

## CASE STUDY

# HIGH CAPACITY AND HIGH EFFICIENCY WATERWASH BOOTHS IN LIMITED SPACE.



REGENERATIVE THERMAL OXIDIZER (RTO) AND AIR BY-PASS



RTO AND AIR FILTER HOUSE

## **PROBLEM:**

A manufacturer of automotive exterior components, such as spoilers, needed high-capacity, high-efficiency waterwash booths with temperature and humidity controls. In addition to these requirements, the paint system also had to fit within the plant's limited space and comply with local environmental regulations.

## **SOLUTION:**

Sprimag re-engineered its high capacity waterwash spray booths to meet the customer's needs. By using an inverted power and free conveyor and redesigning the booth scrubbers and retention tanks, the booths had a more compact design, which met the building space requirements.

Additionally, the air was re-circulated inside the spray booths to minimize the exhaust volumes going into a regenerative thermal oxidizer. This feature reduced the exhaust air volumes, so the system needed a smaller oxidizer, further reducing the system's overall footprint and lowering purchasing costs.



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RECIRC AIR HOUSE



INDIRECT FIRED HEATER



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