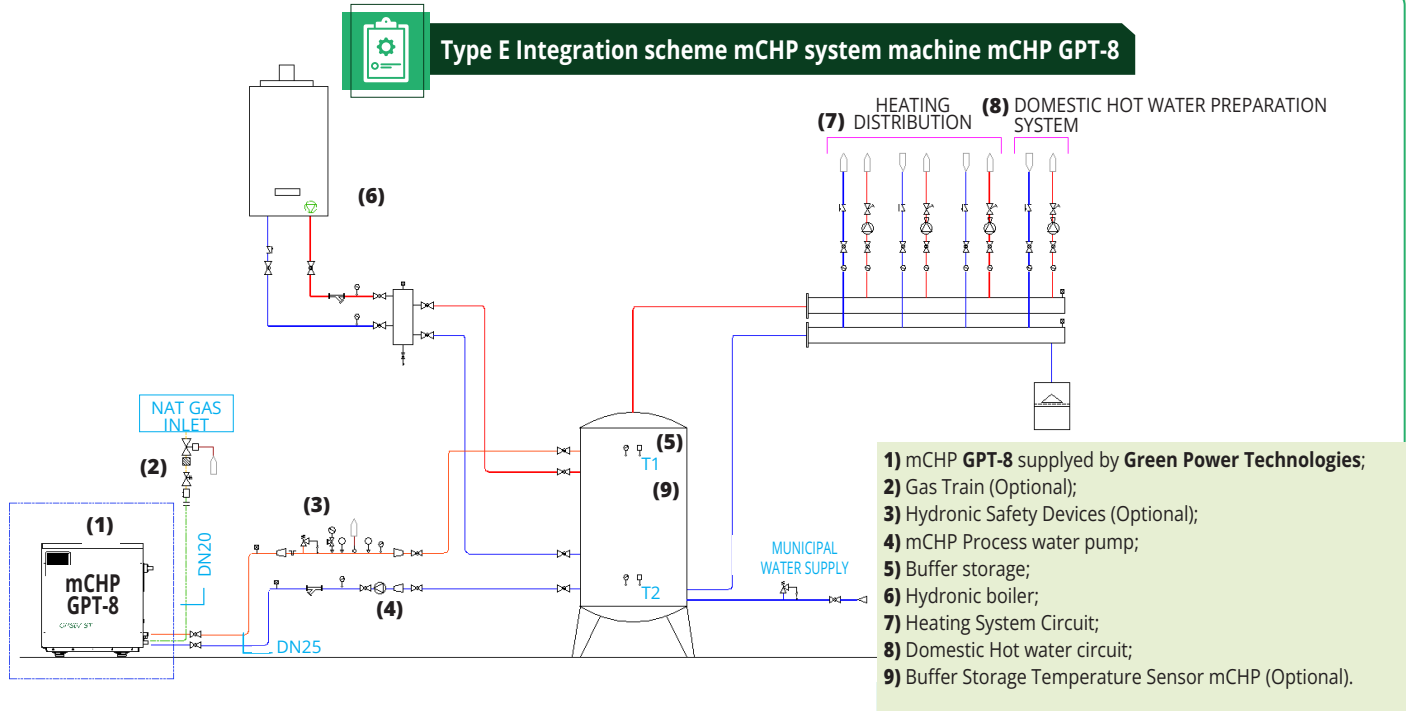


SPECIFICATIONS		GPT-8	
EFFICIENCY	Overall	96%	
	Electric	29%	
	Thermal	67%	
COMPACT DIMENSIONS	W x D x W	42.5 in. x 29.7 in. x 0.5 in.	
	Weight	890 lb	
POWER	Output mCHP	Production	7.88 kW
		Voltage/Hz	208/240 V @ 60Hz*
		Phases	1 ϕ
	Input mCHP	Auto-consumption	175 W
Voltage/Hz		120V @ 60Hz	
HEAT	Production	64831 BTU (0.65 Thm) ($\pm 5\%$) @ 167°F out CHP; 68243 BTU (0.68 Thm) ($\pm 5\%$) @ 140°F out CHP	
	ΔT_{max}	6 K ($\pm 2\%$) @ nominal flow	
	Output Water Tmax (Max Recommended)	167°F (185°F with water flow reduction @ building side)	
	Max Technical Water Flow	10.5 GPM	
	Technical Water	H ₂ O/ H ₂ O + glycol **	
Overheat protection	Engine STOP Teng>199°F		
FUEL	Type	Natural gas	
	Consumption	94858 BTU (0.95 Thm) ($\pm 3\%$)	
	Supply pressure	4 inch WC	
SOUND	Level	59 dB	
ENGINE	Characteristics	Type	VW 2.0 I
		Speed	1.700 rpm
		Mech. Shaft load	8.3 kW _s ($\pm 2\%$)
	Exhaust	Output T max	200°F
Output Pressure max		12 inch WC	
ADDITIONAL DATA	Output machine-input inverter	437V DC (max 580V DC @ open circuit)	
	Generator	Brushless As. 250Hz	
	External Water circuit connection	G1"	
	External Gas supply connection	G 1/2 "	
	Max Terminal Wire Size	AWG 13	
Max Hydraulic Pressure @ building	1.200 inch WC/ 43.5 psi		
CERTIFICATION	NEC Code 2017		
	UL1004-4 2nd Edition		
US EPA Methods 1-4 & 7E for NO _x : - Outperforms NYSERDA Certification limit, testing to US EPA standards <1.6MWhe			

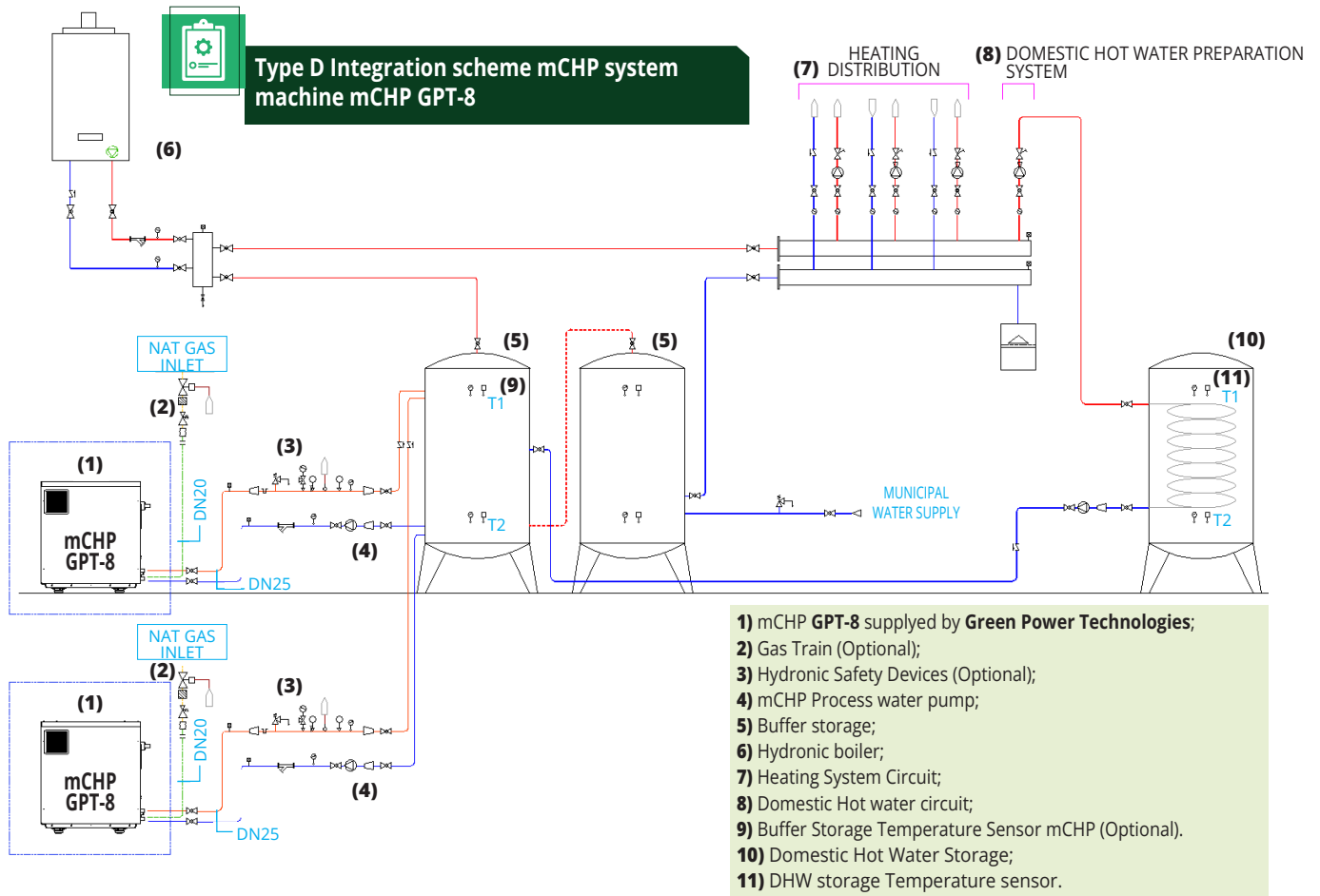
*depends of customer's grid **in case of low external temp

INSTALLATION EXAMPLES

Type E Integration scheme mCHP system machine mCHP GPT-8



Type D Integration scheme mCHP system machine mCHP GPT-8



These drawings do not replace any technical design, from engineer or installer. These are installation example for Green Power Technologies micro-cogenerator. The application must be designed, calculated and verified by a qualified engineer or installer.

Before installation verify the rules and local regulations that must be observed.