



**Gebhardt *provent***

**Gebhardt provent  
Axial fans with integral motor**

**for wall, or duct mounting**

**D 40** e-TP

Edition 1



ventilation and  
air conditioning





AQA 61-



AWA 61-



ATA 61-



ARA 61-



ARA 62-

Features, application  
technical description

**General**

The axial fans in this series are suitable for conveying air or other gases or vapours which are not especially aggressive. The lower operating temperature is -30°C and the upper limit is given in the tables on page 3. The main direction of the airflow - suction across motor flange. The fans can be installed in a vertical or horizontal position. Reversible operation whereby the air volume is reduced by approx. 30% is available on request.

**AQA 11 -0200./0300**  
square wall plate  
**AWA 11 -0200./0300**  
circular wall plate

**Features:** wall plate with inlet cone of coated sheet steel, galvanised sheet steel impeller, mounted on the rotor of the built-in motor, connecting cable, contact protection in accordance with DIN EN 294 on the inlet side, low noise, maintenance free, ready for connection

**AQA 61 -0315./0630**  
square wall plate

**Features:** wall plate with inlet cone of galvanised sheet steel and powder coated, plastic impeller screwed onto the rotor of the built-in motor, connecting cable and terminal box supplied loose, contact protection in accordance with DIN EN 294 on the inlet side,

**AWA 61 -0315./0630**  
circular wall plate

low noise, maintenance free, ready for connection

**Application:** ventilation and air conditioning, refrigeration, agriculture, horticulture, plant cooling

**ATA 61 -0315./0630**

**Features:** technical design as for AWA and AQA but without wall ring. Available for installation in equipment.

**ARA 61 -0315./0630**

**Features:** duct mounted casing with connecting flanges on both sides, made from sheet steel and powder coated. Plastic impeller, screwed onto the rotor of the built-in motor, low noise, maintenance free, ready for connection with terminal box mounted on the fan casing.

**Application:** ventilation and air conditioning, refrigeration, agriculture, horticulture, plant cooling

**ARA 62 -0315./0630**

**Features:** duct mounted for flush mounting in long casing design, made from sheet steel and powder coated. Plastic impeller screwed onto the rotor of the built-in motor, with the connecting cable and terminal box supplied loose

low noise, maintenance free, ready for connection

**Application:** ventilation and air conditioning, refrigeration, agriculture, horticulture, plant cooling

**Motors**

Built-in motors - with protection system IP54, insulation class B and noise tested, maintenance free deep groove ball bearings - are used for the drive. The motors are equipped with thermal contacts as protection against thermal overload. The thermal contacts switch the motor off when the winding temperature exceeds the permitted level either directly (in sequence with the motor winding) or through our full motor protection switching unit.

All motors are 100% speed variable. The speed change is load controlled - reduced terminal voltage results in an increase in slip.

**Modified designs**

Motors 8 pole from size 400, motors pole changeable according to Dahlander 8/4

Motors speed variable 4/4; 6/6; 8/8

Special voltage up to 600 V, 60 Hz, insulation class F

Higher conveying temperature on request

Frequency regulation on request

**Protection against accidental contact**

**Series AQA 61, AWA 61** - The axial fans are fitted with an inlet guard as standard. A discharge guard is also available as an optional extras.

**Series ARA 61, ARA 62** - These axial fans are designed for in-line or flush fitting and do not include a protective device as standard. Inlet guards and automatic shutters are available as optional extras.

**Accessories**

All accessories can be ordered separately

**Noise**

The sound pressure level  $L_{pa}$  at distance of 1 m is calculated approximately by subtracting 7dB from acoustic power level A.

**Volume flow**

Volume flow figure where  $\Delta p_{ra} = 0$  and without protective guards.

**Electrical connection**

**Series AQA 61, AWA 61, ATA 61, ARA 61, and ARA 62**

The fans of these series are supplied with a loose connecting cable and wired terminal box and in the case of single phase AC, a capacitor is also included. In the ARA 61 series the terminal box is fixed directly on the fan casing.


**AQA 61-**

**AWA 61-**

**ATA 61-**

**ARA 61-**

**ARA 62-**

Technical data

AWA/AQA/ATA	max. volume flow m <sup>3</sup> /h	speed 1/min	nominal motor voltage V	max. power consumption kW	nominal motor current A	acoustic output level L <sub>WAS</sub> at V <sub>max</sub> dB	maximum conveying temperature °C	max. weight kg approx.	full motor protection switching unit EUM ②	speed controller, transformer, 5 step with casing ETH②	speed controller, electronic, continuous EPH/EPA
11-0200-2E	790	2650	230	0,065	0,32	73	70	3	- ①	01-0015-5E	03-0010-5E
11-0200-4S	390	1315	230	0,039	0,32	58	50	2	- ①	01-0015-5E	03-0010-5E
11-0250-2E	1570	2500	230	0,130	0,68	79	55	4	- ①	01-0015-5E	03-0010-5E
11-0250-4S	860	1350	230	0,065	0,52	65	45	3,5	- ①	01-0015-5E	03-0010-5E
11-0300-2E	2460	2550	230	0,180	0,85	80	50	5	- ①	01-0015-5E	03-0010-5E
11-0300-4E	1720	1340	230	0,095	0,46	71	50	5	- ①	01-0015-5E	03-0010-5E

**AQA/AWA/ATA/ARA 61  
ARA 62**

0315-4D	1780	1350	230/400	0,11	0,66/0,38	69	45	6	13 (23) ③	05-0010-8D	EPA 03-0080-8D
0315-6D	1230	940	230/400	0,07	0,48/0,28	61	45	6	13 (23)	05-0010-8D	EPA 03-0080-8D
0315-4E	1800	1350	230	0,12	0,65	69	50	6	- ①	01-0015-5E	EPH 03-0010-5E
0315-6E	1220	925	230	0,06	0,3	61	50	6	- ①	01-0015-5E	EPH 03-0010-5E
0355-4D	3020	1400	230/400	0,18	0,78/0,45	72	40	6,5	13 (23)	05-0010-8D	EPA 03-0080-8D
0355-6D	2000	960	230/400	0,09	0,52/0,3	64	45	6,5	13 (23)	05-0010-8D	EPA 03-0080-8D
0355-4E	2840	1340	230	0,16	0,95	71	50	7	- ①	01-0015-5E	EPH 03-0010-5E
0355-6E	1980	940	230	0,1	0,52	64	45	7	- ①	01-0015-5E	EPH 03-0010-5E
0400-4D	3760	1350	230/400	0,2	1,21/0,7	73	50	9	13 (23)	05-0010-8D	EPA 03-0080-8D
0400-6D	2630	950	230/400	0,11	0,93/0,54	66	50	9	13 (23)	05-0010-8D	EPA 03-0080-8D
0400-4E	3730	1320	230	0,22	1,15	73	45	9	- ①	01-0015-5E	EPH 03-0020-5E
0400-6E	2580	935	230	0,1	0,6	66	60	9	- ①	01-0015-5E	EPH 03-0010-5E
0450-4D	5730	1350	230/400	0,3	1,37/0,79	78	50	12	13 (23)	05-0010-8D	EPA 03-0080-8D
0450-6D	4030	925	230/400	0,16	1,18/0,68	70	50	12	13 (23)	05-0010-8D	EPA 03-0080-8D
0450-4E	5780	1290	230	0,35	1,9	78	40	13	- ①	01-0020-5E	EPH 03-0020-5E
0450-6E	3990	935	230	0,18	1,15	70	45	13	- ①	01-0015-5E	EPH 03-0020-5E
0500-4D	9060	1440	230/400	0,6	2,86/1,65	81	50	18	13 (23)	05-0020-8D	EPA 03-0080-8D
0500-6D	6090	960	230/400	0,22	1,47/0,85	72	55	17	13 (23)	05-0010-8D	EPA 03-0080-8D
0500-4E	8460	1340	230	0,57	3,15	80	50	18	11 (21)	05-0040-5E	EPH 03-0040-5E
0500-6E	5860	940	230	0,26	1,6	71	50	18	- ①	01-0020-5E	EPH 03-0020-5E
0560-4D	13130	1320	230/400	1,19	4,47/2,58	84	40	28	13 (23)	06-0040-8D	EPA 03-0080-8D
0560-6D	9350	960	230/400	0,45	2,9/1,7	76	60	28	13 (23)	05-0020-8D	EPA 03-0080-8D
0560-4E	13650	1330	230	1,3	6,25	84	40	33	11 (21)	05-0070-5E	EPA 03-0063-5E
0560-6E	9560	960	230	0,59	3,2	76	50	33	11 (21)	05-0040-5E	EPH 03-0040-5E
0630-4D	17380	1320	230/400	1,65	5,54/3,2	88	45	40	13 (23)	06-0040-8D	EPA 03-0080-8D
0630-6D	12080	945	230/400	0,58	3,2/1,85	81	60	35	13 (23)	05-0020-8D	EPA 03-0080-8D
0630-6E	11970	945	230	0,7	3,5	80	50	40	11 (21)	05-0040-5E	EPH 03-0040-5E

① Full motor protection switching unit is not necessary. The thermal contacts in the motor are in sequence with the winding. As soon as the motor overheats they will switch it off and, once it has cooled down, start the motor automatically.

② The full motor protection switching unit is not necessary when a speed control device of type ETH 05-...-D, ETH 06-...-D or ETH 05-...-E or EPA 03 is used. These speed control devices already contain a full motor protection device.

③ EUM 11; EUM 13 - surface mounted model  
EUM 21; EUM 23 - built-in model



AQA 61-



AWA 61-



ATA 61-



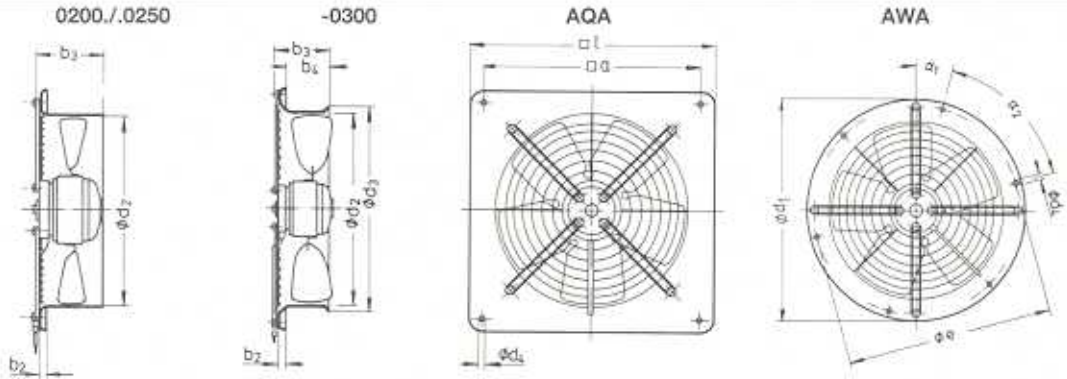
ARA 61-



ARA 62-

Dimensions:

AQA 11-0200../0300  
AWA 11-0200../0300

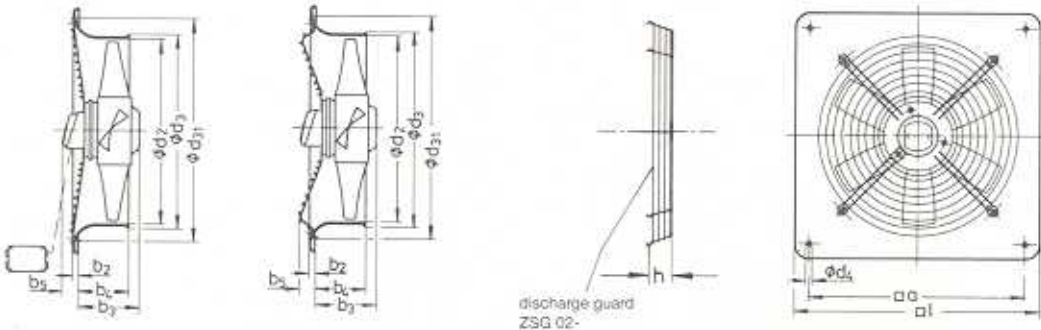


	$\square a$	$b_2$	$b_3$	$b_4$	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	$\varnothing e$	$\square l$	$\alpha_1$	$\alpha_2$
0200-	260	6	89	75	280	200	-	7	250	312	15°	6 × 60°
0250-	320	6	94	79	320	254	-	7	295	370	15°	6 × 60°
0300-2E	380	11	89	69	397	306	326	9	380	430	15°	6 × 60°
0300-4E	380	11	89	69	397	306	326	9	380	430	15°	6 × 60°

AQA 61-0315../0630

AQA 61-0315../0355

AQA 61-0400../0630

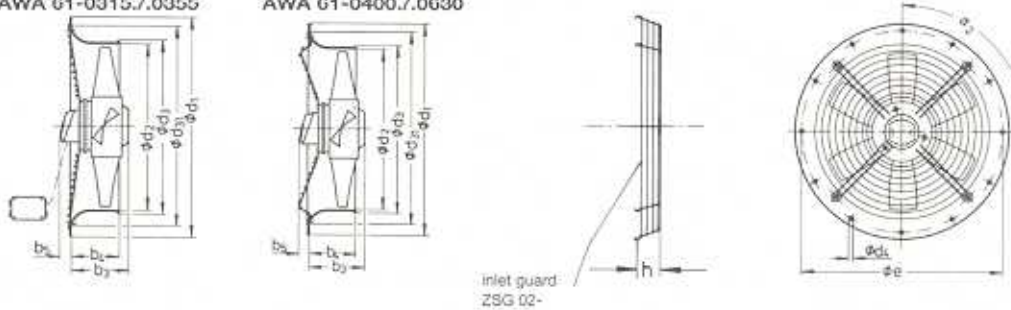


AQA 61-	$\square a$	$b_2$	$b_4$	$-b_5$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	$\sim \varnothing d_{31}$	$h$	$\square l$	measurement "b3" for number of poles			
											4D	4E	6D	6E
0315	350	8	78	33	315	330	10,5	390	40	410	-110	-110	-110	-110
0355	400	8	93	30	355	370	10,5	430	40	460	-110	-110	-120	-120
0400	460	10	100	50	400	415	10,5	495	50	520	-110	-110	-110	-110
0450	515	10	112	45	450	465	10,5	550	50	575	-130	-140	-130	-140
0500	615	15	115	45	500	516	11	610	50	655	-140	-140	-125	-140
0560	675	15	165	65	560	576	11	690	60	725	-180	-210	-180	-210
0630	750	15	170	65	630	646	11	770	60	805	-210	-	-180	-210

AWA 61-0315../0630

AWA 61-0315../0355

AWA 61-0400../0630



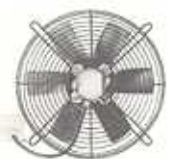
AWA 61-	$b_4$	$-b_5$	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	$\sim \varnothing d_{31}$	$\varnothing e$	$h$	$\alpha_2$	measurement "b3" for number of poles			
											4D	4E	6D	6E
0315	84	25	465	315	330	10	390	432	40	12 × 30°	-120	-120	-120	-120
0355	100	20	514	355	370	10	430	482	40	12 × 30°	-120	-120	-130	-130
0400	108	40	565	400	415	10	495	532	50	12 × 30°	-120	-120	-120	-120
0450	120	30	625	450	465	10	550	592	50	12 × 30°	-140	-150	-140	-150
0500	135	30	694	500	516	10	610	662	50	12 × 30°	-150	-150	-135	-150
0560	180	50	790	560	576	12	690	754	60	16 × 22,5°	-190	-220	-190	-220
0630	180	50	880	630	646	12	770	844	60	16 × 22,5°	-220	-	-190	-220



AQA 61-



AWA 61-



ATA 61-



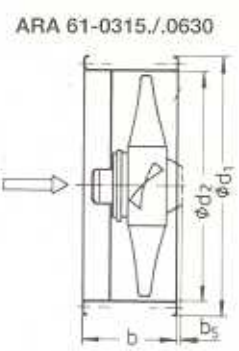
ARA 61-



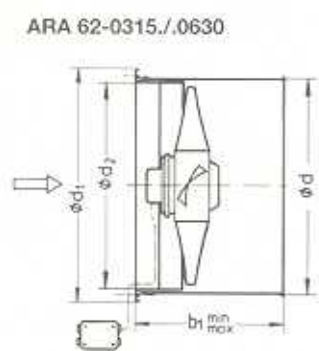
ARA 62-

Dimensions

ARA 61-0315../0630  
ARA 62-0315../0630

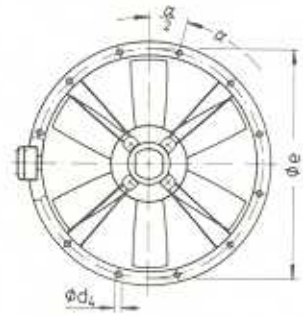


ARA 61-0315../0630



ARA 62-0315../0630

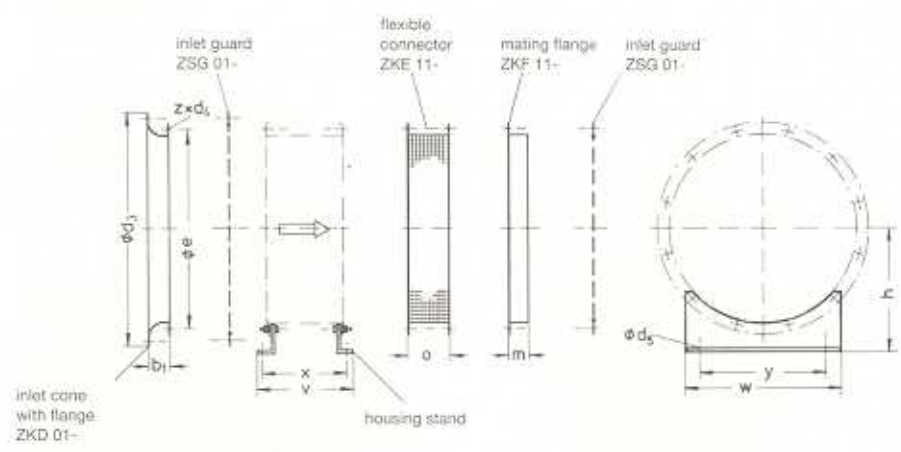
discharge guard  
ZSG 02-  
for ARA 62



ARA 61- ARA 62-	b	* b <sub>1</sub> min. max.	d	d <sub>1</sub>	d <sub>2</sub>	d <sub>4</sub>	e	h	a
0315	160	315-365	323	382	315	9,5	356	40	8 × 45°
0355	160	315-365	363	421	355	9,5	395	40	8 × 45°
0400	180	315-375	408	464	400	9,5	438	50	12 × 30°
0450	180	315-375	459	513	450	9,5	487	50	12 × 30°
0500	200	315-385	511	567	500	9,5	541	50	12 × 30°
0560	220	315-395	571	639	560	11,5	605	60	16 × 22,5°
0630	250	315-405	643	708	630	11,5	674	60	16 × 22,5°

\* Other dimensions available on request

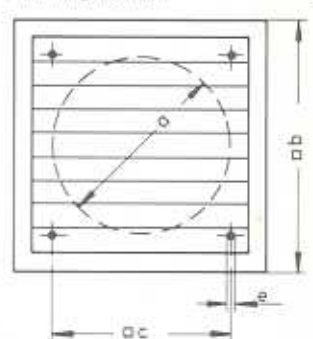
Accessories ARA



	b <sub>1</sub>	d <sub>3</sub>	d <sub>5</sub>	e	h	m	o	v	w	x	y	z × d <sub>4</sub>
0315	81	464	9,5	356	225	30	130	210	240	176	200	8 × 9,5
0355	61	515	9,5	395	250	30	130	210	280	176	240	8 × 9,5
0400	105	565	9,5	438	280	30	130	240	340	200	300	6 × 9,5
0450	118	640	9,5	487	315	35	130	240	375	200	335	6 × 9,5
0500	136	710	9,5	541	355	35	130	258	415	218	370	6 × 9,5
0560	75	785	11,5	605	400	35	130	295	415	245	370	8 × 11,5
0630	175	837	11,5	674	450	35	130	324	450	274	400	8 × 9,5

backdraught dampers

ZLK 40



ZLK 40	a	b	c	d	e	ca. kg
ZLK 40-0200	210	244	182	22	5	0,3
ZLK 40-0250	260	294	232	26	5	0,5
ZLK 40-0315	310	347	276	26	5	0,7
ZLK 40-0355	360	397	310	26	5	0,9
ZLK 40-0400	420	459	364	26	5	1,2
ZLK 40-0450	460	501	395	26	5	1,7
ZLK 40-0500	510	549	445	31	5	2,0
ZLK 40-0560	-	605	522	28	5	2,5
ZLK 40-0630	-	696	626	31	5	3,0

Measurements in mm. Subject to alteration