



HYDROGEN

SIRIO
PEM H₂ GENERATORS



PURE HYDROGEN GENERATOR

for heat treatments and **biomethanation**
per trattamenti termici e biometanazione

- Absolute Purity of the Gas
Purezza assoluta del Gas
- Easy to use
Facile da usare
- Low Consumption
Basso consumo
- Plug & Play System
Sistema Plug & Play
- No maintenance
Nessuna manutenzione
- One unit, no auxiliaries
Una unità, niente ausiliari

  TECHNOLOGY
BY ERREDUE



MODELS AVAILABLE

The new Sirio on-site hydrogen generator, thanks to the very high levels of purity guaranteed by the ErreDue's PEM (Proton Exchange Membrane) technology, perfectly meets the needs of those applications where a moderate amount of pure and compressed gas is required, such as metal heat treatment and Biomethane production processes.

Sirio is Plug & Play: thanks to its simplicity of use and its autonomy, it is sufficient to connect it to an electrical power source and fill the tank with water to immediately produce pure hydrogen at the necessary pressure and flow rate. In fact, it does not require any auxiliary system: the unit includes a generator, the water tank and a purification system for the produced gas.

The hydrogen flow rate starts from 0.5 m³/h up to 20 m³/h, it's also possible to connect several systems in parallel. The maximum pressure generated reaches 15 bar in the standard models and is customizable up to 30 bar on request.

SirioErreDue hydrogen generators can be monitored and managed remotely thanks to the integrated connectivity and ErreDue's remote assistance service.

	SIRIO 50	SIRIO 75	SIRIO 100	SIRIO 125	SIRIO 150	SIRIO 175	SIRIO 200	SIRIO 500	SIRIO 1000	SIRIO 1500	SIRIO 2000
GAS FLOW RATE (NM3/H)	0.5	0.75	100	1.25	1.5	1.75	2	5	10	15	20
GAS PURITY “N” VERSION	99.995%										
GAS PURITY “D” VERSION	99.999%										
GAS DEW POINT “N” VERSION	≤-25°C										
GAS DEW POINT “D” VERSION	≤-65°C										
WORK PRESSURE	15 bar (optionals 30 bar)										
AVERAGE ELECTRIC CONSUMPTION	4.6kW/m³										
POWER SUPPLY	3x400Vac+N - 50/60Hz										
WATER CONSUMPTION AT MAXIMUM POWER	0.4 l/h	0.6 l/h	0.8 l/h	1 l/h	1.2 l/h	1.4 l/h	1.6 l/h	4.1 l/h	8.3 l/h	12.6 l/h	16.9 l/h
DIMENSIONS mm (L X W X H)	720x1360x1900							900x1900x2015		1200 x2300 x2400	
GAS CONNECTION	¼” gas							⅜” gas			
NETWORK CONNECTION	Ethernet - Modbus TCP/IP										
GAS LEAK DETECTOR	Included										



I generatori di idrogeno Sirio ErreDue possono essere monitorati e gestiti a distanza grazie alla connettività integrata e al servizio di assistenza remota ErreDue.

	SIRIO 50	SIRIO 75	SIRIO 100	SIRIO 125	SIRIO 150	SIRIO 175	SIRIO 200	SIRIO 500	SIRIO 1000	SIRIO 1500	SIRIO 2000
PORTATA GAS (NM3/H)	0.5	0.75	100	1.25	1.5	1.75	2	5	10	15	20
PUREZZA GAS VERSIONE “N”	99.995%										
PUREZZA GAS VERSIONE “D”	99.999%										
GAS DEW POINT VERSIONE “N”	≤-25°C										
GAS DEW POINT VERSIONE “D”	≤-65°C										
PRESSIONE DI LAVORO	15 bar (30 bar optional)										
CONSUMO ELETTRICO MEDIO	4.6kW/m³										
ALIMENTAZIONE ELETTRICA	3x400Vac+N - 50/60Hz										
CONSUMO ACQUA ALLA MASSIMA POTENZA	0.4 l/h	0.6 l/h	0.8 l/h	1 l/h	1.2 l/h	1.4 l/h	1.6 l/h	4.1 l/h	8.3 l/h	12.6 l/h	16.9 l/h
DIMENSIONI (L X P X H)	720x1360x1900							900x1900x2015		1200 x2300 x2400	
CONNESSIONE GAS	¼” gas							⅜” gas			
CONNESSIONE RETE	Ethernet - Modbus TCP/IP										
RILEVATORE DI FUGHE DI GAS	Incluso										



DON'T
BUY GAS
**GENERATE
IT!**



 Sirio generators are entirely designed and manufactured in Italy by:
I generatori Sirio sono interamente progettati e fabbricati in Italia da:

RR
ErreDue
ON SITE GAS GENERATORS

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