



JUNAIR
SPRAYBOOTHS

COMMERCIAL SPRAY BOOTHS FEATURES & BENEFITS



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JUNAIR SPRAYBOOTHS - COMMERCIAL BOOTHS

Junair manufacture and install high quality commercial vehicle spray booth ovens with the emphasis on delivering the fastest process times and the lowest unit cost to operate.

Spray booth ovens are designed to suit the customers' individual requirements for height, length and width. Available options include:

- Pit or side chest extraction
- Split cabin option
- QADs auxiliary drying system for faster flash off and cure times
- Energy saving controls

Junair spray booth ovens are highly specified production units. Every feature of these spray booths have been engineered to be class leading. Combined with the energy saving and production enhancing technology the Junair commercial spray booth ovens deliver the highest quality paint finish at the lowest cost per job.

The following items highlight the features and benefits of a Junair Commercial spray booth oven. These should be taken into consideration when researching and comparing modern spray booths available in the market today.

DOUBLE SKIN INSULATED CONSTRUCTION

- White internal & external
- Coated galvanised steel with fibreglass insulation
- Superior fire resistance & structural integrity
- Saves energy
- Low noise level, improved lighting
- Attractive finish with an anti-corrosion coating for long life

COMMENT / BENEFIT: Junair Spraybooths do not use cooler room wall panels (aluminium skin with styrene insulation). In our opinion, these wall panels are not suitable for spray booth oven construction. They have limited capability in containing a fire and they are not rated for the high temperatures required for short bake times (i.e. short bake times require high metal temperatures that require even higher air temperatures).

FULL CEILING SUPPLY AIR INPUT

- Reduces overspray contamination
- Improves mist clearance times
- Faster curing for off car panels

COMMENT / BENEFIT: The Junair Commercial spray booth has very small hips that have allowed us to design a large input plenum (full width, full length input plenum with full width, full length ceiling filters). This has resulted in an increase in size of the spray/clean zone providing the ideal spraying environment for cleaner jobs for parts on the vehicle or on panel stands (off the vehicle).

HIGH OUTPUT, HIGH FREQUENCY ENERGY EFFICIENT LIGHTING

- Flicker free start extends tube life, over 1200 lux
- Brilliant colour rendition
- Low maintenance cost

COMMENT / BENEFIT: The Junair spraybooth provides ideal lighting conditions for spraying high quality paint jobs (anywhere in the spray cabin).

DIRECT DRIVE, BACKWARD CURVED CENTRIFUGAL FANS

- No drive belt costs or drive belt failures
- Efficient and powerful, quiet in operation
- Large blade design can be easily cleaned

COMMENT / BENEFIT: Unlike axial fans found on many spray booths, these powerful efficient fans are able to generate high air flows (volumes) throughout the life of the exhaust filters, so spraying conditions do not deteriorate as the floor filters become loaded with paint overspray.

FULLY MODULATING DIRECT FIRED STAINLESS STEEL BURNER

- Natural gas or LPG
- Rapid temperature rise, extremely close temperature control
- Low running cost
- Quality components for performance and reliability
- Good combustion means no fume smells or paint problems

COMMENT / BENEFIT: Unlike other modern spray booths that typically have direct fired burners, the Junair burner design allows for clean combustion regardless of the speed of the main fans (most modern booths need the main fans to operate at high speeds to ensure sufficient air passes across the burner head). Junair spray booths can and do reduce the main fan speeds to save gas and electricity when full air flows are not required (i.e. during the idle cycle, flash off cycle, bake cycle).

QADs™ – AUXILIARY AIR MOVEMENT SYSTEM

- Enables faster flash off of waterborne base coats
- Faster curing of low VOC top coats
- Saves up to 40% of energy cost
- Overall paint process around 35% faster
- Cover the whole vehicle in one operation
- Adjustable nozzles for painting panels off the vehicle

COMMENT / BENEFIT: QADs™ are a Junair patented product. They are considered the standard for flashing off waterborne base coats. Flash off times are in the 5-7 minute range for painted parts anywhere on or off the car body. QADs™ also reduces bake times by approximately 35% and saves up to 40% in energy running costs.

VARIABLE AIRFLOW TECHNOLOGY

- Fully automated variable speed drives
- Reduced airflow = lower fuel and energy costs
- When combined with QADs™ save up to 65% of spray booth energy costs

COMMENT / BENEFIT: Junair's unique Variable Airflow Technology (VAT) automatically reduces the air volume in the spray booth to suit the process. For example, in spray mode air flows (air volume) is at 100%. In idle mode air flows are approximately 25% of those during the spraying cycle. The flash off and bake cycles have air flows 60% and 50% respectively of the air flows required for spraying. Variable Airflow Technology is fully automatic so fuel and electricity savings are guaranteed.

FUEL SAVER MODE

- Automatically changes air flow during idle and flash off modes
- Reduces energy costs by around 22% alone
- Combined with QADs™ & VAT save 70% of spray booths energy costs

COMMENT / BENEFIT: Instead of fully exhausting the air exiting the spray cabin, Junair's Fuel Saver (FS) Mode recirculates a portion of the air in the spray booth. This results in the burner heating already heated air, saving fuel. Coupled with Variable Airflow Technology, FS Mode and QADS™, up to 70% energy savings can be achieved compared to other modern spray booths on the market. Features of the Junair burner design, the *iSystem*², VAT and FS mode produce clean combustion during every booth cycle. This means no or very low concentrations of carbon monoxide compared to other modern booths.

SPRAY BOOTH CONTROL PANEL OPTIONS

- Conventional push button/switch control panels
- *iSystem*
 - 110mm colour touch screen
 - 145mm colour touch screen
 - 254mm colour touch screen
- Remote diagnostic upgrade

COMMENT / BENEFIT: The *iSystem* is a unique Junair technology that fully automates the production enhancing and energy savings features of the Junair Commercial spray booth. The *iSystem* also incorporates eight (8) different bake profiles, in which the baking temperature can be programmed for every 5 minute increment of each bake cycle. This ensures bake times are kept to a minimum to maximise booth production capacity while saving fuel and electricity and at the same time ensuring a consistent quality of cure.

COMMENT / BENEFIT: Remote diagnostics is a Junair technology that works in conjunction with the *iSystem*. Process control software upgrades can be downloaded remotely. It also allows us to remotely connect with the spray booth when a fault occurs to determine which part might have failed for speedy replacement by a local technician and to change engineering settings should they be required. This will ensure the booth is running optimally with minimum down time for the life of the booth.