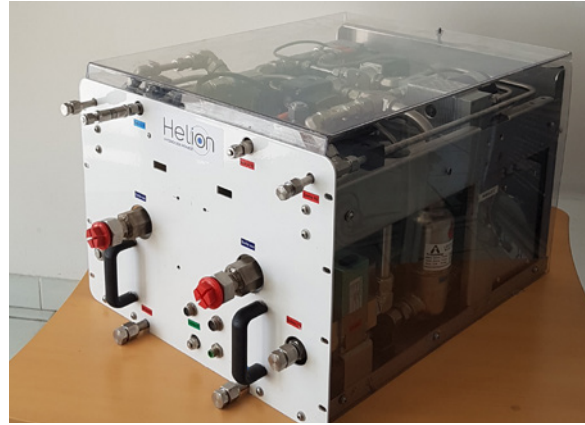


HEAVY DUTY FUEL CELL PRODUCTS

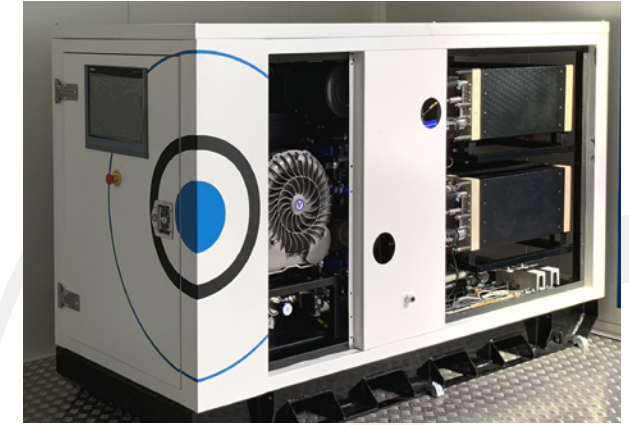
H₂/AIR PEM* TECHNOLOGY



FUEL CELL MODULES



FUEL CELL RACKS



Technical data at BOL**	FCM 5	FCM 10	FCM 15	FCM 20	FCM 30	FCM 40
Nominal / Max Net power, kW***	4.5 / 6	7.5 / 10	11.5 / 15	16 / 22	22 / 30	30 / 41
Voltage range (DC), V	41 - 84	67 - 137	103 - 210	41 - 84	57 - 116	78 - 158
Current range (DC), A	0 - 165	0 - 165	0 - 165	0 - 582	0 - 582	0 - 582
Efficiency at Nominal / Max power, %	48 / 43%					
Number of Racks						
Dimensions per unit H x W x L, mm	350 x 450 x 650	350 x 450 x 950	350 x 450 x 1250	600 x 450 x 650	600 x 450 x 800	600 x 450 x 950
Total module weight, kg	52	60	68	118	131	150
H ₂ purity required	ISO 14687 (2019)					
H ₂ consumption at Nominal / Max power, kg/h	0.29 / 0.43	0.46 / 0.71	0.71 / 1.09	1.00 / 1.53	1.38 / 2.10	1.88 / 2.87
Air quality	Ambient filtered by default / Adaptable depending on environmental conditions (sea, dust, etc.)					
Stack coolant	Glycol and deionized water					
Life warranty, h	10 000					

FCR 90	FCR 180	FCR 350	FCR 700	FCR 1000	FCR 2000
67 / 89	134 / 178	268 / 355	536 / 710	804 / 1080	1608 / 2160
165 - 336	330 - 672	662 - 1344	662 - 1344	662 - 1344	662 - 1344
0 - 582	0 - 582	0 - 582	0 - 1164	0 - 1746	0 - 3493
50 / 43%					
0,5	1	2	4	6	12
500x600x2000	1000x600x2000				
500	727	1454	2908	4362	8724
ISO 14687 (2019)					
4.0 / 6.1	8.0 / 12.3	16.1 / 24.5	32.2 / 48.9	48.2 / 73.7	96.5 / 147.4
Ambient filtered by default / Adaptable depending on environmental conditions (sea, dust, etc.)					
Glycol and deionized water					
10 000					

Data and product appearance contained in this brochure can change and cannot be considered as contractually binding

* Proton Exchange Membrane

** Beginning Of Life

*** Including air cooling for FC modules, excluding air cooling for FC racks

YOUR PRODUCT «A LA CARTE» ...



FUEL CELL MODULES / RACKS

ELECTRICAL BOX
CONTROL ELECTRONICS



"ALL IN-A-BOX" & TRANSPORTABLE



TURNKEY H₂ PLATFORM

CHOOSE YOUR OPTION



POWER CONVERTER



H₂ STORAGE



HEAT / COLD PRODUCTION



AIR / WATER COOLED



CONTAINERIZATION



H₂ ONSITE PRODUCTION



UPS / ISLANDING MODE



EV CHARGING / H₂ REFUELING

... DEPENDING ON YOUR APPLICATION

HEAVY MOBILITY



Train



Inland shipping



Marine

STATIONARY



Onshore power supply



Backup



Genset

ENERGY STORAGE



Smart grid



Remote site



Renewable energy storage