



*Exhaust gas  
neutralizer HJ 90 V*

*For the safe scrubbing of gases and  
vapours that occur during filling and  
transfer of liquid chemicals*



### **Safe and economical: the exhaust gas neutralizer HJ 90 V**

When gassing liquid chemicals are evacuated from tank vehicles as well as during storage and transfer of media with increased vapour pressure, hazardous and corrosive vapours will be set free. These must be absorbed and conveyed to a gas-scrubber in order to prevent the environment from being endangered.

The exhaust gas neutralizer HJ 90 V is especially designed for chemical storage tanks and it has to be operated when storage tanks are being filled only. If no filling is under process, this device serves as water seal and reduces considerably the escape of dangerous and corrosive gases.

The exhaust gas neutralizer can be used universally because it is made of the chemical resistant Materials PE natural and black, as well as PVC.

### **Design and performance:**

All essential components are fitted onto the lid of the scrubbing liquid tank: the Venturi-tube with spray nozzle, the pressure pipe with compensating vessel, the exit tower with demister and the pump for circulation of the scrubbing liquid.

Maintenance is simple because the spray nozzle and demister can be removed easily for rinsing.

By starting the submersion pump the scrubbing liquid is transported via the pressure-pipe and the compensation vessel towards the spray nozzle inside the Venturi-tube. The liquid level inside the scrubbing liquid tank sinks and the usually immersed Venturi-tube will be free.

The exhaust air will be taken via the aspiration socket to the Venturi-tube where the scrubbing is effected by intense spraying of scrubbing liquid over of the exhaust air. The cleansed air will pass over the surface of the scrubbing liquid level into the exit tower. Droplets will be stopped from passing the blow-out piping by the demister.

As soon as the pump is switched off, the liquid inside the compensating vessel will sink back into the scrubbing liquid tank and the Venturi-tube is immersing again. During this inactive phase, the exhaust neutralizer HJ 90 V is performing as a water seal.

### **Notes:**

- The exhaust gas neutralizer is not designed for permanent operation.

- The pump must not run dry!
- In order to avoid damages caused by over- or under pressure, the HJ 90 V must be connected to ventilation pipe systems only, which is not subject to dangerous pressure. Depending on the local situation this safety device can also be integrated into the exhaust gas neutralizer system.
- Installation: the exhaust gas neutralizer must be placed inside of buildings, protected from frost.
- The clean air pipe must be installed leading to the open air only.
- Maintenance is simple: the spray nozzle and demister can be removed easily for rinsing.

### **Options:**

- Exhaust gas neutralizer with heating and insulation.
- Integrated overpressure-underpressure safety device.
- Fan to support the absorbing capacity.

#### **Technical data:**

##### **Dimensions:**

Outside diameter: 670 mm  
Suction capacity: max. 90 m<sup>3</sup>/h  
Underpressure: max. 2 mbar  
Total height: 1.870 mm  
Aspiration socket: d 90/DN 80 PVC\*  
Expiration socket: d 110/DN 100 PVC\*

\* glued sleeve

##### **Scrubbing liquid tank:**

Nominal capacity: 240 l  
Submersion pump: 1.000 mm  
Collector motor:  
Voltage: 230 V  
Capacity: 460 W  
Protection class: IP 54  
Connection: Schuko plug

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