

TITAN™ HMXT SERIES

On-site Hydrogen Generation System

Teledyne Energy Systems builds decades of engineering excellence into every hydrogen generator system, ensuring the most reliable and durable on-site hydrogen solutions available.

TITAN™ HMXT Advantages

Ultra Pure Gas

Ultra pure (99.9998%) gas generation increases equipment life, saving considerable maintenance and replacement costs.

Proven Reliability

Durable stainless steel process components maximize system life. Demonstrated life span of 25+ years.

Comprehensive Installation

Every TITAN™ hydrogen generator system is fully assembled and skid-mounted for trouble-free shipping and simple installation.

Fully Tested

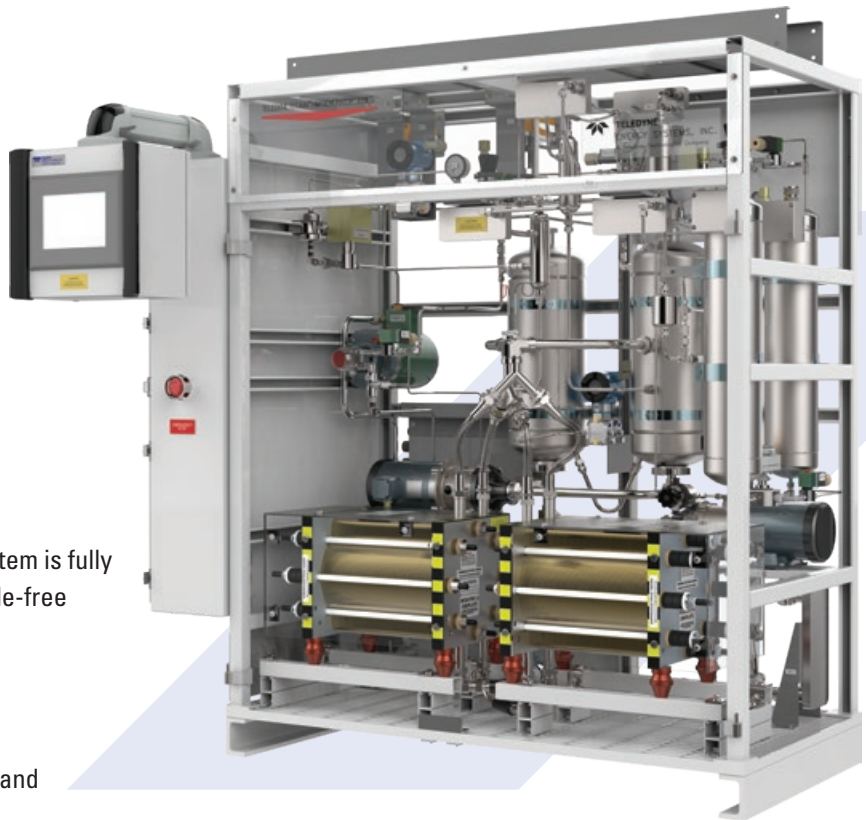
Each unit is thoroughly factory-tested to meet Teledyne's exacting standards and exceed industry codes.

On Demand Gas Delivery

- Pressure up to 150 psig (10 barg)
- Maximum flow delivery ranges of 50, 100 and 200 SLM
- Higher flow delivery ranges available to meet your specific hydrogen requirements

Custom Engineered Design

Custom-engineered hydrogen generating solutions available for optimum integration with existing plant infrastructure.



Safe, Unattended Operation

- PLC controlled with 10" HMI touch-screen interface
- Fully automatic operation with on-board diagnostics
- Minimal on-board gases and no sparking components
- Uninterruptible Power Supply (UPS) ensures system control in the event of power outage
- Remote monitoring and operation option
- O₂ byproduct is safely vented outside your facility or can be optionally configured for use in your process

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MODEL		HMXT-50	HMXT-100	HMXT-200
Hydrogen Gas Production				
Max Flow Rate	SLM	50	100	200
	Nm ³ /hr	2.8	5.6	11.2
	scfh	106	212	424
	kg/day	6.0	12.0	24
Hydrogen Delivery Pressure	Bar gauge	10.6		
	psig	150		
Hydrogen Purity		99.9998%*		
Oxygen Gas Production				
Max Flow Rate	SLM	25	50	100
	Nm ³ /hr	1.4	2.8	5.6
	scfh	53	106	212
Oxygen Delivery Pressure	Bar gauge	9.6		
	psig	140		
Oxygen Purity		99.999%*, **		
* Subject to ambient and cooling water temperatures, as well as dissolved gas contained in Feed Water A separate supply of cold (11°C) cooling water is required				
** With use of Oxygen Purification Package supplied separately. A separate supply of cold (11°C) cooling water is required.				
Feed Water Consumption				
	l/hr	2.55	5.11	10.2
	g/hr	0.7	1.4	2.7
Power Supply				
Voltage		Factory Configured, 380-480 vac, 3 Phase		
Frequency		50 or 60 Hz		
Cooling Water				
Max Inlet Temp.	°C	40		
	°F	104		
Max Flow	lpm	40		
	gpm	11		
Pressure Drop	Bar gauge	1.75		
Main Heat Load	watts/slm H2	127.5		
Condenser Cooling Water				
Max Temperature	°C	up to 10		
Max Allowable Pressure	Bar gauge	7		
Required Flow	lpm	4		
	gpm	1.1		
Pressure Drop	Bar gauge	0.35		
Main Heat Load	kW	1.5 to 2.25		
Purge Gas				
	Bar gauge	5.3 to 17.5		
	psig	75 to 250		
Feed Water Specification				
Min. Resistivity	MegOhm-cm	0.2		
Min Supply Pressure	Bar gauge	0.4		
Pressure Drop	psig	0.5		

Normal Conditions: 0°C and 1 atm (32°F and 14.7 psia). Standard Conditions: 20°C and 1 atm (68°F and 14.7 psia). System to be installed indoors in a protected environmental between 5°C and 50 °C. Specifications subject to change.