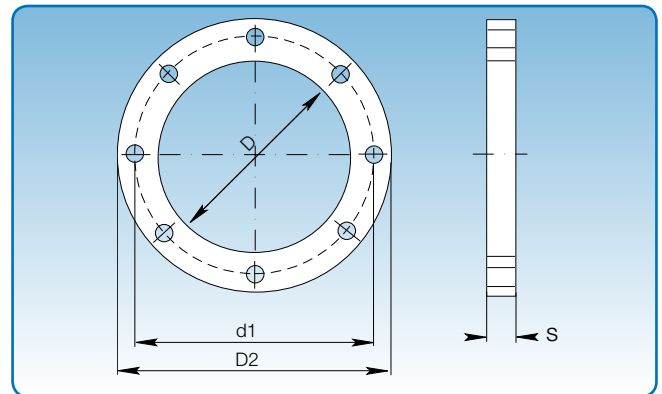
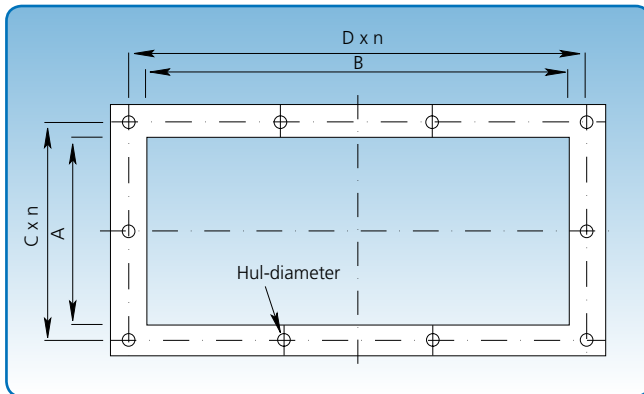


Square flanges type A and round flanges

Technical catalogue: Fan systems
 Section: 08
 Page: 1/9
 Revised: 01.04.2005



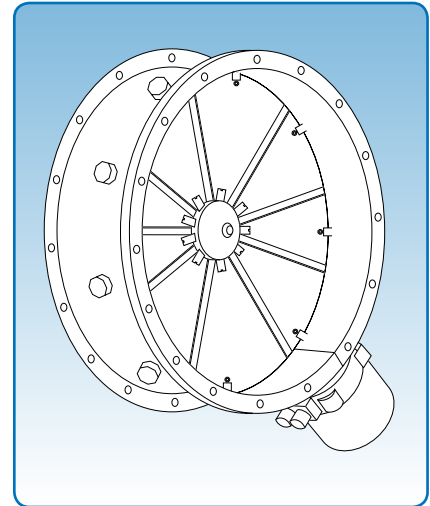
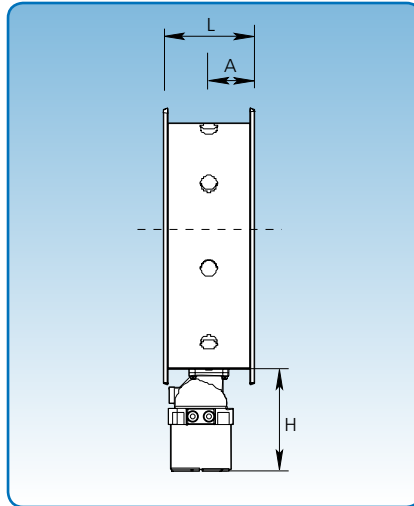
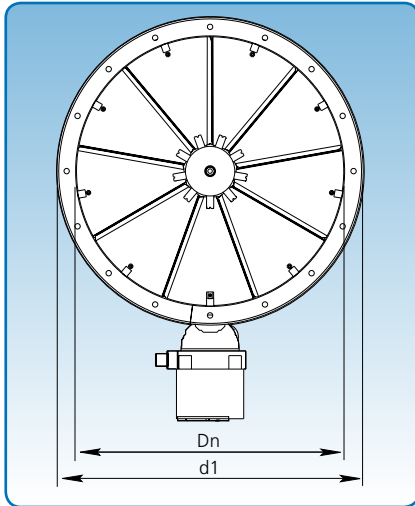
Square flange type A and round flanges.
 Dimensional specifications are given in the table below.

Square flanges	Dimensions						
	Fan type	A mm	B mm	C x n mm	D x n mm	Hole diameter mm	Material mm
JK-20D	140	140	85 x 2	85 x 2	11	30 x 6	1,04
T-200K/JK-22D	166	166	98 x 2	98 x 2	11	30 x 6	1,20
JK-25D	186	186	108 x 2	108 x 2	11	30 x 6	1,32
JK-30D/JK-30K	206	206	118 x 2	118 x 2	11	30 x 6	1,44
JK-35D/JK-40D/JK-40K	226	326	85 x 3	119 x 3	11	30 x 6	1,69
T-300K/JK-30MTD/JK-30MT	250	250	94 x 3	94 x 3	11	30 x 6	1,71
JK-45K	339	339	123 x 3	123 x 3	11	30 x 6	1,22
JK-40MTD/JK-40MT	350	350	95 x 4	95 x 4	11	30 x 6	2,14
JK-55K	418	418	112 x 4	112 x 4	11	30 x 6	2,74
JK-50MT	455	455	124 x 4	124 x 4	12	40 x 6	3,70
JK-60MT	505	505	109 x 5	109 x 5	12	40 x 6	4,00
JK-75K	555	704	119 x 5	124 x 6	12	40 x 6	5,14
JK-70MT	605	605	129 x 5	129 x 5	12	40 x 6	4,80
JK-80MT	705	705	149 x 5	149 x 5	12	40 x 6	5,58
JK-90MT	805	805	141 x 6	141 x 6	12	40 x 6	6,33
JK-100MT	905	905	135 x 7	135 x 7	12	40 x 6	7,10

Round flanges	Dimensions								
	Fan type	Diameter nominal	D mm	d1 mm	D2 mm	s mm	Flange width mm	Hole size mm	No. of holes
JK-30MT	300	305	336	355	5,00	25	9	12	1,00
JK-40MT	400	405	439	465	6,00	30	11	16	2,08
JK-50MT/JK-50LA	500	505	540	565	6,00	30	11	16	2,56
JK-60MT/JK-60LA	600	605	640	665	6,00	30	11	16	3,08
JK-70MT/JK-70LA	700	705	750	785	6,00	40	11	24	3,53
JK-80MT/JK-80LA	800	805	850	885	6,00	40	11	24	5,40
JK-90MT/JK-90LA	900	905	950	985	6,00	40	11	24	6,05
JK-100MT/JK-100LA	1000	1005	1050	1085	6,00	40	11	24	6,69

Twist throttles

Technical catalogue: Fan systems
 Section: 08
 Page: 2/9
 Revised: 01.04.2005



Dimensional specifications are given in the table below.

A centrally driven twist throttle, type JK-LA, is used to regulate air volume to the fan in the most energy-efficient way.

The twist throttle is mounted directionally with flow in the direction of the arrow. Regulation is achieved by all the twist blades turning synchronously between 0° - 90° to create pre-rotation of the air flow entering the fan. The load on the fan impeller is reduced and consequently power consumption. The JK-LA twist throttle can reduce total energy consumption by up to 40%. The turning mechanism in the hub is designed as a sealed, compact and robust unit with a minimum number of components and extremely low friction. The twist throttle requires no servicing and can be used as a throttle valve.

Types JK-50LA, JK-60LA, JK-70LA and JK-80LA uses:

Make: Bernard Z3
 0.02 kW: 1 x 230 V - 50 Hz

Types JK-90LA and JK-100LA uses:

Make: Bernard OA6
 0.06 kW: 1 x 230 V - 50 Hz
 0.10 kW: 3 x 400 V - 50 Hz

Max. operating temperature: 60°C

Actuator:

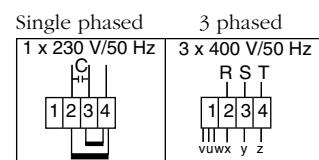
Frame leakage class, all models: IP 67.

Resistance coefficient for fully open twist throttle: 0.25 – 0.5.

The torque stated is based on differential pressure of p = 500 mm WG.

Specific dimensions for flanges can be found under "Flanges".

Power supply:



Type	Dimensions					No. of twist blades	Required torque	Weight kg
	Ø. Dn mm	L mm	A mm	d1 mm	H mm			
JK-50LA	500	220	110	585	240	9	24	26,7
JK-60LA	600	220	110	685	240	9	31	31,3
JK-70LA	700	220	110	795	240	9	41	37,1
JK-80LA	800	245	123	890	240	12	56	43,3
JK-90LA	900	245	123	990	200	12	79	52,6
JK-100LA	1000	245	123	1090	200	12	114	59,2

Acoustic booths type BH

Technical catalogue: Fan systems
 Section: 08
 Page: 3/9
 Revised: 01.04.2005

The type BH acoustic booths are used for noise reduction.

They are manufactured from 1.25 mm galvanised steel plate and lined with sound-absorbent and fire-resistant material.

A built-in rail system makes installation simple.

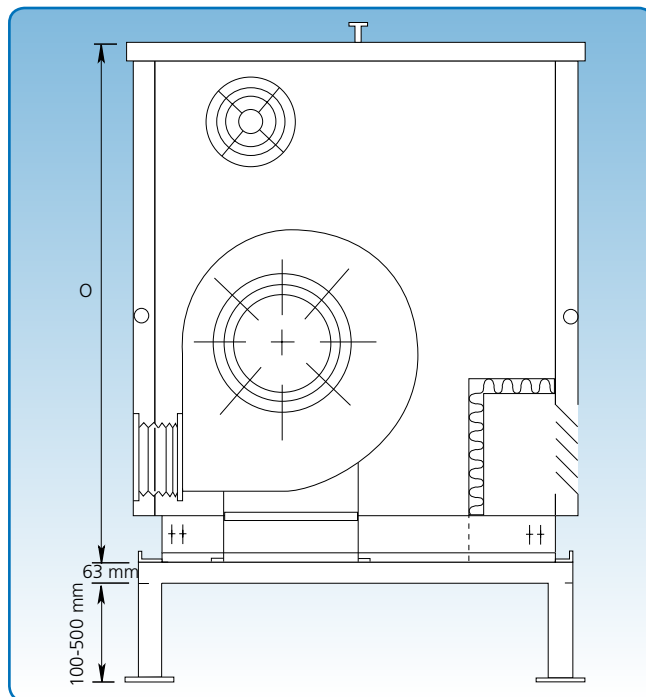
Authorised measurement of noise levels has been performed on the acoustic booths, which indicated noise reduction of 20 - 25 dB(A) for fans and high-pressure fans.

Supplied as standard with cooling fan.

Types 50-BH, 75-BH, 80-BH, 90-BH and 100-BH are supplied with doors.

Cooling fan and doors are standard-mounted as shown on the illustration. Other mounting positions can be supplied upon request.

Doors for other models can be supplied to suit.



For dimensional specifications, see next page.

Cooling fan type 4656 2W:

Power supply 230 V, 50/60 Hz.

For use with max. 5.5 kW electric motors.

For use with type 30-BH acoustic booths.

Cooling fan type W 2 E 200 HH 38-05:

Power supply 230 V, 50/60 Hz or 230/400 V, 50/60 Hz.

For use with 7.5 - 22 kW electric motors.

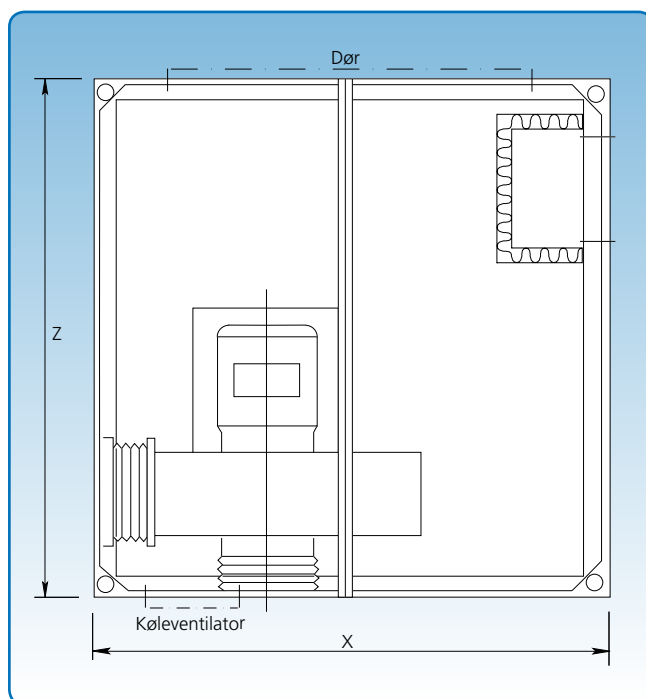
For use with type 40-BH and 45-BH acoustic booths.

Cooling fan type W 2 E 250 HL 06-01:

Power supply 230 V, 50/60 Hz or 230/400 V, 50/60 Hz.

For use with 30 - 90 kW electric motors.

For use with type 50-BH - 100-BH acoustic booths.



For dimensional specifications, see next page.

Acoustic booths type BH

Technical data

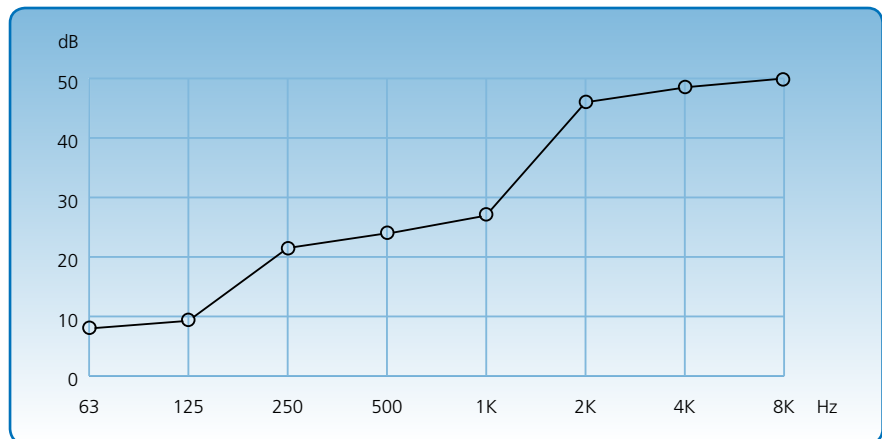
Technical catalogue: Fan systems
 Section: 08
 Page: 4/9
 Revised: 01.04.2005

The diagram shows the noise-suppression values for fans and high-pressure fans under the operating conditions stated on the brochure pages.

The measurement report is available upon request.

For 50-BH, 75-BH, 80-BH, 90-BH and 100-BH, the Z measurement is extended by 300 mm if a twist throttle is required.

The top can be reinforced for 75-BH - 100-BH to accommodate mounting of duct silencers.



The diagram shows the noise-suppression values in dB(A) at various frequency ranges for fans and high-pressure fans.

Type	Dimensions			Fan type RV, RN, LO, LN	Fan type RO, LV	Weight kg
	Length Z mm	Width X mm	Height O mm			
30-BH	850	850	995	JK-2HT		58
				JK-20D	JK-20D	
				JK-22D	JK-22D	
				JK-25D	JK-25D	
				JK-30D	JK-30D	
40-BH	1150	1150	1295	JK-4HT		105
				JK-5HT		
				JK-7HT		
				JK-35D	JK-35D	
				JK-40D	JK-40D	
				JK-30K	JK-30K	
				JK-30MTD	JK-30MTD	
45-BH	1400	1150	1445	JK-10HT		120
				JK-15HT		
				JK-40K	JK-40K	
				JK-45K	JK-45K	
				T-200K	T-200K	
				JK-40MTD	JK-40MTD	
				JK-40MT	JK-40MT	
50-BH	1700	1450	1745	T-300K	T-300K	210
				JK-50MT	JK-50MT	
75-BH	2020	1570	2040	JK-55K	JK-55K	225
				JK-75K	JK-75K	
80-BH	2320	1870	2080	JK-60MT	JK-60MT	390
				JK-70MT		
				JK-80MT		
90-BH	2620	2170	2225		JK-70MT	457
					JK-80MT	
100-BH	2924	2472	2665	JK-90MT		547
					JK-90MT	
	2924	2472	2815	JK-100MT		578
					JK-100MT	

Duct silencers

Technical catalogue: Fan systems
 Section: 08
 Page: 5/9
 Revised: 01.04.2005

Diameter: 100 mm - 1250 mm.

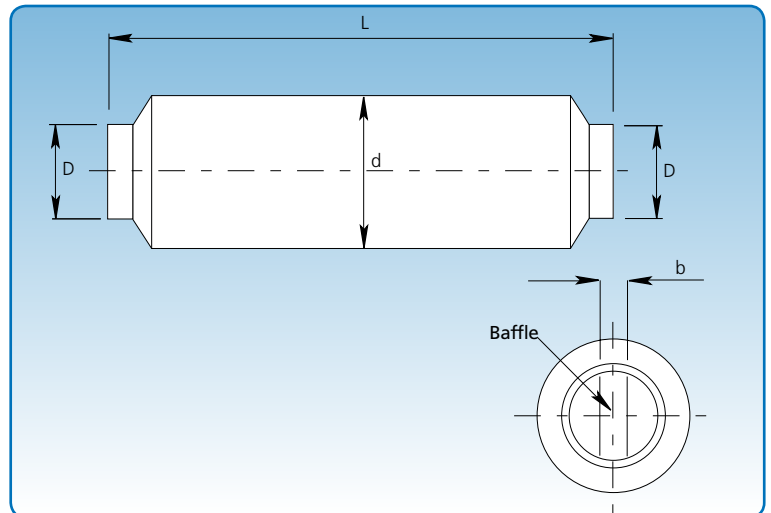
The duct silencers are used for noise-suppression in ducting systems.

They are made of 1.00 mm galvanised steel sheet, lined with sound-absorbent material.

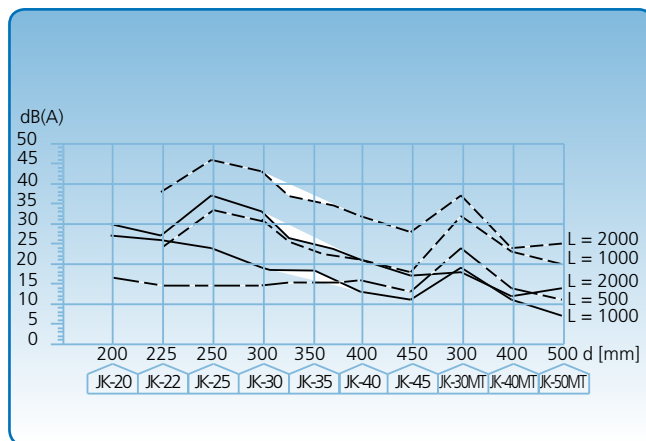
Can be supplied for fitting to rapid lock pull rings [f.lyn], pull rings [f.b], wide pull rings [f.bb] or loose flanges [f.b.m.fl].

Duct silencers with an internal diameter of > 250 mm can be supplied with baffles.

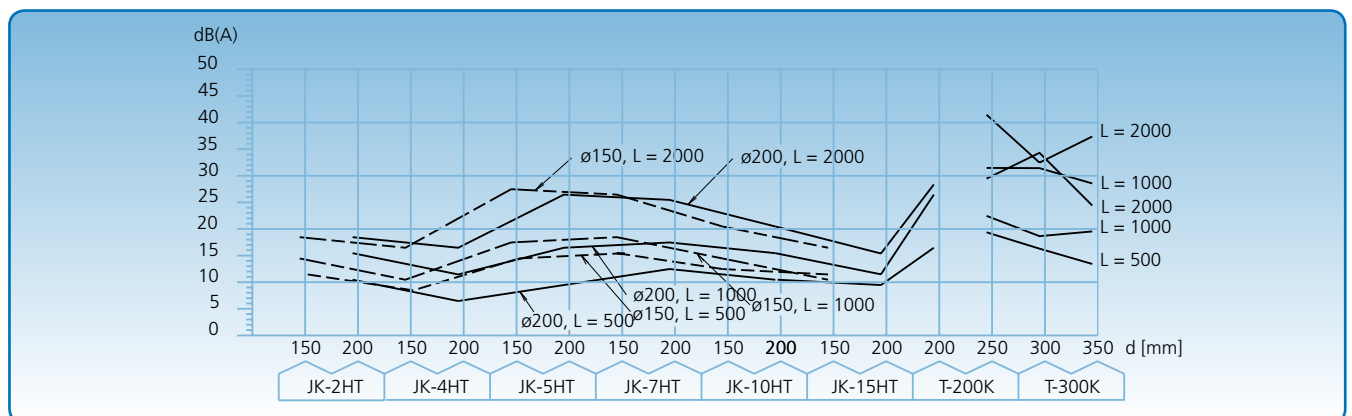
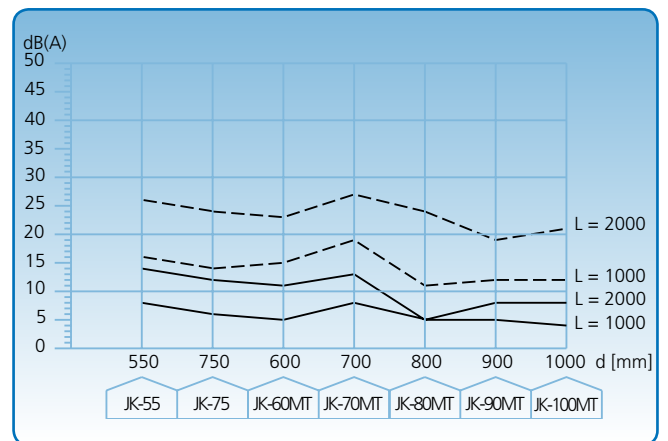
They can be fitted internally with perforated plates for ducting carrying light materials, or insulation material as options.



The diagrams show the noise-suppression values for fans and high-pressure fans under the operating conditions stated on the brochure pages. Authorised measurement of noise levels has been performed on the duct silencers.



— = with baffle — = without baffle



The diagrams show the noise-suppression values in dB(A) for fans.

Duct silencers

Technical data

Technical catalogue: Fan systems
 Section: 08
 Page: 6/9
 Revised: 01.04.2005

Noise-suppression values in dB(A) for various frequency bands.

Dimensions				Frequency bands							Weight kg
D mm	d mm	L mm	b mm	Hz 63	Hz 125	Hz 250	Hz 500	Hz 1000	Hz 2000	Hz 4000	
100	300	500		3	12	25	42	35	31	21	6
120	320	500		3	10	19	33	27	24	16	6
125	325	500		3	9	19	32	26	23	15	6,5
140	340	500		2	9	18	30	26	23	15	7
150	350	500		2	9	17	28	24	22	15	7
160	360	500		2	8	16	26	22	20	13	8
180	380	500		1	8	14	24	20	18	13	8,5
200	400	500		1	7	13	22	18	16	11	9
200	400	1000		3	13	25	42	35	31	21	17
225	425	500		1	6	11	20	16	15	10	10
225	425	1000		2	11	22	38	31	28	19	18
250	450	1000		2	10	20	34	28	25	17	20
250	450	1000	100	7	16	27	47	50	43	38	25
275	475	1000		2	10	19	32	26	22	16	21
275	475	1000	100	6	15	26	44	48	38	44	26
300	500	1000		2	9	17	29	23	18	14	22
300	500	1000	100	6	13	25	41	46	33	50	28
315	515	1000		2	8	16	27	21	17	11	24
315	515	1000	100	5	12	22	39	44	31	27	30
350	550	1000		2	7	14	24	18	15	9	26
350	550	1000	100	4	10	20	36	39	28	23	32
400	600	1000		2	6	12	21	14	13	8	29
400	600	1000	100	4	9	18	31	35	25	20	36
450	650	1000		3	6	11	19	11	11	6	32
450	650	2000		5	11	19	38	20	17	10	60
450	650	1000	100	4	8	15	29	31	21	17	40
450	650	2000	100	7	14	28	50	50	37	32	73
500	700	1000		4	6	11	19	8	8	4	37
500	700	2000		6	11	18	35	16	14	8	66
500	700	1000	100	5	7	14	25	28	20	15	45
500	700	2000	100	8	13	25	47	50	37	30	80
550	750	1000		3	5	10	17	8	7	4	38
550	750	2000		5	10	17	32	15	13	7	71
550	750	1000	100	4	6	13	22	26	18	14	47
550	750	2000	100	7	12	23	42	50	35	27	86
600	800	1000		3	5	9	15	7	6	3	42
600	800	2000		5	9	16	28	14	12	6	77
600	800	1000	100	4	6	11	20	24	16	11	52
600	800	2000	100	7	11	20	38	46	32	21	93
630	830	1000	100	4	6	11	18	22	15	10	54
630	830	2000	100	7	11	20	34	42	30	20	97
650	850	1000	100	3	6	10	17	21	14	9	55
650	850	2000	100	5	11	19	31	41	27	17	100
700	900	1000	200	5	7	14	24	21	24	14	69
700	900	2000	200	8	14	26	45	42	46	27	123
750	950	1000	200	5	6	11	20	18	17	11	74
750	950	2000	200	8	12	21	38	36	33	20	131
800	1000	1000	200	4	6	11	19	17	16	10	79
800	1000	2000	200	7	12	21	36	34	30	19	139
850	1050	1000	200	3	5	10	17	16	15	9	84
850	1050	2000	200	5	11	19	32	32	29	18	147
900	1100	1000	200	3	5	10	15	15	14	9	89
900	1100	2000	200	5	11	18	30	30	27	17	155
950	1150	1000	200	3	5	9	14	14	13	8	94
950	1150	2000	200	5	10	17	27	27	25	16	164
1000	1200	1000	200	3	5	9	14	13	13	8	99
1000	1200	2000	200	5	10	17	26	25	24	15	172
1250	1450	1000	200	2	4	7	11	11	10	5	126
1250	1450	2000	200	4	7	13	20	21	19	11	214

Flexible connections

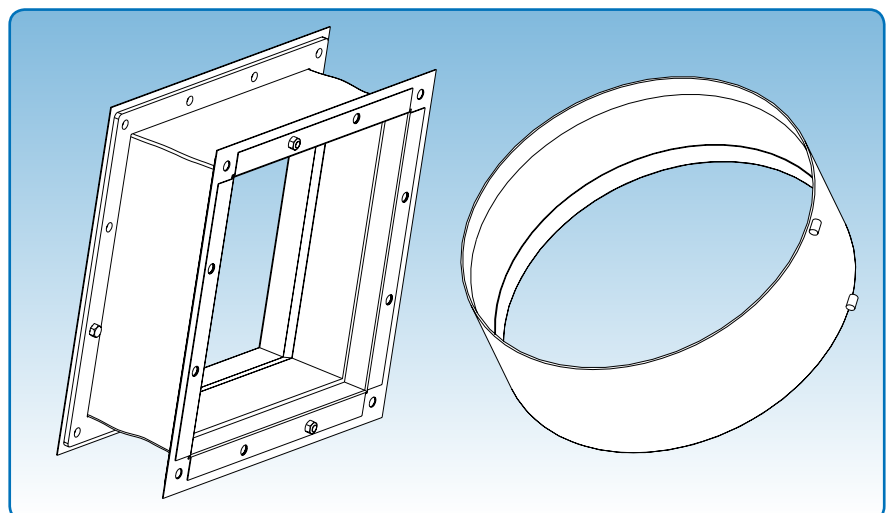
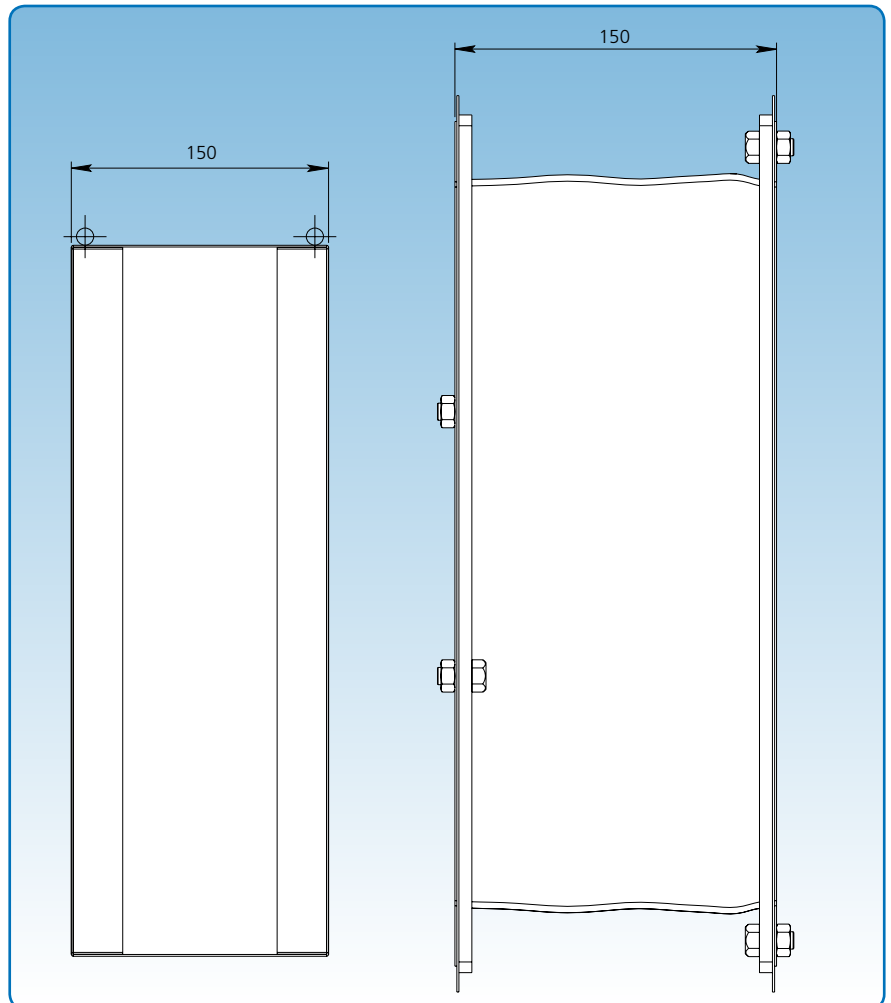
Technical catalogue: Fan systems
Section: 08
Page: 7/9
Revised: 01.04.2005

Circular and square flexible connections are available, with or without steel insert.

They are designed to fit the inlets and outlets of the fan range. Other dimensions can be produced to order.

A steel insert is usually included for transport fans and without for clean air fans.

They can also be fitted in standard duct systems.

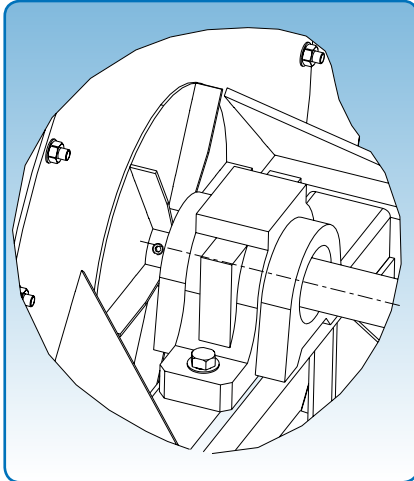


Square with steel insert.

Circular without steel insert.

Vibration dampers, cooling wings, gaskets, pullers

Technical catalogue: Fan systems
Section: 08
Page: 8/9
Revised: 01.04.2005

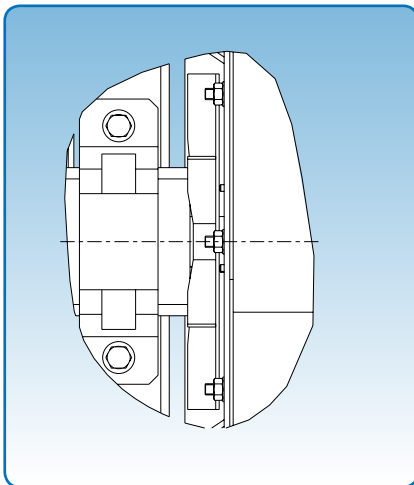


Cooling wings

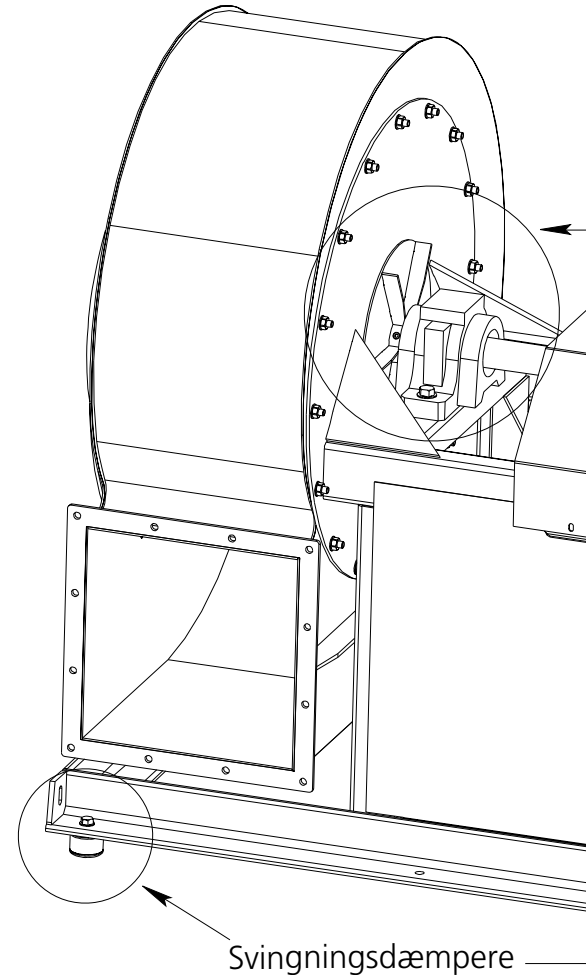
Cooling wings are mounted between the fan housing backplate and the bearing nearest the fan housing.

They are used when the fan is working with hot air and necessary for temperatures over 150°C. For temperatures over this mark the bearing housing is filled with temperature-resistant, high quality grease.

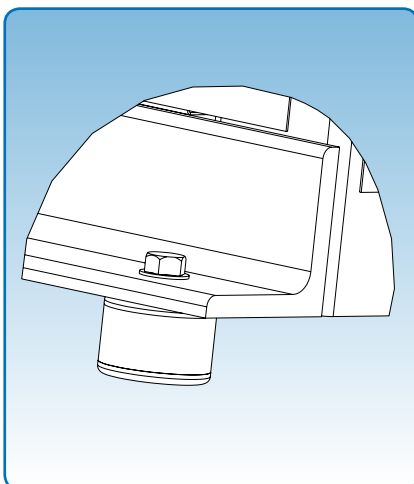
The cooling wings are secured to the fan drive shaft, and they are designed to protect the bearings.



Cooling wings



Svingningsdæmpere



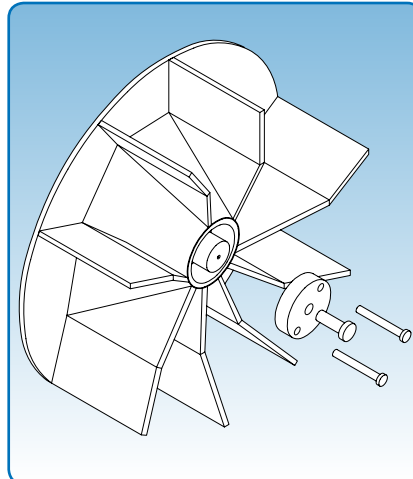
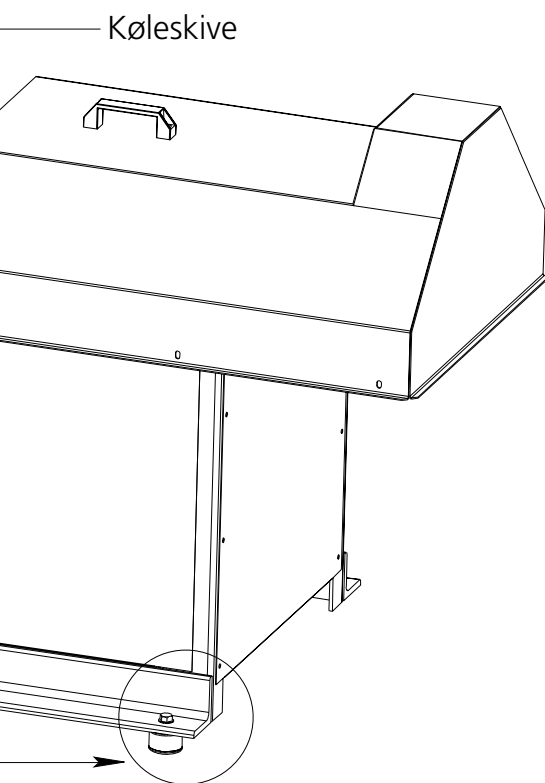
Vibration dampers

Vibration dampers are always used in combination with flexible connections on the inlet and outlet of the fan – never alone.

The dimensions of vibration dampers are governed by the total weight of the fan. There are threads on both sides for fitting.

Vibration dampers, cooling wings, gaskets, pullers

Technical catalogue: Fan systems
 Section: 08
 Page: 9/9
 Revised: 01.04.2005



Pullers

Pullers for impellers

The pullers are available in three versions as optional extras for all JK-D and JK-K fans.

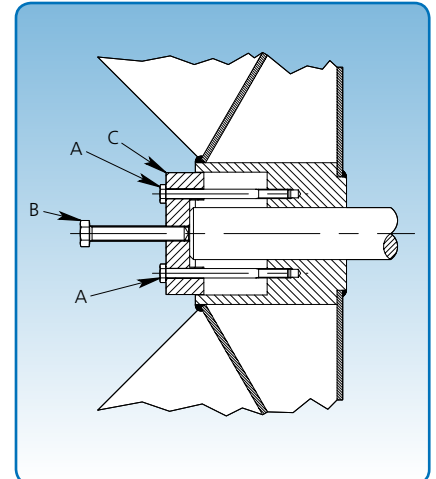
No. 1: JK-55K, JK-75K, T-300K, JK-60MT, JK-70MT, JK-80MT, JK-90MT, JK-100MT

No. 2: JK-40D, JK-45K, T-200K, JK-40MTD, JK-50MT

No. 3: JK-20D, JK-22D, JK-25D, JK-30D, JK-30MTD, JK-30MT, JK-35D, JK-30K, JK-40K, JK-40MT

Shaft gaskets for fans

A gasket is fitted between shaft and fan housing. All fan types JK-D, JK-K and T are fitted with this specially developed gasket, which is fitted on the visible part of the shaft between the housing and impeller backplates inside the fan housing. JKF recommend the gasket is replaced if the impeller is removed for any reason.



Installation guide

Mounting

Remove taperlock and adaptor ring.

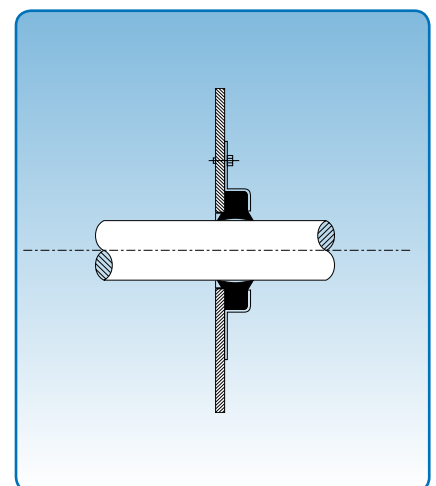
Fit disk C into impeller hub.

Tighten bolts A.

Tighten bolt B.

Pull impeller over the shaft.

Disk C can be used as a drilling template for hubs with no screw holes.



Shaft gasket