Quench Tower:
Weak acid jets remove particulate matter from hot process gasses.

Scrubber:
Further contact with acid jets provides additional cooling and cleaning.

Electrostatic Precipitators:
Acid mist and remaining dust particles removed.

Drying Tower:
Clean gasses are dried by contact with concentrated H₂SO₄.

Converter:
SO₂ in the clean dry gas is converted to SO₃.

Absorption Tower:
SO₂ is absorbed by water in concentrated acid to form more H₂SO₄.

Oleum Tower

Oleum Pump Tank

Optional Drying Tower:
Clean gasses are dried by contact with concentrated H₂SO₄.

SO₂ Stripper:
Air stream removes excess SO₂.

To stack

The Production Process

Weak Acid Solution
93% Acid Stream
98% Acid Stream
SO₂ Gas Stream
Acid Pumps

93% Acid Stream
98%

To Stack

Final Product

To Storage

96%

Air