


High pressure tunnelling & mining fans with accessories - technical specification

FAN MODEL	AVH-R63	AVH-R71	AVH-R90	AVH-R100	AVH-R112	AVH-R125	AVH-R140	AVH-R160	AVH-R180	AVH-R200	AVH-R230
Motor	F-class, IP54, 400/440 V, 50/60 Hz										
Motor support	Flange mounted										
Nominal power	9-25 kW	11-37 kW	37-90 kW	45-110 kW	9-37 kW	45-160 kW	45-160 kW	75-315 kW	132-500 kW	132-500 kW	250-710 kW
Impeller speed	3000/3600 rpm				1500/1780 rpm					1000/1200 rpm	1000/1200 rpm
Bearings	SKF										
Bearing lubrication	SKF "auto-lubricators system 24" on casing outside										
Impeller hub	Ø300 mm, cast aluminium	Ø430/510 mm, cast steel		Ø510/560 mm, cast steel		Ø800 mm, cast steel		Ø970-1250 Ø800 / 900 / 1000 mm, cast steel mm, welded steel			
Impeller blades	4-12 pcs, cast aluminium, adjustable at stillstand										
Gap between blade top and fan casing	1,2 mm	1,2 mm	1,2 mm	1,2 mm	1,5 mm	1,5 mm	1,5 mm	2,0 mm	2,0 mm	2,5 mm	3,0 mm
Casing inner Ø	630 mm	710 mm	900 mm	1000 mm	1120 mm	1250 mm	1400 mm	1600 mm	1800 mm	2000 mm	2300 mm
Fan casing thickness	5 mm	6 mm	6 mm	6 mm	6 mm	6 mm	6 mm	8 mm	10 mm	10 mm	12 mm
Casing anti-rust protection	140 µ epoxy + polyurethane										
Casing flanges	laser-cut, 10x60 mm, welded			laser-cut, 10x70 mm, welded		laser-cut, 10x80 mm, welded		laser-cut, 10x100 mm, welded	laser-cut, 10x120 mm, welded		
Turbulence elimination	Guide vanes welded to inside casing + straight longitudinal "fins"										
CE-marking	yes										
Performance test	Full test before delivery incl. capacity measurements. Test made together with frequency inverters should such be included in the delivery.										
Allowed vibrations	ISO 1940 Level G4										

FANS



SILENCERS	MODEL	GS63	GS71	GS90	GS100	GS112	GS125	GS140	GS160	GS180	GS200	GS230
	Inner Ø	630 mm	710 mm	900 mm	1000 mm	1120 mm	1250 mm	1400 mm	1600 mm	1800 mm	2000 mm	2300 mm
	Outer Ø	778 mm	858 mm	1088 mm	1188 mm	1308 mm	1438 mm	1628 mm	1828 mm	2028 mm	2228 mm	2528 mm
	Length	750 mm	1000 mm	1250 mm	1500 mm	1500 mm	2000 mm	2000 mm	2400 mm	2400 mm	2400 mm	3000 mm
	Casting flanges	lasercut, 8x70 mm, welded		lasercut, 8x90 mm, welded			lasercut, 8x110 mm, welded					
	Casing thickness	3 mm										
	Sound absorbing material	Heavy mineral wool 70mm		Heavy mineral wool 95mm			Heavy mineral wool 120mm					
	Self support-ing to fan casting	yes										
	Casting anti-rust protection	140 µ epoxy + polyurethane										
	"Super silencer"	centre baffle, l=silencer-50 mm, Ø380 mm					centre baffle, l=silencer -50 mm, Ø650 mm			centre baffle, l=silencer -50mm, Ø800 mm		

INLET BELLS	MODEL	GIB63	GIB71	GIB90	GIB100	GIB112	GIB125	GIB140	GIB160	GIB180	GIB200	GIB230
	Intake	"Bell shaped", pressure turned										
	Casing thickness	3 mm										
Protection grille "spider net model"												

DUCT ADAPTERS	MODEL	GIB63	GIB71	GIB90	GIB100	GIB112	GIB125	GIB140	GIB160	GIB180	GIB200	GIB230
	Length	150 mm	150 mm	150 mm	150 mm	150 mm	150 mm	200 mm	200 mm	200 mm	200 mm	200 mm
	Casting thickness	3 mm										
Casing thickness	Ø8 mm ring welded to adapter end for securing ducting											

FREQUENCY INVERTERS	Nominal power	11-710 kW										
	Power supply	400/440 V, 50/60 Hz										
	Adjustable fan speed	250 rpm up to full speed										
	Protections	motor current, short circuit, phase failure, over- and under voltage										
	Operation controls	LED-display with control buttons mounted on outside casing door										
	Cooling	By cooling fan										
	Capsuling	IP 54										
	Standard extra protection	All circuit boards laquered for protection against moisture and dust										
	CE-marking	yes										
	Others	The inverters fulfil the EU-regulations for start of electrical equipment										
	Optional	Inverters built in in an IP54 cabinet. Circuit breaker, automatic fuses, cabinet heater are also optional.										
Optional	EMC-filter											