



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 with continuous purity monitoring 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

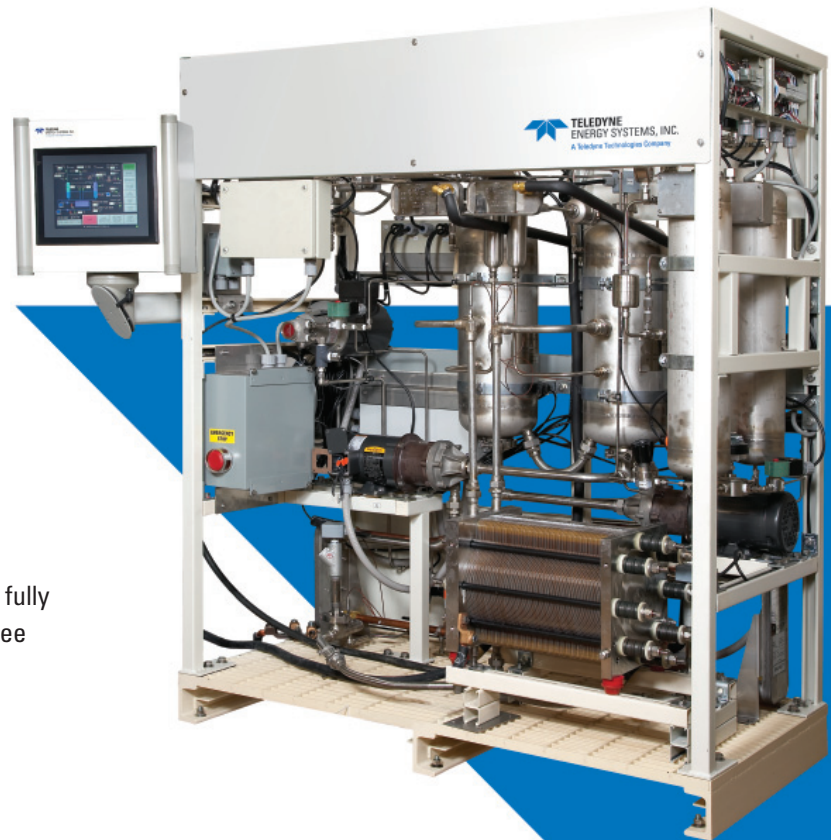
Each unit is thoroughly factory-tested to meet Teledyne's exacting standards and exceed industry codes.

On Demand Gas Delivery

- Operator adjustable pressure up to 150 psig (10 barg)
- Maximum flow delivery ranges of 50, 100, 200 and 215 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

- 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

TELEDYNE TITAN™ HMXT SERIES

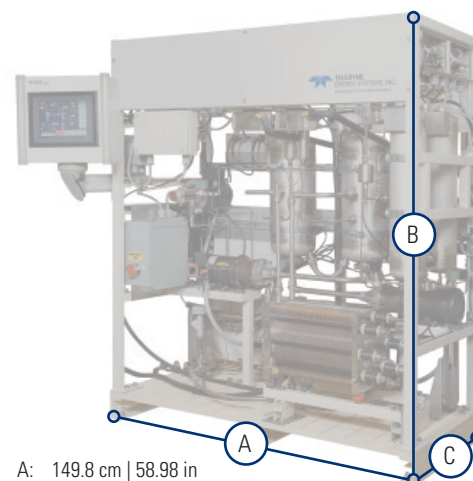
MODEL		HMXT-50	HMXT-100	HMXT-200	HMXT-215***
Hydrogen Gas Production					
Max. Flow Rate	SLM	50	100	200	215
	Nm ³ /hr	2.8	5.6	11.2	12
	scfh	106	212	424	456
	kg/day	6.5	13	26	28
Oxygen Gas Production					
Max. Flow Rate	SLM	25	50	100	107
	Nm ³ /hr	1.4	2.8	5.6	6
	scfh	53	106	212	228
Feed Water Consumption					
	l/hr	3	6	11	11.8
	g/hr	0.8	1.6	2.9	3.1
Power Supply					
	Voltage	Factory Configured, 380-480 VAC, 3 Phase 50 or 60 Hz			
	Frequency	50 or 60 Hz			
H₂ Purity					
				99.9998%*	
O₂ Purity					
				99.999%**	

*Subject to ambient and condenser water temperatures **With use of optional HMXT O2 purifier ***Footprint will be larger

SPECIFICATIONS

H₂ Delivery Pressure		
	kg/cm ² gauge	10.3
	psig	150
O₂ Delivery Pressure		
	kg/cm ² gauge	9.6
	psig	140
Cooling Water		
Max. Inlet Temp.	°C	40
	°F	104
Max. Flow	lpm	40
	gpm	11
Heat Load	watts/slpm H ₂	85
Condenser Cooling Water ****		
Max. Temperature	°C	up to 10
Max. Allowable Pressure	kg/cm ² gauge	7
Required Flow	lpm	4
	gpm	1.1
Pressure Drop	kg/cm ² gauge	0.2
Max. Heat Load	kW	1
Purge Gas		
N2 or other inert gas		
	kg/cm ² gauge	5.3 to 25
	psig	75 to 350
Feed Water Specification		
ASTM D1193-99, Type IV		
Min. Resistivity	MegOhm-cm	0.2
Min. Supply Pressure	kg/cm ² gauge	3.5
	psig	0.5

****To achieve 99.9998% purity



A: 149.8 cm | 58.98 in
 B: 177.8 cm | 70 in
 C: 75.18 cm | 29.6 in

Normal Conditions: 0°C and 1 kg/cm² abs (68°F and 14.7 psia)
 Standard Conditions: 20°C and 1 atm
 System can be installed indoors or outdoors in a protected environment between 5°C and 40°C
 Specifications are subject to change

Authorized Representatives



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