

THE RIGHT AIR AT ANY TIME WITH US IT'S ALWAYS A BREEZE



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Let your fantasy run free

Areas of application



MKV/TKV radial fans for the:

- graphics industryparticulate removal industry
- food industry
- food industry
- chemical industry (max. ATEX zone 22)
- wood industry
- general machine industry
- exhaust gases from garages (max. ATEX zone 22)
- textile industry
- room dehumidification

Convey air volumes of up to 6,300 m³/h and reach total pressure increases of up to 450 daPa

With optimised efficiency for the smaller motor

MKV/TKV 2015 is the result of the continuous advancement of the MKV/TKV programme contained independently in the product line.

A large quantity of impellers, more flexible connection options using DIN flanges, frequency converter mode and specifications as per ATEX (zone 22) offer even more possibilities for your applications and make the MKV/TKV 2015 programme a safe investment for the future.



General

This documentation applies to radial fans with an aluminium and cast iron frame of the **MKV** and **TKV** models.

It is used for the comparison of the old MKV/TKV generation with the currently revised version – MKV/TKV 2015.

The model designation of these fans breaks down according to the following formula:

Examples:

	ΤΚ٧	026	
	MKV	026-0	01030-00
Model			
Pressure series			
Volume flow and spe	ed		

The rated quantity corresponds to the clear connection diameters in cm (rounded) at discharge and inlet.

The specific MKV/TKV fan is selected primarily based on the desired air flow rate V and the required total pressure increase Δpt . Basically all three models and impeller variants (MKV-R, MKV-V and TKV) are suited to the delivery of **non-corrosive** gases and vapours at temperatures of up to +80°C (other temperatures upon request) **without** solids. Only the **TKV** model may be used during the pneumatic conveyance of solids, otherwise impeller clogging or caked deposits on the blades cannot be ruled out.

In particular cases the selection of special **protective coatings of paint** also allows the delivery of corrosive conveyed media. In these cases, please feel free to contact us about individual issues. Select details of a specific type of fan preferably using the type selection sheets or the charts on page 12 et. seq. Other data important to the planning engineer (speed, power requirements, acoustic data, among others) can be found there.

Always the right choice

Selection example

A suitable fan should be selected for the operating data V = 1,800 m³/h = 30 m³/min, Δpt = 330 daPa (conveyance of air at room temperature).

Solution:

1st option: MKV032-003530-00 with n = 2,900 rpm (page 18)

2nd option: MKV031-005030-00 with n = 2,900 rpm (page 19)

In both cases the power requirement is around 2.8 kW but in the first case the sound pressure level of 81 dB(A) is somewhat more favourable than the approximately 83 dB(A) in the second case. On top of that the fan mentioned first (size 016) is smaller than the second and thus more cost-effective.

Therefore we choose: MKV 032-003530-00

Other data (taken from diagrams):	
Speed	n = 2,900 rpm
Power requirements	Pw = 2.8 kW
Sound pressure level	LpA = 61 dB(A)
1 m in front of free suction opening	LpA1 = 81 dB (A)

Note: The MKV-V model may be used since the conveyance of solids is not foreseen.

The following points must be taken into account during installation planning:

Flow control

Undisturbed and twist-free intake flow must be ensured as much as possible to reach optimal fan performance. The outflow should also be in a straight line as much as possible. Avoid abrupt cross section alterations. In case of clear intake, some space in front of the fan inlet corresponding to at least twice the fan's rated diameter must be left open. If the line connection is at inlet, the stretch in front of the fan should have a length that is at least five times the fan's rated diameter. If the space needed for this purpose is lacking, the flow should be made to go through well rounded bends. Cross section extensions in the shape of diffusers must be designed at the fan's discharge. As much as possible avoid abrupt direction changes of lines through the selection of the position of discharge.

Vibration damping

To prevent vibrations from being transmitted to the mounting level, install the fan on anti-vibration mounts. At the same time, attach flexible connections between the fan and pipeline system.

Electrical connections

Execute these in compliance with local regulations. In terms of temperature range, MKV and TKV fans are suited without restrictions for maximum conveyed medium temperatures of up to +80°C. At higher temperatures the application possibility must be tested on a case-by-case basis. In such a case, please feel free to contact us.

Our application in your system

Motor

Squirrel-cage rotor motors (400 V, 50 Hz) as per IEC standard, model B5. Degree of protection from IP 55, insulation class F. Bearing with long-term grease lubrication. Motors with other degrees of protection and insulation classes as well as for other line voltages and frequencies upon request.

Depending on motor size and load, the effective speed can deviate somewhat from the rated speed given in the selection charts. The deviations that normally arise have already been considered in the progress of curves shown. When selecting the motor, it is recommended that a power reserve of at least 15% be considered.

The structurally dependent limitations of motor sizes indicated in the selection charts must also be taken into account. In particular, this applies to the use of pole-changing motors as well as 60 Hz drives.

60 Hz drive

Basically MKV/TKV fans are also suited for drives with 60 Hz motors (rated speed approx. 3,500 and 1,750 rpm). However, in some cases limitations due to the maximum applicable motor size are possible.

In any event, take into consideration that increasing the speed by 20% causes the performance data of fans to undergo the following changes with respect to the plotted curves:

Volume flow:	increase by a factor of 1.2
Total pressure difference:	increase by a factor of $1.22 = 1.44$
Power requirements:	increase by a factor of $1.23 = 1.73$
Sound level:	increase by 4 dB(A)

Special ATEX designs

Basically fans from the MKV and TKV series can be used in a potentially explosive environment due to dust in zone 22. This requires the application of European Community Directive 94/9/EC (ATEX 95) to the planning, manufacture and circulation. Special equipment features such as special-purpose motors, accessories, etc. are offered upon request.

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Gaz de combustion, vapeur, Mélanges air-poussieres inflammables				Présence d'une atmosphère explosive	Pictorial representation of the zones			
Combustible gases, vapours, mists and dusts mixed with air			tible dusts tth air	Occurrence of potentially explosive atmosphere				
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Modifications at first glance

MKV/TKV from the prior generation



- 1. Fan base for fastening
- 2. Right half of housing
- 3. Impeller
- 4. Left half of housing
- 5. Flange plate for the motor mount
- 6. Motor

Model version of the future MKV/TKV 2015 series



- 1. Fan base
- 2. DIN flange at inlet
- 3. Flange plate with inlet nozzle
- 4. Right half of housing
- 5. Impeller
- 6. Left half of housing
- 7. Cover panel for motor mount
- 8. Screwed flange for motor mount
- 9. Motor
- 10. Fitted Teflon gasket

NEW against OLD

Consequence of the change

- Omission of housing sizes 006 / 010 / 016; operating data is preserved and implemented with housing sizes 008 / 012 and 020
- Better connection options using DIN flanges (compliant with DIN 24154, series 1) at discharge and inlet
- Increase in tightness between both halves of housing through the use of a selfadhesive Teflon gasket
- Flexible setting for position of discharge
- Position of discharge (not direction of rotation) can be adjusted to the customer requirement at any time and without complications
- The motor's terminal box can adapted to the environmental conditions in terms of position so that access is possible at any time
- Short delivery time through optimised stock-keeping
- Wide range of choices

Good things endure

Our MKV/TKV models are and continue to be compact, lightweight and high-quality aluminium fans. The familiar performance curves are preserved and, if necessary, can be extended by using other impeller variants. The well-known accessories for the MKV/TKV such as filters, connecting pipes, flexible connections, etc. can all be used for the new MKV/TKV 2015 models. The changes in dimensions are minor as you can see from the table entitled "Size comparison MKV/TKV old with 2015" (page 14).

OLD



NEW



A question of size

Dimensions

MKV/TKV current







FUNDAMENTPLAN

Ø 12



GEHAEUSESTELLUNG AUF DIE ANTRIEBSSEITE GESEHEN nousing position view from the drive GR 270

MKV/TKV 2015





FUNDAMENTPLAN foundation layout





ANSCHLUSSFLANSCHE

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foundation layout

GEHAEUSESTELLUNG AUF DIE ANTRIEBSSEITE GESEHEN housing position view from the drive GL 270

ANSCHLUSSFLANSCHE connection flanges



Change in size in figures (dimensions in mm)





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Description 270 280 280 280 277,5 300 277,5 300 308,5 308,5 308,5 308,5 308,5 300 301 338,5 300 301 338,5 300 301 338,5 300 307,5 300 310 338,5 300 307,5 300 310 338,5 300 307,5 300 370 380 400,35 300 301 333,5 300 301 333,5 300 301 301 301 301 302 300 301 332,5 300 372,5 300 372,5 300 302 300 303,5 301 301 303,5 301 301 303,5 301 301 303,5 301 301 303,5 301 301 303,5 301 301 301 301 301 301 301 301 301 301 301 301 301 301 301 301 301 <td>Description 270 280 280 280 277,5 300 277,5 300 308,5 80M 290 290 300 307,5 310 307,5 300 310 338,5 80M 290 290 300 307,5 310 307,5 300 310 338,5 8005 347,5 350 347,5 340 360 378,5 9001 372,5 380 372,5 370 380 403,5 100L (01 L) 380,400 433,5 112M (114 M) 518,5 132 M 518,5 132 M 518,5</td> <td></td> <td>90</td> <td>190</td> <td>190</td> <td>280</td> <td>280</td> <td>280</td> <td>420</td> <td>420</td> <td>420</td> <td></td> <td></td>	Description 270 280 280 280 277,5 300 277,5 300 308,5 80M 290 290 300 307,5 310 307,5 300 310 338,5 80M 290 290 300 307,5 310 307,5 300 310 338,5 8005 347,5 350 347,5 340 360 378,5 9001 372,5 380 372,5 370 380 403,5 100L (01 L) 380,400 433,5 112M (114 M) 518,5 132 M 518,5 132 M 518,5		90	190	190	280	280	280	420	420	420		
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Jobc Job Job Job Hold Ho	Size Size <th< td=""><td>03</td><td></td><td></td><td></td><td>347,5</td><td>350</td><td>347,5</td><td>340</td><td>300</td><td>378,5 402 E</td><td></td><td></td></th<>	03				347,5	350	347,5	340	300	378,5 402 E		
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Number Number Number Number Number 132 M 518,5 483,5	128 (M) 120 158,5 128 (M) 518,5 128 (M) 483,5 The dimension "m" depends on the mounted motor variant or the selected motor manufacture and for this reason is not indicated as a constant in the table	12M (114 M)							380	400	433,5		
318,5 318,5 132 S 483,5 The dimension "m" depends on the mounted motor variant or the selected motor manufacture and for this reason is not indicated as a constant in the table.	318,5 318,5 132 S 483,5 The dimension "m" depends on the mounted motor variant or the selected motor manufacture and for this reason is not indicated as a constant in the table	22 M							420	420	443,5		
485,5 The dimension "m" depends on the mounted motor variant or the selected motor manufacture and for this reason is not indicated as a constant in the table.	132.5 483,5 483,5	32 W									518,5		
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		ne amension "r	in depends on the	e mountea motor	variant or the select	eu motor manufac	aure and for this i	reason is not indicat	eu as a constant	in the table.			

Exactly my type

Direction of rotation and position of discharge

Fan seen from the drive side. If there is no indication, position RD 270 is delivered.

Direction of rotation

Single-stage radial fans are delivered with two directions of rotation. Seen from the drive side:

GR = clockwise [RD]* GL = counterclockwise [LG] *Designation in [...] as per EUROVENT

Positions of discharge

The position of discharge or the direction of the outlet connection is indicated in degrees depending on the angle. Basically the direction of rotation or the sense of impeller rotations is indicated as seen from the drive side.



Type selection

MKV/TKV pressure series

			Pressure		Power			
			increase	Volume flow	requirements	Motor output	Rated speed	Frequency
Old type	Model	Model designation	<u>∆pt daPa</u>	m3/min.	<u>kW</u>	<u>kW</u>	rpm	Hz
MKV-006-V	MKV	006-000218-00	62	2,16	0,17	0,37	1740	60
MKV-008-V	MKV	006-000418-00	65	3,84	0,17	0,37	1740	60
MKV-010-V	MKV	009-000718-00	91	6,72	0,26	0,55	1740	60
MKV-012-V	MKV	009-001218-00	91	12	0,36	0,75	1740	60
MKV-016-V	MKV	011-002218-00	115	21,6	0,71	1,50	1740	60
MKV-020-V	MKV	011-003018-00	115	30	0,95	1,50	1740	60
MKV-006-R	MKV	006-000218-01	58	1,68	0,17	0,25	1740	60
MKV-008-R	MKV	006-000318-00	58	3	0,17	0,25	1740	60
MKV-010-R	MKV	007-000518-00	72	4,8	0,17	0,25	1740	60
MKV-012-R	MKV	007-000818-00	72	7,8	0,19	0,25	1740	60
MKV-016-R	MKV	009-001418-00	86	14,4	0,34	0,55	1740	60
MKV-020-R	MKV	008-001918-00	81	19,2	0,45	0,55	1740	60
MKV025/425-R	MKV	009-003018-00	91	30	0,86	1,10	1740	60
MKV025/450-R	MKV	010-003818-00	101	38,4	1,03	1,50	1740	60
MKV025/500-R	MKV	014-004218-00	144	42	1,71	2,20	1740	60
TKV-006	TKV	005-000218-00	48	1,8	0,09	0,18	1740	60
TKV-008	TKV	005-000318-00	48	3	0,08	0,18	1740	60
TKV-010	TKV	007-000518-00	68	5,4	0,19	0,25	1740	60
TKV-012	TKV	006-000818-00	63	7,8	0,26	0,37	1740	60
TKV-016	TKV	008-001518-00	86	15	0,48	0,75	1740	60
TKV-020	TKV	007-002418-00	76	24	0,72	1,10	1740	60
TKV-025/425	TKV	009-003418-00	91	33,6	1,14	2,20	1740	60
TKV-025/450	TKV	011-003618-00	108	36	1,46	2,20	1740	60
TKV-025/500	TKV	013-004318-00	130	43,2	2,07	3,00	1740	60

Layout at:

Inlet temperature: +20°C Installation height: 0 m a.s.l. Operation at inlet with connected duct

16

Wählen Sie aus der Vielfalt unseres Leistungsprogramms.

Faites votre sélection parmi notre gamme diversifiée de produits.

Make your choice from the variety of our program.

Basis-Programm_

Programme de base Basic programme

Großventilatoren____

Grands ventilateurs Large fans

Heissgas-Umwälzer

Ventilateurs de circulation à gaz chaud Hot gas circulating fan

Zusatzprogramm_

Programme complémentaire Additional programme

Sonderprodukte___ Produits spéciaux

Special products

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