



## Electrolyzers

**330 Triple Twin with 6, 55 cell stacks**

**342 Triple Twin with 3, 114 cell stacks**

The 342 will be replacing the 330 in the near future

Cost for one \$130,000.00 without cooling system

Cost for one \$135,000.00 with cooling system



6 stacks Passive water circulation



3 stacks Pumped water circulation

### DESCRIPTION

**10 to 12 kilogram per day Electrolyzers**

3 plugs each at 240 Volt AC single Phase at 50 amp

MRE's 330 TT and 342 TT electrolyzer only

option to place inside MRE model 300 custom enclosure at extra cost

option to add purifier to J2719 H2 fuel quality at extra cost

With Certificate of Attestation to CSA Group IR 4-14

**Area class = Non Classified**

### ELECTROLYTE

Alkaline = NaOH Sodium Hydroxide at less than .75% by weight Electrolyte 5.5 ounces NaOH to 5 gallons water

### HYDROGEN PRODUCTION

Net Production Rate:

scf/hr @ 59 F  
Nm3/hr @ 0 C  
SLPM @ 59 F  
kg per 24 hours

211 scfm  
339 Nm3/hr  
99.5 liters/min  
12 kg/24hr

If Continuously run at maximum voltage and amperage, output will vary site to site based on available power

H2 stack Delivery Pressure-Nominal:

10.16 barG (150 PSIG) stack

Power Consumed per kilogram of H2 Gas produced by Purity from Stack

48 KWH per  
99.95%

48 Kilowatt hours of electricity to produce 1 kilogram of hydrogen

Purity after flowing thru Honey Comb Purifier Not included

99.998%

Third Party Test Performed

Twin dryers w/Silica Gel

Not Included

Oxygen Scrubber

Not Included

Upgradeability / storage

Not Included



## Model 330 and 342 Triple Twin Electrolyzers

### 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 <i>not included</i> in package, optional
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.
Pumps Radiators and fans can be purchased separately	

### ELECTRICAL SPECIFICATIONS 3 separate 240 Volt AC single Phase breakers at 50 amperes

Electrical connection both male and female plug included	50 amp 2 pole 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 supplies	8,500 watts Varies Based on Site Location Line Voltage and ambient Temp.

### 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 ")
O2 Vent Port	9.525 mm (3/8")

