

HYDROGEN GAS GENERATORS

EsseCi
Group



NM-H₂ PLUS ULTIMATE series



The new **EsseCi NM-Plus ULTIMATE SERIES** use the newest PEM (Proton Exchange Membrane) technology for production of pure hydrogen by water electrolysis.

Only pure water, distilled or deionized, is required to provide trouble free long-term production of Hydrogen.

The water conductivity is continuously monitored before entering into electrolysis cell to ensure a good quality of produced hydrogen. The hydrogen gas stream passes two drying steps with **NO MAINTENANCE** by the operator.

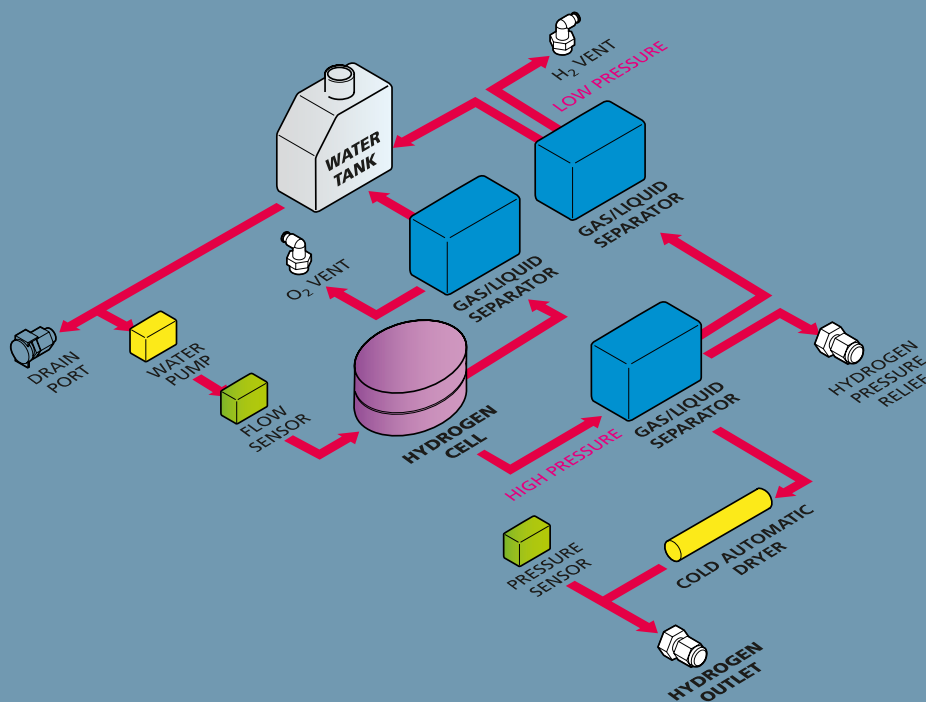
The small internal gas volume (<40 ml) makes it safe for operation in spaces where hydrogen cylinders are restricted or not allowed. The auto shut-off procedure sets the unit in standby in case of internal error. Selectable alarms inform the user whenever operating conditions vary from set point.

The “cascading-option” allows the parallel operation of up to 32 Hydrogen gas-generators - controlled by a single unit.

Remote control and automatic water refill for longer autonomy of the instrument are available.

- ✓ PEM Technology - NO ALCALI
- ✓ Outlet pressure 11 bar
- ✓ No dryer cartridges to regenerate
- ✓ Easy to install and operate
- ✓ Certifications- CE, CSA-UL, ATEX

NM-PLUS ULTIMATE Series OPERATING DIAGRAM



NM-H₂ PLUS ULTIMATE series

MODELS AVAILABLE 100, 160, 250, 300, 500, 600, 1000 ml/min.

PURITY : 99.99999%

Exclusive cold dual dynamic regeneration system

CONTROL : full microprocessor control, LCD touch screen interface or push buttons

real time outlet pressure water

level and water quality sensors

autodiagnosics with alarms H₂ leak

detectors earthquake/shock sensor

flowmeter

Optimized powerful water pump for PEM cell

Low energy consumption

Software upgrade by standard USB

IDEAL for

- Flame ionization detector (FID)
- Carrier gas for Fast-GC and GC-MS
- Collisions on ICP-MS
- Small fuel-cell cylinder refills



MODELS	NM - 330 PLUS	NM - 630 PLUS
Flow ml/min.	330	630
Weight (kg)	17	18
Cascading	YES (Up to 32 units)	
Technology	polymer electrolyte membrane (PIM)	
Dryer	exclusive cold dual dynamic regeneration system	
Purity	99.99999%	
Outlet pressure	1-160 psig/0.1-11 barg	
Internal volume	< 50 ml	
Display	touch screen with operating parameters, system status, alarms	
LED indicators	power on/off, system ready, errors	
Options	RS232/RS485 and USB, autorefill, external contacts, PC control, intranet	
Water quality	deionized or demineralized	
Power	110-120V 60Hz / 220-240V 50Hz	
Dimensions (mm)	230W x 430H x 353D	
Connections	1/8 swagelock	
Certification	CI, CSA-UL, ATIX	