

# WITT INDIA

World Class Axial, Radial and Jet Fans

## World Class Car Parking Ventilation Banana Jet Fans

### WITT INDIA PVT. LTD

is an Indo-German Joint Venture company with Witt & Sohn AG, Germany. Witt & Sohn AG has been in the business of bespoke fans since the past 70 years and has grown to become one of the world's leading names in industrial fan technology and associated noise and vibration control. We are involved in the Design, Engineering, Supply & Service of a complete range of High Efficiency Jet Fans, Axial Flow Fans, and Radial (Centrifugal) Fans. We have complete access to the latest know-how both in terms of technology as well as in the manufacture and service of our products, from our principles Witt & Sohn AG. Engineers from Witt India are trained at the German facility of Witt & Sohn AG both in terms of technology as well as in the manufacture and service of our products.

Manufactured according to ISO 9001 & EN 12101-3 certified industrial processes, Axial & Jet Fans manufactured by WITT INDIA are certified by MPA Braunschweig and also Tested & certified by TÜV SÜD for powered smoke & heat exhaust applications.

### NATIONAL BUILDING CODE (NBC):

National Building Code (NBC) of India specifies that Mechanical Ventilation (such as Jet Fans, Fresh air Fans & Exhaust Fans) is Mandatory in Car Parking areas that are fully enclosed (usually basements below stilt level).

### CAR PARKING VENTILATION :

Car Parking Ventilation system is required to achieve two main objectives. Firstly, to provide fresh air and exhaust dangerous gases from vehicles at enclosed parking areas. Secondly, to control smoke in case of fire and provide access to extinguish fire/to escape from the car park area. Impulse, from Jet Fans is designed to remove the need for space & energy consuming ducting and to provide efficient smoke control in the event of fire.

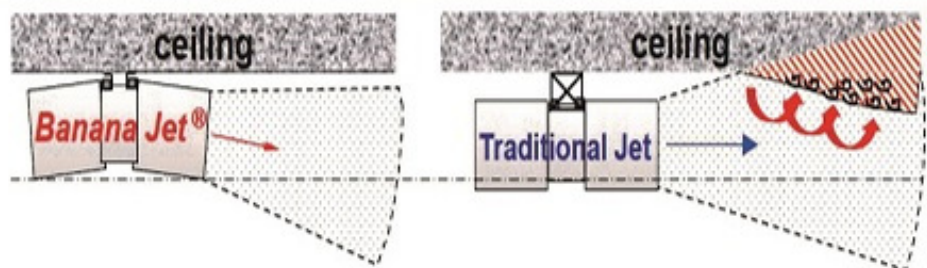
### BANANA JET FANS :

Depending on the site characteristics our patented Banana Jet generates 20-50% more effective thrust than a traditional jet fans of the same size. Banana Jet with the bent inlet & outlet airflow directs the impulse jet slightly towards the centre, therefore frictional losses due to swirls at the ceiling & Beams are negligible.



### BENEFITS :-

- » Less equipment compared to regular models, achieved due to higher thrust of Witt fans.
- » Our typical design provides ease of access during Installation (allows space for Piping, cabling etc.), & during Maintenance (bolted silencers).
- » Less turbulence of stratified smoke layer at the Ceiling, Beams & Fire Fighting System.



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## WITT INDIA CAR PARKING JET FANS

- ◆ Standard models are 315, 350 & 400 dia with 0.25/1.1Kw
- ◆ Witt India Fans deliver high thrust (up to 100N\*) according to ISO 13350
- ◆ Witt India Fans are fire rated according to EN 12101-3 (Eq. ISO 21927-3) operating at 400 C for 2 Hrs
- ◆ Efficient with Low Noise, Witt Fans are easy to handle during Installation, Operation & Maintenance
- ◆ Power savings (Up to 80% compared to traditional system)
- ◆ Welded Casings & Silencers with standard painting for Long Life of Fans
- ◆ Capable of handling Turnkey projects (BOQ, CFD analysis, Design, Manufacturing, Supply, Erection, Commissioning, AMC)

\* Much Higher thrust can be achieved based on customers requirements.

## Components of a Ductless Ventilation System

- => Jet Fans      => Fresh Air Fans      => Exhaust Fans
- => PLC Panels      => Fire Rated Dampers with Actuators
- => CO Sensors      => Fire Rated Cables



## Major References

- > Aparna Constructions      > Western Constructions
- > Phoenix      > Lanco Hills      > Rajapushpa
- > Cyber City      > BPR Infrastructure      > JC Infra
- > RVR Constructions      > PL Raju Constructions
- > Navayuga Engineering      > NTPC

## Computational Fluid Dynamics (CFD) Analysis

CFD analysis plays an important role in Car Parking Ventilation System design. CFD is used to predict the flow of air in car park area by making a 3-D model & is used to understand the simulation in various scenarios (Normal & Fire mode, CO emission). The CFD analysis is used as the basis for determining air changes, volume & air flow direction & placements of Fans.

### Corporate Office

Witt India Pvt. Ltd.  
VII Floor, Block - A,  
Gachibowli,  
Nanakramguda,  
Hyderabad. Telangana, India.



### Factory

Witt India Pvt. Ltd.,  
Survey No.115 & 116,  
Indrakaran (V), Kandi Mandal,  
Sangareddy - 502329,  
Telangana.



Phone : +91 40-44881800 / Fax : +91 40-44881811