



AXIAL IMPULSE JETFAN



APPLICATION

Axial Impulse jettfans specifically designed to extract pollutants, like CO, from enclosed car parks and to remove smoke and heat in case of fire, to safeguard occupants and building. Their compact dimensions allow to overcome architectural and structural problems, like in case of low overall ceiling heights, and to eliminate the requirement of ductwork, without compromising the performance and efficiency of the ventilation system.

CONSTRUCTION

- Fan casings are heavy gauge, sheet steel, roll formed, welded and hot dipped galvanised after fabrication to BS 729.
- Integral mounting feet.
- Adjustable pitch aerofoil axial impeller.
- Blades from high quality pressure die cast aluminum (LM6).
- Hubs manufactured from pressure die cast aluminum (LM24).
- Dynamically balanced impellers to ISO 14694 Grade G6.3.
- Integral inlet and outlet silencers mounted to either side of the fan housing. Silencers are constructed from pre-galvanized sheet steel outer and pre-galvanized perforated sheet inner lining.
- The inlet silencer has a zinc plated guard attached, whilst the outer silencer has a deflector fitted to guide the air in the direction required.
- Totally enclosed airstream cooled motors, metric frame protected to IP55 degree, insulation Class H, two speed (Dahlander winding), with direct starting at both speeds.
- Motors suitable for normal continuous duty at +40°C and once-only emergency operation in smoke conditions of +300°C/120min.
- Snap-in isolator switch supplied.

FEATURES & BENEFITS

- The all metal fan casing and guard provide a long lasting and robust construction.
- The integral mounting feet allow the unit to be mounted easily to the ceiling.
- The assembled impellers have their blades positively locked by pinning, which provides added security for operation in the smoke regime.
- Available in two models:
 - JFU: uni-directional airflow.
 - JFR: truly reversible.
- Costs and installation time savings by eliminating ductwork.
- Without the distribution ductwork resistance, smaller exhaust and supply fan sizes (SCS) and /or motors can be used.
- Energy saving, noise and cost reduction thanks to the usage of smaller SCS sizes.
- Running costs reduction thanks to the possibility of exhaust and supply airflow across the dedicated area only.
- Jetfans low profile to facilitate the installation of splinker and lighntg systems.
- Ease of system design change.
- Integrated silencers on both fan sides designed to reduce the sound level and optimize performance.
- Fans can be connected to 400V/3Ph/50Hz.
- Fans complete with the supplied accessories (inlet and outlet silencers, side guard and deflector) are tested and certified by BSI institute in accordance with the European Standard EN1201-3:2015, and tested up to the date information on electrical safety, performance and noise level that can be relied upon.

- Designed and manufactured in accordance with BS EN ISO 9001:2015, Machinery Directive (MD), Low Voltage Directive (LVD) and Electromagnetic Compatibility Directive (EMC).

ON REQUEST

- Terminal box (HAT models).
- Motors suitable for once-only emergency operation in smoke condition of +400°C/120min. for normal continuous duty at +40°C.

Performances

Description	Poles	Mot. size	P _{el}		I _{nom}		I _{start}		Thrust	
			kW high	kW low	A high	A low	A high	A low	N high	N low
JFU/F3 315-2-HAI	2/4	80	1,27	0,29	2,73	0,82	14,5	2,9	30	10

Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m ³ /h high	m ³ /h low	high	low
JFU/F3 315-2-HAI	002659	55/H	-	-	5040	2916	62	44

Description	Poles	Mot. size	P _{el}		I _{nom}		I _{start}		Thrust	
			kW high	kW low	A high	A low	A high	A low	N high	N low
JFU/F3 355-2-HAI	2/4	90L	2,53	0,58	5,25	1,68	31,5	5,4	50	15

Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m ³ /h high	m ³ /h low	high	low
JFU/F3 355-2-HAI	002660	55/H	-	-	7308	3996	67	49

Description	Poles	Mot. size	P _{el}		I _{nom}		I _{start}		Thrust	
			kW high	kW low	A high	A low	A high	A low	N high	N low
JFU/F3 400-2-SAI	2/4	80	1,27	0,29	2,73	0,82	14,5	2,9	50	16

Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m ³ /h high	m ³ /h low	high	low
JFU/F3 400-2-SAI	002661	55/H	-	-	8244	4644	60	44

Description	Poles	Mot. size	P _{el}		I _{nom}		I _{start}		Thrust	
			kW high	kW low	A high	A low	A high	A low	N high	N low
JFU/F3 400-2-HAI	2/4	90L	2,53	0,58	5,25	1,68	31,5	5,4	80	18

Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m ³ /h high	m ³ /h low	high	low
JFU/F3 400-2-HAI	002662	55/H	-	-	10404	4932	66	48

Performances

Description	Poles	Mot.	P el		I nom		I start		Thrust	
		size	kW high	kW low	A high	A low	A high	A low	N high	N low
JFR/F3 315-2-HAI	2/4	80	1,27	0,29	2,73	0,82	14,5	2,9	24	6

Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m³/h high	m³/h low	high	low
JFR/F3 315-2-HAI	002663	55/H	-	-	4464	2268	63	45

Description	Poles	Mot.	P el		I nom		I start		Thrust	
		size	kW high	kW low	A high	A low	A high	A low	N high	N low
JFR/F3 355-2-HAI	2/4	90L	2,53	0,58	5,25	1,68	31,5	5,4	43	11

Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m³/h high	m³/h low	high	low
JFR/F3 355-2-HAI	002664	55/H	-	-	6804	3420	67	50

Description	Poles	Mot.	P el		I nom		I start		Thrust	
		size	kW high	kW low	A high	A low	A high	A low	N high	N low
JFR/F3 400-2-SAI	2/4	80	1,30	0,28	2,41	0,75	14,5	2,85	52	16

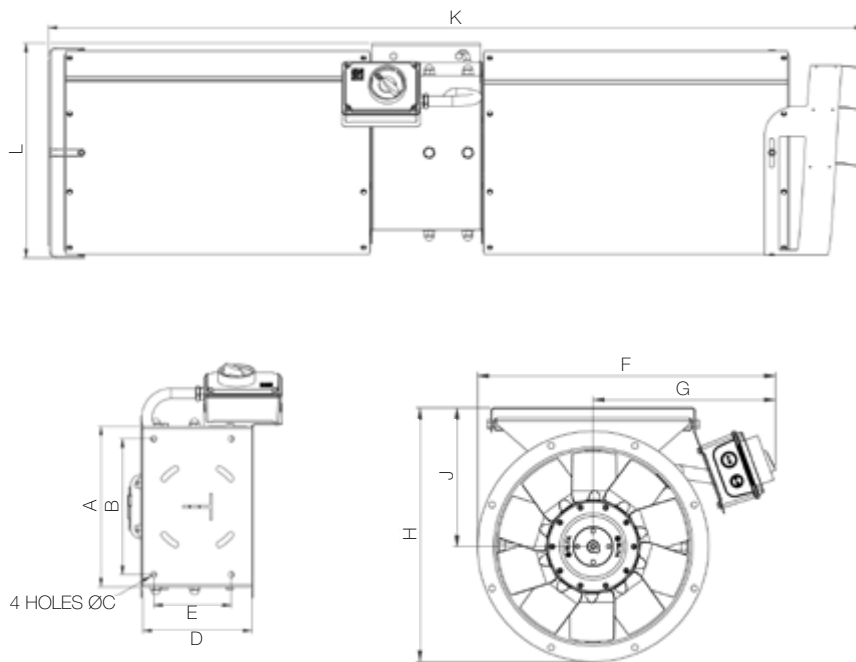
Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m³/h high	m³/h low	high	low
JFR/F3 400-2-SAI	002665	55/H	-	-	7272	3672	63	54

Description	Poles	Mot.	P el		I nom		I start		Thrust	
		size	kW high	kW low	A high	A low	A high	A low	N high	N low
JFR/F3 400-2-HAI	2/4	90L	2,53	0,58	5,25	1,68	31,5	5,4	83	21

Description	Code	IP/Cl.	Efficiency		Q		Lp dB(A) @3m	
			% high	% low	m³/h high	m³/h low	high	low
JFR/F3 400-2-HAI	002666	55/H	-	-	9396	4788	69	52

JFU/JFR

Dimensions (mm) and Weight (kg)



Description	A	B	C	D	E	F	G	H	J	K	L	Weight
JFU/F3 315-2-HAI	332	280	12	225	160	484	296	413	226	1686	442	58
JFU/F3 355-2-HAI	416	360	12	244	180	544	331	440	227	1694	444	79
JFU/F3 400-2-SAI	416	360	12	244	180	569	331	503	266	2192	520	98
JFU/F3 400-2-HAI	416	360	12	244	180	569	331	503	266	2192	520	98
JFR/F3 315-2-HAI	332	280	12	225	160	484	296	413	226	1806	437	60
JFR/F3 355-2-HAI	416	360	12	244	180	544	331	440	227	1816	442	81
JFR/F3 400-2-SAI	416	360	12	244	180	569	331	503	266	2345	520	100
JFR/F3 400-2-HAI	416	360	12	244	180	569	331	503	266	2345	520	100

The JFU/JFR fans are outside the scope of ErP legislation.
Data provided at standard air density of 1.2kg/m³.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation. It is expressed in dB re-20µPa and is presented for comparative purposes only.