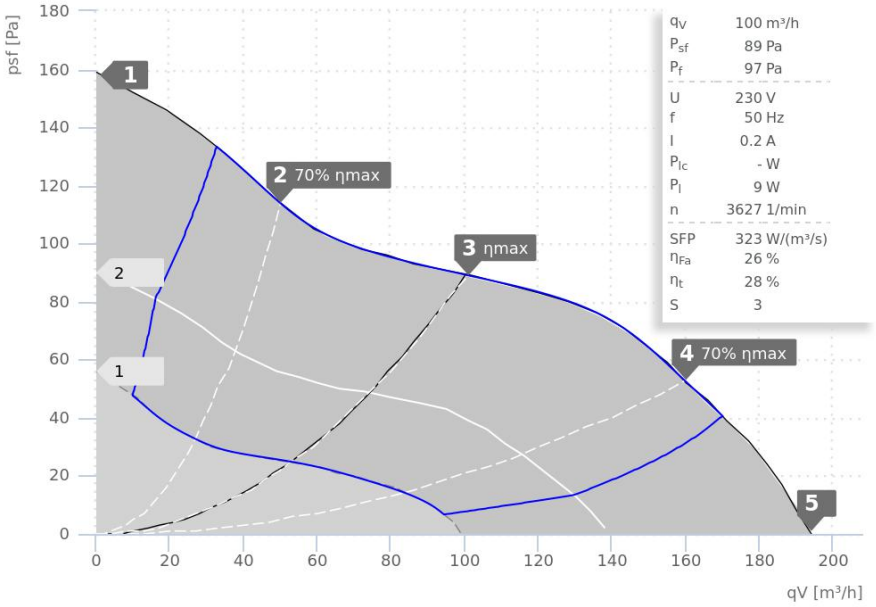
DATA SHEET

EM 100L EC 01 | 145677



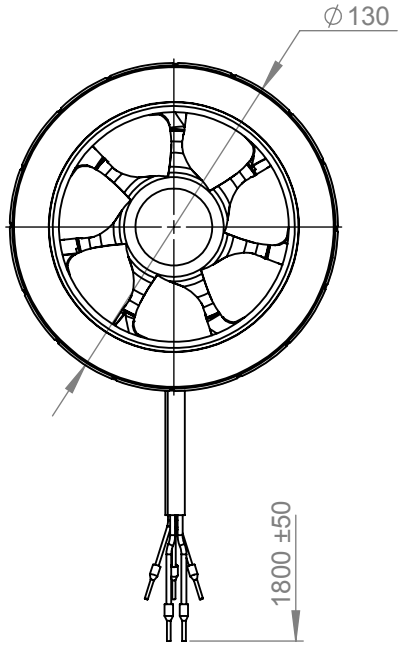
— **ErP compliant range**

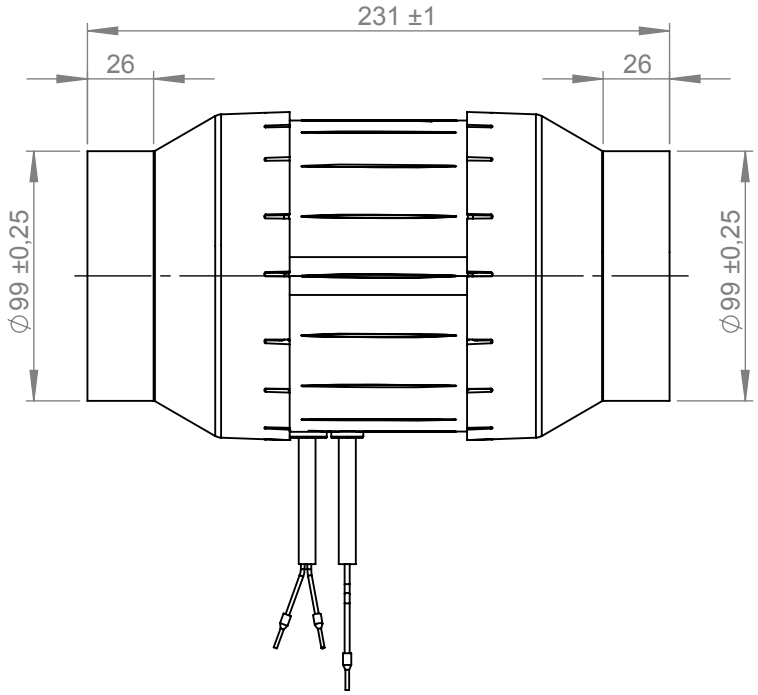
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor, 3-step
- Integrated electronic
- Internal electronic temperature monitoring
- Plastic housing

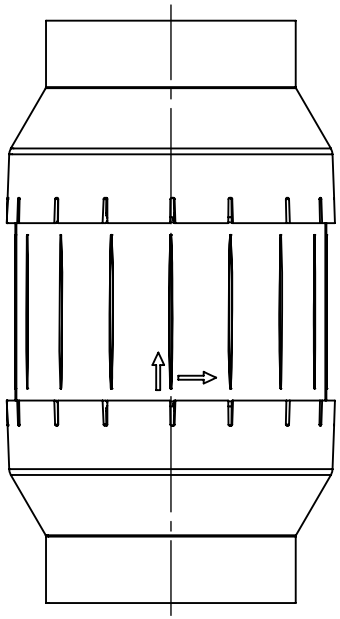
		Operating Point	1	2	3	4	5
Current I	A		0,2	0,2	0,2	0,2	0,2
Power consumption P_1	W		9	8	9	12	12
Rotation speed n	1/min		3581	3616	3627	3630	3619
SWL inlet L_{WA5}	dB(A)		62	62	62	63	63
SWL outlet L_{WA6}	dB(A)		61	62	63	63	64
SWL housing break out L_{WA2}	dB(A)		42	42	42	43	44

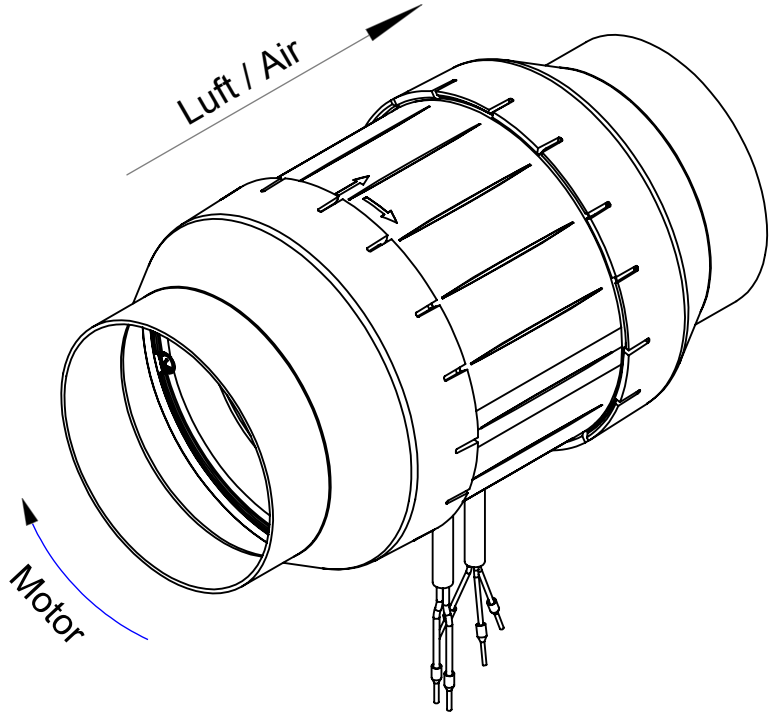
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	62	26	40	44	59	57	53	47	36
Outlet	L_{WA6}	63	26	40	47	60	58	54	50	40
Housing radiation	L_{WA2}	42	29	27	29	35	30	37	35	26

EM 100L EC 01 | 145677	
Voltage U_N	230 V 1~
Current I_{max}	0,2 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Insulation class motor	F
Weight	0,8 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:3 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Created	d.andree	03.04.2018
Drawn	d.andree	03.04.2018
Released	d.andree	19.09.2018
Disabled		

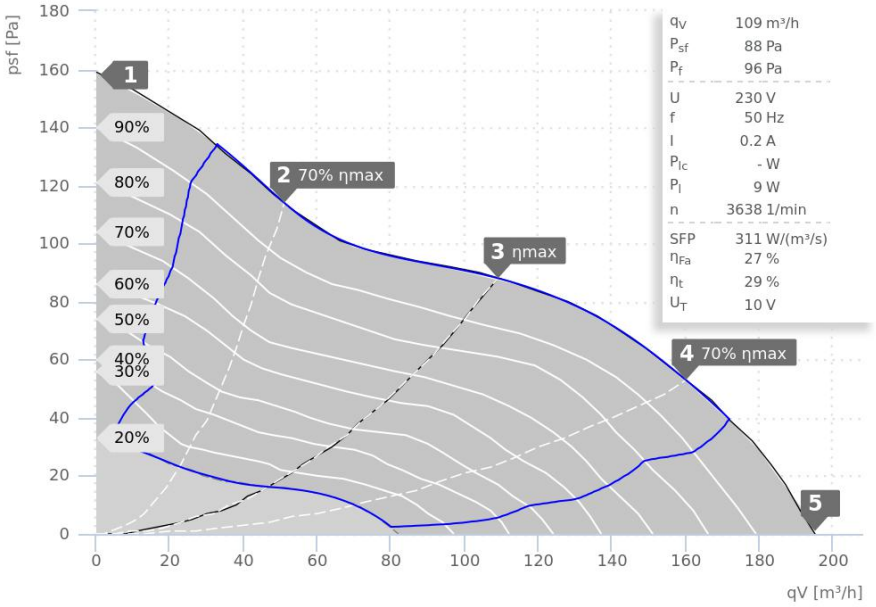
EM100LEC01

145677 00

VENTAS VENTILATORER

DATA SHEET

EM 100L EC 02 | 145801



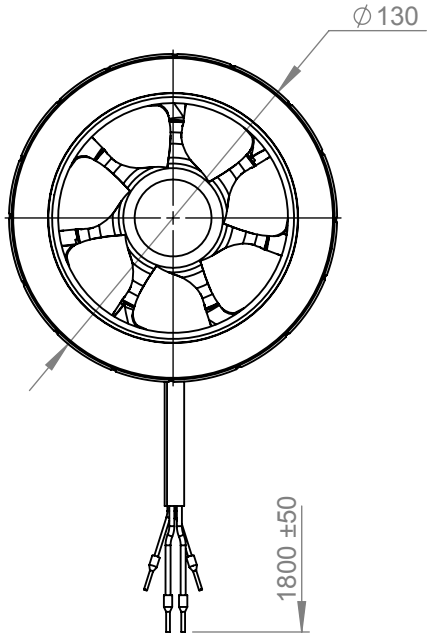
— **ErP compliant range**

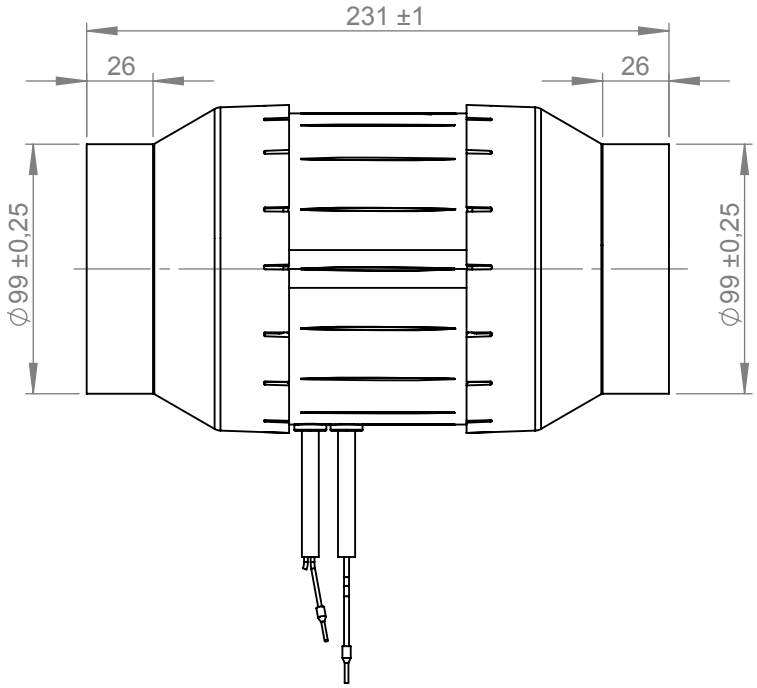
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- External PWM control required to operate the fan (e.g. MTP50)

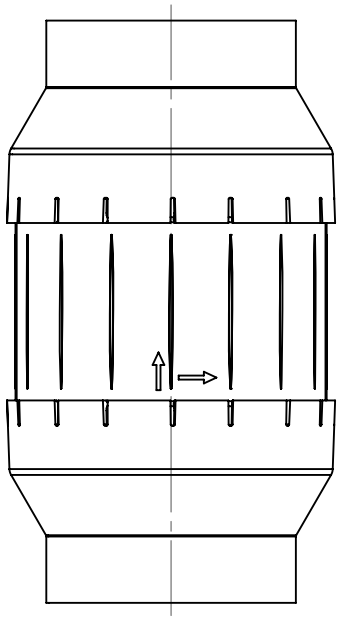
Operating Point		1	2	3	4	5
Current I	A	0,2	0,2	0,2	0,2	0,2
Power consumption P_1	W	9	8	9	12	12
Rotation speed n	1/min	3577	3619	3638	3628	3624
SWL inlet L_{WA5}	dB(A)	62	62	63	62	63
SWL outlet L_{WA6}	dB(A)	61	61	63	63	64
SWL housing break out L_{WA2}	dB(A)	43	42	42	43	44

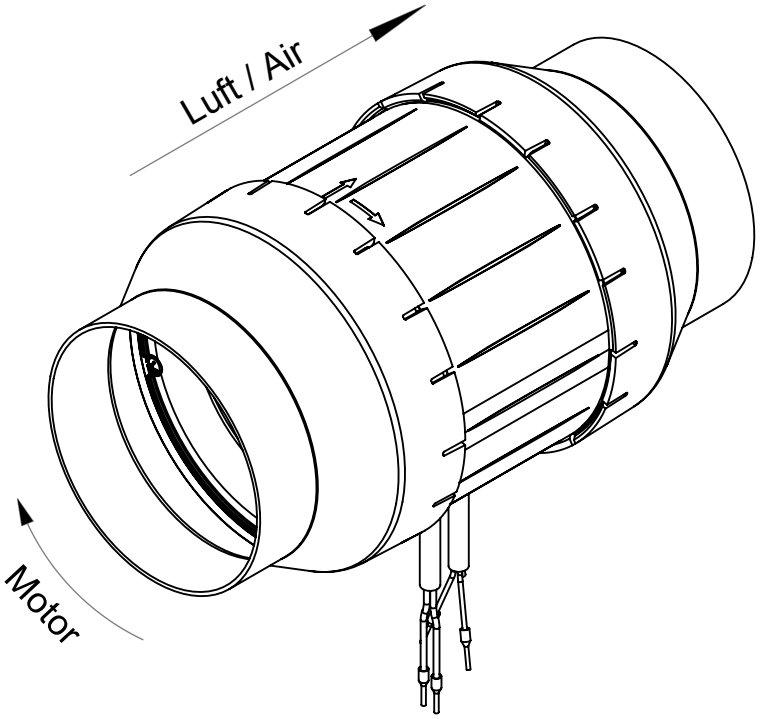
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	63	27	41	44	60	57	53	48	37
Outlet	L_{WA6}	63	26	39	47	59	58	55	51	40
Housing radiation	L_{WA2}	42	33	27	30	35	31	38	35	26

EM 100L EC 02 | 145801	
Voltage U_N	230 V 1~
Current I_{max}	0,2 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	PWM
Motor protection	TEC
Insulation class motor	F
Weight	0,8 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck VENTILATOREN

1:3 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

EM100LEC02

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

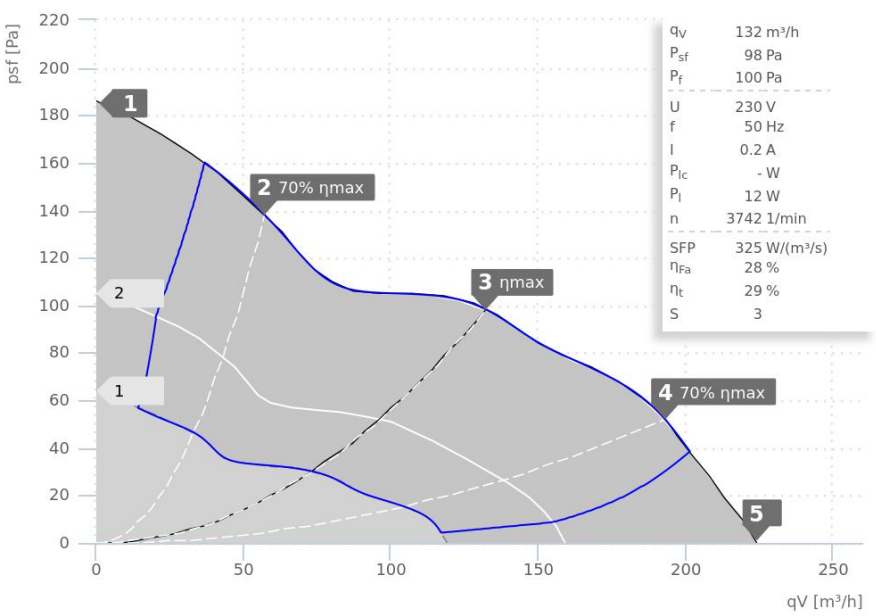
Drawn:	d.andree	10.04.18
Created:	d.andree	10.04.18
Changed:	d.andree	11.04.18

145801 00

VENTAS VENTILATORER

DATA SHEET

EM 125 EC 01 | 145668



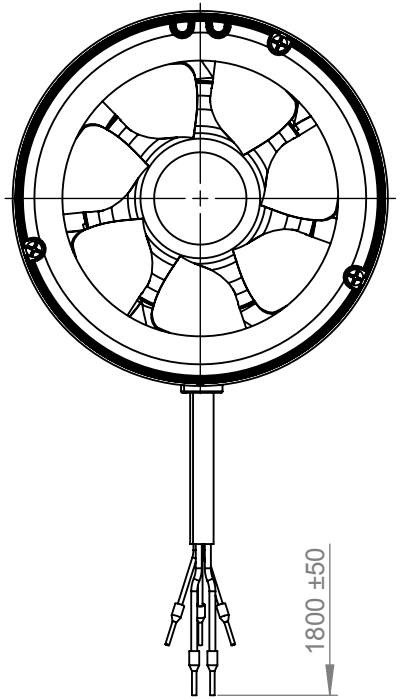
— **ErP compliant range**

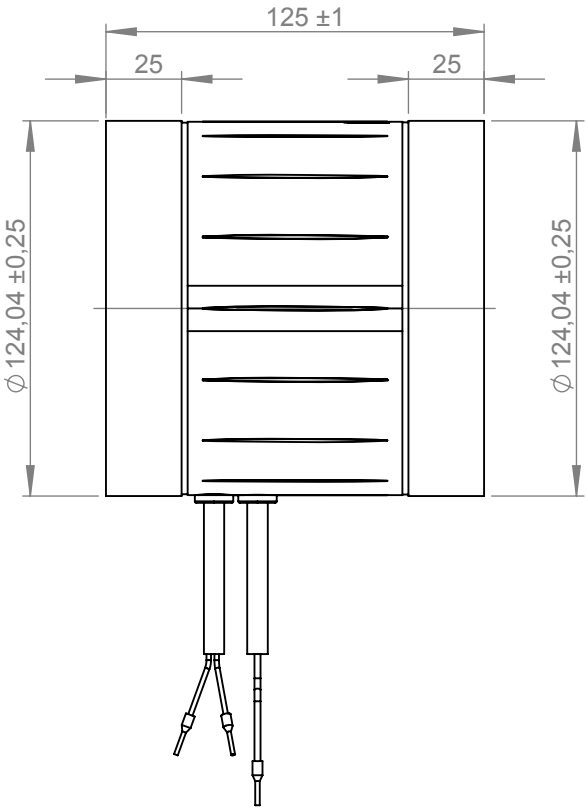
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor, 3-step
- Integrated electronic
- Internal electronic temperature monitoring
- Plastic housing

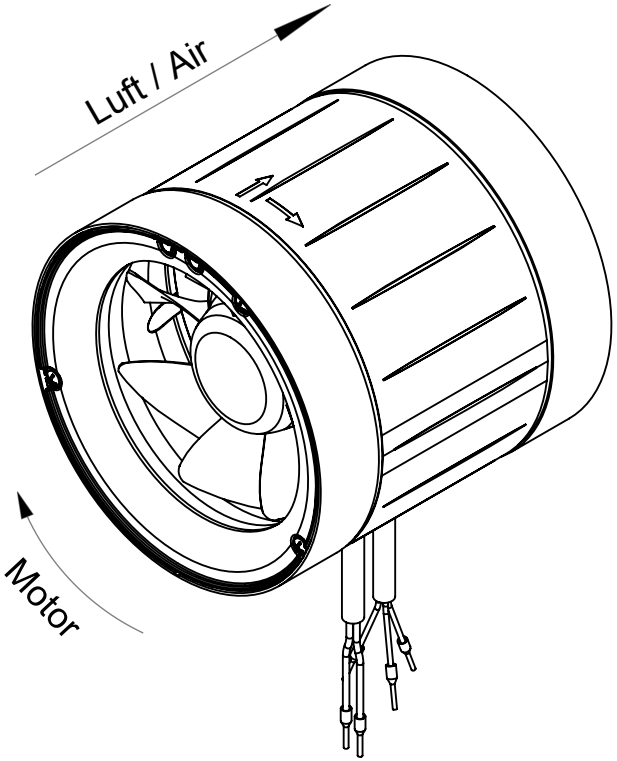
Operating Point		1	2	3	4	5
Current I	A	0,2	0,2	0,2	0,2	0,2
Power consumption P_1	W	10	11	12	13	12
Rotation speed n	1/min	3691	3706	3737	3724	3746
SWL inlet L_{WA5}	dB(A)	63	62	63	62	62
SWL outlet L_{WA6}	dB(A)	63	63	65	64	64
SWL housing break out L_{WA2}	dB(A)	49	49	48	50	44

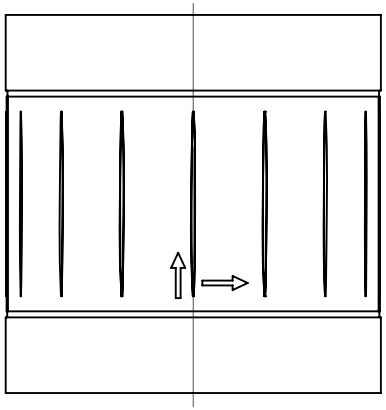
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	63	30	46	49	59	58	55	51	41
Outlet	L_{WA6}	65	42	46	49	57	59	61	56	43
Housing radiation	L_{WA2}	48	39	39	42	41	39	39	36	27

EM 125 EC 01 | 145668	
Voltage U_N	230 V 1~
Current I_{max}	0,2 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Insulation class motor	F
Weight	0,7 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:2 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	03.04.18
Created:	d.andree	03.04.18
Changed:	d.andree	11.04.18

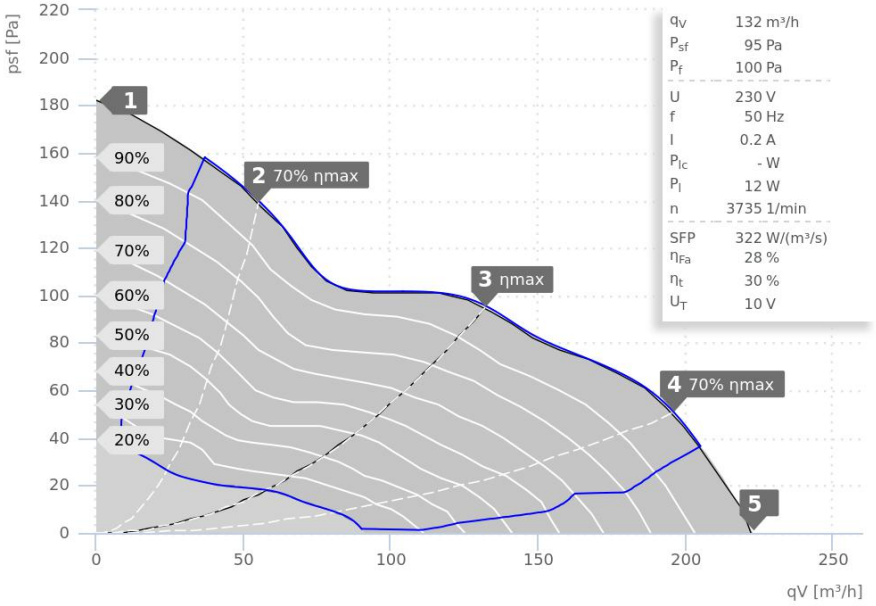
EM125EC01

145668 00

VENTAS VENTILATORER

DATA SHEET

EM 125 EC 02 | 145792



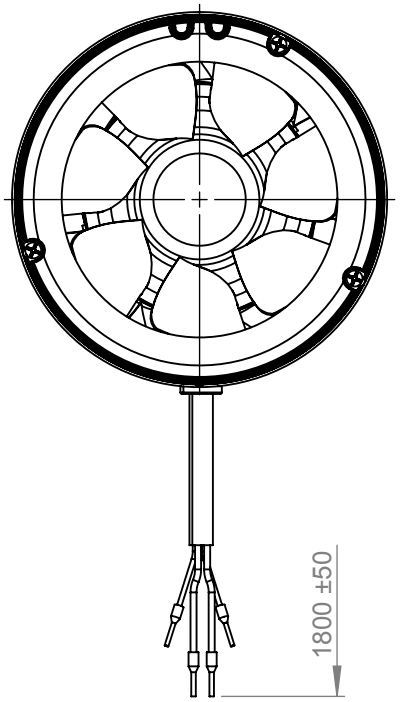
— **ErP compliant range**

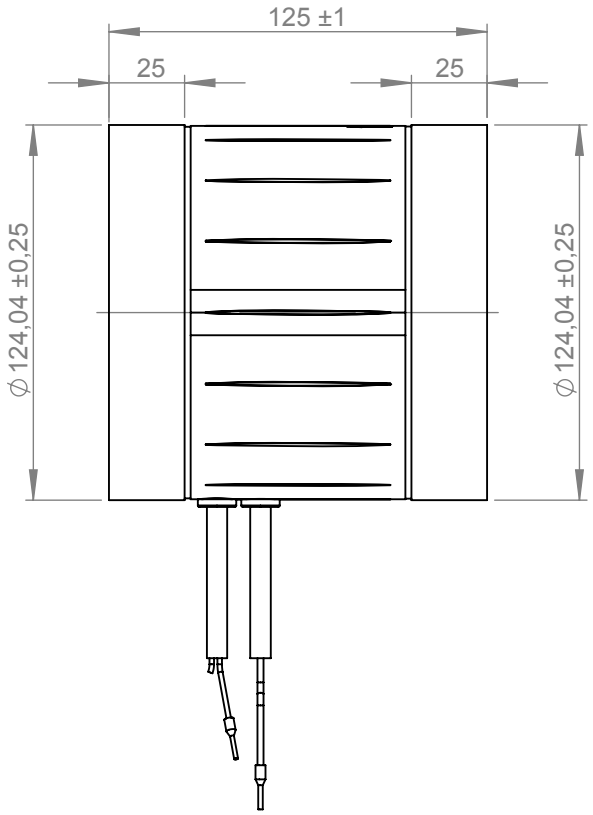
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- External PWM control required to operate the fan (e.g. MTP50)

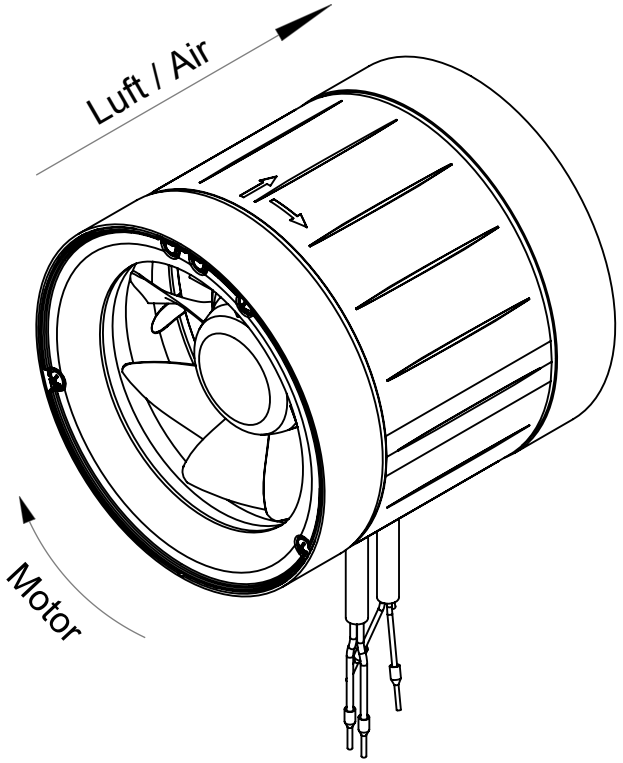
Operating Point		1	2	3	4	5
Current I	A	0,2	0,2	0,2	0,2	0,2
Power consumption P_1	W	10	11	12	13	12
Rotation speed n	1/min	3689	3702	3735	3770	3731
SWL inlet L_{WA5}	dB(A)	63	62	63	62	62
SWL outlet L_{WA6}	dB(A)	63	62	64	64	64
SWL housing break out L_{WA2}	dB(A)	46	45	45	43	45

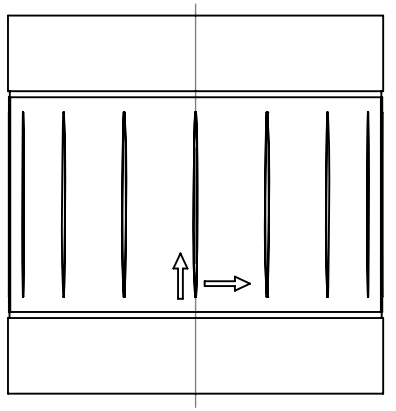
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	63	31	47	49	59	58	55	51	41
Outlet	L_{WA6}	64	38	44	48	56	58	60	55	43
Housing radiation	L_{WA2}	45	34	36	32	37	33	39	35	27

EM 125 EC 02 | 145792	
Voltage U_N	230 V 1~
Current I_{max}	0,2 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	PWM
Motor protection	TEC
Insulation class motor	F
Weight	0,7 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-







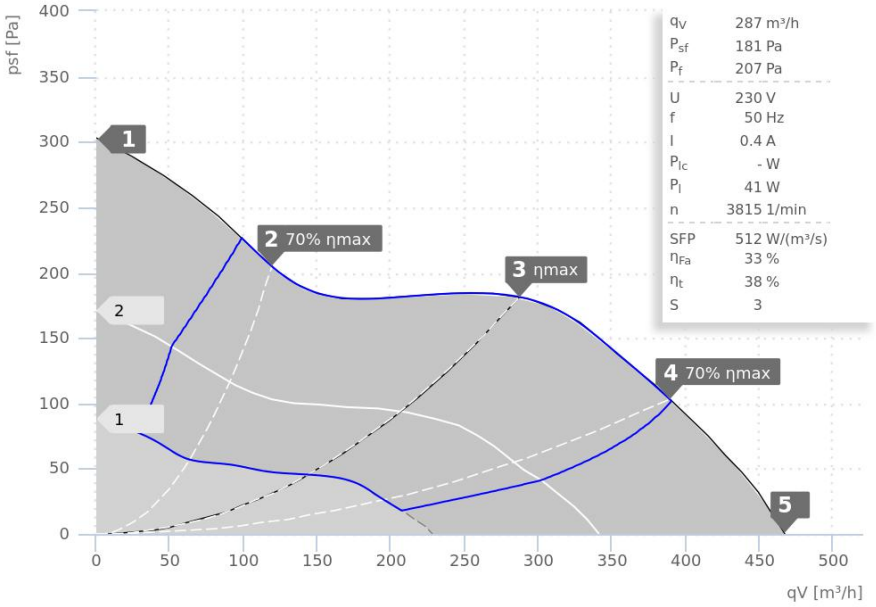


ruck Ventilatoren Max-Planck-Str. 5 D-97944 Boxberg	1:2 A4 mm Protection Mark according to ISO16016 General tolerances DIN ISO 2768-c		**EM125EC02**
	Drawn: d.andree 10.04.18 Created: d.andree 10.04.18 Changed: d.andree 11.04.18		**145792 00**

VENTAS VENTILATORER

DATA SHEET

EM 125L EC 01 | 145680



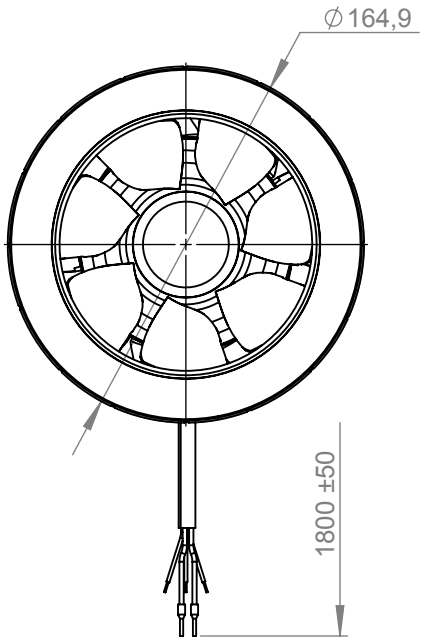
— **ErP compliant range**

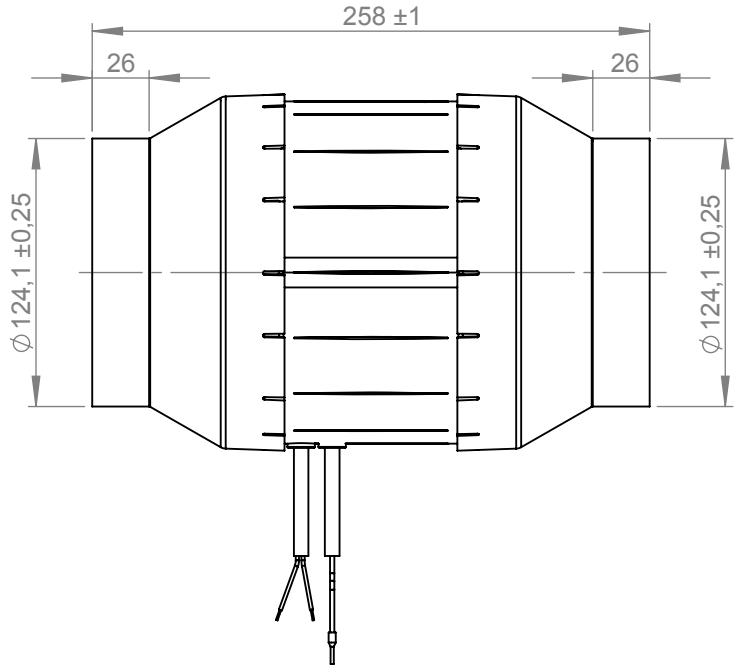
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor, 3-step
- Integrated electronic
- Internal electronic temperature monitoring
- Plastic housing

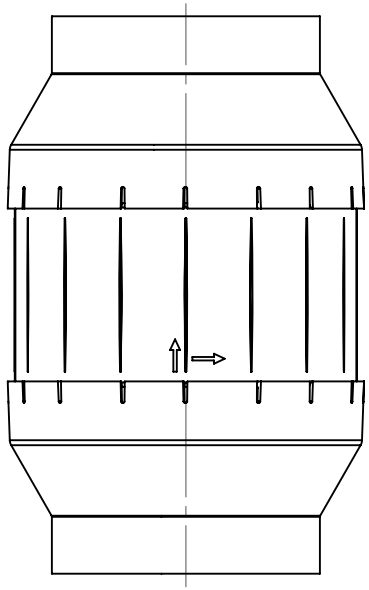
Operating Point		1	2	3	4	5
Current I	A	0,3	0,3	0,4	0,4	0,4
Power consumption P_1	W	31	27	41	45	43
Rotation speed n	1/min	3798	3789	3811	3808	3812
SWL inlet L_{WA5}	dB(A)	71	70	71	70	70
SWL outlet L_{WA6}	dB(A)	72	70	72	70	71
SWL housing break out L_{WA2}	dB(A)	56	56	55	58	57

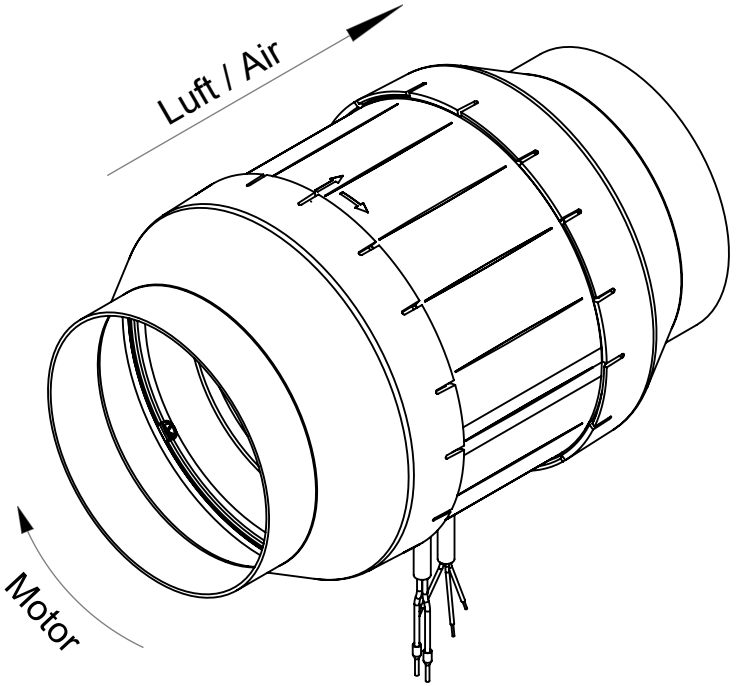
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	71	43	48	52	68	64	61	55	48
Outlet	L_{WA6}	72	44	51	57	71	62	60	57	48
Housing radiation	L_{WA2}	55	42	43	51	50	42	48	43	32

EM 125L EC 01 | 145680	
Voltage U_N	230 V 1~
Current I_{max}	0,4 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Insulation class motor	F
Weight	1,2 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:3 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	03.04.18
Created:	d.andree	03.04.18
Changed:	d.andree	11.04.18

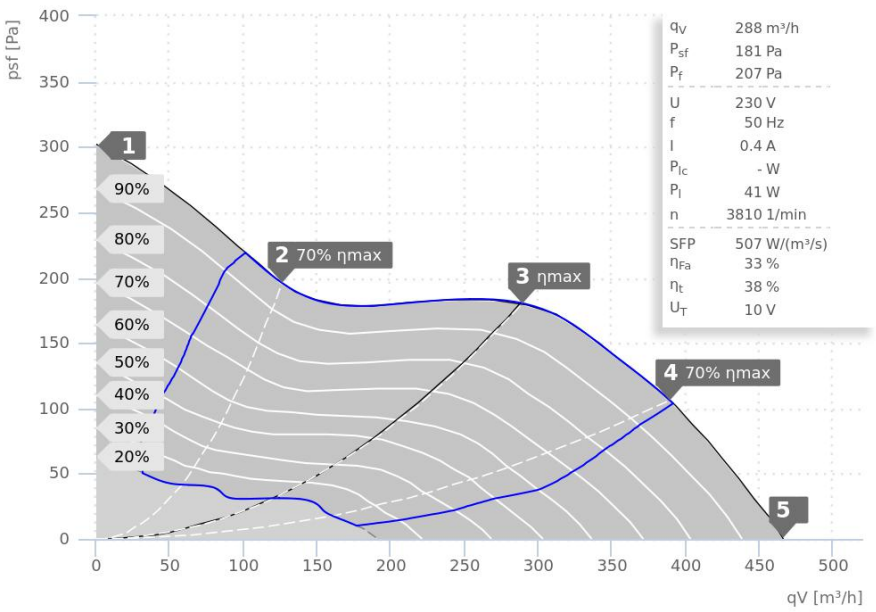
EM125LEC01

145680 00

VENTAS VENTILATORER

DATA SHEET

EM 125L EC 02 | 145804



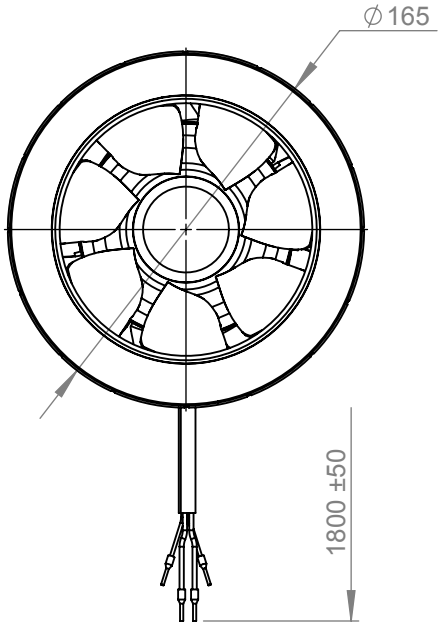
— **ErP compliant range**

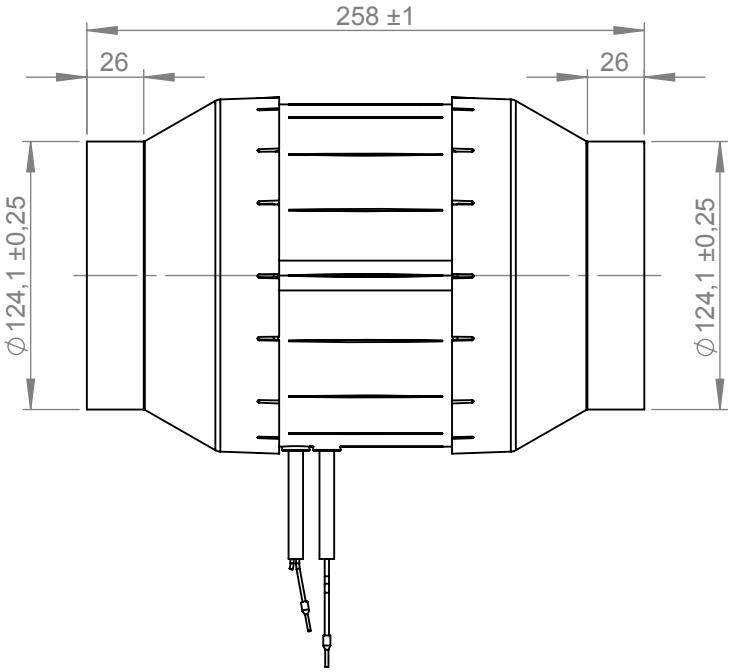
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- External PWM control required to operate the fan (e.g. MTP50)

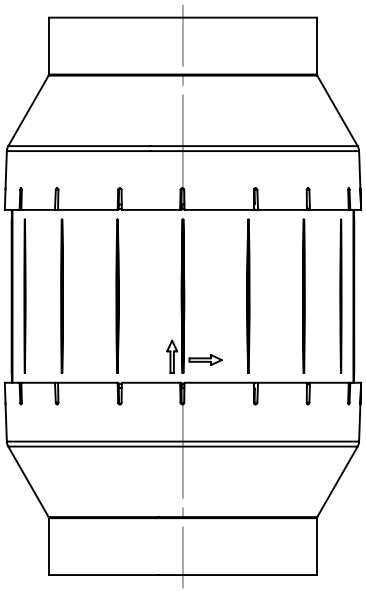
Operating Point		1	2	3	4	5
Current I	A	0,3	0,3	0,4	0,4	0,4
Power consumption P_1	W	31	27	41	46	43
Rotation speed n	1/min	3798	3788	3807	3811	3808
SWL inlet L_{WA5}	dB(A)	71	69	70	70	70
SWL outlet L_{WA6}	dB(A)	71	70	72	70	71
SWL housing break out L_{WA2}	dB(A)	55	55	55	54	57

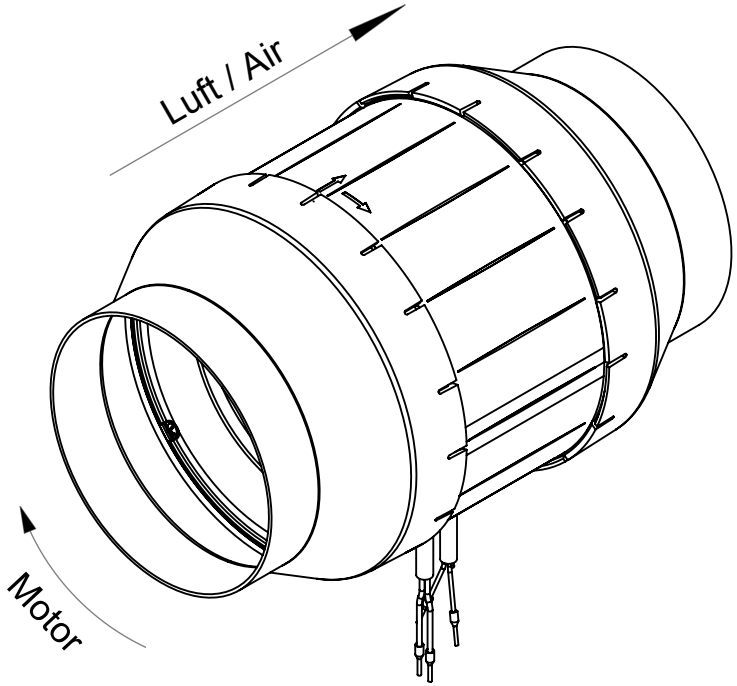
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	70	46	52	53	68	62	59	53	45
Outlet	L_{WA6}	72	49	55	57	71	61	59	56	47
Housing radiation	L_{WA2}	55	46	42	51	48	42	48	43	32

EM 125L EC 02 | 145804	
Voltage U_N	230 V 1~
Current I_{max}	0,4 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	PWM
Motor protection	TEC
Insulation class motor	F
Weight	1,2 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:3 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	10.04.18
Created:	d.andree	10.04.18
Changed:	d.andree	11.04.18

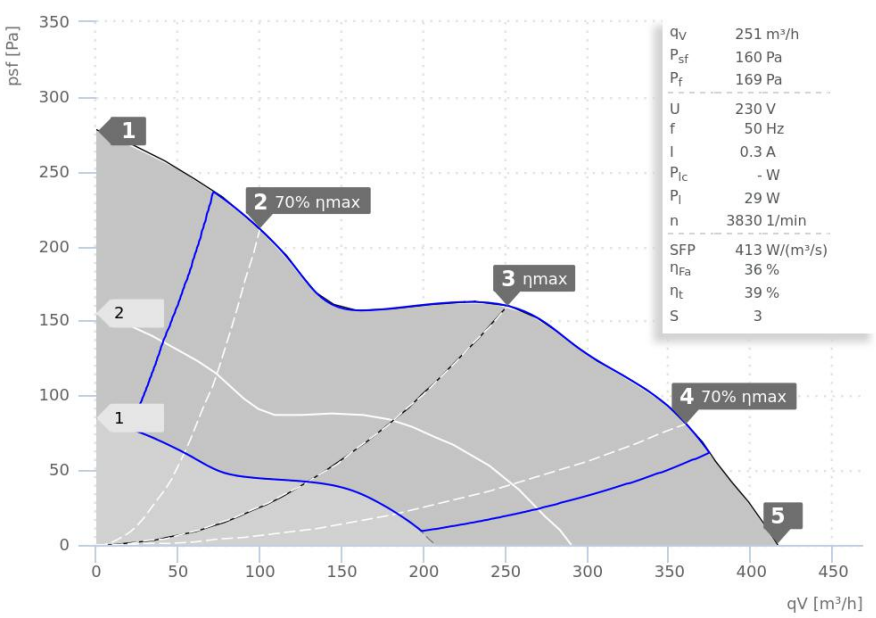
EM125LEC02

145804 00

VENTAS VENTILATORER

DATA SHEET

EM 150 EC 01 | 145671



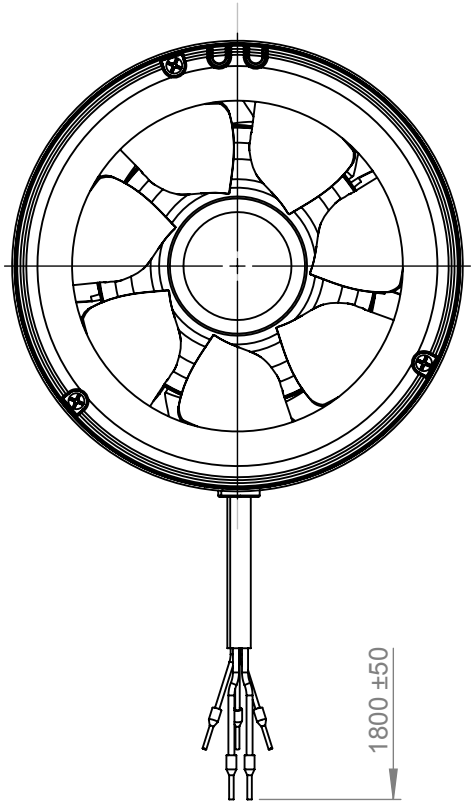
— **ErP compliant range**

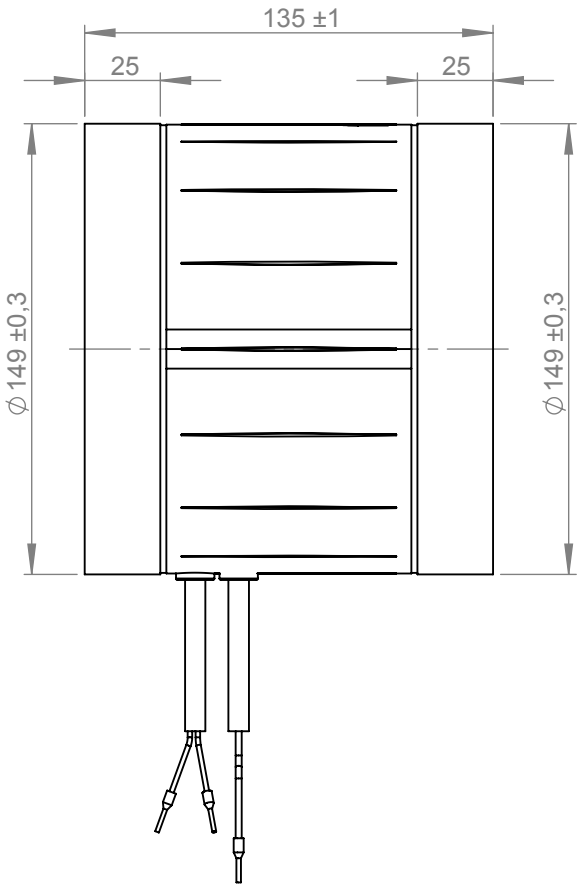
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor, 3-step
- Integrated electronic
- Internal electronic temperature monitoring
- Plastic housing

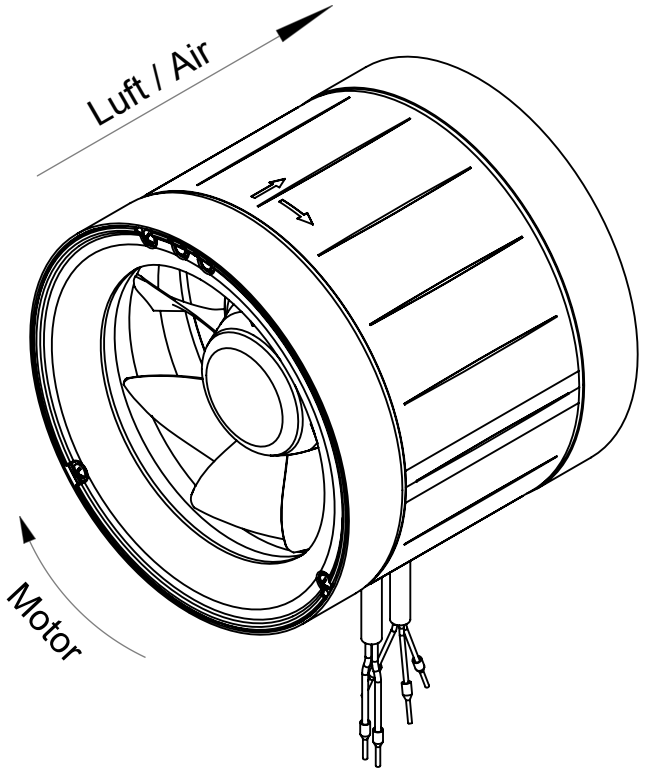
		Operating Point	1	2	3	4	5
Current I	A		0,3	0,3	0,3	0,3	0,3
Power consumption P_1	W		23	22	29	30	26
Rotation speed n	1/min		3786	3792	3828	3788	3790
SWL inlet L_{WA5}	dB(A)		67	66	67	66	67
SWL outlet L_{WA6}	dB(A)		70	69	70	68	69
SWL housing break out L_{WA2}	dB(A)		57	58	57	59	58

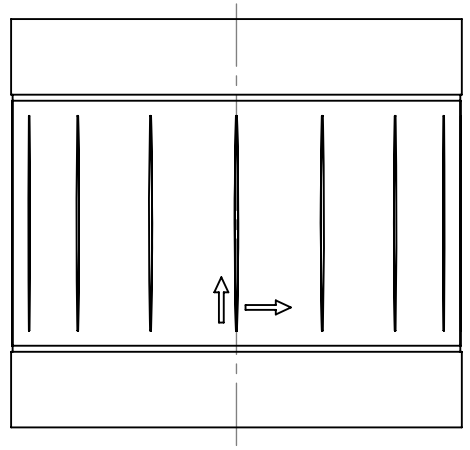
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	67	40	50	56	62	61	60	56	47
Outlet	L_{WA6}	70	40	50	56	64	64	64	59	48
Housing radiation	L_{WA2}	57	40	43	52	53	46	46	43	31

EM 150 EC 01 | 145671	
Voltage U_N	230 V 1~
Current I_{max}	0,3 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Insulation class motor	F
Weight	1,0 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:2.5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	03.04.18
Created:	d.andree	03.04.18
Changed:	d.andree	11.04.18

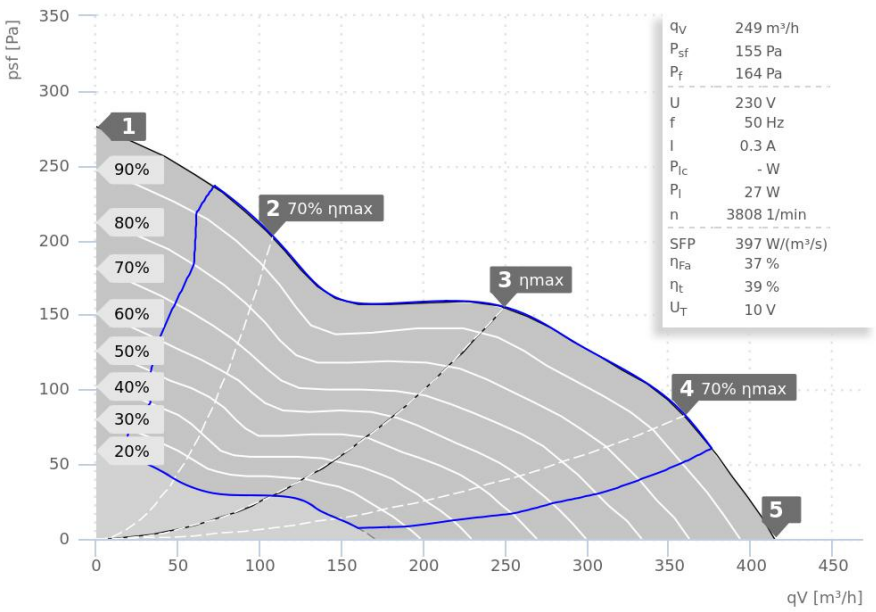
EM150EC01

145671 00

VENTAS VENTILATORER

DATA SHEET

EM 150 EC 02 | 145795



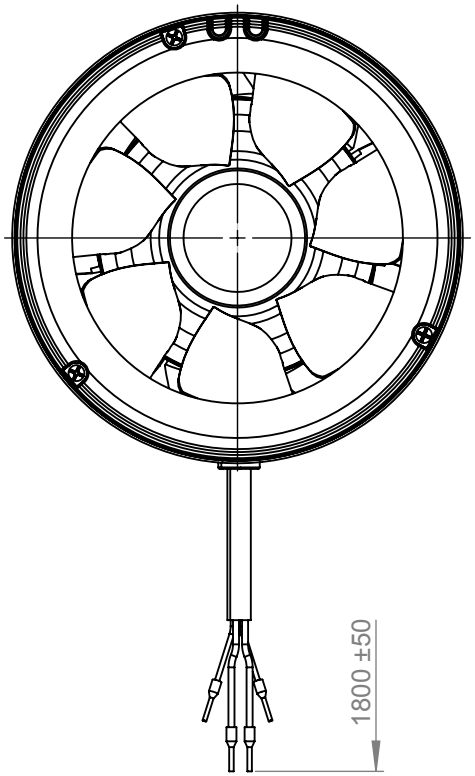
— **ErP compliant range**

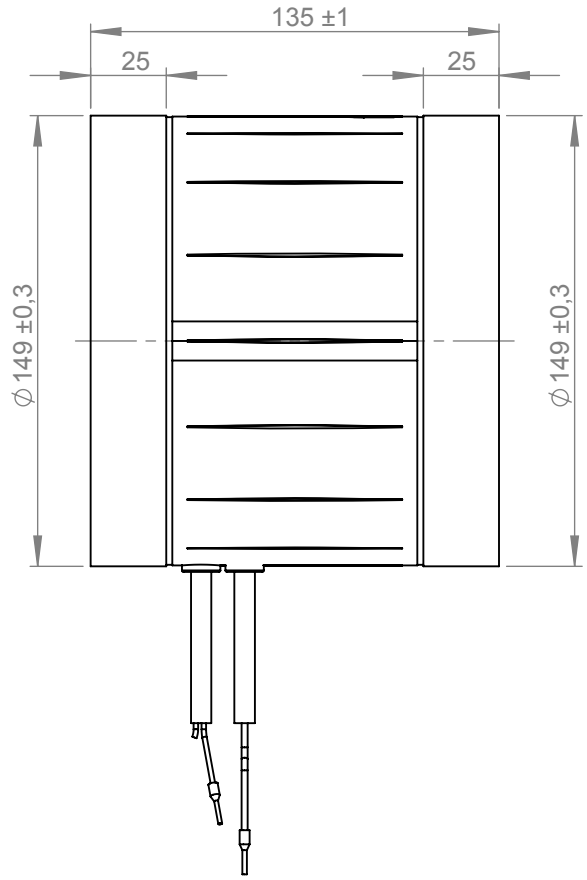
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- External PWM control required to operate the fan (e.g. MTP50)

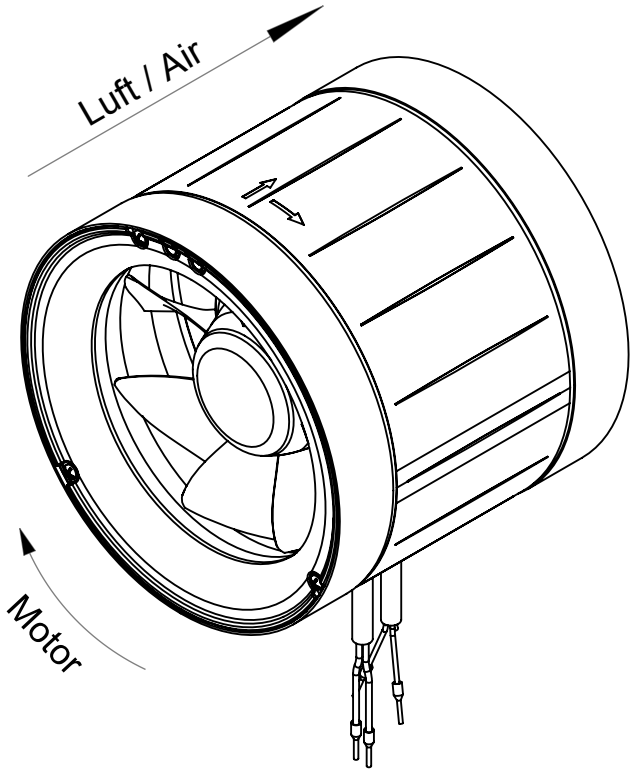
		Operating Point	1	2	3	4	5
Current I	A		0,3	0,2	0,3	0,3	0,3
Power consumption P_1	W		23	23	27	30	26
Rotation speed n	1/min		3794	3792	3808	3783	3783
SWL inlet L_{WA5}	dB(A)		67	67	67	66	66
SWL outlet L_{WA6}	dB(A)		70	69	70	68	69
SWL housing break out L_{WA2}	dB(A)		56	55	55	60	57

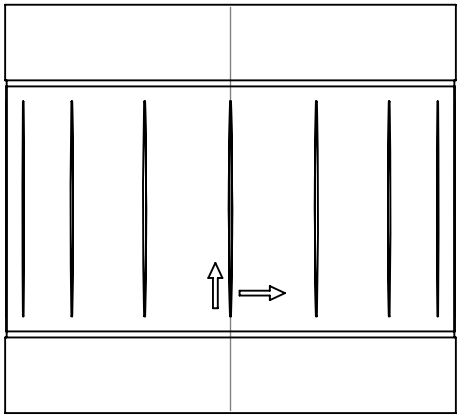
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	67	38	52	56	63	62	60	56	46
Outlet	L_{WA6}	70	43	52	57	65	64	64	58	46
Housing radiation	L_{WA2}	55	42	44	48	52	41	44	41	29

EM 150 EC 02 | 145795	
Voltage U_N	230 V 1~
Current I_{max}	0,3 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	PWM
Motor protection	TEC
Insulation class motor	F
Weight	1,0 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck.eu VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:2.5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	10.04.18
Created:	d.andree	10.04.18
Changed:	d.andree	11.04.18

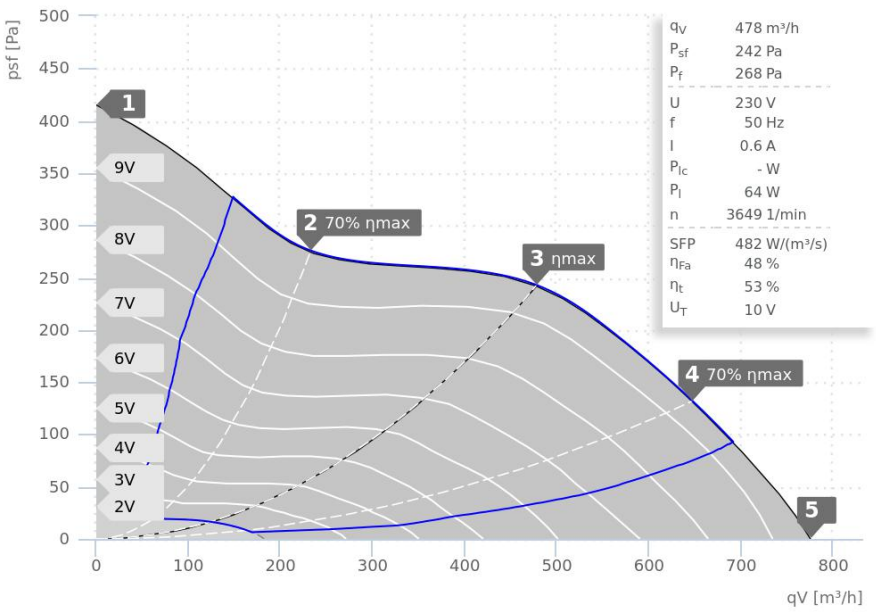
EM150EC02

145795 00

VENTAS VENTILATORER

DATA SHEET

EM 150L EC 01 | 128588



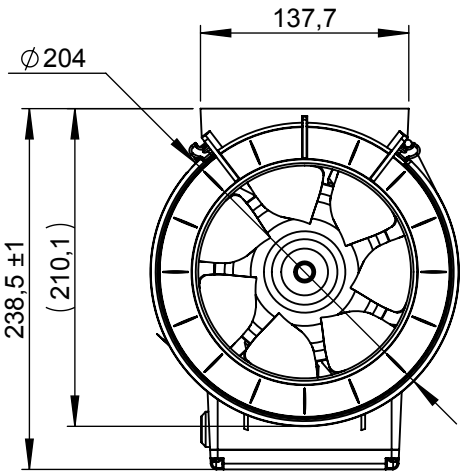
— **ErP compliant range**

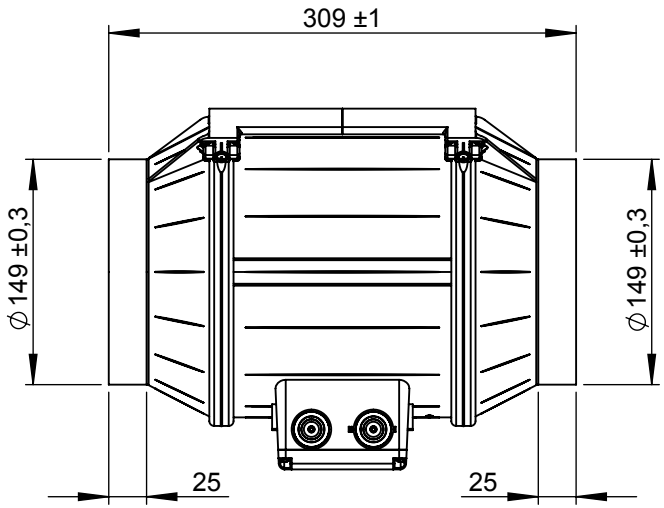
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

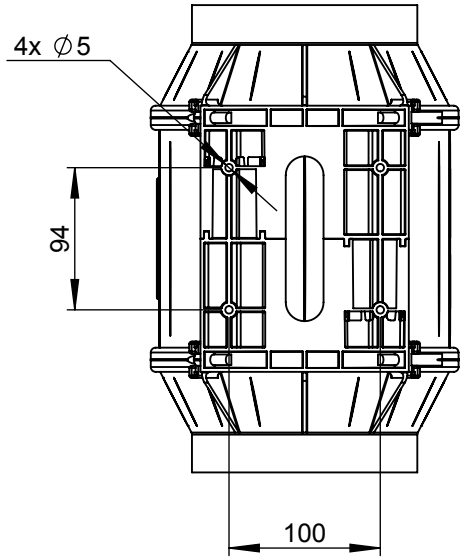
		Operating Point	1	2	3	4	5
Current I		A	0,5	0,5	0,6	0,6	0,5
Power consumption P_1		W	57	51	64	67	63
Rotation speed n		1/min	3722	3789	3653	3603	3635
SWL inlet L_{WA5}		dB(A)	72	71	74	74	74
SWL outlet L_{WA6}		dB(A)	73	72	75	76	77
SWL housing break out L_{WA2}		dB(A)	59	57	56	56	57

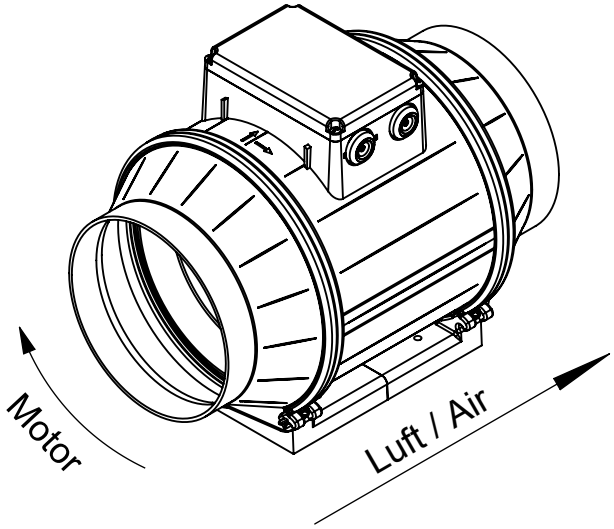
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	74	40	52	62	71	67	66	60	52
Outlet	L_{WA6}	75	42	51	62	68	71	67	65	57
Housing radiation	L_{WA2}	56	40	39	44	47	50	53	46	35

EM 150L EC 01 | 128588	
Voltage U_N	230 V 1~
Current I_{max}	0,6 A
Ambient temperature t_A	45 °C
Conveyed medium temperature t_M	45 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	2,4 kg
Number of poles	-
IP motor	IP54
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

1:5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

EM150LEC01+

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

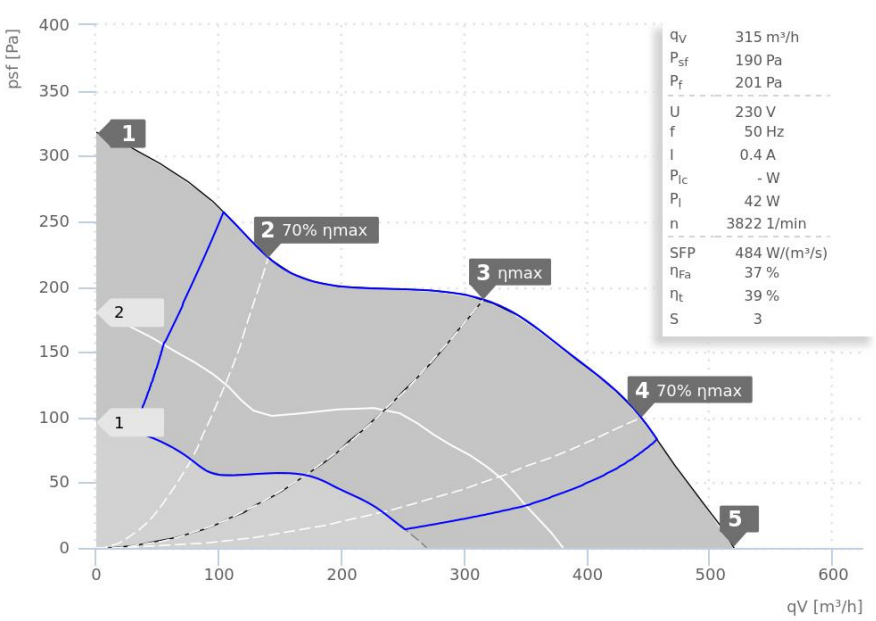
Drawn: m.deissler 26.09.14
Created: d.andree 23.09.13
Changed: h.ragowski 13.11.14

128588 02

VENTAS VENTILATORER

DATA SHEET

EM 160 EC 01 | 145674



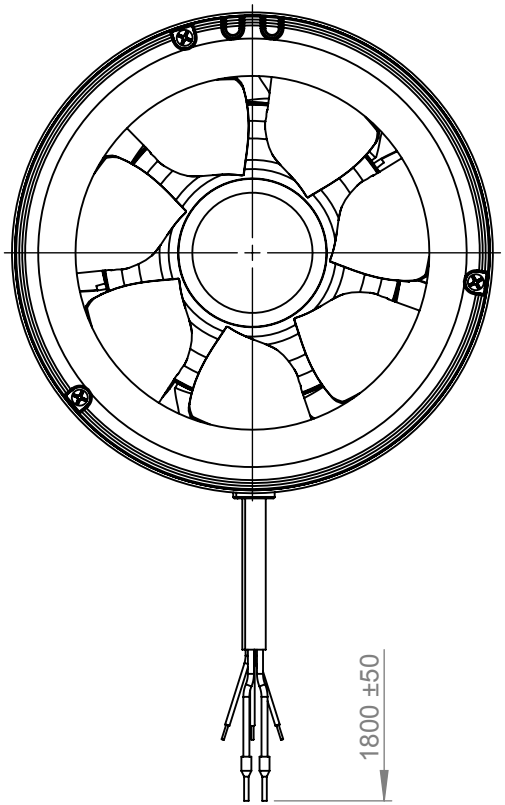
— **ErP compliant range**

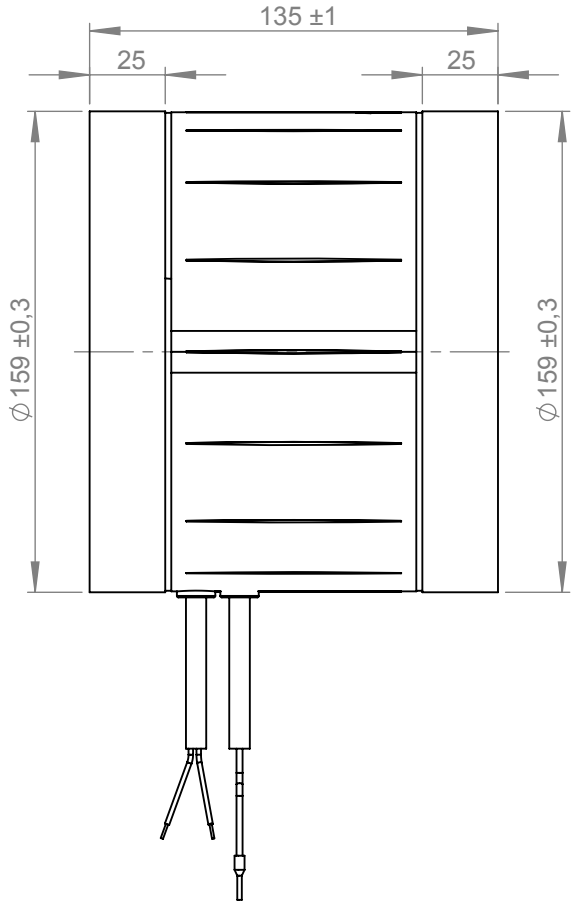
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor, 3-step
- Integrated electronic
- Internal electronic temperature monitoring
- Plastic housing

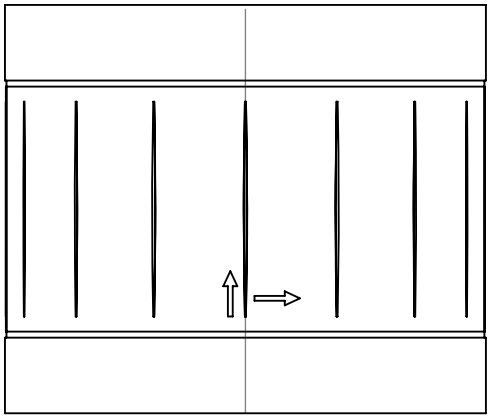
		Operating Point	1	2	3	4	5
Current I	A		0,3	0,3	0,4	0,4	0,4
Power consumption P_1	W		33	31	42	44	38
Rotation speed n	1/min		3800	3785	3819	3802	3813
SWL inlet L_{WA5}	dB(A)		68	68	69	64	67
SWL outlet L_{WA6}	dB(A)		72	71	71	69	71
SWL housing break out L_{WA2}	dB(A)		57	57	56	54	56

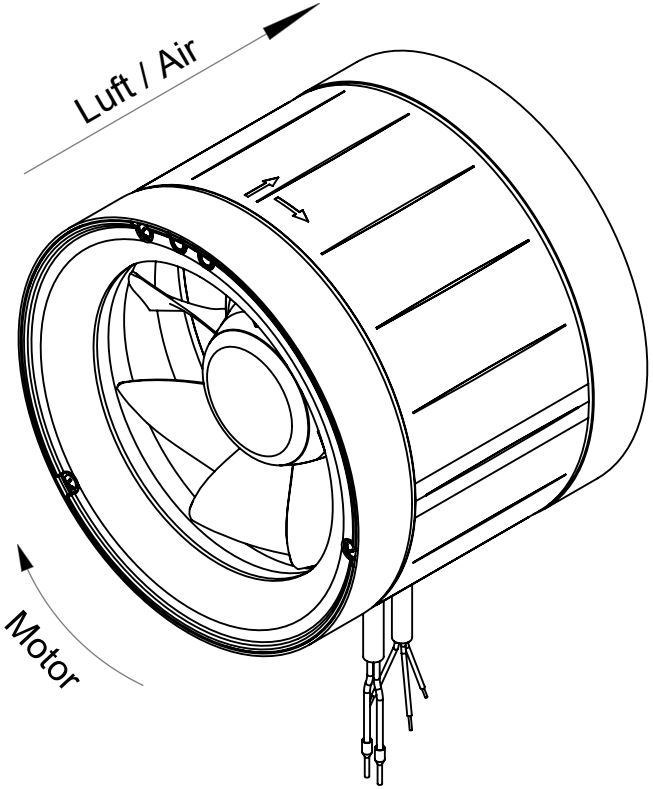
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	69	46	54	57	64	64	61	57	49
Outlet	L_{WA6}	71	47	54	57	65	66	65	59	48
Housing radiation	L_{WA2}	56	32	36	48	53	42	46	43	30

EM 160 EC 01 | 145674	
Voltage U_N	230 V 1~
Current I_{max}	0,4 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	3-2-1
Motor protection	TEC
Insulation class motor	F
Weight	1,0 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:2.5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	03.04.18
Created:	d.andree	03.04.18
Changed:	d.andree	11.04.18

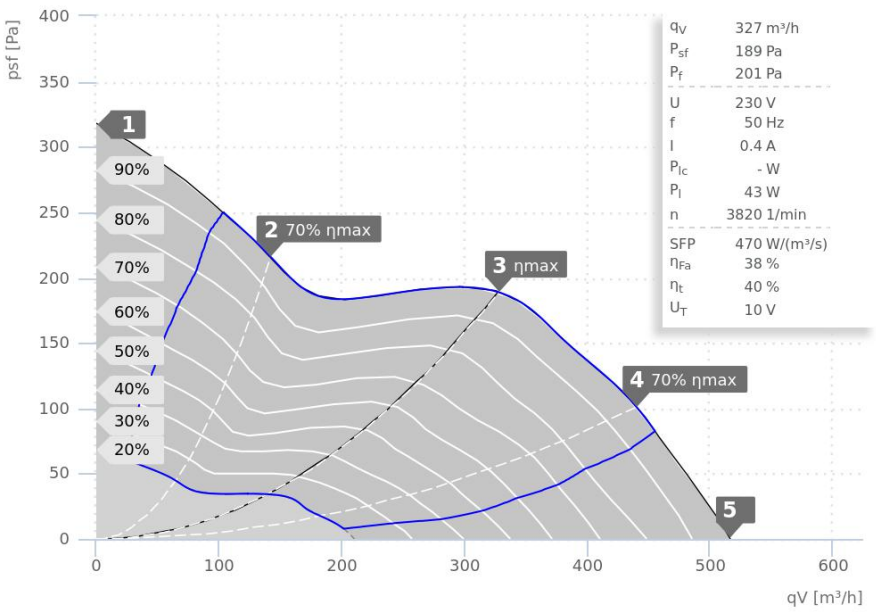
EM160EC01

145674 00

VENTAS VENTILATORER

DATA SHEET

EM 160 EC 02 | 145798



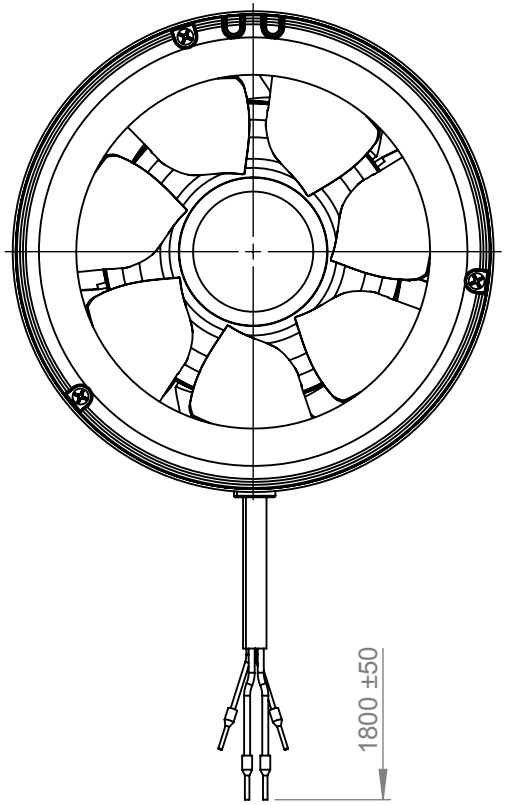
— **ErP compliant range**

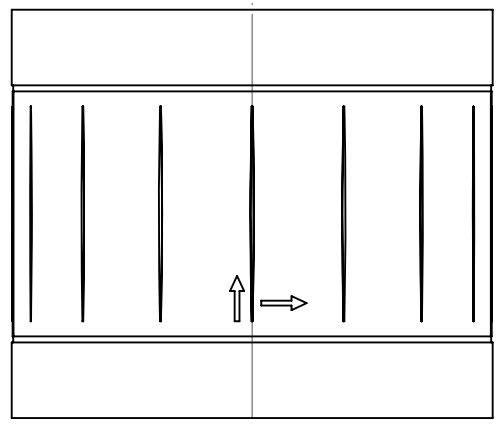
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- External PWM control required to operate the fan (e.g. MTP50)

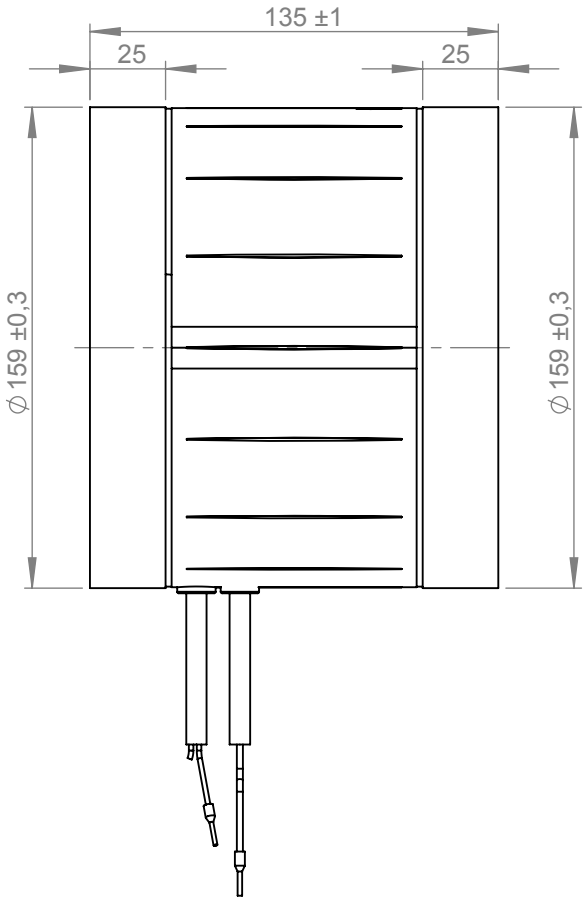
Operating Point		1	2	3	4	5
Current I	A	0,3	0,3	0,4	0,4	0,4
Power consumption P_1	W	33	30	43	44	37
Rotation speed n	1/min	3799	3777	3821	3803	3812
SWL inlet L_{WA5}	dB(A)	68	68	67	64	66
SWL outlet L_{WA6}	dB(A)	72	71	71	69	71
SWL housing break out L_{WA2}	dB(A)	57	58	56	55	55

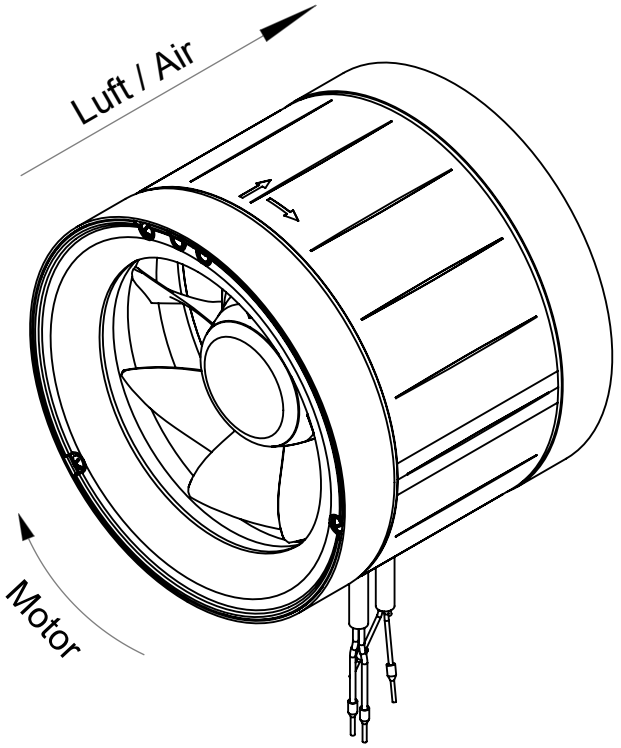
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	67	45	54	57	62	62	60	56	47
Outlet	L_{WA6}	71	51	54	58	65	66	65	59	48
Housing radiation	L_{WA2}	56	38	39	50	52	43	47	42	30

EM 160 EC 02 | 145798	
Voltage U_N	230 V 1~
Current I_{max}	0,4 A
Ambient temperature t_A	40 °C
Conveyed medium temperature t_M	40 °C
Speed Control	PWM
Motor protection	TEC
Insulation class motor	F
Weight	1,0 kg
Number of poles	-
IP motor	IP00
IP terminal box	-
IP complete unit	IPX2
Min. operating temperature	-









ruck.eu VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:2.5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	10.04.18
Created:	d.andree	10.04.18
Changed:	d.andree	11.04.18

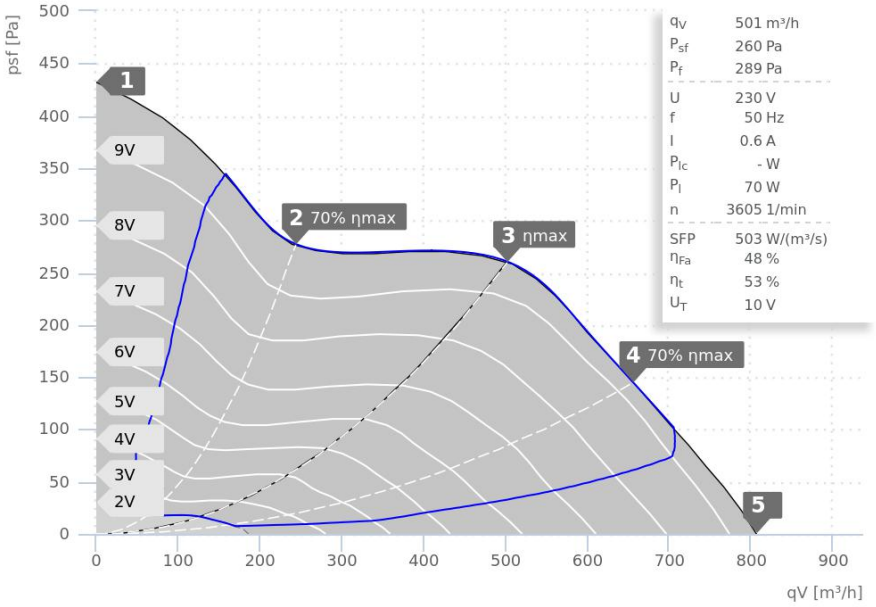
EM160EC02

145798 00

VENTAS VENTILATORER

DATA SHEET

EM 160L EC 01 | 128586



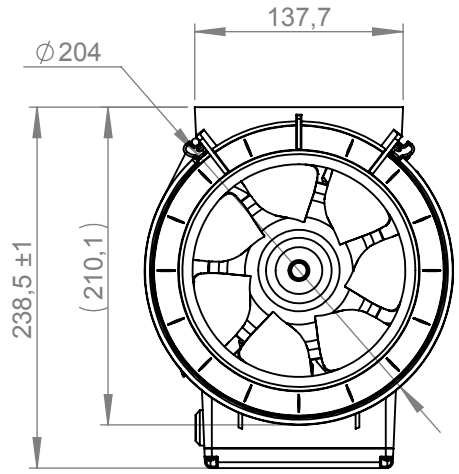
— **ErP compliant range**

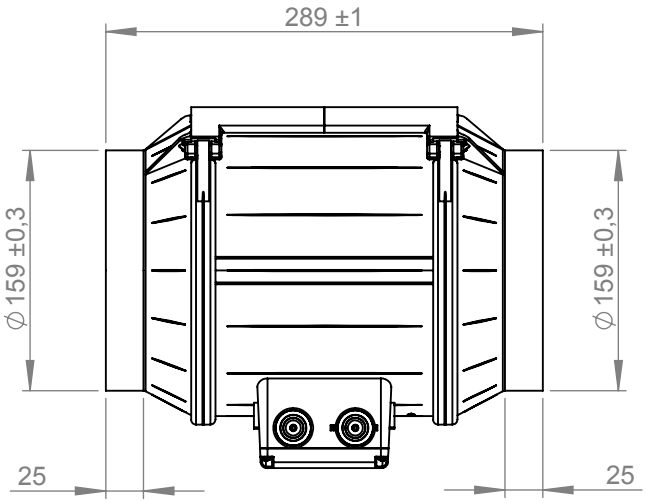
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

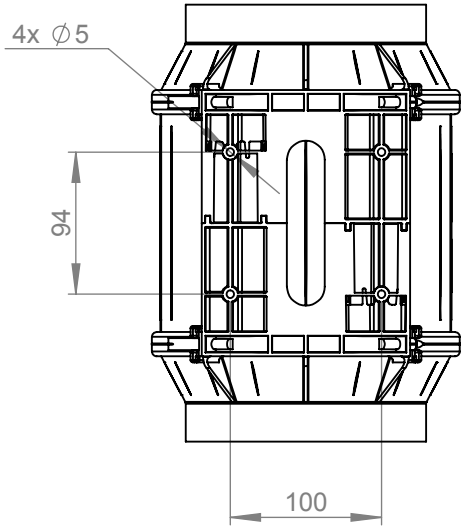
		Operating Point	1	2	3	4	5
Current I	A		0,5	0,5	0,6	0,6	0,6
Power consumption P_1	W		61	52	70	73	67
Rotation speed n	1/min		3732	3777	3605	3541	3596
SWL inlet L_{WA5}	dB(A)		72	71	72	73	73
SWL outlet L_{WA6}	dB(A)		74	74	75	75	76
SWL housing break out L_{WA2}	dB(A)		58	57	55	55	56

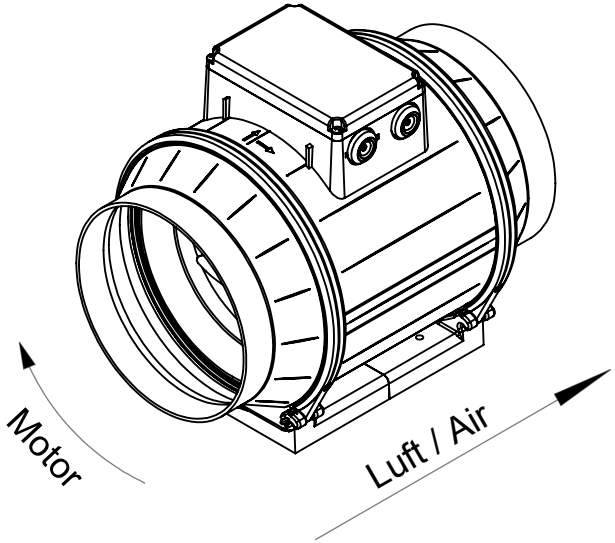
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	72	33	44	58	67	67	66	61	56
Outlet	L_{WA6}	75	37	49	61	68	71	68	66	58
Housing radiation	L_{WA2}	55	39	34	42	46	49	52	45	36

EM 160L EC 01 | 128586	
Voltage U_N	230 V 1~
Current I_{max}	0,7 A
Ambient temperature t_A	45 °C
Conveyed medium temperature t_M	45 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	2,6 kg
Number of poles	-
IP motor	IP54
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

1:5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-mK

EM160LEC01+

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

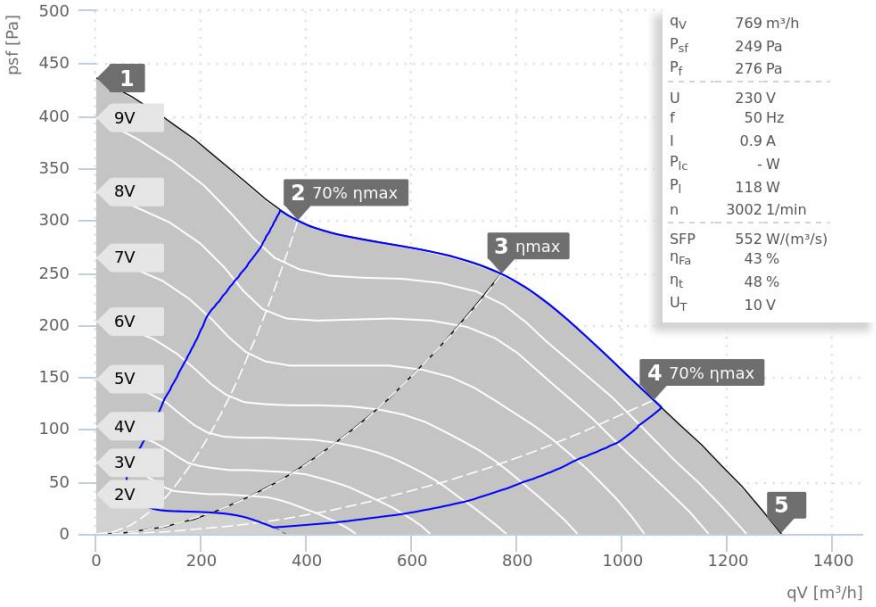
Drawn: m.deissler 26.09.14
Created: d.andree 23.09.13
Changed: d.andree 19.01.16

128586 04

VENTAS VENTILATORER

DATA SHEET

EM 200 EC 01 | 130561



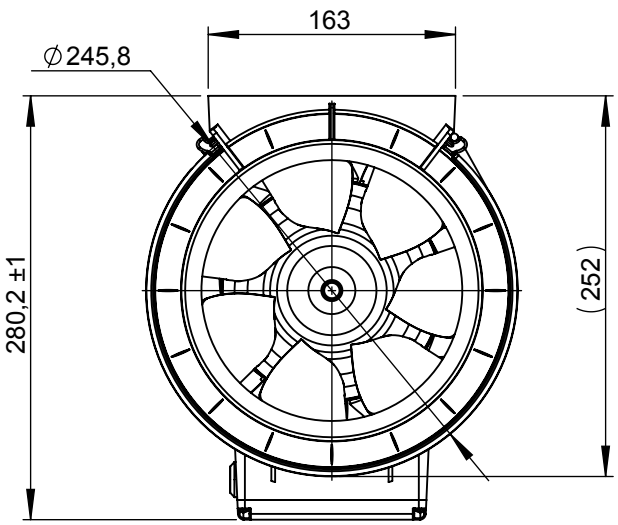
— **ErP compliant range**

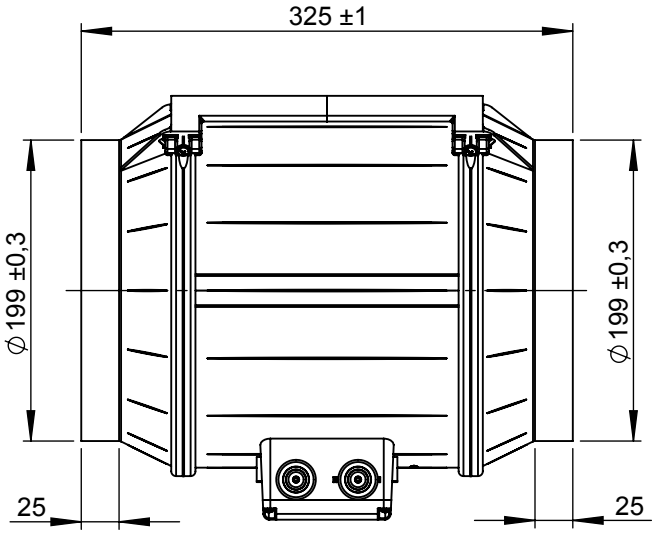
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

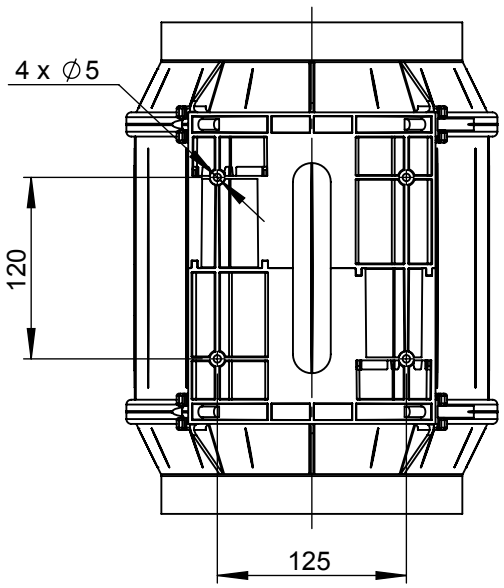
		Operating Point	1	2	3	4	5
Current I	A		0,9	0,8	0,9	0,9	0,9
Power consumption P_1	W		112	101	118	118	119
Rotation speed n	1/min		3084	3171	3002	2872	2959
SWL inlet L_{WA5}	dB(A)		77	76	77	76	76
SWL outlet L_{WA6}	dB(A)		78	78	79	78	79
SWL housing break out L_{WA2}	dB(A)		63	62	62	61	62

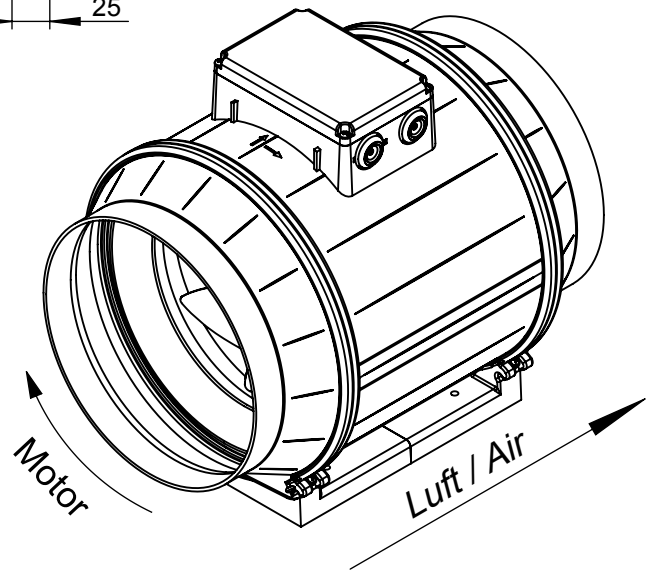
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	77	41	58	67	73	72	70	64	57
Outlet	L_{WA6}	79	41	59	69	73	75	71	68	59
Housing radiation	L_{WA2}	62	40	42	51	54	58	57	48	40

EM 200 EC 01 | 130561	
Voltage U_N	230 V 1~
Current I_{max}	1,0 A
Ambient temperature t_A	45 °C
Conveyed medium temperature t_M	45 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	3,2 kg
Number of poles	-
IP motor	IP54
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

1:5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-mK

EM200EC01+

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

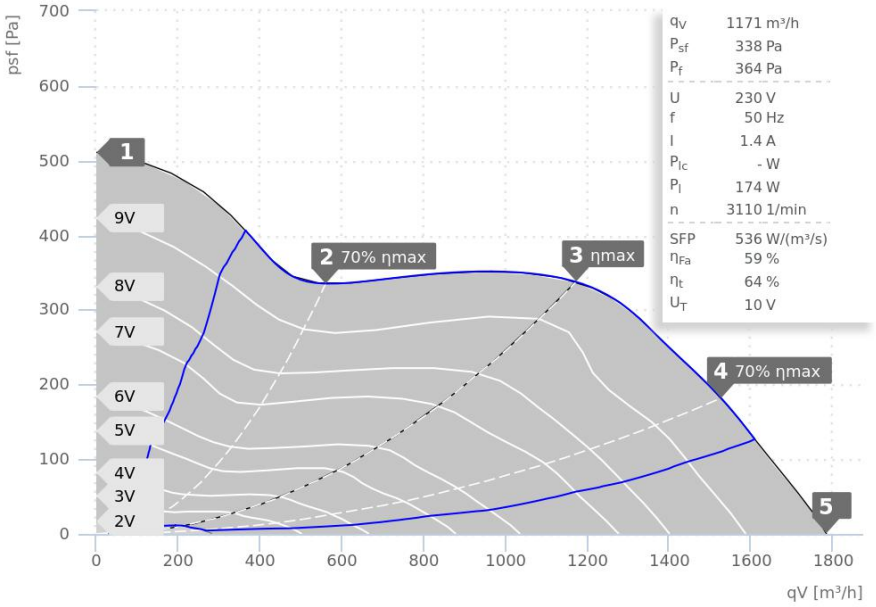
Drawn:	m.deissler	26.09.14
Created:	m.deissler	07.07.14
Changed:	h.ragowski	13.11.14

130561 02

VENTAS VENTILATORER

DATA SHEET

EM 250 EC 01 | 128954



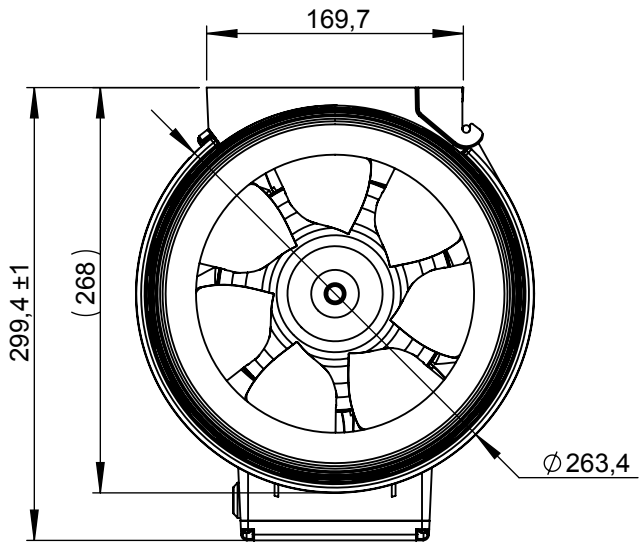
— **ErP compliant range**

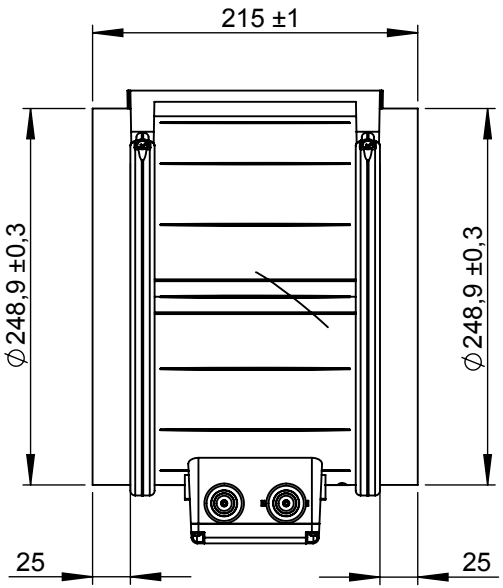
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

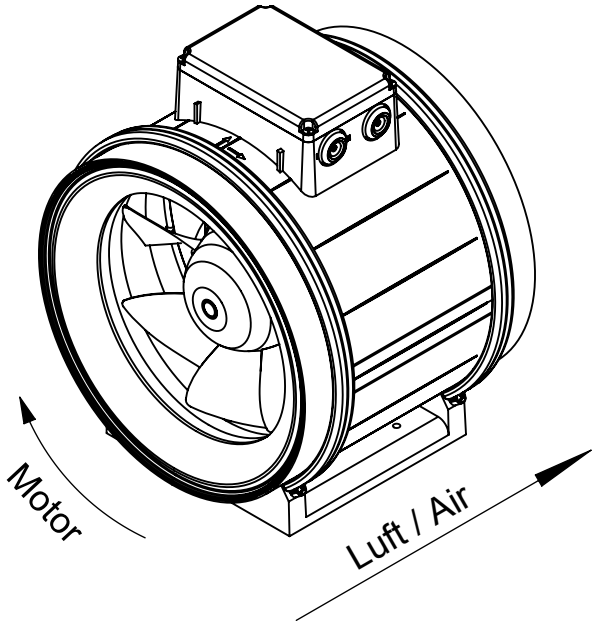
		Operating Point	1	2	3	4	5
Current I	A		1,0	1,0	1,4	1,4	1,2
Power consumption P_1	W		132	119	174	174	151
Rotation speed n	1/min		3094	3105	3110	3108	3114
SWL inlet L_{WA5}	dB(A)		78	77	76	76	78
SWL outlet L_{WA6}	dB(A)		81	79	79	79	80
SWL housing break out L_{WA2}	dB(A)		68	67	66	69	67

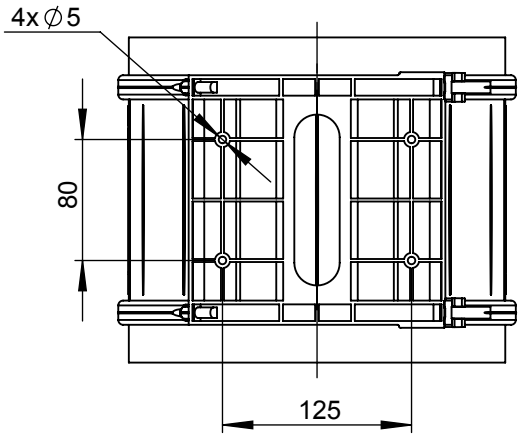
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	76	52	62	64	70	72	69	65	55
Outlet	L_{WA6}	79	50	61	64	71	76	73	65	57
Housing radiation	L_{WA2}	66	52	52	49	52	65	56	47	37

EM 250 EC 01 | 128954	
Voltage U_N	230 V 1~
Current I_{max}	1,5 A
Ambient temperature t_A	45 °C
Conveyed medium temperature t_M	45 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	5,7 kg
Number of poles	-
IP motor	IP33
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

1:5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-mK

EM250EC01+

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

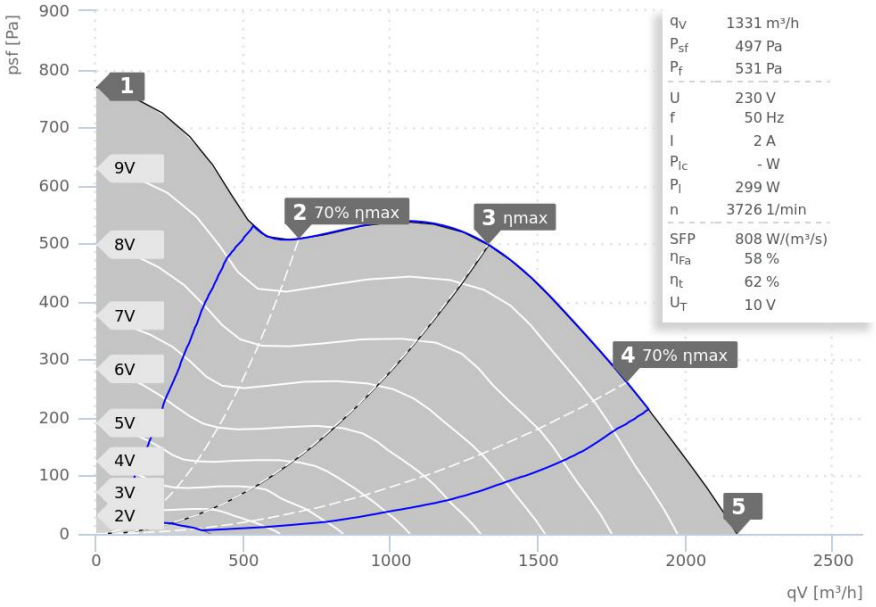
Drawn: d.andree 15.10.13
Created: d.andree 15.10.13
Changed: h.ragowski 12.11.14

128954 01

VENTAS VENTILATORER

DATA SHEET

EM 250 EC 02 | 130491



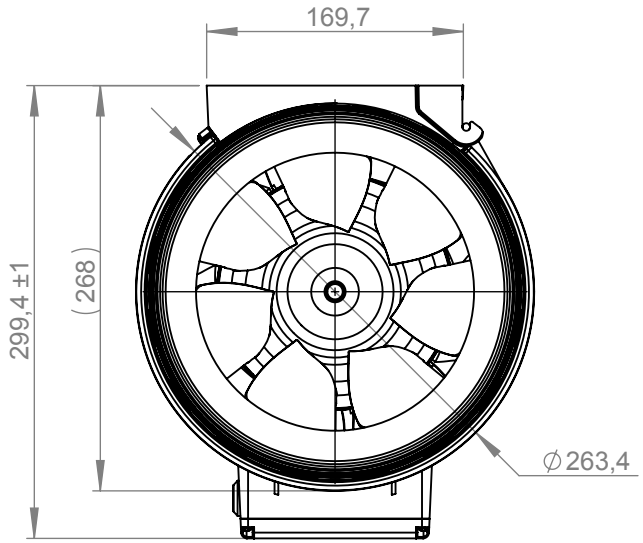
— **ErP compliant range**

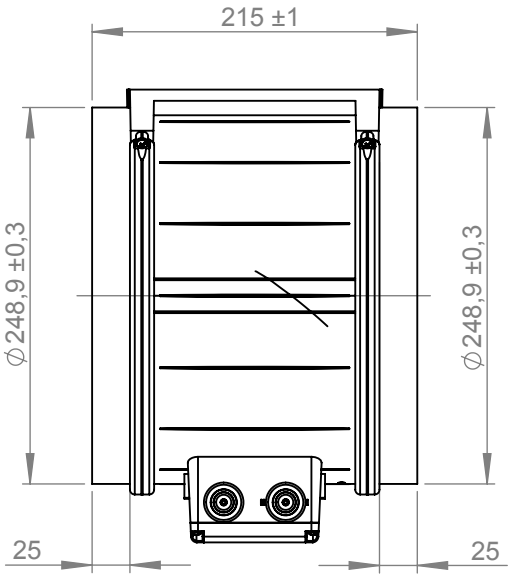
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

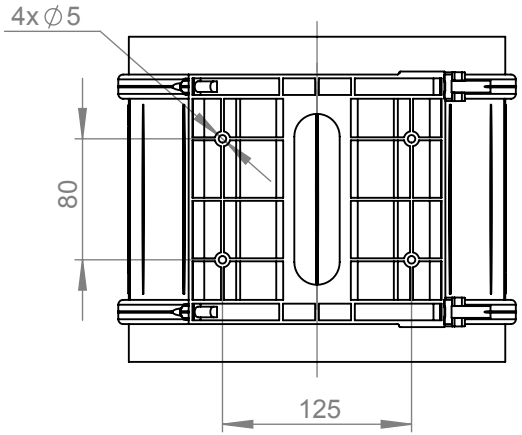
		Operating Point	1	2	3	4	5
Current I		A	1,7	1,5	2,0	2,0	1,9
Power consumption P_1		W	248	225	299	301	287
Rotation speed n		1/min	3830	3877	3729	3715	3842
SWL inlet L_{WA5}		dB(A)	83	83	82	79	81
SWL outlet L_{WA6}		dB(A)	87	86	86	83	85
SWL housing break out L_{WA2}		dB(A)	68	68	67	64	65

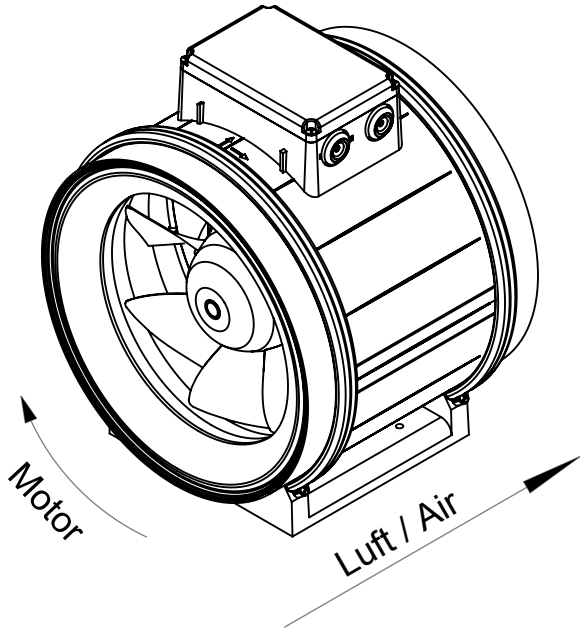
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	82	57	70	71	75	77	75	71	61
Outlet	L_{WA6}	86	55	69	72	77	83	80	72	64
Housing radiation	L_{WA2}	67	54	58	55	59	62	62	52	41

EM 250 EC 02 | 130491	
Voltage U_N	230 V 1~
Current I_{max}	2,1 A
Ambient temperature t_A	45 °C
Conveyed medium temperature t_M	45 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	4,1 kg
Number of poles	-
IP motor	IP33
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	m.deissler	01.07.14
Created:	m.deissler	01.07.14
Changed:	v.brand	09.02.15

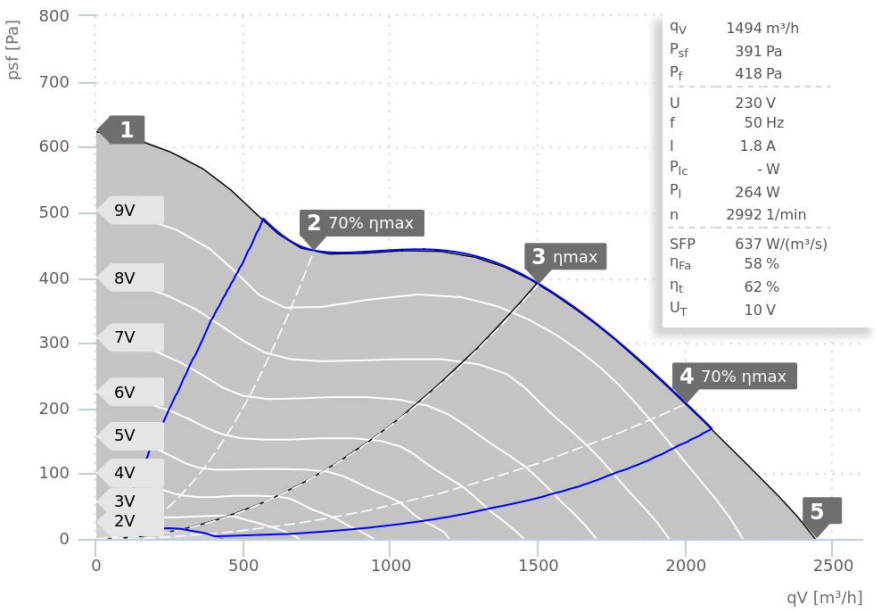
EM250EC02+

130491 01

VENTAS VENTILATORER

DATA SHEET

EM 280 EC 01 | 130701



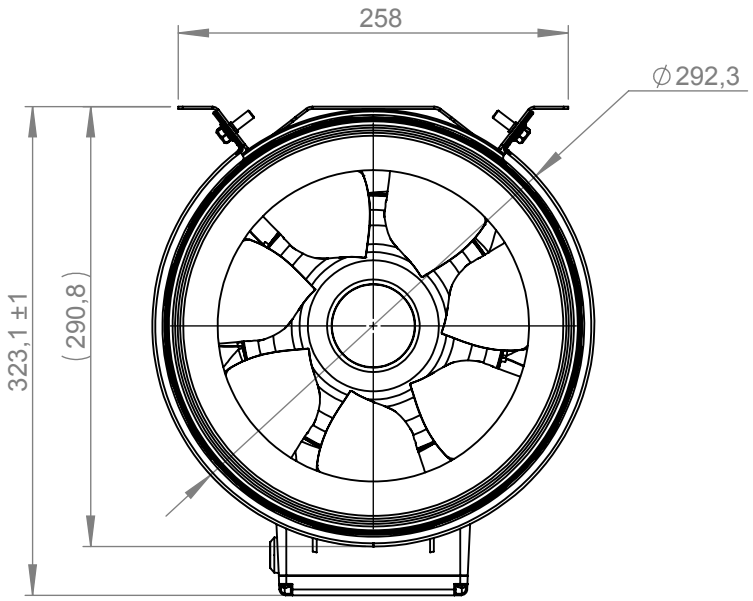
— **ErP compliant range**

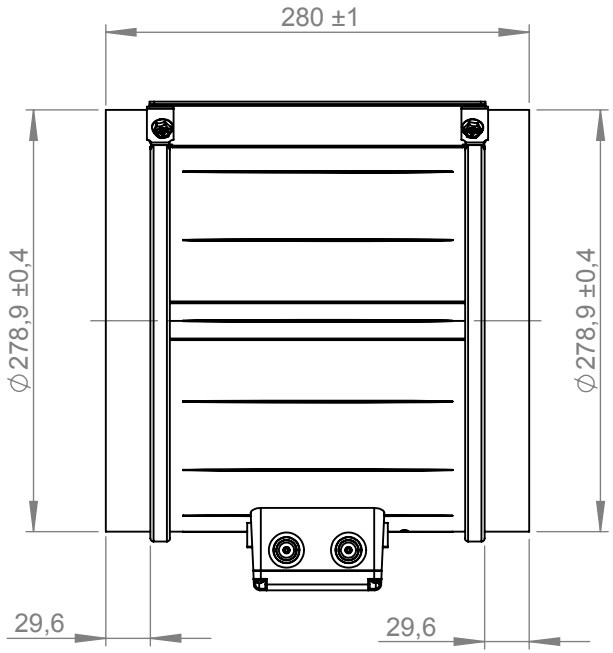
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

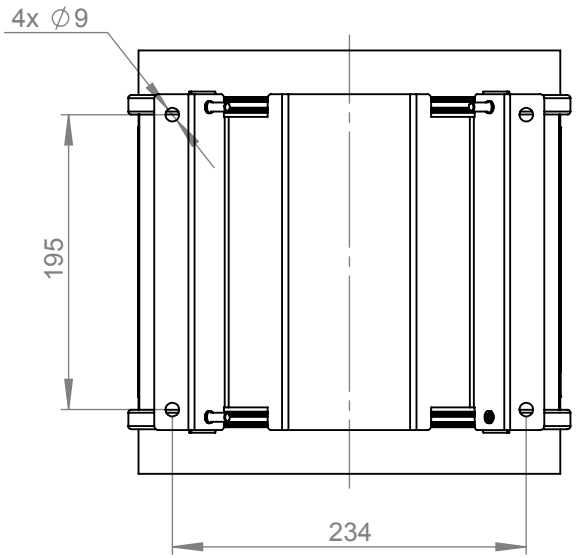
		Operating Point	1	2	3	4	5
Current I		A	1,5	1,4	1,8	1,8	1,7
Power consumption P_1		W	221	211	265	267	260
Rotation speed n		1/min	3122	3148	2993	3001	3135
SWL inlet L_{WA5}		dB(A)	82	82	82	80	82
SWL outlet L_{WA6}		dB(A)	85	84	83	82	84
SWL housing break out L_{WA2}		dB(A)	76	76	75	73	75

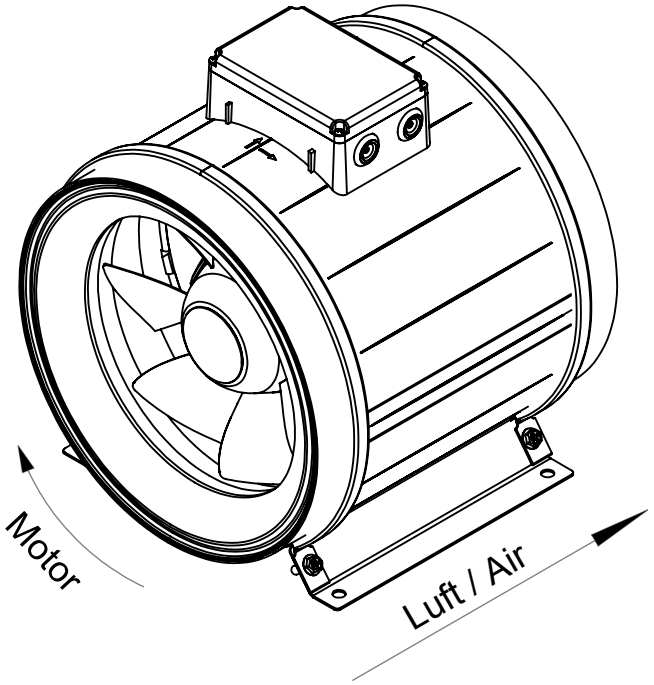
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	82	55	68	70	76	79	74	68	58
Outlet	L_{WA6}	83	47	62	70	77	81	75	70	62
Housing radiation	L_{WA2}	75	49	52	54	57	74	59	46	37

EM 280 EC 01 | 130701	
Voltage U_N	230 V 1~
Current I_{max}	1,9 A
Ambient temperature t_A	45 °C
Conveyed medium temperature t_M	45 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	5,6 kg
Number of poles	-
IP motor	IP33
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

1:5 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-mK

EM280EC01+

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

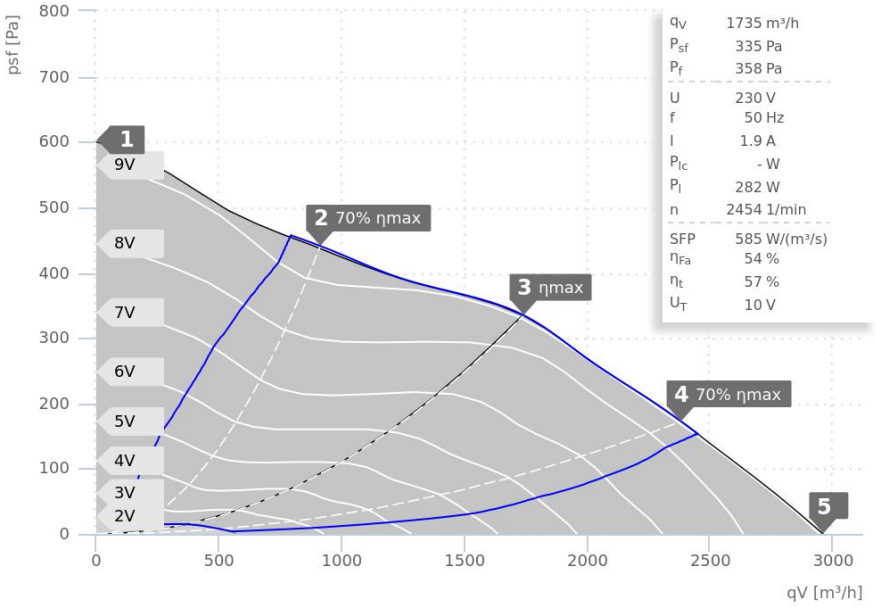
Drawn: m.deissler 19.08.14
Created: m.deissler 19.08.14
Changed: d.andree 25.03.15

130701 02

VENTAS VENTILATORER

DATA SHEET

EM 315 EC 01 | 130708



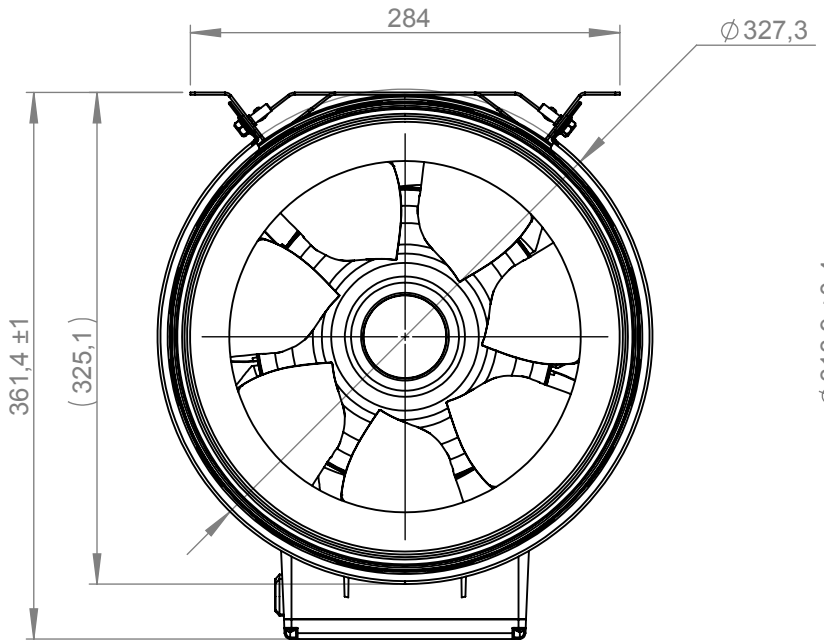
— **ErP compliant range**

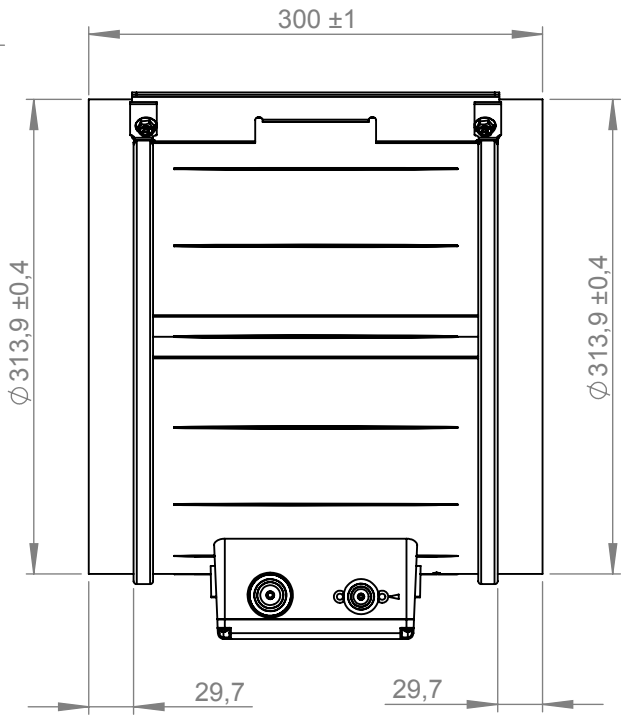
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

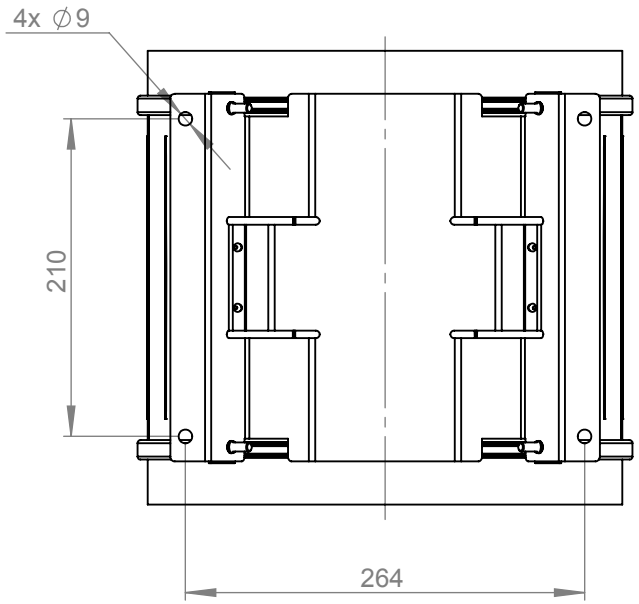
		Operating Point	1	2	3	4	5
Current I		A	1,8	1,8	1,9	1,9	1,9
Power consumption P_1		W	280	280	282	281	282
Rotation speed n		1/min	2716	2786	2453	2455	2609
SWL inlet L_{WA5}		dB(A)	82	80	77	76	79
SWL outlet L_{WA6}		dB(A)	85	83	80	79	82
SWL housing break out L_{WA2}		dB(A)	72	73	69	69	71

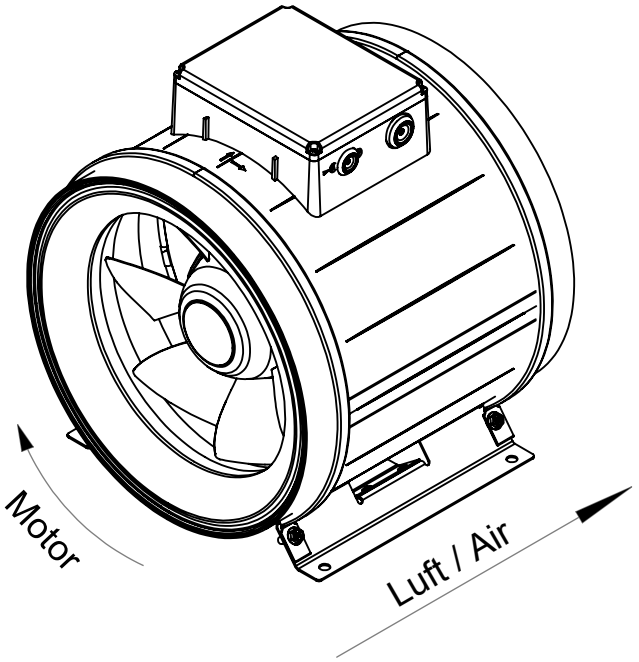
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	77	36	53	66	69	72	70	70	61
Outlet	L_{WA6}	81	40	55	69	75	77	73	69	60
Housing radiation	L_{WA2}	69	39	39	49	57	68	54	44	34

EM 315 EC 01 | 130708	
Voltage U_N	230 V 1~
Current I_{max}	2,0 A
Ambient temperature t_A	45 °C
Conveyed medium temperature t_M	45 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	6,9 kg
Number of poles	-
IP motor	IP33
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:5 A4 mm

Protection Mark according to ISO16016
General tolerances DIN ISO 2768-mK

Drawn: m.deissler 19.08.14
Created: m.deissler 19.08.14
Changed: d.andree 02.03.15

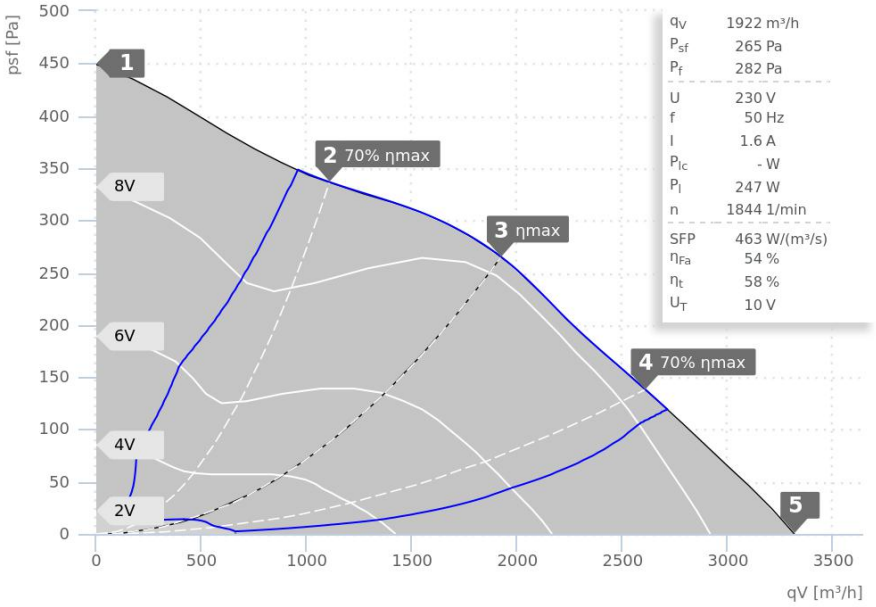
EM315EC01+

130708 02

VENTAS VENTILATORER

DATA SHEET

EM 355 EC 01 | 130712



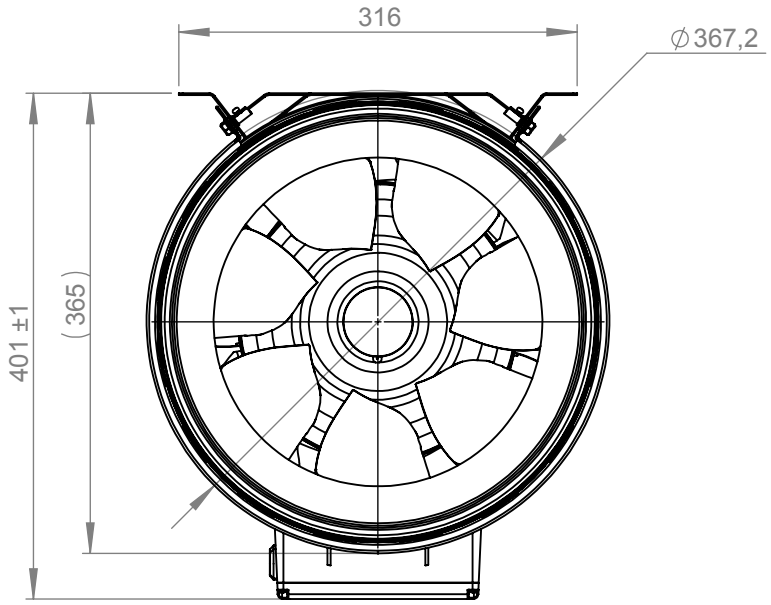
— **ErP compliant range**

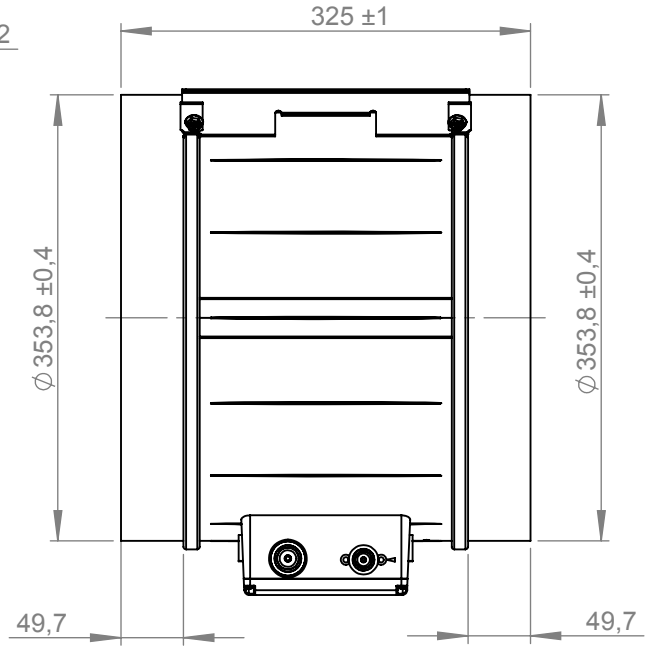
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

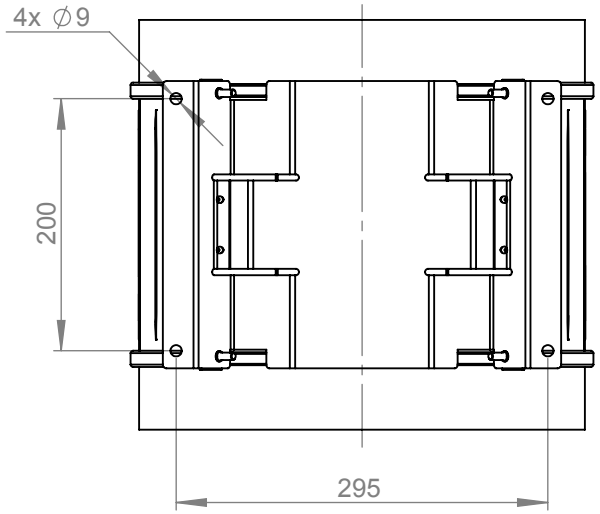
		Operating Point	1	2	3	4	5
Current I		A	1,7	1,7	1,6	1,7	1,7
Power consumption P_1		W	254	261	247	249	257
Rotation speed n		1/min	2069	2159	1844	1877	2023
SWL inlet L_{WA5}		dB(A)	80	78	73	72	75
SWL outlet L_{WA6}		dB(A)	83	81	76	74	78
SWL housing break out L_{WA2}		dB(A)	66	64	63	63	62

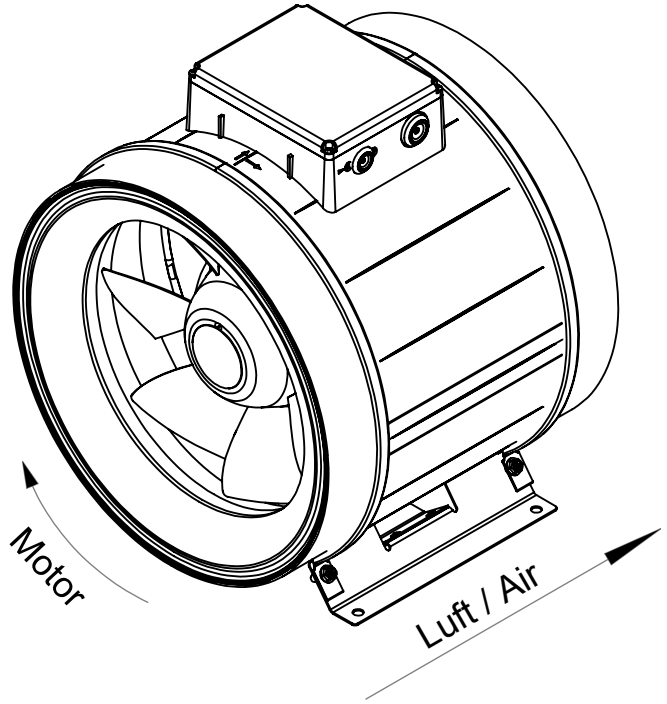
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	73	32	50	59	68	67	66	65	55
Outlet	L_{WA6}	76	34	50	63	71	72	68	66	57
Housing radiation	L_{WA2}	63	31	35	47	59	60	46	40	31

EM 355 EC 01 | 130712	
Voltage U_N	230 V 1~
Current I_{max}	1,8 A
Ambient temperature t_A	35 °C
Conveyed medium temperature t_M	35 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	F
Weight	8,7 kg
Number of poles	-
IP motor	IP33
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-30 °C









ruck VENTILATOREN

1:6 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-mK

EM355EC01+

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

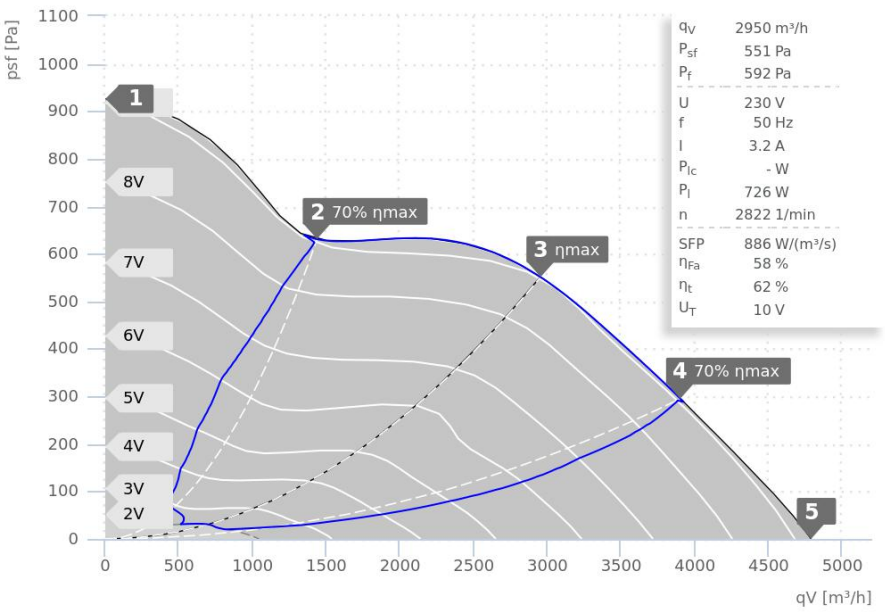
Drawn: m.deissler 19.08.14
Created: m.deissler 19.08.14
Changed: d.andree 27.02.15

130712 02

VENTAS VENTILATORER

DATA SHEET

EM 355 EC 02 | 133666



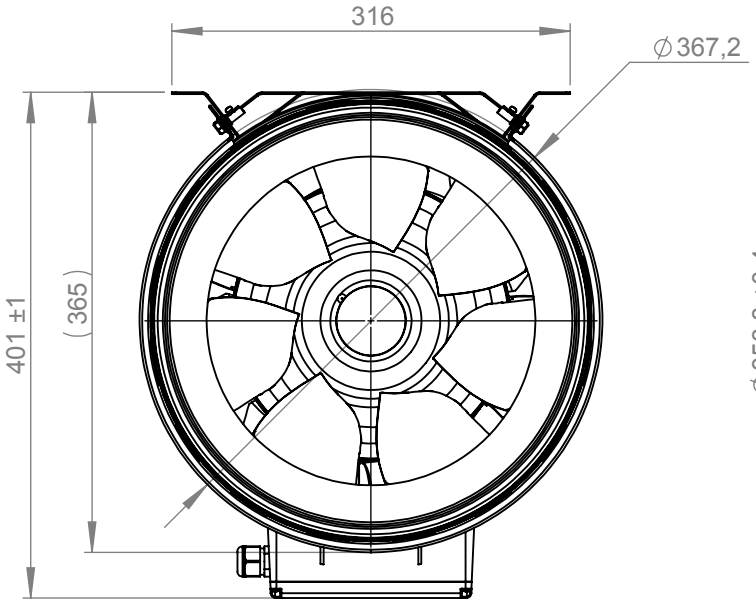
— **ErP compliant range**

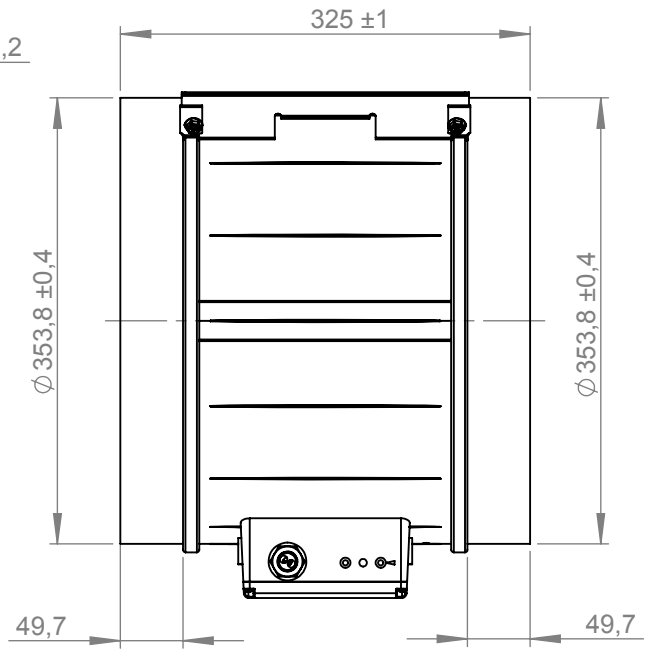
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

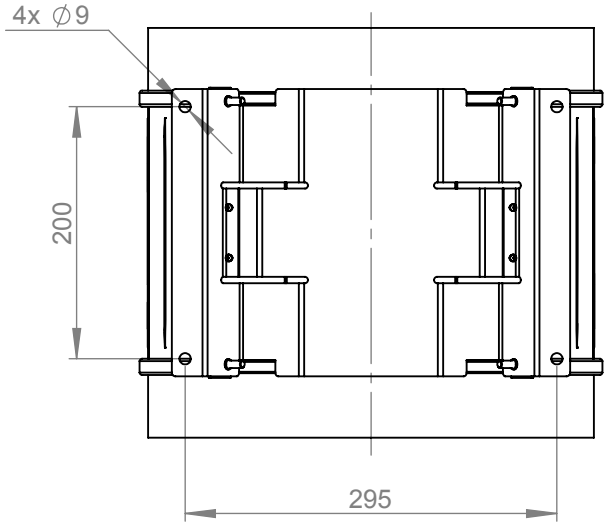
		Operating Point	1	2	3	4	5
Current I		A	2,7	2,5	3,2	3,2	3,2
Power consumption P_1		W	622	575	726	728	722
Rotation speed n		1/min	3000	3004	2821	2855	3004
SWL inlet L_{WA5}		dB(A)	90	87	84	81	84
SWL outlet L_{WA6}		dB(A)	93	90	88	85	87
SWL housing break out L_{WA2}		dB(A)	73	71	65	64	68

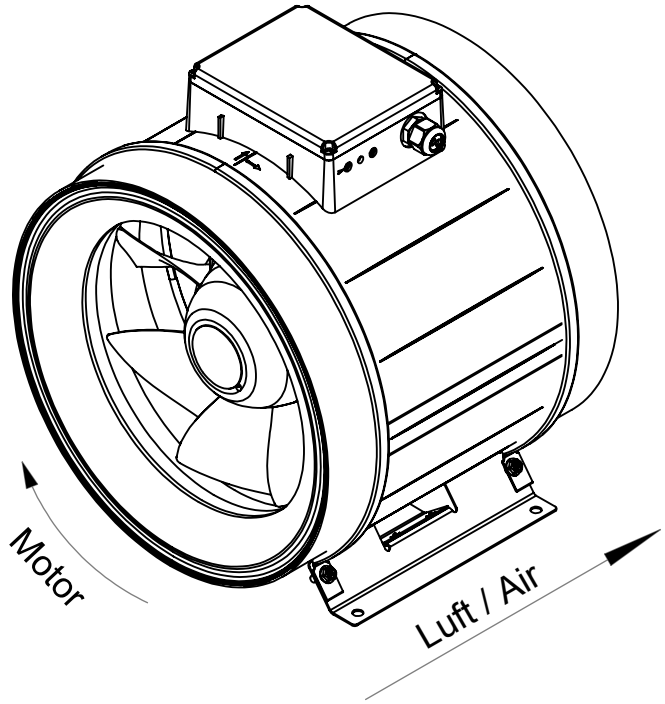
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	84	59	63	72	78	79	77	74	65
Outlet	L_{WA6}	88	63	69	76	84	84	80	75	65
Housing radiation	L_{WA2}	65	41	44	51	60	62	56	51	41

EM 355 EC 02 | 133666	
Voltage U_N	230 V 1~
Current I_{max}	3,4 A
Ambient temperature t_A	60 °C
Conveyed medium temperature t_M	60 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	B
Weight	9,8 kg
Number of poles	-
IP motor	IP20
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-25 °C









ruck VENTILATOREN

1:6 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-mK

EM355EC02

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

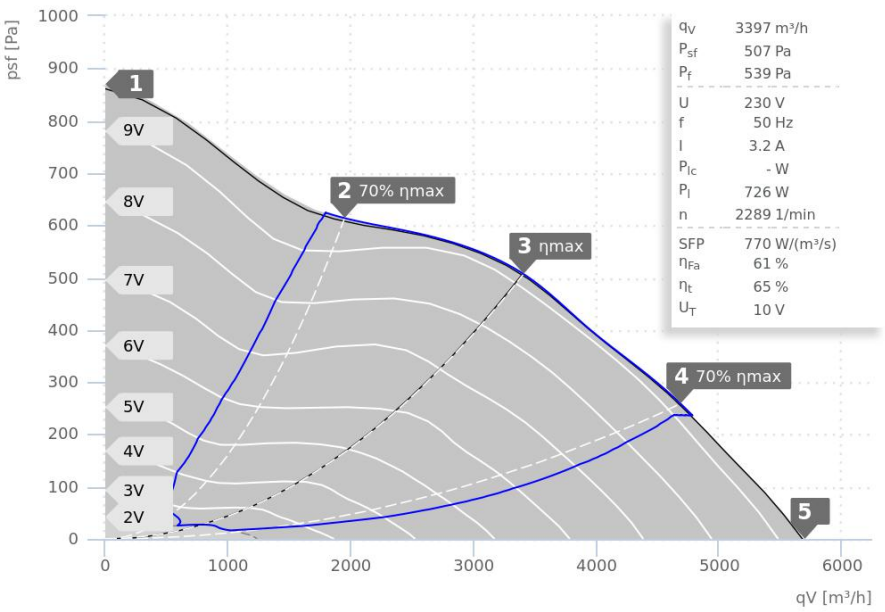
Drawn:	d.andree	03.08.15
Created:	d.andree	03.08.15
Changed:	d.andree	04.08.15

133666 00

VENTAS VENTILATORER

DATA SHEET

EM 400 EC 01 | 133668



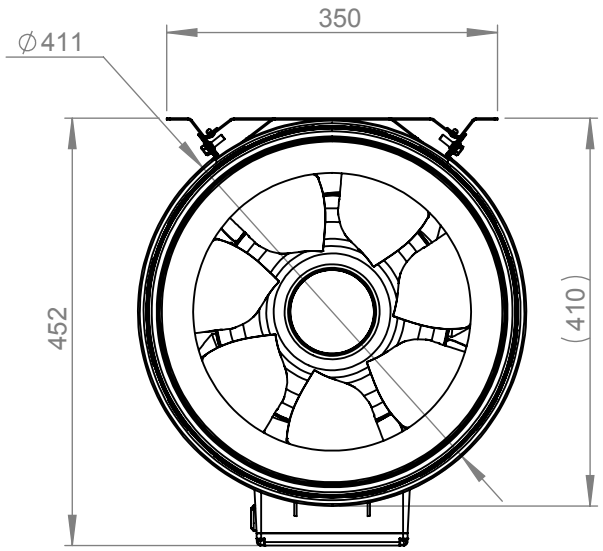
— **ErP compliant range**

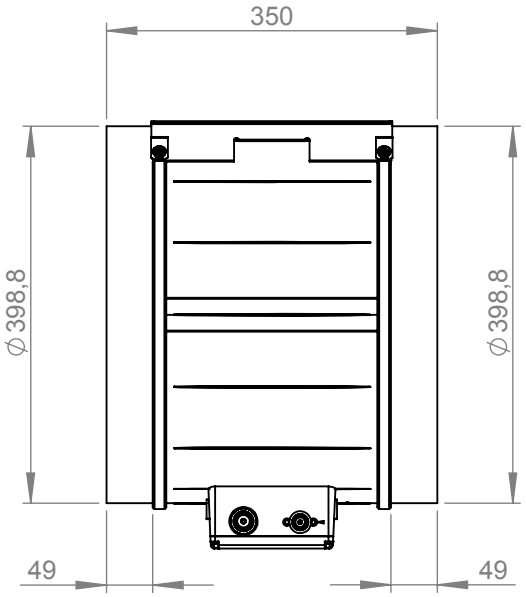
- Diagonal impeller with downstream three-dimensional guide vanes
- EC motor
- Integrated electronic
- Stepless speed control
- Internal electronic temperature monitoring
- Plastic housing
- Including mounting bracket
- incl. 1x potentiometer for connection in terminal box

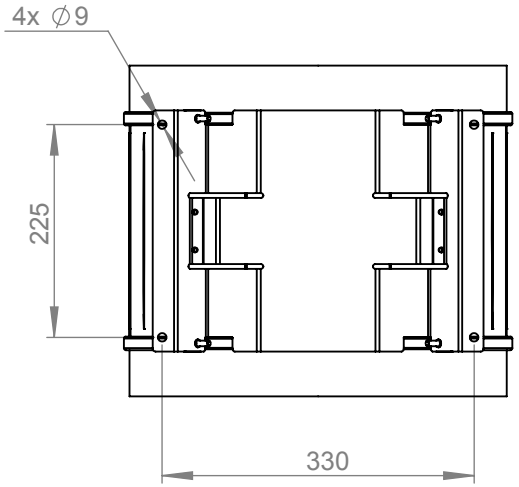
		Operating Point	1	2	3	4	5
Current I	A		3,2	3,1	3,2	3,2	3,2
Power consumption P_1	W		721	719	727	726	727
Rotation speed n	1/min		2559	2610	2287	2347	2479
SWL inlet L_{WA5}	dB(A)		89	86	81	79	82
SWL outlet L_{WA6}	dB(A)		92	90	86	85	86
SWL housing break out L_{WA2}	dB(A)		70	69	64	58	62

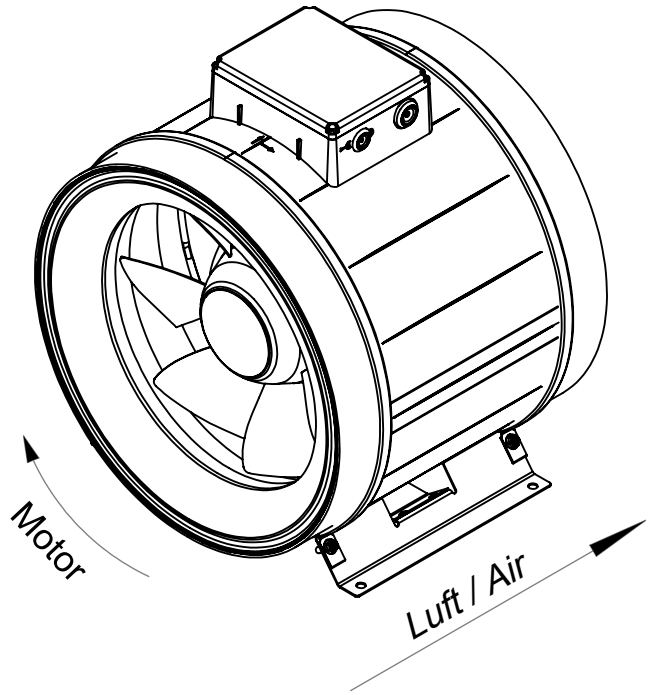
Sound power (L_W) dB(A)		Medium Frequency Band								
		Σ	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Inlet	L_{WA5}	81	43	57	71	75	76	74	71	64
Outlet	L_{WA6}	86	46	59	74	81	82	77	73	65
Housing radiation	L_{WA2}	63	52	52	54	58	59	51	44	38

EM 400 EC 01 | 133668	
Voltage U_N	230 V 1~
Current I_{max}	3,4 A
Ambient temperature t_A	60 °C
Conveyed medium temperature t_M	60 °C
Speed Control	0-10V
Motor protection	TEC
Insulation class motor	B
Weight	11,7 kg
Number of poles	-
IP motor	IP20
IP terminal box	IP44
IP complete unit	IPX4
Min. operating temperature	-25 °C









ruck VENTILATOREN

ruck Ventilatoren
Max-Planck-Str. 5
D-97944 Boxberg

1:8 A4 mm

Protection Mark according to ISO16016

General tolerances DIN ISO 2768-c

Drawn:	d.andree	03.08.15
Created:	d.andree	03.08.15
Changed:	d.andree	24.11.16

EM400EC01+

133668 01

VENTAS VENTILATORER