

QUADRAFT Downflo Spray Booth by AFC

Xtreme Series



► *The Quadraft is powder coated inside and out.*

The revolutionary **QUADRAFT** has become the industry standard for spray booths. AFC continues to set the pace with this new design. This is not just a redesign or enhancement.

The **QUADRAFT** spray booth was specifically designed to create a virtually turbulence-free airflow through the booth without loss of airflow volume. Drawing on over 30 years experience in spray booths and utilizing the latest in technology, along with computer-aided design, AFC has produced the **QUADRAFT**, the only truly turbulence-free booth on the market.

The secret is in the design of the walls and the basement. The booth is double-walled, which gives it a distinctive appearance and clean lines. However, the walls also become the exhaust duct by which air is removed from the booth. Each side panel contributes a large area through which the air can move. By using the walls of the booth as the exhaust duct, AFC has achieved an air flow of up to 19,000 CFM, or over six complete changes of air per minute inside the booth. In addition, this integral ducting reduces heat loss through the walls of the booth, resulting in energy savings. This exhaust ducting is combined with our innovative basement design, which utilizes an arrangement of baffles and deflectors to complete the turbulence-free, full down draft airflow path.

The **QUADRAFT** comes complete with the DFM800R heat system which has a proven track record for reliability and efficiency on AFC spray booths. A user-friendly, but fully

automated control panel cycles the booth through the entire flash, cure, and cool cycles without operator intervention. Controls are easily set to accommodate all types of paints and coatings. Digital temperature controls and two stage burner modulation assure minimum temperature fluctuations in the booth. To achieve the higher curing temperatures required by newer paint formulations, a unique AFC designed, 100% fresh air system returns a percentage of the input air past the heater several times before it enters the booth. No solvent contaminated air is returned to the booth, which prevents hazing and die-back, virtually eliminating cutting and buffing.

The **QUADRAFT** spray booth is designed for raised floor installation, and is available in both solid back and drive thru configurations. It comes with full documentation and all accessories necessary to assemble a fully operational booth.

At AFC, quality and reliability are designed into our products. Our warranty is backed by our reputation.

AFC Finishing Systems
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Quadraft Specifications

Filters

Prefilter: PF2050 with internal self-supporting frame.
Plenum: AFC LAMINAR III, Quantity of 12 used in full ceiling filter bank 36" x 54".
Exhaust: AFC paint arrestors, 20" x 24' rolled media.

Lights

Quantity of eighteen 4', four tube, color corrected T8 fluorescent fixtures complete with tubes and clear tempered glass cover. Lifetime of the bulbs is extended up to twice normal by unique switching circuitry.

Fans

Quantity of four 18" tubeaxial fans with non-sparking blades. Each fan controls the exhaust for one quadrant of the booth for maximum turbulence-free airflow.

Motors

Motors are 208/230/460 V, 3 phase, O.T.D.P.
Exhaust: Quantity of four 1 hp. each
Makeup: 7.5 hp.

Power Requirements

60A, 208/230V, or 30A, 460V plus two circuits 120V 15A for lighting and control.

Airflow

Exhaust capacity of up to 19,000 CFM of turbulence-free filtered air, providing more than 6 complete changes of booth air per minute.

Heat System

DFM800R with 1,075,000 BTU direct burner (achieves 98% efficiency) and fully automated control panel with digital temperature control for fast response to minimize fluctuations. 34" tubeaxial fan.

Temperature rise

Paint cycle: 80 degrees F. above Zero.
Cure cycle: 160 degrees F. above Zero.

Model numbers

QDP2418CSB: Solid Back.
QDP2418CDT: Drive Thru

Construction

Walls

Eighteen gauge galvanized panels with full length integral exhaust duct. Insulation on interior surface of outside panels prevents heat loss to outside. Heated air being exhausted through the wall duct becomes an energy saving thermal insulator for the booth.



Doors

Doors are equipped with large observation windows and heavy duty chrome hinges. A cam-locking device secures the doors at both top and bottom to provide a complete seal.

Basement

Basement is proprietary design as part of the integral wall exhaust system. Grating covers almost the entire floor filter area. Depth of basement is eight inches.

Dimensions

Outside: 15'8" wide x 11'6" high x 24'4" deep.

Inside: 14'0" wide x 9'0" high x 24'0" deep.

Access Doors: One drive-in door is bi-fold with integral access door 30" wide x 96" high. A second access door 36" wide x 84" high is located in the rear wall.

Included Accessories

- Floor grating
- Full width drive-up ramp: extends four feet in front of booth and is also tapered to the sides of the booth
- Six feet of exhaust stack per fan, roof jack and upflow cap w/dampers to prevent backdraft
- Filters, including prefilter, intake and exhaust. Painter's air valve (required by code)
- Door limit switches to shut off fans and air valve when door is opened (required by code)
- Door gaskets
- Manometer to monitor porosity of paint arrestors
- Painter's work station
- All hardware, complete blueprints and assembly instructions

Options *Consult factory for other options.*

Ground level installation; Single Phase Motors

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