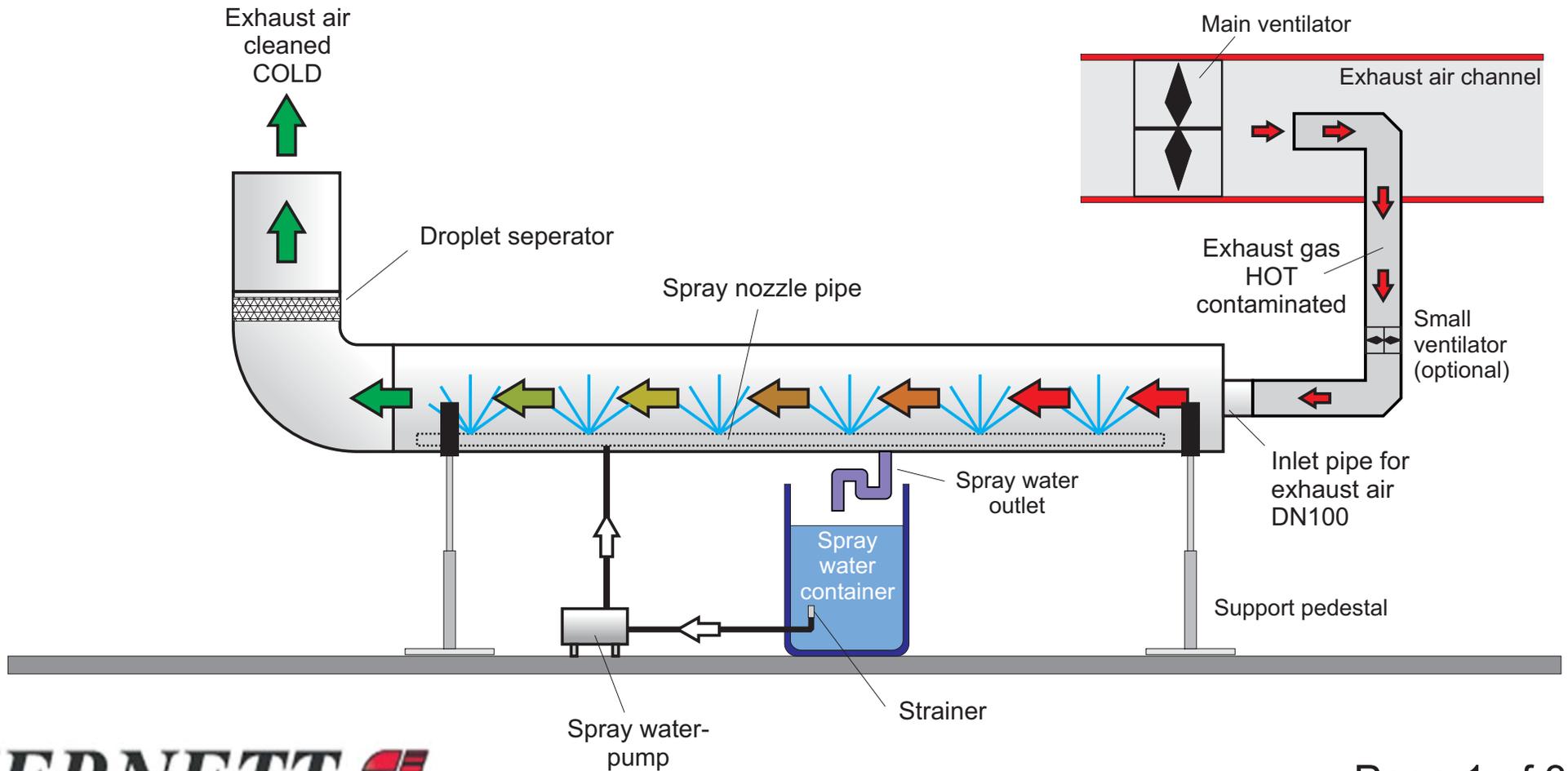


**WASTE AIR AND
EXHAUST GAS PURIFICATION**

**FERNETT SPRAY TUNNEL
THE INNOVATIVE SOLUTION**

WWW.MNETTEKINTERNATIONAL.COM

Purpose: demonstration of the **FERNETT Dust separation, exhaust gas and exhaust air purification system**
The installation can be set up fast and easy.



Fernett Spray Tunnel Test Facility



The test facility consists of an exhaust air pipe with built-in spray nozzles and a diameter of 300 mm - 11.8 inches - set on pedestals and a droplet separator, a spray water pump, and a spray water container.

(All parts are fast and easy to install)



Exhaust air is induced into the test spray tunnel through a flexible metal pipe.



The inside of the spray tunnel

The image shows the spray nozzles while operating. The exhaust air is purified to a maximum through fine spraying. The spray water runs towards the outlet on the bottom of the spray tunnel.



Droplet separator

The exhaust air particles condense due to the cooling down in the spray pipe, thus clouding the spray water as seen in the picture below. Dust and other particles with water soluble parts bind with the spray water.



By way of constant circulation of the spray water through the Fernet spray tunnel, contamination from the exhaust air is collected in the water.

Exhaust gas particles in the waste air cloud the spray water.

Usually, an overflow disposes the dirty water into the sewer.

In certain industries, the used spray water can be re-integrated into the production process, for example to save water in paper mills. The water may have to be neutralized before it is disposed into the sewer.

Moisture contained in the exhaust gas waste air also condenses within the spray tunnel. Therefore, the amount of fresh water used is very low.

After the spray out process, the exhaust air leaves the spray pipe cleansed and purified - one stage wet washing of the exhaust gas and the waste air in the horizontal spray pipe.