

Model 342 Triple Twin

and model 342 electrolyzer only

Cost for 342 TT \$398,000

Cost for 342 only \$220,000.00

Requires minor on site assembly on your wired and plumbed pads



model 342 electrolyzer only

<u>model 942 electronyzer onry</u>		
MRE's 342 TT electrolyzer with	twin compressors and purification	
option to place inside MRE model 300 custom enclosure at extra cost		
J2719 fuel quality		
With Certificate of Attestation to	CSA Group IR 4-14 Area class = Non Classified	
less than .75% by weight Electroly	te 5.5 ounces NaOH to 5 gallons water	
211 scfh	If Continuously run at maximum voltage	
5.9 Nm3/hr	and amperage, output will vary site to site	
99.5 liters/min	based on available power	
12 kg/24hr		
8.81 bar G (130 PSIG) stack		
48 KWH per Kilogram	48 Kilowatt hours of electricity 1 kilogram of H2	
99.95%	purification and compression add to KWH per KG	
99.970%	J-2719 Third Party Test Preformed	
Included	with 342 TT	
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yes		
fied & compressed to 350 bar	55 kwh per kg. optimized	
	MRE's 342 TT electrolyzer with option to place inside MRE mod J2719 fuel quality With Certificate of Attestation to less than .75% by weight Electroly 211 scfh 5.9 Nm3/hr 99.5 liters/min 12 kg/24hr 8.81 bar G (130 PSIG) stack <u>48 KWH per Kilogram</u> 99.95% 99.970% Included Included Included yes	

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Model 342 Triple Twin

WATER REQUIREMENT		
Rate at Max, Consumption Rate	.719 Liters/hr or.19 gal/hr.(2.3 gallons/kg.)	
de-ionized, distilled or filtered rain water	De-Ionizer and activated charcoal filter included in package	
Tanks and stacks total capacity	90 gallons	
COOLING SYSTEM		
Coolant	Water/Ethylene Glycol	
Maximum Coolant Temperature	160F	
Average Coolant Temperature	150F	
Coolant Flow rate	14 gpm.	
ELECTRICAL SPECIFICATIONS 4 separate 240 Volt AC single Phase breakers at 50 amperes		
	60 amp 2 pole	
Electrical connection both male and female plug include	240VAC through a DSN 60 Meltric 60 amp plug with power cut off built in	
Automation:	1- TECO PLCs	
Average electrolyzer power input each of 3	8,500 watts Varies Based on Site Location Line Voltage and ambient Temp.	
Compressor power	1,440 Watts each 70% duty cycle	
INTERFACE CONNECTIONS		
H2 Product Port	9.525 mm (3/8")	
H2 Vent Port	9.525 mm (3/8")	
Water Port	12.7 mm (1/2 ")	
Coolant Supply and Return Ports	12.7 mm (1/2 ")	
Drain Port	12.7 mm (1/2 ")	
	9.525 mm (3/8")	

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CONTROL SYSTEM	15	
Standard	Electrolyzer 3 of 114 cells each	Features Fully automated 12kg/day
Components	Purifier	audible and text alarm system Battery Backup for PLC
	twin Compressors	7/7 feedin 30/50 twin piston electric compre E stop
		Automatic power shutdown 8 kg onboard storage at 6,000 psi
		Automatic fault detection 350 bar J2600 fueling Nozzle
PLATFORM CHAR	ACTERISTICS	
multiple compone	ents delivered and assembled on site,	main plateform is 6.5 feet wide and 4.5 feet deep
Models Total Wei	ght	4,800 pounds
ENVIROMENTAL	CONSIDERATIONS	
Standard Sitting Lo	ocation	Indoor ventilated/Sheltered/outdoor
Ambient Temperature Range // operating		electrolyzer operations 33 F to 100 F
Ventilation	Proper ventilation must provided for indoor use at a rate	
must add H2 leak & heat detection if place indoors		in accordance with NFPA 2 10.3.2.2.1.6
SAFETY and REGU	LATORY CONFORMITY	
Maximum On-boa	rd H2 Inventory at Full Production	.5 kg in separate smaller enclosure
Cabinet Ventilation with Environment		no
Oxygen Flashback	arrestor	Yes
200 PSIG Pressure	Relief Relief Valves	yes
Temperature Con	trol	Yes
Equipment orienta	ation is part of mandatory training	
built to codes and standards CSA IR 4-14 that include		ISO 22734-1 & 2, NFPA 2, applicable ASME,
STORAGE		

no external storage included, storage may be added at extra cost

expansion port with valve provided to accommodate additional external storage available in six packs of 6 kilograms each

OPTIONS

Increased storage by adding external Storage in 6 kg units up to 24 kg additional

On-board H2 leak & heat detection

order extra compressor seals in advance and desiccant and water filters

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