

# LEVTECH

VENTILATION

ARCHITECT

WET SCRUBBER  
INDUSTRIAL

**IWS PP/FRP  
2400 series**



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## Introduction

An industrial scrubber system is used to clean polluted air or exhaust gases generated by industrial processes before they are released into the atmosphere. It helps industries meet environmental regulations, protect worker health, and reduce damage to equipment and surroundings.

The principle operation of an industrial wet scrubber system is air-pollution control equipment that removes contaminants from exhaust gas streams by contacting them with a liquid (usually water or a chemical solution). They're common in power plants, chemical processing, metal finishing, cement, pulp & paper, and waste incineration.

The dirty gas enters the scrubber → contacts liquid droplets → pollutants transfer into the liquid → cleaner gas exits.

Scrubbers absorb or chemically neutralize gases such as:

- Sulfur dioxide ( $\text{SO}_2$ )
- Hydrogen chloride ( $\text{HCl}$ )
- Hydrogen fluoride ( $\text{HF}$ )
- Ammonia ( $\text{NH}_3$ )
- Chlorine ( $\text{Cl}_2$ )



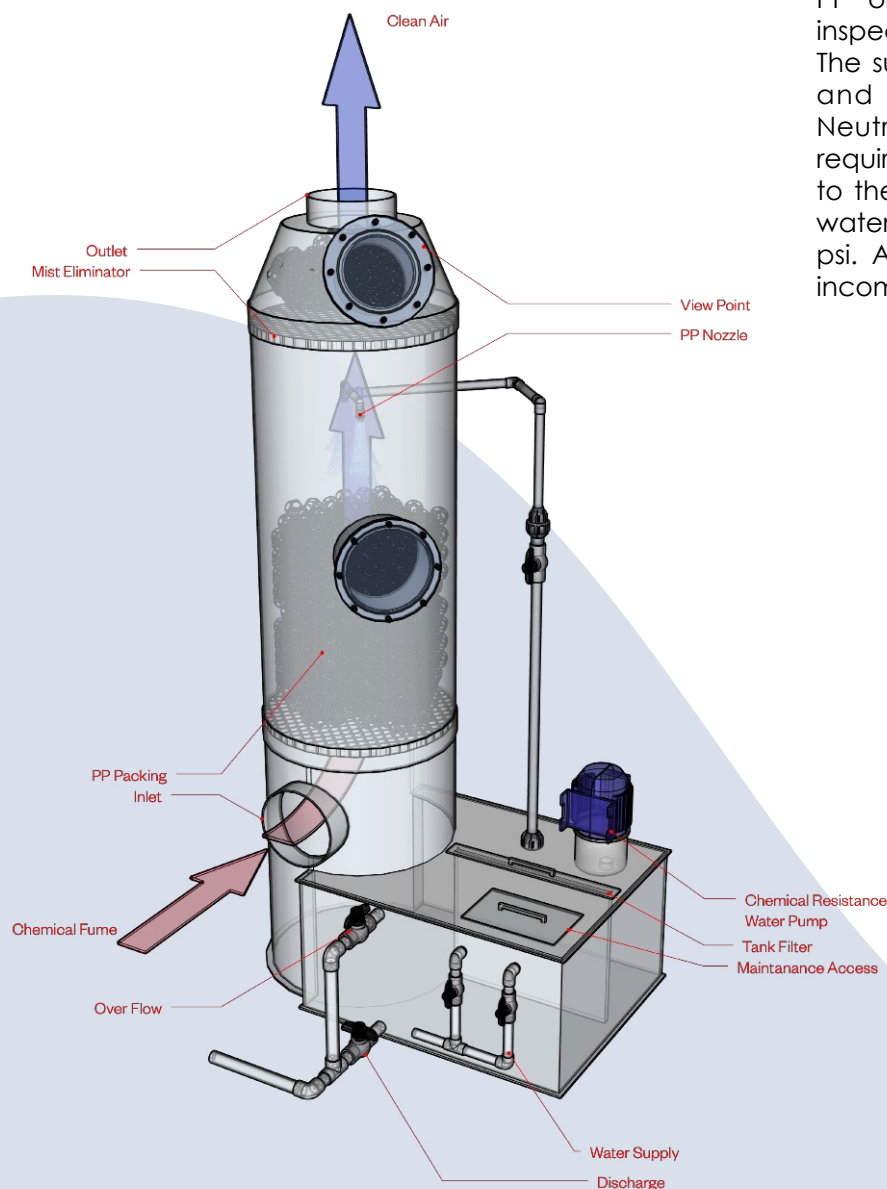
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## STRUCTURE AND CONSTRUCTION

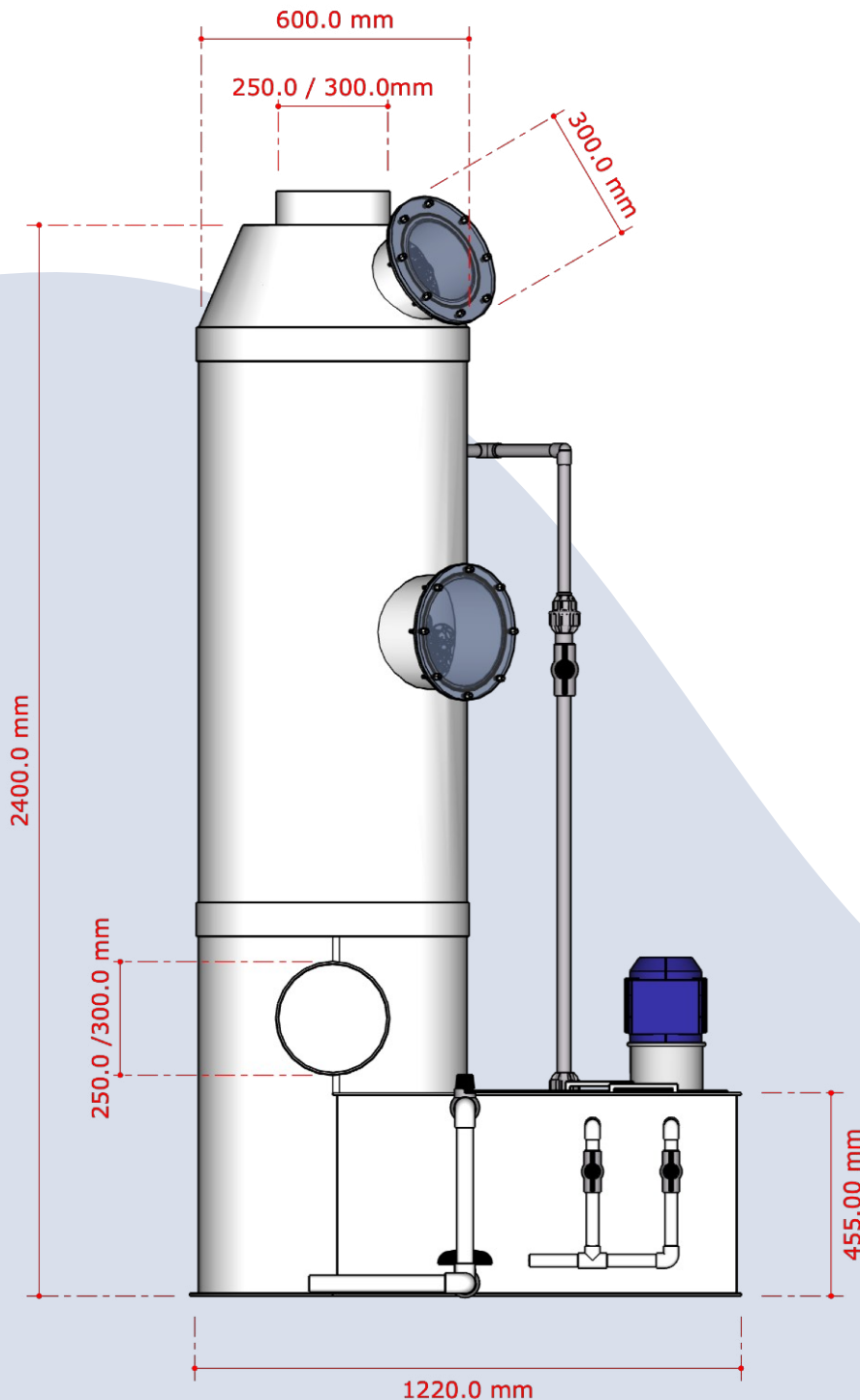
The rigid housing is moulded from corrosive resistant PP or FRP material. Viewports are provided for inspection, maintenance and repairs if necessary. The sump tank is constructed of the same material and the capacity suitable for recirculation. Neutralising solution, (alkali) can be added if required, but the liquid discharge shall not be toxic to the environment. The spray nozzles are full cone water jet spray 1/8 in. with flow rate of 1.1 l/min at 20 psi. A normally closed solenoid valve controls the incoming water supply.



|                       |                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL                 | IWS PP/FRP 2400 SERIES                                                                                                                                                                                                                                                                                                                                               |
| Description           | Tower Type (Vertical System)                                                                                                                                                                                                                                                                                                                                         |
| Dimension, mm (HxDia) | 2500 x 610, 1500 x 610                                                                                                                                                                                                                                                                                                                                               |
| Construction          | PP Welding Construction / FRP Build Up                                                                                                                                                                                                                                                                                                                               |
| Scrubbing Media       | <p>Tower Packing a unique patented toroidal helix design that makes them dramatically more efficient than conventional packings in a wide range of mass transfer and particulate collections applications</p> <p>High solid particle loading<br/>Constantly renews and exposes liquid to the gas flow</p> <p>High efficiency<br/>Injection moulded Polypropylene</p> |
| Mist Eliminators      | Levtech mist eliminators remove liquid entrainment from gas streams, providing high efficiency and low-pressure drop                                                                                                                                                                                                                                                 |
| Viewing Port          | 2                                                                                                                                                                                                                                                                                                                                                                    |
| Chemical Pump         | Chemical Resistance Water Pump<br>1Phase Pump                                                                                                                                                                                                                                                                                                                        |
| Duct Connection       | 250mm to 300mm                                                                                                                                                                                                                                                                                                                                                       |
| Efficiency            | 98% @ <2.0 in. W.g                                                                                                                                                                                                                                                                                                                                                   |

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## Other Product & Services Available

Chemical Resistant Centrifugal Fan  
Wash Demist (Fume Scrubber System)  
Chemical Resistant Plumbing System  
Laboratory Furniture System  
Modified Epoxy Polyester Resin Worktop  
Phenolic Resin Worktop  
Laboratory Gas and Water Fittings  
Emergency/Eye Shower System  
Fumecupboard Repair and Maintenance Services  
Laboratory Design Consultancy  
Hygiene Industrial II Inspection  
Local Exhaust Ventilation System Inspection

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