



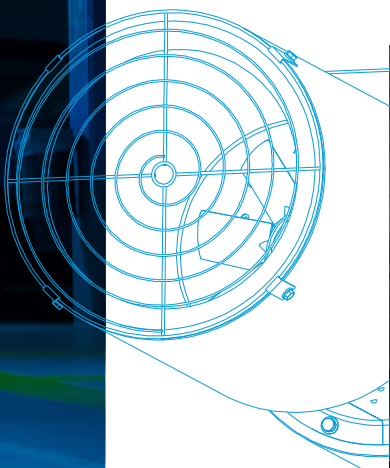
CAR PARK IMPULSE SYSTEM IFC & IFC8

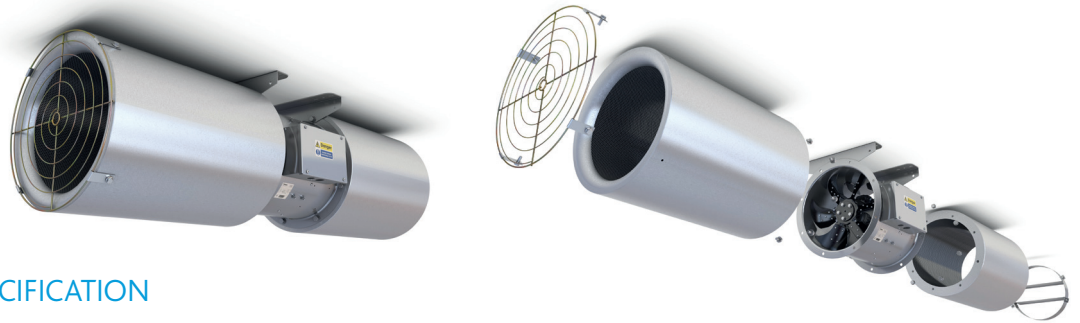
Nuaire's Car Park Impulse Fan Configuration units are typically used as part of a car park ventilation system; with a low profile and flexibility in configuration to suit the project requirements.



KEY BENEFITS:

- ▶ **HIGH TEMPERATURE** - FANS ARE TESTED TO COMPLY TO EN12101-3:2015, 300°C & 400°C FOR 2 HOURS.
- ▶ **SPACE SAVING** - LOW DEPTH UNIT, MAXIMISING CAR PARK SPACE AVAILABILITY.
- ▶ **QUIET SYSTEMS** - UNIT INCORPORATES INLET AND OUTLET ATTENUATORS TO REDUCE NOISE LEVELS.
- ▶ **ENERGY EFFICIENT** - BY MONITORING THE AIR QUALITY AND OPERATING THE SYSTEM AT ITS OPTIMUM LEVEL THE OVERALL MOTOR POWER AND RUNNING COSTS CAN BE REDUCED BY UP TO 40%.
- ▶ **COST SAVINGS** - LESS DUCTWORK CAN TYPICALLY REDUCE COSTS BY UP TO 30%.
- ▶ **QUICK AND EASY INSTALLATION** - SINGLE STAGE, 'QUICK' INSTALLATION.
- ▶ **REVERSIBLE OPTIONS AVAILABLE.**
- ▶ **PAINTED OPTIONS AVAILABLE.**





CONSULTANTS SPECIFICATION



CASING

Fan section manufactured from pre-galvanised steel incorporating integral guide vanes. The two attenuators are made from Aluzinc. The inlet silencer has a conical inlet, and the outlet silencer is standard execution. The axial case is fitted with integral guide vanes both made of pre-galvanised mild steel. The deflector on the outlet is manufactured from pre-galvanised steel and the inlet guard is zinc passivated.



MOTOR

Motors are pad mounted and totally enclosed and protected to IP55 with Class H insulation. Motors are available in two speed or single speed (with VSD operation).



CERTIFICATION AND OPERATING TEMPERATURE

Complete units are tested to BS EN 12101-3 for both 300°C and 400°C for two hours.



IMPELLER

Available in either aluminium for 300°C for 2 hours application or high-efficiency mild steel blades for 400°C for 2 hours application to optimise both air performance and sound to suit the project requirements.



INSTALLATION

The IFC units are designed for quick and easy installation and are supplied with a pre-wired IP55 terminal box. Mounted brackets are also supplied fitted for single step installation.



PERFORMANCE

The units are available in different thrust options.

300°C/2hrs

· 25/6N

· 43/11N

· 77/19N

400°C/2hrs

· 27/6N

· 47/11N

· 79/19N



AIRFLOW

Inlet guards are fitted for safety purposes and to prevent debris from entering the fan. The unit is fitted with a specifically designed airflow deflector to direct the Jetstream from the fan at the required angle sufficient to overcome the natural buoyancy effect of the smoke. Reversible options are available. Contact Nuair for details.



SYSTEM DESIGN

The IFC units are typically used as part of a car park ventilation system to control and remove pollutants, such as carbon monoxide and in case of a fire scenario. The fans are strategically distributed throughout the car park in accordance with local regulations. Nuair can provide a design for your project needs.



ANCILLARIES

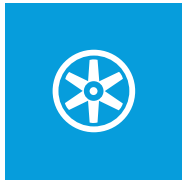
- Anti-vibration mounts



APPLICATIONS

TYPICAL APPLICATIONS

- Car parks
- Tunnels



CAR PARK IMPULSE SYSTEM IFC & IFC8

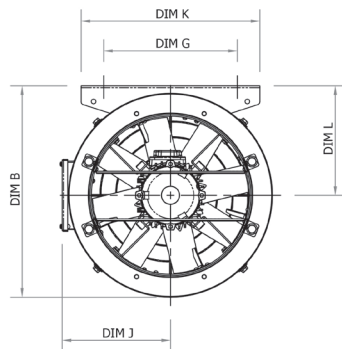
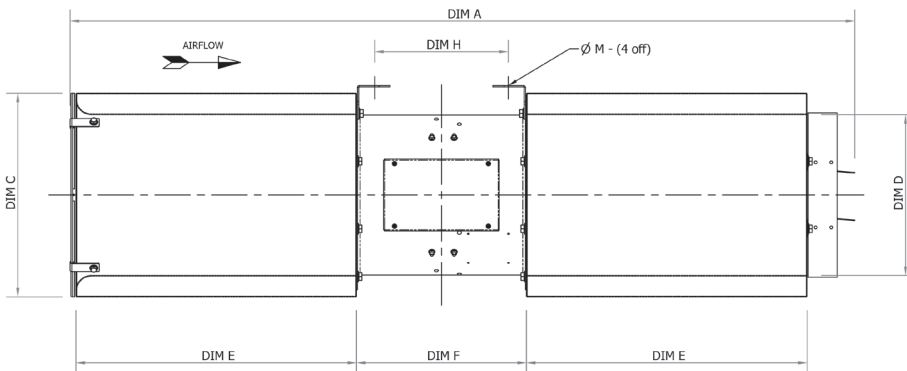
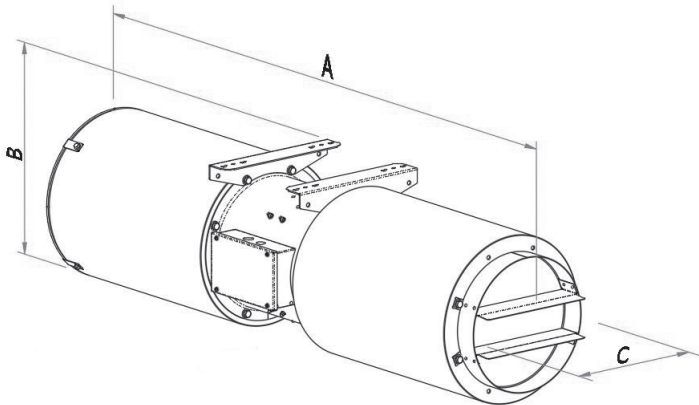
CODING IFC8-35AW-D

IFC 8 - 35 A W - D

1 2 3 4 5 6

SAMPLE CODING

1. IFC - Impulse fan configuration
2. No suffix - 300/2
8 - 400/2
3. Case size/performance range
4. Impeller reference
5. Blade angle
6. No Suffix - 50Hz
G - 460v 60Hz
J - 380v 60Hz



DIMENSIONS (MM) AND WEIGHT (KG)

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	WEIGHT
IFC-31	1741	419	417	314	628	365	260	284	221	360	210	11	43
IFC-35	1756	473	456	354	628	380	300	300	243	400	245	11	48
IFC-40	2279	531	502	405	860	440	350	359	270	450	280	11	58

300°C

TECHNICAL AND PERFORMANCE DATA

FAN REFERENCE	50Hz		
	IFC-31	IFC-35	IFC-40
Thrust Newtons: Full/Half Speed	25/6	43/11	77/19
Motor Kw: Full/Half Speed	1.1/0.25	1.1/0.25	1.5/0.37
Protection Class	IP55	IP55	IP55
Insulation	H	H	H
Electrical Supply	400/3/50	400/3/50	400/3/50
Motor FLC amps: Full/Half Speed	2.49/0.8	2.49/0.8	3.9/1.27
Motor SC amps: DOL Full/Half Speed	14.9/3.44	14.9/3.44	20/4.6
Sound dBA @3m: Full/Half Speed	63/48	68/54	68/54
Material Finish:	Galv Steel	Galv Steel	Galv Steel

400°C

TECHNICAL AND PERFORMANCE DATA

FAN REFERENCE	50Hz		
	IFC8-31	IFC8-35	IFC8-40
Thrust Newtons: Full/Half Speed	27/6	47/11	79/19
Motor Kw: Full/Half Speed	1.1/0.25	1.1/0.25	1.5/0.37
Protection Class	IP55	IP55	IP55
Insulation	H	H	H
Electrical Supply	400/3/50	400/3/50	400/3/50
Motor FLC amps: Full/Half Speed	2.49/0.8	2.49/0.8	3.9/1.27
Motor SC amps: DOL Full/Half Speed	14.9/3.44	14.9/3.44	20/4.6
Sound dBA @3m: Full/Half Speed	62/48	67/53	68/54
Material Finish:	Galv Steel	Galv Steel	Galv Steel

AXJ - HIGH VARIABLE THRUST RANGE

The AXJ range is composed of our High temperature axial fan in a bespoke Impulse Fan Configuration (AXJ).

The key benefits of this range are the virtually limitless choice of thrust values available, as well as many other configurable options to suit each project, with the benefit of the unit and all of the ancillaries EN 12101-3 2015 certified as a complete unit for assurances on site.

Nuaire's Axial Fan Configurator (AxCon) software includes a thrust calculator that enables selections of impulse fans from 10N up to 1300N thrust, and everything in between. Fan can alternatively be selected to achieve a specific airflow.

There is a large variety of parameters available enabling the customer to fix diameter/kW and high motor efficiency. Fans are available with smoke rating approved to EN 12101-3 2015 for both F300 and F400.

The AXJ range is typically used to meet thrust parameters, which are not available in the standard range. These can now be selected on AxCon or contact Nuaire for more information.