



# Nedstack

Nedstack  
PEM FUEL CELLS

## PemGen CHP-FCP-500



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# PemGen

## CHP-FCP-500

The CHP-FCP-500 is a Combined Heat Power PEM Fuel Cell Plant intended for co-generation applications in the built environment. The CHP-FCP-500 is optimized for integration in fourth generation heat-grids and allows for seamless integration in electricity grids of all sorts by using commercial-off-the-shelf power electronics.



<b>GENERAL</b>	Fuel Cell Type	Low Temperature Proton Exchange Membrane (LT-PEM)
	Fuel Cell Model	60 x Nedstack FCS 13-XXL
<b>CO-GENERATION OUTPUT</b>	Max. Electric Power	626 kWe
	Nominal Electric Power	500 kWe
	Electric Output Type	Configure to order
	Heat Output Power	520 kW
	Heat Output Type	Heat exchanger interface @ 60-70°C
<b>DIMENSIONS</b>	Weight	15000 kg
	Built Level	20 ft ISO Container
	Length	6.06 m
	Width	2.44 m
	Height	2.59 m
<b>HYDROGEN FEED</b>	Quality	Grade $\geq 2.5$ (CO < 0.2 ppm)
	Supply Pressure	0.3 – 6 barg
	Max. Consumption	45 kg/h
<b>INTERNAL COOLANT</b>	Coolant Type	DI water or BASF FC G20
<b>ENVIRONMENTAL</b>	Installation	Fit for outdoor installation
	Intended climate	Koppen class C: Mesothermal climates Other climatization packages available
<b>APPLICATION</b>	Intended Use	Residential blocks Commercial and insitutional facilities Chemical sites Ports
	Placement	To be placed on flat surface
<b>SAFETY</b>	Compliance	IEC-62282-2 IEC-62282-3 2006/95/EC 2006/42/EC 2004/108/EC