

# AquaGen®

recombination system for stationary batteries

Telecom/IT Battery Systems

AGV Battery Systems

Motive Power Systems

Railway Battery Systems

Power Supply

Standby



## Product features

### ⇒ Customer benefits

- Integrated catalyst
  - ⇒ maintenance intervals are fully extended with even total freedom from maintenance
  - ⇒ reduction in ventilation requirements thereby lowering costs for air conditioning systems
  - ⇒ no significant escape of gases or aerosols from similar sealed batteries
- Integral flame barrier
  - ⇒ reduced risk of explosion due to the battery
- Integrated absorber
  - ⇒ functional over the whole life of the battery

## Applications

- For all flooded Lead acid and NiCd batteries

# AquaGen®

## Functional description

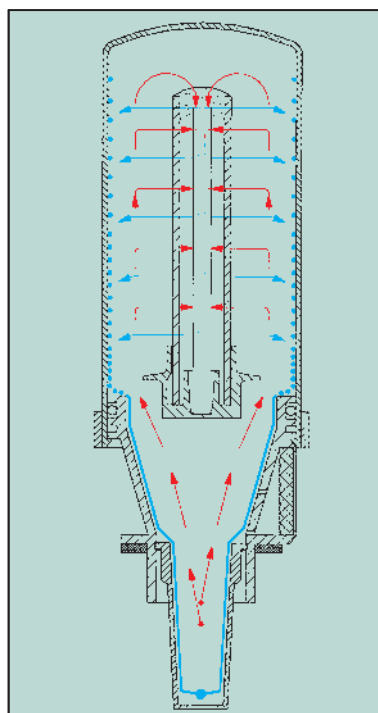
In the charging of batteries, water in the liquid electrolyte is decomposed in a secondary reaction. To ensure proper functioning over the expected life of the battery, this loss of water must be made good by topping up with distilled water.

When the AquaGen® recombination system is used, the hydrogen and oxygen gases evolved during the decomposition of water are directed into the AquaGen® vent plugs. By means of an integral catalyst, these gases are recombined in the form of water vapour. This water vapour condenses on the sides of the AquaGen® plugs. The resultant drops of water flow downwards and are returned to the battery.

**The efficiency of this recombination is up to 98%.**

Because of this level of efficiency, water refilling is drastically reduced, with even total freedom from maintenance being possible.

Another benefit from the use of AquaGen® vent plugs is a considerable reduction in the ventilation requirements of EN 50272-2 / DIN VDE 0510 Part 2 (European standards).



Recombination principle  
in the AquaGen® D 48  
vent plug:

→ gas  
→ water

Type no.	Cell capacity in Ah	AquaGen® D 48 vent plug
759 510 1150		assy. with bayonet stopper Ø 24 mm
for GroE	> 450 Ah	
OGi	> 475 Ah	
OPzS	> 490 Ah	
OSP.HC	> 425 Ah	
OSP.XC	> 475 Ah	
759 510 1171		assy. with plug stopper Ø 21,5 mm
for FNC®	> 180 Ah	
759 510 1160		assy. with plug stopper S 35
for solar.power	> 400 Ah	
max.power	up to 12000 Ah	
Type no.	Cell capacity in Ah	AquaGen® D 30 vent plug
759 611 6005		assy. with bayonet stopper Ø 16 mm
for OGi bloc	up to 40 Ah	
USV bloc	up to 50 Ah	
759 612 4005		assy. with bayonet stopper Ø 24 mm
for OGi bloc	> 40 Ah	
USV bloc	> 50 Ah	
GroE	up to 450 Ah	
OGi	up to 475 Ah	
OPzS	up to 490 Ah	
OSP.HC	up to 425 Ah	
OSP.XC	up to 475 Ah	
power.bloc OPzS	up to 300 Ah	
759 612 7359		assy. with plug stopper S 35
for solar.power	up to 400 Ah	
759 611 4005		assy. with plug stopper Ø 21,5 mm
for FNC®	up to 180 Ah	



AquaGen® D 48 vent plug in sectional view

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