



# AEM FLEX 120

ENABLES THE LAUNCH OF GREEN HYDROGEN IN PILOTS RANGING FROM INDUSTRIAL PROCESS HEAT TO REFUELLING



## AEM Flex 120

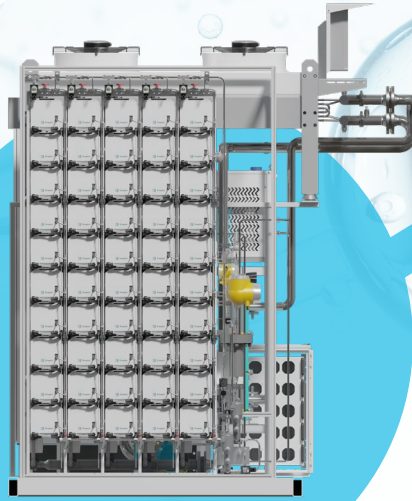
- Extremely high availability and built-in redundancy
- Automated & remote operation with Enapter's EMS
- Quick and easy installation (skid mounted)
- Low maintenance requirements
- Rapid reaction time to intermittent renewables

<b>H<sub>2</sub> nominal flow</b>	25 Nm <sup>3</sup> /h 53.9 kg/24h	Netvolume flow rate
<b>H<sub>2</sub> outlet pressure</b>	Up to 35 barg	
<b>H<sub>2</sub> purity</b>	99.95% in molar fraction, equals dew point of -30 °C	Impurities: H <sub>2</sub> O < 500 ppm, O <sub>2</sub> < 5 ppm
<b>H<sub>2</sub> purity with optional dryer</b>	99.999% in molar fraction, equals dew point of -65 °C	Impurities: H <sub>2</sub> O < 5 ppm, O <sub>2</sub> < 5 ppm
<b>H<sub>2</sub> outlet temperature</b>	5 -55 °C	
<b>O<sub>2</sub> nominal flow</b>	12.5 Nm <sup>3</sup> /h	Vented at atmospheric pressure
<b>Nominal power</b>	120 kW	Beginning of life (BOL)
<b>Consumption</b>	150 kW	Near end of life (EOL)
<b>Voltage</b>	3 x 400VAC	±10 %
<b>Frequency</b>	50/60 Hz	±10 %; THD < 5%
<b>H<sub>2</sub>O nominal consumption</b>	23 L/h	Purified water
<b>H<sub>2</sub>O inlet quality</b>	Minimum ASTM D1193-06 Type IV or recommended Type II or Type III <sup>1</sup>	
<b>H<sub>2</sub>O inlet temperature</b>	5 -55 °C	1- 4 barg
<b>Operational flexibility</b>	12%-100 %	Of nominal H <sub>2</sub> , flowrate
<b>Turndown ratio</b>	8:1	Maximum flow/Minimum flow
<b>Specific power consumption (Efficiency)</b>	4.8 kWh/Nm <sup>3</sup> H <sub>2</sub> 53.3 kWh/kgH <sub>2</sub> 62.5% (LHV)	Including all utilities inside the battery limits of the AEM Multicore (at BOL)



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<b>Hot startup time</b>	0 - 100% in 100 seconds	Electrolyte is at min. 35 °C
<b>Cold startup time</b>	0 - 100% in 30 minutes	Assuming 5 °C ambient temperature
<b>Shut down time</b>	100 - 0% in 3 minutes	Normal, gradual shut down
<b>Hot standby power consumption</b>	20 kW Max.	Stacks are hydrated and electrolyte circulates at min. temperature (35 °C)
<b>Type of installation</b>	Indoor	5 - 35 °C
<b>Process heat output</b>	35 kW	BOL; ~ 50 °C
<b>Dimensions</b>	3.2 x 2.5 x 3 m	(L x W x H)
<b>Transport dimensions</b>	Fits inside 20 ft high cube container	
<b>Weight</b>	~ 3,700 kg	

