CASE STUDY

1596

APPLICATION GOAL

A plastic extrusion company was using nozzles designed to flow coolant to dry an extrusion that has several overhangs and valleys. The application goal was to replace those loud, inefficient liquid nozzles with efficient engineered nozzles to save air consumption, quiet the application down, and make the blow-off compliant with OSHA dead-end pressure and noise standards. (1910.242(b) and 1910.95(a))

BEFORE EXAIR

The customer had six 1" liquid blowoffs and two 2" liquid blowoffs. They operated them at 20 PSIG with a total air consumption of **99.42 SCFM**. And the noise level 3 feet away was peaking at **110 dBA**.

(1" = 9.97 SCFM each and the 2" = 19.8 SCFM each)

AFTER EXAIR

They replaced the liquid nozzles with five **1126 1" Flat Super Air Nozzles** and one **1122 2" Flat Super Air Nozzle.** Their total consumption went down to **27.23 SCFM at 20 PSIG.** And their sound level went down to **82 dBA.** Just the reduction in air consumption alone is going to save them $25.99 a day! Meaning it only took them 14.7 days to payback the cost of the EXAIR products**. In the first year alone, they will save $6,497.10 USD.** And now they are OSHA-compliant, saving any possible fines! *(Based on 250 Working Days)*

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