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**The Electric Gasmizer is the world's most popular gas reclaim system. Comprising simply of four main robust components, it is easy to see why. It will reclaim gas from two divers at down to 500msw/1,650fsw.**

The Control Console is located in dive control allowing the diving supervisor to monitor and control all functions of the diver gas recovery system including electric gas booster start/stop, oxygen injection, diver supply pressure, exhaust hose pressure and the addition of make-up gas.

Large gauges are easy to read; flow alarm informs supervisor of system status; hour meter provides information for changing scrubbers and maintenance; flow indicator on make-up gas allows efficiency monitoring; and sample flow meters monitor flow to analysers.

The Internal Bell Equipment maintains the optimum negative pressure in the diver's exhaust hose, removes water and provides automatic shut down of the exhaust circuit should the diver's supply be interrupted. It also allows the bell atmosphere to be scrubbed.

Two-stage water trap is drained easily; see-through water trap allows visual monitoring; diver tracking system minimises adjustments; high-flow back pressure regulator has no mechanical moving parts; easily disassembled for cleaning; non-corrosive parts used throughout.

The External Bell Equipment consists of a high-flow check valve which prevents reverse flow and an external water trap that allows water, which has been condensed out of the bell exhaust hose, to be removed

## Electric Gasmizer Gas Recovery System

from the gas flow path. Baffled flow ensures water removal efficiency; easily disassembled for cleaning; stainless steel construction for corrosion resistance; and negligible weight is added to the bell.

The Gas Booster is a purpose-built, electric driven, non-lubricated water cooled, two stage gas booster which will support two divers down to 500msw/1,650fsw by supplying a minimum of 150 actual litres per minute at all diving depths. High pressure output compensates for umbilical and regulator losses; high flow ensures adequate supply available at all times; long life seals minimise maintenance requirements; stainless steel liners eliminate corrosion; low noise level avoids the need for noise attenuation; water cooling enables operation in any climate; heavy duty crank case eliminates over-stressing; automatic unloading provides hands-off operation; remote control allows start/stop from dive control.

The Reprocessing Unit contains the components for precisely reprocessing diver's breathing gas from two divers down to 500msw/1,650fsw. The unit is bulkhead mounted (part no: B15730). Features include; silent operation, high pressure CO<sub>2</sub> scrubbers maximise efficiency; the high flow back pressure regulator has no mechanical moving parts; moisture removal is by condensation and ensures trouble-free operation. A Volume Tank is required to store the reprocessed breathing gas from there processing unit until required by the diver. Because of its relative high pressure the reprocessed gas is handled in the same manner as standard gas banks. This item may already be available upon the vessel, but can be ordered with the system.

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## Specification

Depth Rating	Min. 20msw (66fsw), Max. 500msw (1,650fsw)
Excursions Below Bell	0 - 30msw (0 - 100fsw)
Excursions Above Bell	0 - 20msw (0 - 66fsw)
Efficiency Rating	90% or more

### Control Console

#### Order Code B1571

Width	20.5" (520mm)
Depth	8.5" (215mm)
Height	31.9" (810mm)
Weight	44lbs (20kgs)
Power Supply	50/60 Hz 220v 1ph

### Bell Equipment 2 Diver

#### Order Code B1496A

Internal - Weight	15.5kg (34lbs)
Working Pressure	-40 +20msw
External - Weight	6.4kg (36lbs)
Internal Pressure	69 Bar (1,000 psi)
External Pressure	69 Bar (1,000 psi)

### Bulkhead Mounter Reprocessing Unit

#### Order Code B15730

#### LP Section

Width	1410mm (4.6ft)
Depth	351mm (1.2ft)
Height	1445mm (4.7ft)
Weight	160kg (353lbs)
Max. Working Pressure	69 Bar (1000 psi)

#### HP Section

Width	940mm (3.1ft)
Depth	265mm (0.8ft)
Height	1495mm (4.9ft)
Weight	100kg (220lbs)
Max. Working Pressure	103 Bar (1500 psi)
Water Supply	
(salt or fresh water)	9 lpm (2 gpm)
Water Temperature	1° to 7°C (34° to 45°F)

### Electric Gas Booster

#### Order Code B10510AA

Width	1610mm (5.3ft)
Depth	1092mm (3.6ft)
Height	1687mm (5.5ft)
Weight	1450kg (3200lbs)
Power Supply	400v 3 ph 50/60 Hz 37KW
Sea Water Supply	72 lpm (16gpm)
Capacity at Dive Depth	150 alpm (5.3acfm)
Max. Discharge Pressure	100 Bar (1450 psi)

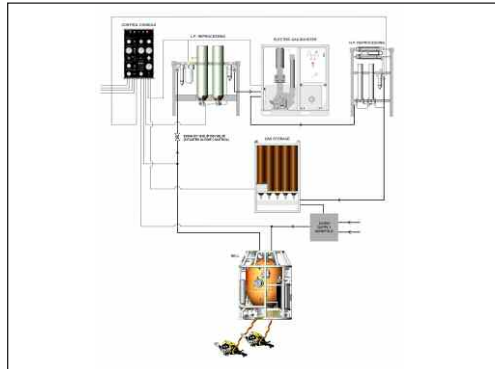
\*Other power supplies must be specified at time of order

### \*Volume Tank (10 bottle)

#### Order Code B2297

Width	4.3ft (1290mm)
Depth	2.0ft (600mm)
Height	6.6ft (2000mm)
Weight	1717 lbs (780 kgs)
Water Volume	500 lts (18.1 ft3)
Max Working Pressure	103 Bar (1500 psi)

\*(Volume Tank not included in A10621)



Financial savings using the Divex Gasmizer System.

Breathing Gas Cost (£) Per Cubic Metre, Per Diver, Per Bell Run

Diving Depth	£7	£8	£9	£10	£11	£12	£13	£14	£15
50msw	706	806	907	1,008	1,109	1,210	1,310	1,411	1,512
100msw	1,294	1,478	1,663	1,848	2,033	2,218	2,402	2,587	2,772
150msw	1,882	2,150	2,419	2,688	2,957	3,226	3,494	3,763	4,032
200msw	2,470	2,822	3,175	3,528	3,881	4,234	4,586	4,939	5,292
250msw	3,058	3,494	3,931	4,368	4,805	5,242	5,687	6,115	6,552
300msw	3,646	4,166	4,687	5,208	5,729	6,250	6,770	7,291	7,812
350msw	4,234	4,838	5,443	6,048	6,653	7,258	7,862	8,467	9,072
400msw	4,822	5,510	6,199	6,888	7,577	8,266	8,954	9,643	10,332
450msw	5,410	6,182	6,955	7,728	8,501	9,274	10,046	10,819	11,592
500msw	5,998	6,854	7,711	8,568	9,425	10,282	11,138	11,995	12,852

#### Example

150msw dive - gas cost £7/m<sup>3</sup> = £1,882 per 7 hour day, per diver, per bell run or £11,292 for a single day with 2 divers working.

### Electric Gasmizer Diver Gas Recovery System 440/480V 60Hz

Order Code A10621

### Electric Gas Booster 50HP 440/480V 60Hz

Order Code B10510AA

### Electric Gasmizer Control Console

Order Code B1571

### Bulkhead Reprocessing Unit

Order Code B15730

### Gasmizer 2 Diver Bell Equipment

Order Code B1496A

### Volume Tank Assembly 10 Bottle Pack

Order Code GR2297AA

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