



United Air Specialists, Inc.

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WELD FUME COLLECTOR PROVIDES CLEANER AIR AND LOWER ENERGY COSTS



Located in the mountains of northeastern Arizona, the Northern Arizona Vocational Institute of Technology (NAVIT) provides real-life experiences to students in 11 area school districts. One of the programs NAVIT offers is welding applications to prepare late high school and early college age students with the skills necessary to become AWS/NCCER certified welders.

FOCUS:

Northern Arizona Vocational Institute of Technology (NAVIT)

CHALLENGE:

Provide a clean air training environment while reducing exhaust fume energy costs

SOLUTION:

SFC Series Downward Flow Collector with custom ducting layout

IMPACT:

- Decreased energy costs
- Noticeably cleaner air
- Safer environment for students and instructors

CHALLENGE

NAVIT's student welders were generating large amounts of submicron fume from 22 weld cells that needed to be properly collected. The existing system consisted of a blower that pushed some of the contaminated air outdoors, but was unable to re-circulate clean air indoors—resulting in clean heated/air conditioned air also exiting the facility and high energy costs. NAVIT needed a more effective solution to efficiently clean each weld cell, as well as save costs associated with external venting. With a safe student work environment as the top priority, and energy costs also part of their challenge, NAVIT knew they needed to take immediate action to find a better solution to fit their specific welding facility.

SOLUTION

NAVIT became familiar with United Air Specialists' air pollution control equipment while discussing their challenge with partner institution, Northland Pioneer College. The college had purchased an SFC downward flow cartridge collector for their Holbrook welding facility in 2004, and was very satisfied with its performance. Upon hearing about the school's positive experience, NAVIT contacted United

Air Specialists' local manufacturer's representative, Total Filtration Systems (TFS), in Phoenix.

TFS evaluated NAVIT's welding facility and recommended an SFC 24-3 downward flow cartridge collector with customized ducting to reach each of their 22 weld cells. This provided efficient fume capture right at the source of generation for each student. Additionally, the new weld fume collector was able to draw in contaminated air from each cell, effectively clean it, and re-circulate clean air back into the working environment—eliminating the chance that heat/air conditioning would be lost. The SFC was conveniently installed outdoors with ducting running into the side of the building to eliminate the need to take up valuable indoor floor space.

IMPACT

Superintendent Chester Crandell reports that he is very happy with their SFC weld fume collection system. He says, "There is a noticeable lack of dust particulates in our welding facility since the system installation, and the ability to return filtered air back inside the welding lab instead of exhausting it outdoors has led to an increase in energy savings."



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Clean air. It's what we do.™

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