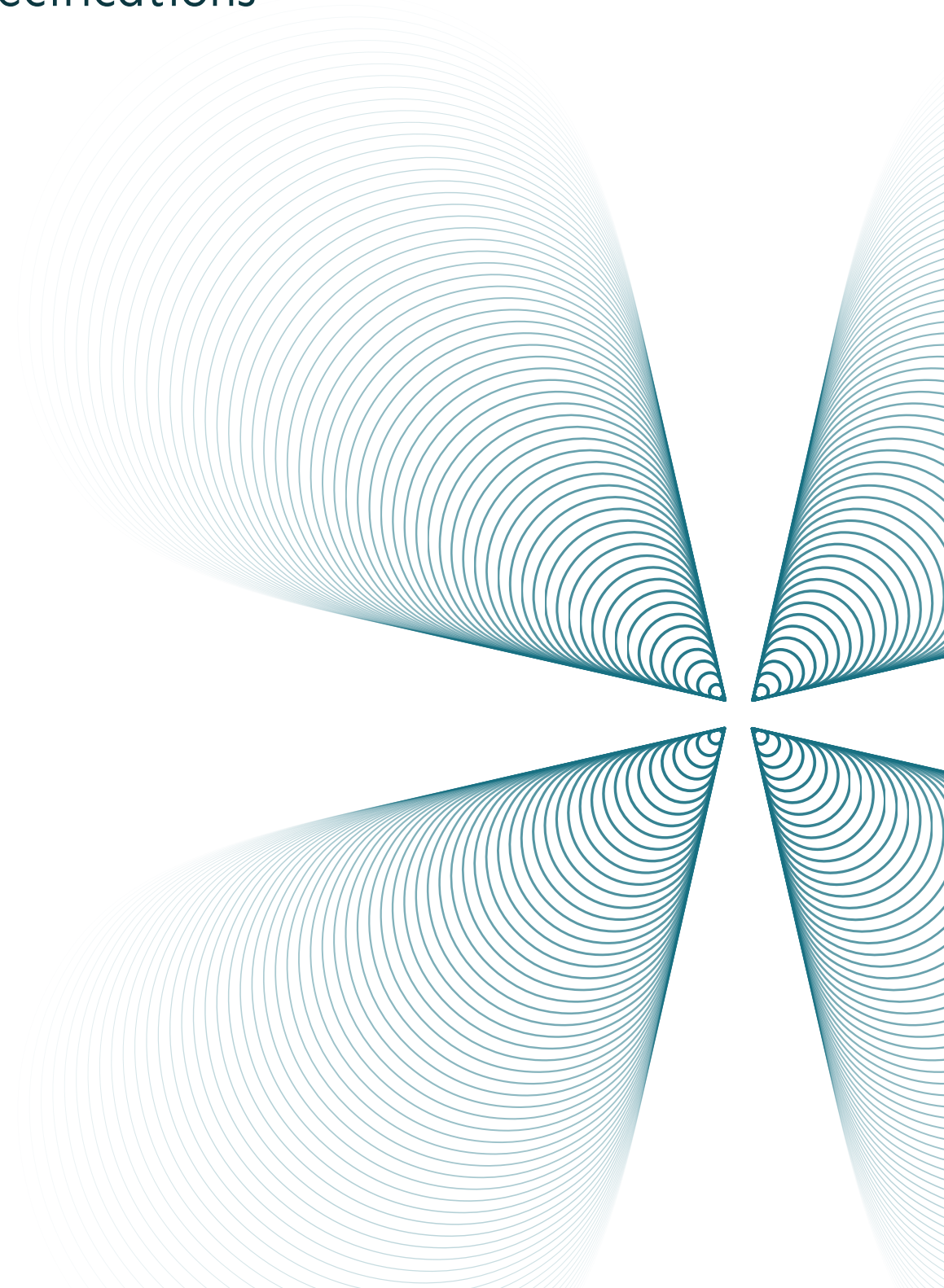


Hystar's

technical specifications



Technical overview

System specifications*

Vega™	200	400	900	Unit
Nominal power	0.9	1.9	3.7	MW
Operating range	25 - 110	25 - 110	25 - 110	%
Container size ^{1,2,3}	40	2 x 40	2 x 40	ft
H ₂ production ⁴	20.3	40.7	81.4	kg/h
	226	452	905	Nm ³ /h
Energy consumption ⁴	4.1	4.1	4.1	kWh/Nm ³
	46.0	46.0	46.0	kWh/kg
System efficiency ⁴	79.0	79.0	79.0	% HHV
System energy consumption ⁴	4.5	4.5	4.5	kWh/Nm ³
	50.0	50.0	50.0	kWh/kg
<hr/>				
Mira™	300	600	1200	Unit
Nominal power	1.4	2.8	5.5	MW
Operating range	15 - 100	15 - 100	15 - 100	%
Container size ^{1,2,3}	40	40	2 x 40	ft
H ₂ production ⁴	28.2	56.4	112.9	kg/h
	314	627	1255	Nm ³ /h
Energy consumption ⁴	4.4	4.4	4.4	kWh/Nm ³
	48.8	48.8	48.8	kWh/kg
System efficiency ⁴	73.0	73.0	73.0	% HHV
System energy consumption ⁴	4.9	4.9	4.9	kWh/Nm ³
	54.2	54.2	54.2	kWh/kg

* Specifications are preliminary and may be subject to change

Both models		Unit
H ₂ outlet pressure	4.0	bar(g)
H ₂ outlet temperature	30	°C
H ₂ purity ⁵	> 99.97	%
Ambient temperature	-20 to 40	°C
Cold start-up time	< 5	minutes
Warm start-up time	< 10	seconds
Dynamic response	- 100 to 100	% / s
Communication interface	Ethernet / WiFi/ Cellular	

¹ Excluding medium-voltage transformer.

² Excludes vent and rooftop equipment.

³ One container is sized 12.2 x 2.45 x 2.9 m

⁴ At rated production capacity at the Beginning of Lifetime (BOL).

⁵ Hydrogen impurities are oxygen, water, nitrogen. Additional purification can be applied upon request.

All Hystar systems are compliant with

- ✓ ISO-22734 2019
- ✓ the Low Voltage Directive (2014/35/EU)
- ✓ the Machine Directive (2006/42/EC)
- ✓ the ATEX (2014/34/EU)

