

HYDROGEN GENERATION SYSTEM

 WWW.DAWNBREEZE.IR

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Green NSGH Series

DAWN BREEZE On-site Hydrogen Generators are outcome of more than a decade of Experience in Continuous Production of Hydrogen Gas.

we are aware of all your needs as we are not only manufacturing generators but also producing gas

System Advantages

Purity: The systems produce Ultra High Purity Hydrogen (99.9996%+) Level of impurities of the products is less than 4 parts per million (V)

Durability:
20 Years lifetime in Normal working condition

Easy to Install:
Easy and fast installation
+ User friendly platform

Easy to Operate:
The systems are fully PLC Controlled, using specific interface that demonstrates parameters on electronic devices such as mobile phones, Laptop,... Includes 10" HMI, User friendly and easy to operate

Reliability:
The systems will be fully examined in production line in accordance with ISO 22734:2019, to ensure reliability of the Products .

On-Site On-Demand Gas Production:
Capacity to produce Ultra High Purity Gas as per customer's demand

Compact Design:
Minimum required Space and easy to maintain/install



Green NSGH Series Specification

MODEL	NSGH-5	NSGH-10	NSGH-15	NSGH-20
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HYDROGEN

HYDROGEN PURITY: 99.9996% + , HYDROGEN DELIVERY PRESSURE: 7 BAR(G)

HYDROGEN MAXIMUM PRODUCTION RATING:

Nm3/Hr.	5	10	15	20
Kg/Day	10.7	21.4	32.1	42.9

OXYGEN

OXYGEN PURITY: 99.999% + , OXYGEN DELIVERY PRESSURE: 6 BAR(G)

OXYGEN MAXIMUM PRODUCTION RATING:

Nm3/Hr.	2.5	5	7.5	10
Kg/Day	85.7	171.5	257.2	343

FEED DM WATER

DM WATER * CONSUMPTION:

Lit./Hr.	5	10	15	20
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*DM WATER SPECIFICATION (ASTM D1193-99,TYPE IV)

COOLING WATER:

MAX. INLET TEMP.	40 °C	40 °C	40 °C	40 °C
HEAT LOAD (KW)	11.6	23.2	34.8	46.4

CHILLED WATER:




MAX. INLET TEMP.	8 °C	8 °C	8 °C	8 °C
HEAT LOAD (KW)	1.2	2	3	4

NITROGEN REQUIREMENT:

NITROGEN PURITY: 99.99%+	NITROGEN PRESSURE	5-15 BAR(G)
NITROGEN CONSUMPTION PER COLD START-UP	Avg. 0.5 Nm3	

Model	NSGH-5	NSGH-10	NSGH-15	NSGH-20
A	220 cm	240 cm	260 cm	240 cm
B	100 cm	100 cm	100 cm	100 cm
C	180 cm	180 cm	180 cm	180 cm

• Specifications are subject to change

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