

## prio AC

## Circular duct fans



prio 150E2

prio 160E2  
prio 200E2  
prio 250E2

- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Compact design
- Low SFP values and high efficiency
- Low sound level

**Casing**

The airtight casing (tightness class C in acc. with EN12237:2003) is manufactured from special composite material.

**Motor**

Speed-controllable external rotor motors.

**Impeller geometry**

The fans have aerodynamically optimized impellers and guide vanes with integrated external rotor motors.

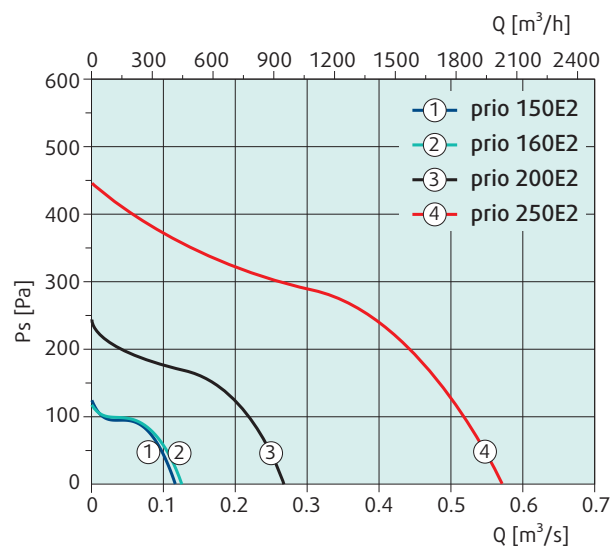
**Output control**

Speed-controllable via stepless thyristor or 5-step transformer.

**Motor protection**

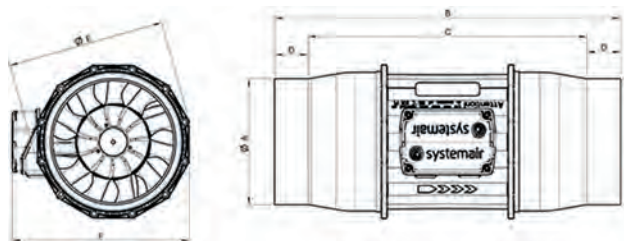
To protect the motor from overheating the fan has integrated thermal contacts with manual reset in acc. with EN 60335-2-80.

You can find more information in our online catalogue on [www.systemair.com](http://www.systemair.com)

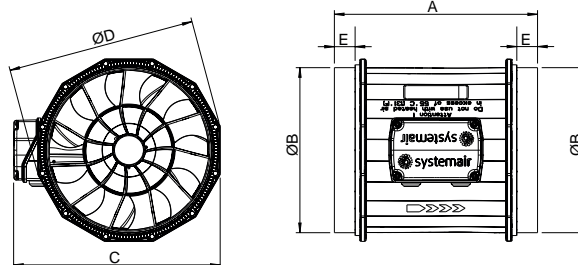
**Accessories**CB  
Duct heater  
Page 369CBM  
Duct heater  
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Filter cassette  
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Fast clamp  
Page 364IGC-LI  
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Intake grid  
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Silencer  
Page 368RSK  
Back draft damper  
Page 364SG  
Protection guard  
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Louvre shutter  
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Back draft damper  
Page 366VBC  
Water heating battery  
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Water heating battery  
Page 372CWK  
Water cooling battery  
Page 374**Electrical accessories**RE / REU  
Speed control  
Page 332REE  
Speed control  
Page 333REV  
On/off switch  
Page 360**Quick selection**

## Dimensions

### prio 150E2



### prio 160E2 - 250E2



prio AC	ØA	B	C	D	ØE	F
prio 150E2	149	412	332	40	187	211

prio AC	A	ØB	C	ØD	E
prio 160E2	220	159	211	187	25
prio 200E2	245	199	249	227	25
prio 250E2	300	249	303	284	30



Space-saving: Thanks to its compact dimensions, the in-line circular duct fan can be easily integrated into the duct system. An elegant in-line solution.

## Technical data

prio AC		prio 150E2	prio 160E2	prio 200E2	prio 250E2
Art. no.		37355	36916	36381	38333
Voltage	V	1x230	1x230	1x230	1x230
Frequency	Hz	50	50	50	50
Input power (P1)	W	27.8	26.3	68	194
Current	A	0.123	0.12	0.316	0.845
Max. temperature of transported air	°C	55	55	55	55
Sound pressure level (1 m)*	dB(A)	36	31	39	44
Sound pressure level (3 m)*	dB(A)	26.5	21.5	29.5	34.5
Weight	kg	1.7	1.4	3.4	5.55
Insulation class	B	B	B	B	F
Capacitor	µF	0.7	0.7	1.5	6
Motor protection		integral	integral	integral	integral
Speed control, five-step <sup>(1)</sup>	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low <sup>(1)</sup>	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless <sup>(1)</sup>	electr.	REE 1	REE 1	REE 1	REE 1

(\*) Free field conditions

(1) Systemair recommendation.

## prio AC

## Circular duct fans

prio 315  
prio 355

prio 400

- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Compact design
- Low SFP values and high efficiency
- Low sound level

**Casing**

Airtight casing, manufactured from sheet metal.

**Motor**

Speed-controllable external rotor motors

**Impeller geometry**

The fans have aerodynamically optimized impellers and guide vanes with integrated external rotor motors.

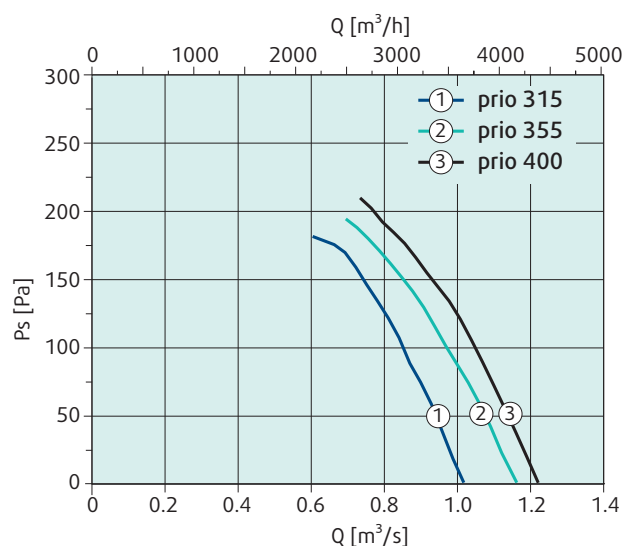
**Output control**

Speed-controllable via stepless thyristor or 5-step transformer.

**Motor protection**

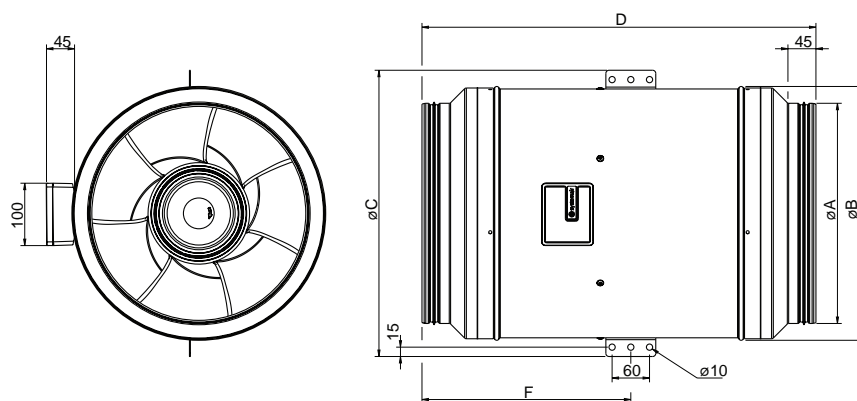
Integrated thermal contacts in accordance with EN60335-2-80, with manual reset.

You can find more information in our online catalogue on [www.systemair.com](http://www.systemair.com)

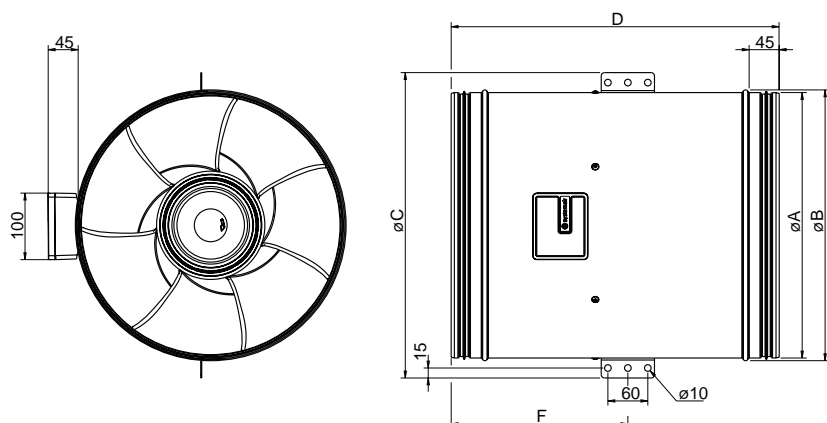
**Accessories****CB**  
Duct heater  
Page 369**CBM**  
Duct heater  
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Filter cassette  
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Filter cassette  
Page 366**FK**  
Fast clamp  
Page 364**IGC-LI**  
Intake grid  
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Water cooling battery  
Page 374**Electrical accessories****RE / REU**  
Speed control  
Page 332**REE**  
Speed control  
Page 333**REV**  
On/off switch  
Page 360**Quick selection**

## Dimensions

### prio 315 - 355



### prio 400



prio AC	øA	øB	øC	D	F
prio 315	313	407	459	676	357
prio 355	353	407	459	632	335
prio 400	399	407	459	493	266

## Technical data

prio AC		prio 315	prio 355	prio 400
Art. no.		93267	93268	93269
Voltage	V	1x230	1x230	1x230
Frequency	Hz	50	50	50
Input power (P1)	W	332	326	332
Current	A	1.76	1.74	1.74
Max. temperature of transported air	°C	50	50	50
* when speed-controlled	°C	50	50	50
Sound pressure level (1 m)*	dB(A)	54.1	48.1	47
Sound pressure level (3 m)*	dB(A)	44.6	38.6	37,5
Weight	kg	19	18.7	15.5
Insulation class	F	F	F	F
Capacitor	µF	6	6	6
Motor protection		integral	integral	integral
Speed control, five-step <sup>(1)</sup>	Transf.	RTRE 3	RTRE 3	RTRE 3
Speed control, five-step high/low <sup>(1)</sup>	Transf.	REU 3	REU 3	REU 3
Speed control, stepless <sup>(1)</sup>	electr.	REE 2	REE 2	REE 2

(\*) Free field conditions (

<sup>1)</sup> Systemair recommendation.

## prio AC

prio 450  
prio 500

- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Compact design
- Low SFP values and high efficiency
- Low sound level

## Accessories

**CB**  
Duct heater  
Page 369**CBM**  
Duct heater  
Page 370**FFR**  
Filter cassette  
Page 367**FGR**  
Filter cassette  
Page 366**FK**  
Fast clamp  
Page 364**IGC-LI**  
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Intake grid  
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Water heating battery  
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Water heating battery  
Page 372**CWK**  
Water cooling battery  
Page 374

## Electrical accessories

**RE / REU**  
Speed control  
Page 332**REE**  
Speed control  
Page 333**REV**  
On/off switch  
Page 360**FRQ**  
Frequency inverter  
Page 338

## Circular duct fans

## Casing

Airtight casing, manufactured from galvanized sheet metal.

## Motor

Speed-controllable external rotor motors

## Impeller geometry

The fan has an external rotor motor with a new type of mixed flow impeller which reduces the external dimensions of the fan.

## Output control

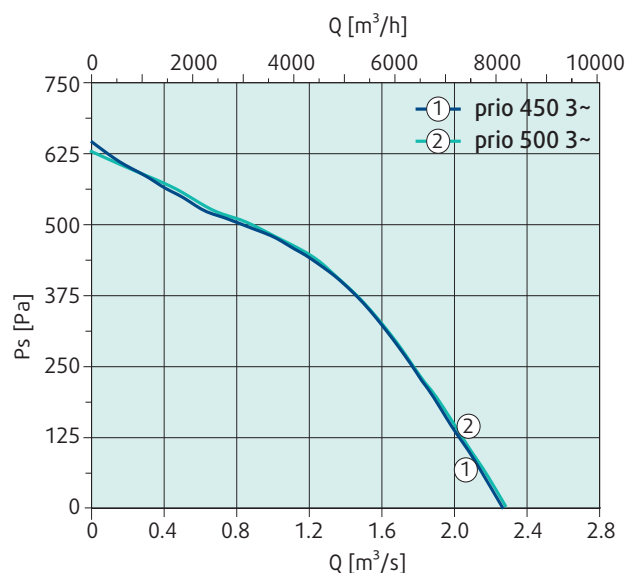
Speed-controllable via stepless thyristor or 5-step transformer.

## Motor protection

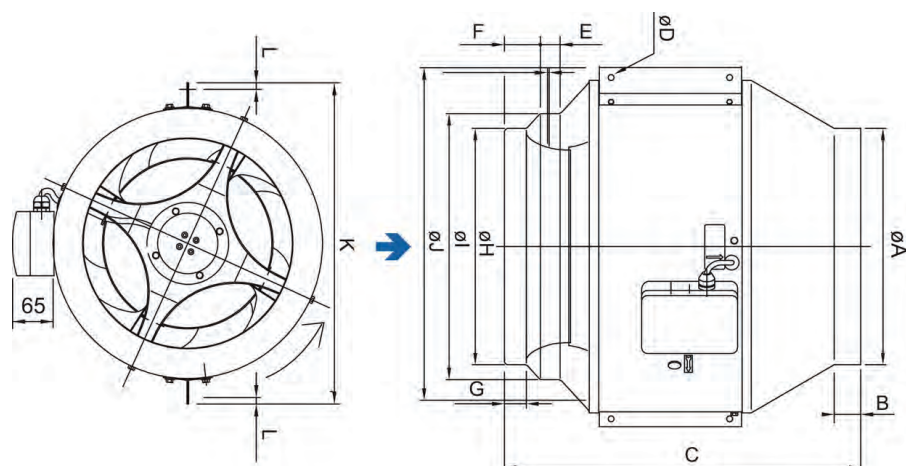
Integrated thermal contacts with leads to a motor protection device.

You can find more information in our online catalogue on [www.systemair.com](http://www.systemair.com)

## Quick selection



## Dimensions



prio AC	$\varnothing A$	B	C	$\varnothing D$ (x4)	E	F	G	$\varnothing H$	$\varnothing I$	$\varnothing J$	K	L
prio 450 3~	450	46	686	12	45	76	50	450	500	660	812	18.5
prio 500 3~	500	46	643	12	45	76	50	450	500	660	812	18.5

## Technical data

prio AC		prio 450 3~	prio 500 3~
Art. no.		145917	145918
Voltage	V	3x400	3x400
Frequency	Hz	50	50
Input power (P1)	W	1357	1345
Current	A	3.12	3.1
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level (1 m)*	dB(A)	60.4	58.7
Sound pressure level (3 m)*	dB(A)	50.9	49.2
Weight	kg	35.2	34.7
Insulation class		F	F
Motor protection		STDT 16	STDT 16
Speed control, five-step <sup>(1)</sup>	Transf.	RTRD 4	RTRD 4
Speed control, five-step high/low <sup>(1)</sup>	Transf.	RTRDU 4	RTRDU 4
Speed control, stepless <sup>(1)</sup>	electr.	-	-

(\*) Free field conditions

(1) Systemair recommendation.

## prio EC

## EC Circular duct fans



prio 150EC

prio 160EC  
prio 200EC  
prio 250EC  
prio 250EC-L

- EC-motors, high level of efficiency
- Speed-controllable
- Integrated motor protection
- Can be installed in any position
- Compact design and low sound level
- Potentiometer included for ease of commissioning

**Casing**

Airtight, compact casing made from a composite material (PP TD20). Leakage rate compliant with tightness class C, according to EN 12237:2003.

**Motor**

Energy-saving, highly efficient EC external rotor motors.

**Impeller geometry**

The fans have aerodynamically optimized impellers and guide vanes with integrated external rotor motors.

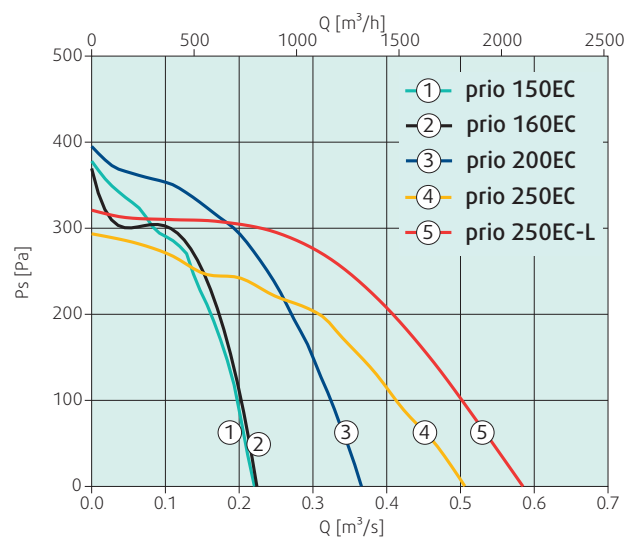
**Output control**

100 % controllable via a 0-10 V signal.

**Motor protection**

The motor protection is integrated in the motor electronics.

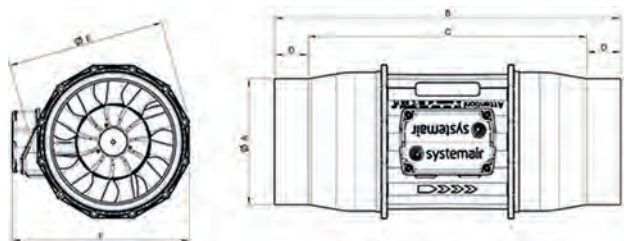
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**Accessories****CB**  
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Water heating battery  
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Water cooling battery  
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Room unit  
Page 342**MTP**  
Speed control  
Page 336**MTV**  
Speed control  
Page 336**REV**  
On/off switch  
Page 360**Quick selection**

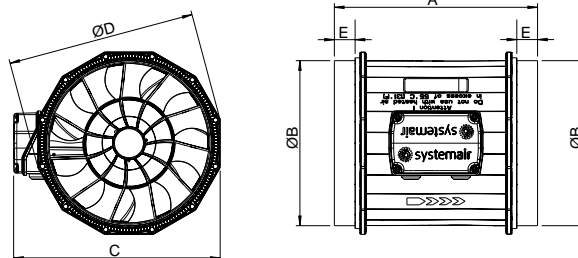


## Dimensions

### prio 150EC



### prio 160EC - 250EC-L



prio EC	ØA	B	C	D	ØE	F
prio 150EC	149	412	332	40	187	211

prio EC	A	ØB	C	ØD	E
prio 160EC	220	159	211	187	25
prio 200EC	245	199	249	227	25
prio 250EC	300	249	303	284	30
prio 250EC-L	300	249	303	284	30



Space-saving: Thanks to its compact dimensions, the in-line circular duct fan can be easily integrated into the duct system. An elegant in-line solution.

## Technical data

prio EC		prio 150EC	prio 160EC	prio 200EC	prio 250EC	prio 250EC-L
Art. no.		78184	78185	78186	78187	78188
Voltage	V	1x230	1x230	1x230	1x230	1x230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Input power (P1)	W	75.7	77.1	117	124	170
Current	A	0.642	0.659	0.921	0.901	1.34
Max. temperature of transported air	°C	55	55	55	55	55
Sound pressure level (1 m)*	dB(A)	44	43	48	42	46
Sound pressure level (3 m)*	dB(A)	34.5	33.5	38.5	32.5	36.5
Weight	kg	1.9	1.6	2.4	3.1	3.8
Insulation class		B	B	B	B	B
Motor protection		integral	integral	integral	integral	integral
Speed control, stepless <sup>(1)</sup>	electr.	MTP 10	MTP 10	MTP 10	MTP 10	MTP 10

(\*) Free field conditions

(1) Systemair recommendation.



## prio EC

## EC Circular duct fans



prio 355EC

prio 315EC  
prio 400EC  
prio 400EC 3~

- High efficiency and low SFP in a real working point
- Compact design and low sound level
- Airtight design
- Potentiometer included for ease of commissioning
- Simple to install, mounting brackets included
- Integrated motor protection

**Casing**

Airtight, compact casing made from sheet metal.

Leakage rate compliant with tightness class C, according to EN 12237:2003.

**Motor**

Energy-saving, highly efficient EC external rotor motors.

**Impeller geometry**

The fans have aerodynamically optimized impellers and guide vanes with integrated external rotor motors.

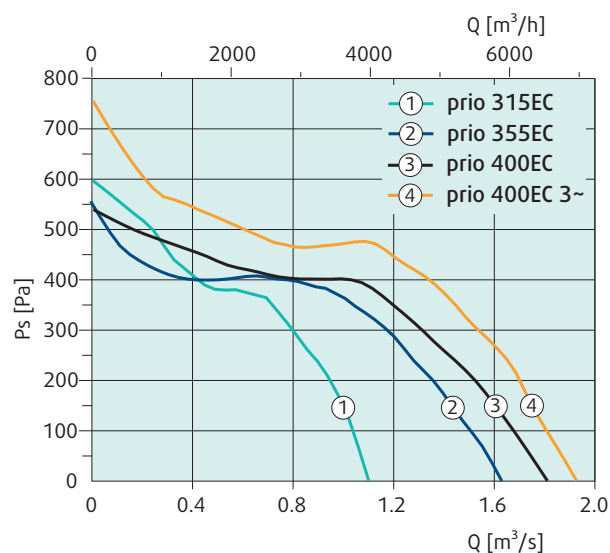
**Output control**

100 % controllable via a 0-10 V signal.

**Motor protection**

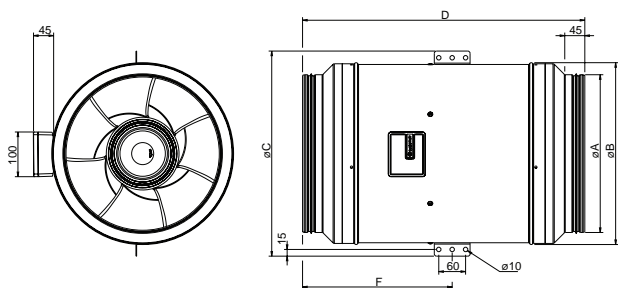
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on [www.systemair.com](http://www.systemair.com)

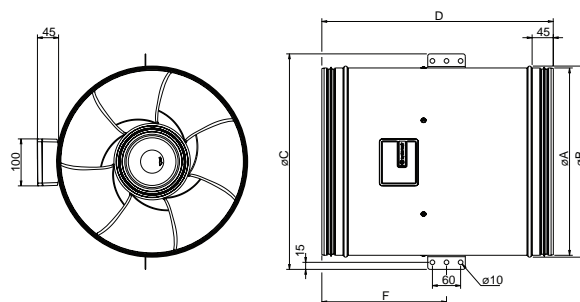
**Accessories**CB  
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Louvre shutter  
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Water heating battery  
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Water cooling battery  
Page 374**Electrical accessories**EC-Vent  
Room unit  
Page 342MTP  
Speed control  
Page 336MTV  
Speed control  
Page 336REV  
On/off switch  
Page 360**Quick selection**

## Dimensions

### prio 355EC



### prio 315EC, 400EC, 400EC-L



prio EC	ØA	ØB	ØC	D	F
prio 355EC	353	407	459	632	335

prio EC	ØA	ØB	ØC	D	F
prio 315EC	314	322	375	407	205
prio 400EC	399	407	459	493	266
prio 400EC 3~	399	407	459	493	266

## Technical data

prio EC		prio 315 EC	prio 355 EC	prio 400 EC	prio 400 EC 3~
Art. no.		87795	87999	87979	93266
Voltage	V	1x230	1x230	1x230	3x400
Frequency	Hz	50/60	50/60	50/60	50/60
Input power (P1)	W	528	738	748	1168
Current	A	2.32	3.24	3.26	1.8
Max. temperature of transported air	°C	55	55	55	55
* when speed-controlled	°C	55	55	55	55
Sound pressure level (1 m)*	dB(A)	52.5	55.9	54.5	55.2
Sound pressure level (3 m)*	dB(A)	43.0	46.4	45	45.7
Weight	kg	8.52	15.3	13.4	13.3
Insulation class		F	F	F	F
Motor protection		Integral	Integral	Integral	Integral
Speed control, stepless <sup>(1)</sup>	electr.	MTP 10	MTP 10	MTP 10	MTP 10

(\*) Free field conditions

(1) Systemair recommendation.

## prio EC

## EC Circular duct fans

prio 450 EC  
prio 500 EC

- EC-motors, high level of efficiency
- Speed-controllable
- Integrated motor protection
- Supplied with mounting bracket
- Potentiometer included for ease of commissioning

**Casing**

Airtight, compact casing made from galvanized steel.  
Leakage rate compliant with tightness class C, according to EN 12237:2003.

**Motor**

Energy-saving, highly efficient EC external rotor motors.

**Impeller geometry**

The fan has a mixed flow impeller which reduces the external dimensions of the fan

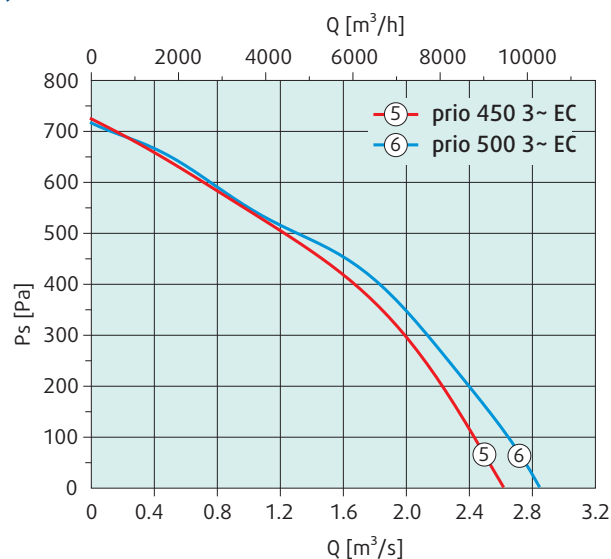
**Output control**

100 % controllable via a 0-10 V signal.

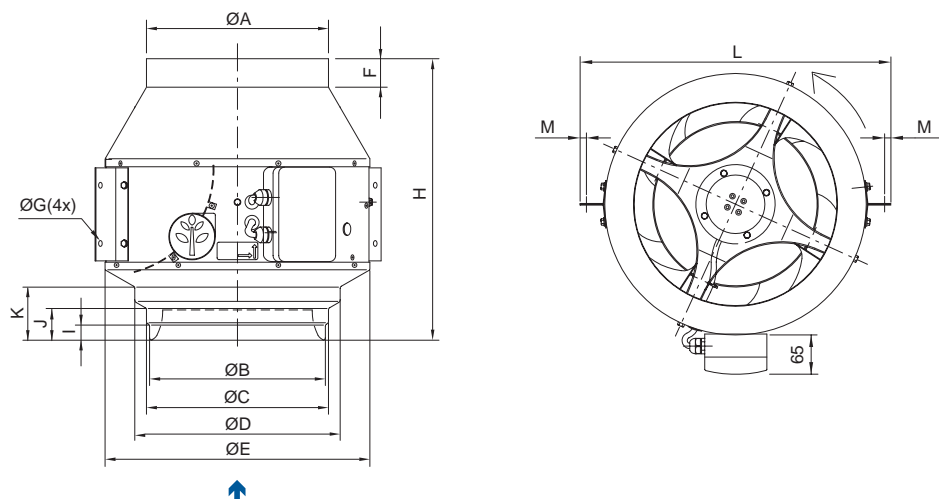
**Motor protection**

The motor protection is integrated in the motor electronics.

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**Accessories****CB**  
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Page 342**MTP**  
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On/off switch  
Page 360**Quick selection**

## Dimensions



prio EC	$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	$\varnothing E$	F	$\varnothing G$	H	I	J	K	L	M
prio 450 3~ EC	450	-	450	500	663	46	12	686	-	50	121	742	9
prio 500 3~ EC	500	-	450	500	663	46	12	642	-	50	121	742	9

## Technical data

prio EC		prio 450 3~ EC	prio 500 3~ EC
Art. no.		11562	11563
Voltage	V	3x400	3x400
Frequency	Hz	50/60	50/60
Input power (P1)	W	1872	1848
Current	A	2.91	2.83
Max. temperature of transported air	°C	40	40
* when speed-controlled	°C	60	60
Sound pressure level (1 m)*	dB(A)	65.3	64.1
Sound pressure level (3 m)*	dB(A)	55.8	54.6
Weight	kg	28.6	28.2
Insulation class		F	F
Motor protection		Integral	Integral
Speed control, stepless <sup>(1)</sup>	electr.	MTP 10	MTP 10

(\*) Free field conditions

(1) Systemair recommendation.

## prio Silent

## Circular duct fans



- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Compact design
- Low SFP values and high efficiency
- Acoustic foam for low sound level

**Casing**

Casing from galvanised steel. 50 mm acoustic and thermal insulation.

**Motor**

Speed-controllable external rotor motors.

**Impeller geometry**

The fans have aerodynamically optimized impellers and guide vanes with integrated external rotor motors.

**Output control**

Speed-controllable via stepless thyristor or 5-step transformer.

**Motor protection**

Integrated thermal contacts with manual reset in accordance with EN60335-2-80.

You can find more information in our online catalogue on [www.systemair.com](http://www.systemair.com)

**Accessories**

**CBM**  
Duct heater  
Page 370



**FFR**  
Filter cassette  
Page 367



**FGR**  
Filter cassette  
Page 366



**FK**  
Fast clamp  
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**IGC-LI**  
Intake grid  
Page 364



**LDC**  
Silencer  
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**RSK**  
Back draft damper  
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**SG**  
Protection guard  
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**VK**  
Louvre shutter  
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**CB / CBM**  
Electr. duct heater  
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**VKK**  
Back draft damper  
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**VBC / VBF**  
Water heating battery  
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**Electrical accessories**

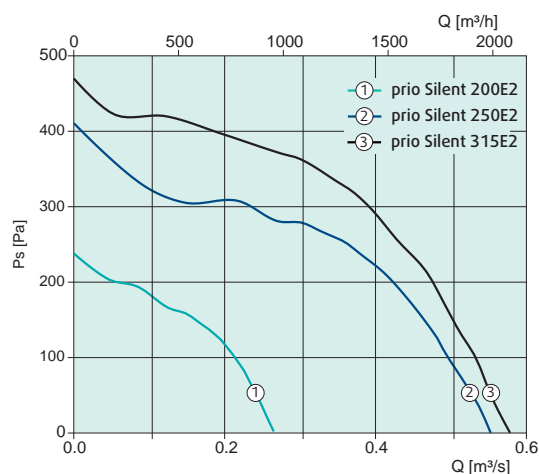
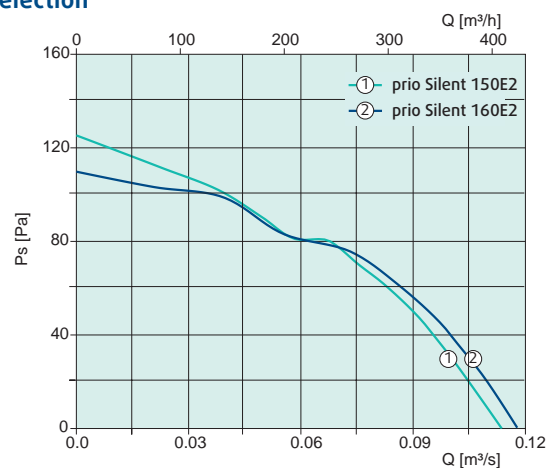
**RE / REU**  
Speed control  
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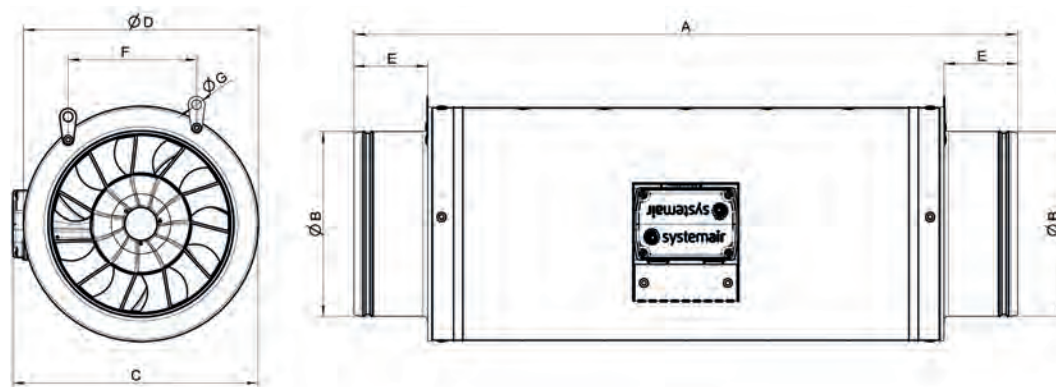
**REE**  
Speed control  
Page 333



**REV**  
On/off switch  
Page 360

**Quick selection**

## Dimensions



prio Silent	A	ØB	C	ØD	E	F	ØG
prio Silent 150E2	708	150	234	226	74	140	10.5
prio Silent 160E2	716	160	234	226	78	140	10.5
prio Silent 200E2	720	200	266	252	80	140	10.5
prio Silent 250E2	704	250	325	317	72	140	10.5
prio Silent 315E2	704	315	325	357	72	140	10.5

## Technical data

prio Silent		prio Silent 150E2	prio Silent 160E2	prio Silent 200E2
Art. no.		39483	39485	39487
Voltage	V	1x230	1x230	1x230
Frequency	Hz	50/60	50/60	50/60
Input power (P1)	W	28.1	27.6	76.1
Current	A	0.125	0.121	0.345
Max. temperature of transported air	°C	55	55	55
Sound pressure level (1 m)*	dB(A)	26	23	32
Sound pressure level (3 m)*	dB(A)	16.5	13.5	22.5
Weight	kg	5.6	5.6	7
Insulation class		B	B	B
Motor protection		Integral	Integral	Integral
Speed control, five-step <sup>(1)</sup>	Transf.	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low <sup>(1)</sup>	Transf.	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless <sup>(1)</sup>	electr.	REE 1	REE 1	REE 1

prio Silent		prio Silent 250E2	prio Silent 315E2
Art. no.		49347	93319
Voltage	V	1x230	1x230
Frequency	Hz	50/60	50/60
Input power (P1)	W	229	228
Current	A	1	0.986
Max. temperature of transported air	°C	55	55
Sound pressure level (1 m)*	dB(A)	39	39
Sound pressure level (3 m)*	dB(A)	29.5	29.5
Weight	kg	11.5	12.7
Insulation class		B	B
Motor protection		Integral	Integral
Speed control, five-step <sup>(1)</sup>	Transf.	RE 1.5	RE 1.5
Speed control, five-step high/low <sup>(1)</sup>	Transf.	REU 1.5	REU 1.5
Speed control, stepless <sup>(1)</sup>	electr.	REE 1	REE 1

(\*) Free field conditions

(\*\*) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

(1) Systemair recommendation.



## prio Silent EC



- EC-motors, high level of efficiency
- Low SFP values
- Speed-controllable
- Integrated motor protection
- Can be installed in any position
- Acoustic foam for low sound level
- Potentiometer included for ease of commissioning

## Accessories



**CBM**  
Duct heater  
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**FFR**  
Filter cassette  
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**FGR**  
Filter cassette  
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**FK**  
Fast clamp  
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**IGC-LI**  
Intake grid  
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**LDC**  
Silencer  
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**RSK**  
Back draft damper  
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**SG**  
Protection guard  
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**VK**  
Louvre shutter  
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**CB / CBM**  
Electr. duct heater  
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**VKK**  
Back draft damper  
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**VBC / VBF**  
Water heating battery  
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## Electrical accessories



**EC-Vent**  
Room unit  
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**MTP**  
Speed control  
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**MTV**  
Speed control  
Page 336



**REV**  
On/off switch  
Page 360

## EC Circular duct fans

## Casing

Casing from galvanised steel. 50 mm acoustic and thermal insulation.

## Motor

Energy-saving, highly efficient EC external rotor motors.

## Impeller geometry

The fans have aerodynamically optimized impellers and guide vanes with integrated external rotor motors.

## Output control

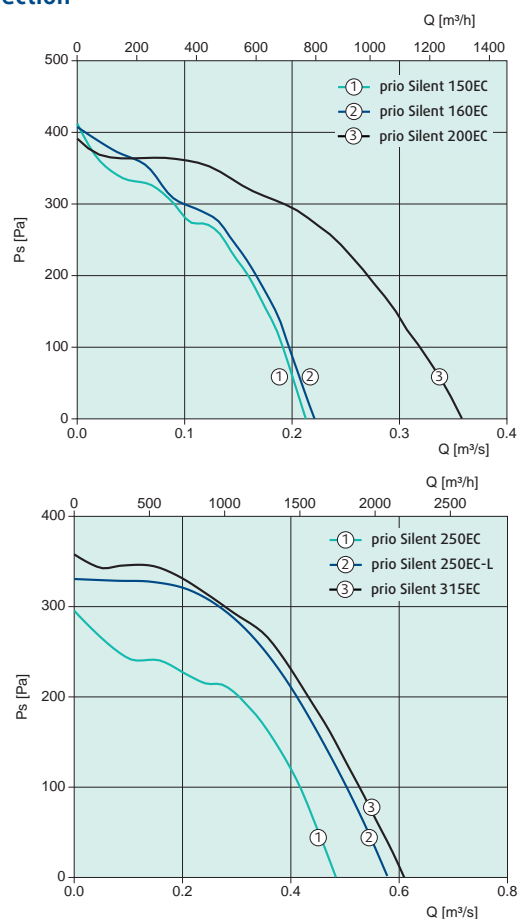
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box and preset to 10 V (factory setting). The speed can be easily adjusted should the installation require a different operating point.

## Motor protection

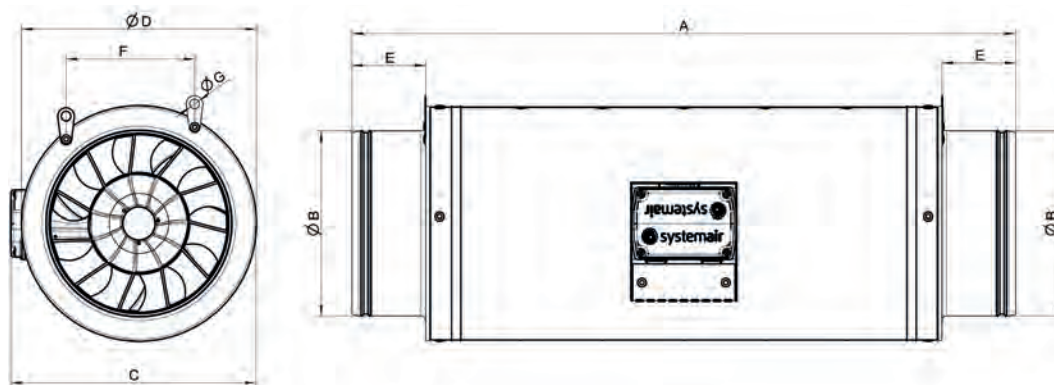
Integrated thermal contacts with manual reset in accordance with EN60335-2-80.

You can find more information in our online catalogue on [www.systemair.com](http://www.systemair.com)

## Quick selection



## Dimensions



prio Silent EC	A	B	C	D	E	F	G
prio Silent 150EC	708	150	234	226	74	140	10.5
prio Silent 160EC	716	160	234	226	78	140	10.5
prio Silent 200EC	720	200	266	252	80	140	10.5
prio Silent 250EC	704	250	325	317	72	140	10.5
prio Silent 250EC-L	704	250	325	317	72	140	10.5
prio Silent 315EC	704	315	325	357	72	140	10.5

## Technical data

prio Silent EC		prio Silent 150EC	prio Silent 160EC	prio Silent 200EC
Art. no.		39484	39486	39488
Voltage	V	1x230	1x230	1x230
Frequency	Hz	50/60	50/60	50/60
Input power (P1)	W	80.8	82.8	124
Current	A	0.684	0.692	0.968
Max. temperature of transported air	°C	55	55	55
Sound pressure level (1 m)*	dB(A)	34	37	42
Sound pressure level (3 m)*	dB(A)	24.5	27.5	32.5
Weight	kg	5.6	5.7	7.1
Insulation class		B	B	B
Control type		Stepless	Stepless	Stepless
Motor protection		Integral	Integral	Integral
Speed control, stepless <sup>(1)</sup>		MTP 10	MTP 10	MTP 10

prio Silent EC		prio Silent 250EC	prio Silent 250EC-L	prio Silent 315EC
Art. no.		49348	49349	93323
Voltage	V	1x230	1x230	1x230
Frequency	Hz	50/60	50/60	50/60
Input power (P1)	W	124	173	167
Current	A	0.874	1.37	1.16
Max. temperature of transported air	°C	55	55	55
Sound pressure level (1 m)*	dB(A)	36	40	39
Sound pressure level (3 m)*	dB(A)	26.5	30.5	29.5
Weight	kg	9.6	9.9	12.8
Insulation class		B	B	B
Control type		Stepless	Stepless	Stepless
Motor protection		Integral	Integral	Integral
Speed control, stepless <sup>(1)</sup>		MTP 10	MTP 10	MTP 10

(\*) Free field conditions

(\*\*) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

<sup>(1)</sup> Systemair recommendation.