

Gebhardt *genovent*
Centrifugal Roof Units
with Integral Motor
Technical Data

RDA



Gebhardt *genovent*

Performance curves, see page 18-27
Dimensions, see page 28+29
Accessories, see page 41-48

genovent Type	Speed rpm	Max absorbed power kW	Full load current A	Capacitor rating μF	Starting / Full load current ratio I _s /I _n	V _{max} m ³ /h	L _{WA} at V _{max} dB	L _{WA} at V _{opt} dB
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Single-phase a.c. 240 V, 50 Hz, single speed, 2-pole

RDA 21-1819-2E ①	2130	0.08	0.36	2	1.25	475	70	68
RDA 21-1822-2E ①	2260	0.09	0.47	3	1.21	820	73	69
RDA 21-2225-2E ①	2490	0.24	1.05	5	1.57	1300	80	78

Single-phase a.c. 240 V, 50 Hz, single speed, 4-pole

RDA 21-1819-4E ①	1400	0.04	0.2	2	1.45	290	57	55
RDA 21-1822-4E ①	1345	0.04	0.2	2	1.4	380	61	58
RDA 21-2225-4E ①	1375	0.05	0.27	2	1.8	760	65	63
RDA 31-2528-4E ②	1360	0.15	0.75	3	1.7	1600	69	66
RDA 31-2531-4E ②	1410	0.23	1.25	6	2.2	2300	73	70
RDA 31-3535-4E ②	1370	0.36	1.9	8	1.79	3350	77	73
RDA 31-3540-4E ②	1255	0.49	2.45	12	1.68	4500	78	74
RDA 31-3545-4E ②	1300	0.95	4.4	25	2.02	6250	82	79
RDA 31-4550-4E ②	1250	1.39	6.5	30	1.92	8800	84	80

Single-phase a.c. 240 V, 50 Hz, single speed, 6-pole

RDA 31-2528-6E ②	925	0.08	0.43	2	1.37	1100	60	56
RDA 31-2531-6E ②	920	0.12	0.68	3	1.41	1470	63	62
RDA 31-3535-6E ②	930	0.15	0.95	4	1.63	2200	66	62
RDA 31-3540-6E ②	880	0.2	1.25	4	1.5	3150	68	65
RDA 31-3545-6E ②	850	0.32	1.65	8	1.39	4150	70	68
RDA 31-4550-6E ②	890	0.52	2.65	12	1.77	6250	76	72
RDA 31-4556-6E ②	940	0.93	5.75	25	2.2	8400	78	76

Three-phase a.c. 240/415 V, 50 Hz, single speed, 4-pole Δ/Y

RDA 31-2528-4D	1400	0.16	0.81/0.47	-	2.28	1670	70	66
RDA 31-2531-4D	1425	0.23	1.42/0.82	-	2.77	2530	73	70
RDA 31-3535-4D	1370	0.32	1.45/0.84	-	2.71	3350	76	72
RDA 31-3540-4D	1400	0.56	2.51/1.45	-	3.24	4890	80	76
RDA 31-3545-4D	1400	0.97	4.24/2.45	-	3.1	6850	83	80
RDA 31-4550-4D	1250	1.38	5.28/3.05	-	2.82	9000	85	80
RDA 31-4556-4D	1195	1.98	6.38/3.8	-	3.0	10700	86	83

Three-phase a.c. 240/415 V, 50 Hz, single speed, 6-pole Δ/Y

RDA 31-2528-6D	945	0.08	0.5 / 0.29	-	1.62	1125	61	57
RDA 31-2531-6D	940	0.12	0.73/0.42	-	1.74	1630	64	63
RDA 31-3535-6D	935	0.15	0.99/0.57	-	1.96	2200	66	63
RDA 31-3540-6D	885	0.2	1.04/0.6	-	1.83	3150	68	65
RDA 31-3545-6D	845	0.3	1.3 / 0.75	-	1.89	4100	70	68
RDA 31-4550-6D	920	0.51	2.34/1.35	-	3.19	6450	76	71
RDA 31-4556-6D	920	0.79	3.8 / 2.2	-	3.32	8300	78	75
RDA 31-5671-6D*	890	1.27	5.0 / 2.9	-	2.61	11800	84	78
RDA 31-5671-6D*	925	2.47	8.5 / 4.9	-	4.1	16400	87	84
RDA 31-7180-6D*	945	4.66	16.5 / 9.5	-	4.4	25800	92	89
RDA 31-7190-6D*	880	7.31	24.4 / 14.1	-	5.0	33500	92	90

Three-phase a.c. 240/415 V, 50 Hz, single speed, 8-pole Δ/Y

RDA 31-4556-8D	630	0.35	1.84/1.06	-	1.83	5650	70	67
RDA 31-5663-8D	705	0.73	3.8 / 2.2	-	2.95	9700	77	73
RDA 31-5671-8D	710	1.18	5.9 / 3.4	-	3.53	12700	81	78
RDA 31-7180-8D	710	2.10	10.2 / 5.9	-	3.4	19400	85	83
RDA 31-7190-8D*	705	3.54	14.2 / 8.2	-	3.4	26800	87	85

* These types do not have variable speed control

① These fan types have motors with thermal contacts connected **internally** in series with the winding. They shut down the motor directly a preset temperature limit is reached.
Motor protection units are not needed.

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Motor protection units are not needed.

genovent RDA	max. temp of gas medium °C	approx. weight kg	wiring diagram No.	motor protection unit ESM	Speed selector EPH	with transformer, variable ETH	with transformer, 5-step switch ETH	with autotransformer 7 taps ETO	electronic, pressure-controlled EPA	Speed controller ETS
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1819-2E	60	5.0	173	①	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	-	-
1822-2E	60	5.5	173	①	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	-	-
2225-2E	40	6.5	173	①	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	-	-

1819-4E	60	5.0	173	①	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	-	-
1822-4E	60	5.0	173	①	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	-	-
2225-4E	60	6.0	173	①	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	-	-
2528-4E	50	17	175	②	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	13-6.3-E	12-4-E
2531-4E	60	19	175	②	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	13-6.3-E	12-4-E
3535-4E	50	26	175	②	02-2.5-E	20-2-E	01-2-E	10-4-E	13-6.3-E	12-4-E
3540-4E	55	29	174	②	02-5-E	20-3.3-E	05-4-E	10-4-E	13-6.3-E	12-4-E
3545-4E	40	34	174	②	02-5-E	20-6-E	05-7-E	10-7-E	13-6.3-E	12-6-E
4550-4E	50	48	174	②	02-5-E	20-8-E	05-7-E	10-7-E	13-6.3-E	12-8-E

2528-6E	60	17	175	②	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	-	12-4-E
2531-6E	40	18	175	②	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	13-6.3-E	12-4-E
3535-6E	60	25	175	②	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	13-6.3-E	12-4-E
3540-6E	60	27	175	②	02-2.5-E	20-2-E	01-1.5-E	10-1.8-E	13-6.3-E	12-4-E
3545-6E	40	28	175	②	02-2.5-E	20-2-E	01-2-E	10-1.8-E	13-6.3-E	12-4-E
4550-6E	45	37	174	②	02-5-E	20-3.3-E	05-4-E	10-4-E	13-6.3-E	12-4-E
4556-6E	40	50	174	②	02-5-E	20-6-E	05-7-E	10-7-E	13-6.3-E	12-6-E

2528-4D	50	17	176	①-4-D	-	20-2-D	05-1-D	10-1-D	13-8-D	12-4-D
2531-4D	60	19	176	①-4-D	-	20-2-D	05-1-D	10-1-D	13-8-D	12-4-D
3535-4D	60	26	176	①-4-D	-	20-2-D	05-1-D	10-1-D	13-8-D	12-4-D
3540-4D	55	29	176	①-4-D	-	20-2-D	05-2-D	10-2-D	13-8-D	12-4-D
3545-4D	45	31	176	①-4-D	-	20-3.3-D	06-4-D	10-4-D	13-8-D	12-4-D
4550-4D	40	44	176	①-4-D	-	20-3.3-D	06-4-D	10-4-D	13-8-D	12-4-D
4556-4D	40	50	176	①-4-D	-	20-4-D	06-4-D	10-4-D	13-8-D	12-4-D

2528-6D	60	17	176	①-4-D	-	20-2-D	05-1-D	10-1-D	-	12-4-D
2531-6D	60	18	176	①-4-D	-	20-2-D	05-1-D	10-1-D	-	12-4-D
3535-6D	60	25	176	①-4-D	-	20-2-D	05-1-D	10-1-D	-	12-4-D
3540-6D	55	26	176	①-4-D	-	20-2-D	05-1-D	10-1-D	-	12-4-D
3545-6D	40	28	176	①-4-D	-	20-2-D	05-1-D	10-1-D	-	12-4-D
4550-6D	60	36	176	①-4-D	-	20-2-D	05-2-D	10-2-D	-	12-4-D
4556-6D	60	46	176	①-4-D	-	20-2-D	05-2-D	10-2-D	-	12-4-D
5671-6D	45	100	176	①-4-D	-	20-4-D	06-4-D	10-4-D	-	12-4-D
5671-6D	50	116	176	①-4-D	-	20-4-D	06-4-D	10-4-D	-	12-4-D
7180-6D	55	245	176	①-7.5-D	-	-	-	-	-	-
7190-6D	40	255	176	①-7.5-D	-	-	-	-	-	-

4556-8D	45	53	176	①-4-D	-	20-2-D	05-2-D	10-2-D	13-8-D	12-4-D
5663-8D	55	105	176	①-4-D	-	20-3.3-D	06-4-D	10-4-D	13-8-D	12-4-D
5671-8D	45	116	176	①-4-D	-	20-4-D	06-4-D	10-4-D	13-8-D	12-4-D
7180-8D	40	250	176	①-4-D	-	20-6-D	06-7-D	10-6.5-D	13-8-D	12-6-D
7190-8D	55	260	176	①-4-D	-	-	-	-	-	-

Noise: The A-weighted sound power level L_{WA} (= L_{WA3} = L_{W/ra} in accordance with DIN 45 635, Part 38/BS 848, Part 2) for V_{max} and V_{opt} is given in the tables. See also section "Noise", pages 8-10.

A brief description of the motor protection units, speed selectors, and speed controllers are on pages 47 and 48. Detailed descriptions, technical data and dimensions are contained in the separate lists G 1 and G 2.

Gebhardt *genovent*
Centrifugal Roof Units
 With Integral Motor
 Technical Data



Gebhardt *genovent*

Performance curves, see page 18-27
 Dimensions, see page 28+29
 Accessories, see page 41-48

genovent type	Speed rpm	Max absorbed power kW	Full load current A	Starting/Full load current ratio I _a /I _N	V _{max} m ³ /h	L _{WA} at V _{max} dB	L _{WA} at V _{opt} dB
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Three-phase a.c. 415 V, 50 Hz, twin speed, 4/4 pole (by transformer)

RDA 31-2528-5D	1400/1150	0.16/0.09	0.47/0.18	2.28	1670/1490	70/66	66/61
RDA 31-2531-5D	1425/1200	0.23/0.15	0.82/0.31	2.77	2530/2250	73/70	70/66
RDA 31-3535-5D	1370/1000	0.32/0.2	0.84/0.41	2.71	3350/2940	76/71	72/64
RDA 31-3540-5D	1400/1090	0.56/0.4	1.45/0.79	3.24	4890/4000	80/75	76/71
RDA 31-3545-5D	1400/1140	0.97/0.71	2.45/1.4	3.10	6850/5600	83/78	80/75
RDA 31-4550-5D	1250/ 870	1.38/0.68	3.05/1.4	2.82	9000/6500	85/77	80/68
RDA 31-4556-5D	1195/ 790	1.98/0.94	3.8 /1.8	3.0	10700/7500	86/75	83/71

Three-phase a.c. 415 V, 50 Hz, twin speed, 6/6 pole (by transformer)

RDA 31-2528-7D	945/815	0.08/0.04	0.29/0.10	1.62	1125/ 980	61/57	57/53
RDA 31-2531-7D	940/780	0.12/0.06	0.42/0.14	1.74	1630/1380	64/58	63/55
RDA 31-3535-7D	935/760	0.15/0.08	0.57/0.19	1.96	2200/1900	66/60	63/58
RDA 31-3540-7D	885/615	0.20/0.10	0.6 /0.23	1.83	3150/2350	68/60	65/58
RDA 31-3545-7D	845/520	0.30/0.13	0.75/0.32	1.89	4100/2600	70/62	68/63
RDA 31-4550-7D	920/720	0.51/0.34	1.35/0.8	3.19	6450/5450	76/71	71/64
RDA 31-4556-7D	920/700	0.79/0.51	2.2 /1.2	3.32	8300/6800	78/74	75/69
RDA 31-5663-7D	890/620	1.27/0.76	2.9 /1.7	2.61	11800/9100	84/76	78/70

Three-phase a.c. 415 V, 50 Hz, twin speed, 6/8 pole, 2 separate windings Y/Y

RDA 31-7180-KD	960/715	4.7/2.3	9.7/4.9	5.5/4.1	25800/19400	92/85	89/83
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Three-phase a.c. 415 V, 50 Hz, twin speed, 6/12 pole, Dahlander connection Y/Y

RDA 31-5671-HD	940/470	2.6/0.44	5.4/2.0	4.6/3.0	16400/ 8200	87/71	84/68
RDA 31-7180-HD	920/450	4.6/0.75	9.0/2.8	5.3/3.8	25800/11400	92/74	89/71

Three-phase a.c. 415 V, 50 Hz, twin speed, 8/12 pole, separate windings Y/Y

RDA 31-7180-LD	700/460	2.6/0.8	5.3/2.2	3.8/2.5	19400/11400	85/74	83/71
RDA 31-7190-LD	710/450	3.8/1.0	8.3/2.5	4.0/2.5	26800/17200	87/75	85/73

genovent RDA	max. temp of gas medium °C	approx. weight kg	wiring diagram No.	motor protection unit ESM
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2528-5D	50	20	182	} 06-4-D
2531-5D	60	22	182	
3535-5D	60	29	182	
3540-5D	55	34	182	
3545-5D	45	40	182	
4550-5D	40	53	182	} 06-4-D
4556-5D	40	59	182	
4556-5D	40	59	182	

2528-7D	60	20	182	} 06-4-D
2531-7D	60	21	182	
3535-7D	60	28	182	
3540-7D	55	29	182	
3545-7D	40	31	182	
4550-7D	60	41	182	} 06-4-D
4556-7D	60	55	182	
5663-7D	45	109	182	

7180-KD	40	252	178	02-7.5-D
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5671-HD	50	121	180	03-4-D
7180-HD	40	245	180	03-7.5-D

7180-LD	40	245	178	02-4-D
7190-LD	40	255	178	02-4-D

Noise: The A-weighted sound power level L_{WA} (= L_{WA2} = L_{WA3}) in accordance with DIN 45635, Part 38/BS 848, Part 2) for V_{max} and V_{opt} is given in the tables. See also section "Noise", pages 8-10.

Versions for 60 Hz or special voltage on request. Explosion proofed versions with variable speed control on request.