



**TELEDYNE  
ENERGY SYSTEMS, INC.**

A Teledyne Technologies Company



### Highest Quality Construction and Design

Custom designed and built by skilled engineers and technicians right in our facilities, shipped ready to connect—anywhere in the world.

## TITAN™ HYDROGEN GENERATORS— AT THE HEART OF EVERY SYSTEM WE BUILD

### TITAN™ HMXT Series Skid

H<sub>2</sub> Flow: 50 SLM to 200 SLM



### TITAN™ EC Series Skid

H<sub>2</sub> Flow: 500 SLM to 750 SLM



### TITAN™ EL Series Skid

H<sub>2</sub> Flow: 1000 SLM to 1400 SLM



Teledyne Energy Systems' advanced engineering staff has been providing trusted on-site hydrogen generation around the world for over 40 years. Decades of engineering excellence and experience go into every project. Alkaline Electrolysis is a mature and well known technology that has been utilized for industrial hydrogen production for over 50 years.



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# H<sub>2</sub>Oasis™

## A COMPLETE HYDROGEN GENERATION PLANT

Self-Contained, Easily Integrated and Ready For Hookup



H<sub>2</sub>Oasis™ Hydrogen Gas Station is a self-contained hydrogen plant in prefabricated shelters that can be situated anywhere that hydrogen production is required. Hydrogen gas can be produced at purities of 99.9998%\*, and flow rates from 50 standard liters per minute to 1400 standard liters per minute at 10 Bar. Higher delivery pressures are available with an optional compressor. This range of operation lends the containerized systems to be used in a wide variety of industrial applications such as power plants, semiconductor, float glass, and metals fabrication.

### Versatile, Safe and Tested

The H<sub>2</sub>Oasis™ provides customers the flexibility to redeploy the unit to other locations if required. The

system is designed for elimination of separate building design and construction, ease of installation, operation, reliability, and safety. The H<sub>2</sub>Oasis™ is factory assembled and tested so that the entire system is integrated by engineers and skilled technicians having many years of equipment experience.

### Site-Ready

The H<sub>2</sub>Oasis™ generating station is completely self-contained requiring only utility inputs such as electrical power, cooling water, feedwater, and a properly constructed foundation. H<sub>2</sub>Oasis™ consists of two rooms, one for the gas generation (which can be classified as Class I, Division 2, Group B) and one for electrical equipment and other ancillary equipment.



# THE *H<sub>2</sub>Oasis*<sup>™</sup> ADVANTAGE

**STRUCTURAL SAVINGS:** Systems are delivered fully populated and completely serviceable. Requires no civil or capital expenditures. Only sound structural surface preparation and appropriate facility hook-ups are required.

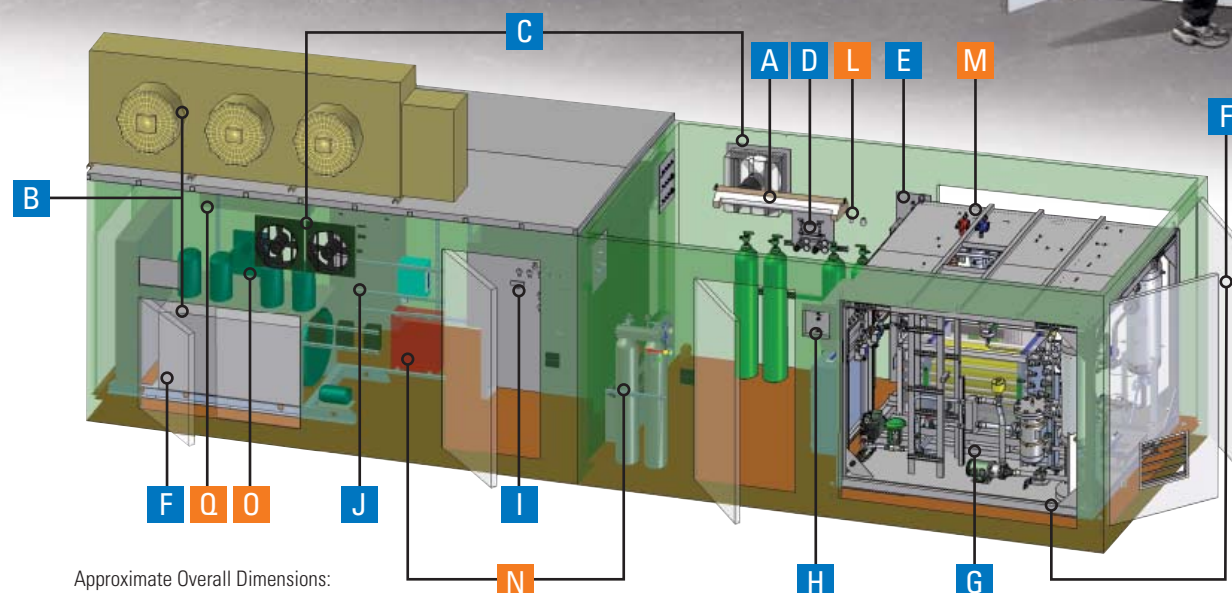
**SAFETY:** Systems are integrated to meet Class 1 Div 2 Group B requirements. May include ancillary equipment such as power distribution panel to all internal equipment, explosion proof lighting and switches, proper heating and ventilation, and N<sub>2</sub> fire suppression to maintain good safety practices.

**EASE OF MAINTENANCE:** Periodic maintenance or repairs can be executed without dismantling equipment. Service access doors provide free access to all equipment allowing for better serviceability.

**VERSATILE DESIGN:** Along with our standard self-contained electrolysis shelters, our custom engineering capabilities allow for specific shelter layouts to meet your particular needs.

**RELIABILITY:** Systems arrive with the superb quality customers expect from Teledyne—equipment is pretested and ready for commissioning and final testing onsite.

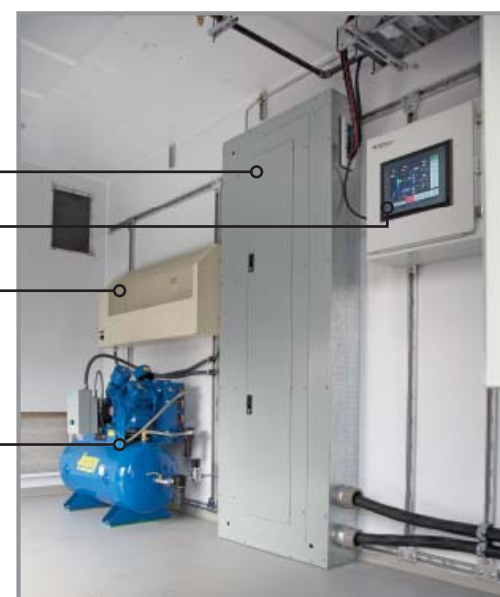
**TRANSPORTATION EASE:** Teledyne's modular 18ft systems are designed to ship on normal carriage flat racks while also allowing for simplicity of handling. This design will ease the movement of the H<sub>2</sub> system from the manufacturing site to its final location and may reduce site preparation costs.



Approximate Overall Dimensions:  
Length: 1097.28 cm | 36 ft  
Height: 294.84 | 9 ft  
Width: 274.32 cm | 8 ft

## Standard Features

- A** Interior Lighting
- B** Split Chiller/Condenser
- C** Ventilation Fans
- D** N<sub>2</sub> Purge Panel
- E** Interface Panel: H<sub>2</sub> Delivery/H<sub>2</sub> Vent
- F** Service Access Doors
- G** H<sub>2</sub> Generator (EC Series Shown)
- H** Interface Panel: Feedwater/O<sub>2</sub> Vent
- I** Hydrogen Generator Power Supply
- J** Power Distribution Panel
- K** Cable Trays
- Engineered Deck, Walls, and Ceiling Load Design to Resist Wind Shear and Snow Loading
- Exterior Wall Insulation: R-13 Rating
- Roof Insulation: R-20 Rating
- Floor Insulation: R-19 Rating
- Interior Ceiling Height: 8 ft
- Interior Deck Loading Design: 250 lb./ft<sup>2</sup>
- Interior Decking: 3/16" Carbon Steel Primed and Coated with Gray Non-skid Epoxy
- Lifting Lugs



## Optional Features

- L** Hygrometer
- M** O<sub>2</sub> and H<sub>2</sub> Combustible Gas Sensors
- N** N<sub>2</sub> Fire Suppression System
- O** Air Compressor (EC Model)
- P** H<sub>2</sub> Generator Remote Touch Screen Control
- Q** Heater
- R** H<sub>2</sub> Compressor