

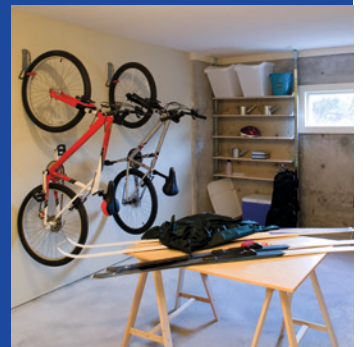
Fans for small
and medium-sized rooms

ipro
ECA 100

ipro
ECA 150

ECA piano

ECA 120



The ECA ventilation talents – equipped for the most diverse requirements



The clever way to ventilate – more efficient – more variable – more effective

- Operating programmes tailored to the respective area of application
- Individual start delays and overrun times that can be set by the user
- Numerous control variants available
- Fully automatic 2-stage humidity control with version H
- Barrier-free ventilation with various models
- The ECA 100 ipro and 150 ipro impress with their low power consumption. The ECA 100 ipro consumes even less energy than an energy-saving lamp.



The product range **ECA 100 ipro / ECA 150 ipro**



Variable programming

Whether for domestic bathrooms, hotel rooms, WCs, fitness or waiting rooms – with the ECA 100 ipro and ECA 150 ipro product range, the right ventilation levels and intervals are available for every room type thanks to adjustable operating programmes. The right ventilation programme is set by the installer when the fan is installed.

Customised settings

Homeowners or tenants can set the start delay and overrun time of the fan to their individual requirements. With the help of buttons, handling is uncomplicated and the settings can be changed quickly and conveniently at any time.

Suitable selection

The fans are available in different control variants – from the standard version to light control and motion detectors. Depending on the respective application, it is already possible to select the optimum fan during the planning phase.

4 operating programmes for different areas of application

ECA 100 ipro and ECA 150 ipro



Pre-settings of the installer

The ECA 100 ipro and ECA 150 ipro fans have four operating programs optimised for the respective area of application, which are set in advance by the installer. In addition, there are two ventilation levels that are controlled fully automatically according to the programmes.

ECA 100 ipro

Ventilation level 1: Air flow volume of **78 m³/h**

Ventilation level 2: Air flow volume of **92 m³/h**

ECA 150 ipro

Ventilation level 1: Air flow volume of **200 m³/h**

Ventilation level 2: Air flow volume of **250 m³/h**



Comfort programme

“Quiet and intensive ventilation” e.g. with ECA 100 ipro for the bathroom or ECA 150 ipro for the utility room

Level 1: Quiet ventilation – when using the bathroom

Level 2: Intensive ventilation – during the overrun time



Savings programme

“Economical ventilation” e.g. for storage rooms with ECA 100 ipro or ECA 150 ipro

Level 1: Permanent quiet ventilation



Night programme

“Intensive and quiet ventilation” e.g. with ECA 100 ipro for hotel rooms or ECA 150 ipro for workshops

Level 2: Intensive ventilation – when using the bathroom

Level 1: Quiet ventilation – during the overrun time



Power programme

“Permanent intensive ventilation” e.g. for sauna anterooms

Level 2: Intensive demand-driven ventilation

The experts with high-tech humidity control

ECA 100 ipro H and ECA 150 ipro H



Fully automatic humidity control with two ventilation levels

If the humidity rises by more than 7 %, the fan switches on and runs in level 1. The humidity now measured is saved as a reference value. If the humidity then rises by a further 5 %, the fan switches fully automatically to level 2. If the value falls below the reference value in level 1 or level 2, the fan first automatically switches to overrun operation and then finally switches off according to the set time. Suitable for bathrooms and sauna rooms with relatively rapidly rising humidity.

The ECA control variants for all ipro versions

With adjustable individual ventilation times

All types with start delay or overrun time have two buttons behind the design cover with which these times can be set to individual requirements.



ECA ... H with humidity control *

Fan extracts air automatically depending on room humidity at level 1 or 2
Start delay adjustable
0 / 50 / 90 / 120 sec.



ECA ... standard model

On/off via light switch or separate switch



ECA ... B with motion detector *

No start delay
Overrun adjustable 0 / 8 / 17 / 25 min.



ECA ... VZC with adjustable time delay switch and overrun

Start delay adjustable
0 / 50 / 90 / 120 sec.
Overrun adjustable 0 / 8 / 17 / 25 min.



ECA ... RC with radio receiver

On / Off via DS RC radio switch and selection of level 1 or level 2 or via separate RLS RC control



ECA 100 ipro F with light control *

Automatic switching on and off via light sensor
Switch-on brightness 30 Lux
Switch-off brightness 1.7 Lux
Start delay adjustable
0 / 50 / 90 / 120 sec.
Overrun adjustable 0 / 8 / 17 / 25 min.



ECA ... RCH with radio receiver and humidity control

Fan extracts air automatically depending on room humidity at level 1 or 2
On/off via DS RC radio switch or via separate RLS RC control.

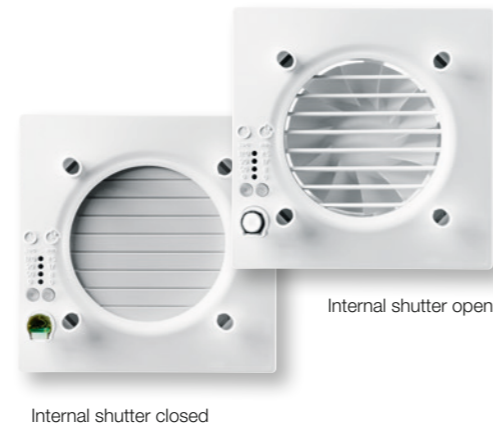
* Barrier-free products

Perfect equipment – matching accessories

Technical details

ECA ipro K with electric internal shutter

All ECA fans are also available in versions with an electric internal shutter. Advantage: In cold weather, almost all the heat remains in the room. The internal shutter only opens when the fan is in operation.



Operation with radio switch

A number of ECA-ipro fans are equipped with radio receivers and are operated with the DS RC radio switch. This eliminates the need for a control cable to the fan.

- ECA 100 ipro RC ECA 150 RC
- ECA 100 RCH ECA 150 RCH
- ECA 150 KRC
- ECA 150 KRCH



All ECA ipro variants at a glance

From standard model to radio receiver

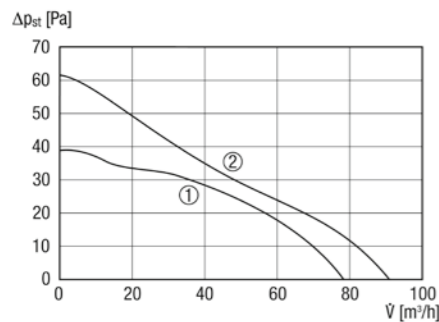
ECA 100 ipro technical data

Article	Article no.	Version	UNominal voltage/frequency 50 Hz V	Conveying volume m³/h	Power consumption W	I _{Max} A	T _{Max} with I _{Max} °C	Sound press. level dB(A)	Degree of protection IP	Mains cable mm²
ECA 100 ipro	0084.0200	Standard model	230	78/92	6/8	0.06	40	27/32 ¹⁾	X5	5 x 1.5
ECA 100 ipro VZC	0084.0201	Adjustable start delay and overrun time	230	78/92	6/8	0.06	40	27/32 ¹⁾	X5	5 x 1.5
ECA 100 ipro F	0084.0202	Light control	230	78/92	6/8	0.06	40	27/32 ¹⁾	X5	3 x 1.5
ECA 100 ipro H	0084.0203	Humidity control	230	78/92	6/8	0.06	40	27/32 ¹⁾	X5	3 x 1.5 ²⁾
ECA 100 ipro B	0084.0204	Motion detector	230	78/92	6/8	0.06	40	27/32 ¹⁾	X5	3 x 1.5
ECA 100 ipro RC	0084.0210	Radio receiver	230	78/92	6/8	0.06	40	27/32 ¹⁾	X5	3 x 1.5
ECA 100 ipro RCH	0084.0211	Radio receiver and humidity control	230	78/92	6/8	0.06	40	27/32 ¹⁾	X5	3 x 1.5
with electric internal shutter										
ECA 100 ipro K	0084.0205	Standard model	230	78/92	10/13	0.08	40	27/32 ¹⁾	X5	5 x 1.5
ECA 100 ipro KVZC	0084.0206	Adjustable start delay and overrun time	230	78/92	10/13	0.08	40	27/32 ¹⁾	X5	5 x 1.5
ECA 100 ipro KF	0084.0207	Light control	230	78/92	10/13	0.08	40	27/32 ¹⁾	X5	3 x 1.5
ECA 100 ipro KH	0084.0208	Humidity control	230	78/92	10/13	0.08	40	27/32 ¹⁾	X5	3 x 1.5 ²⁾
ECA 100 ipro KB	0084.0209	Motion detector	230	78/92	10/13	0.08	40	27/32 ¹⁾	X5	3 x 1.5

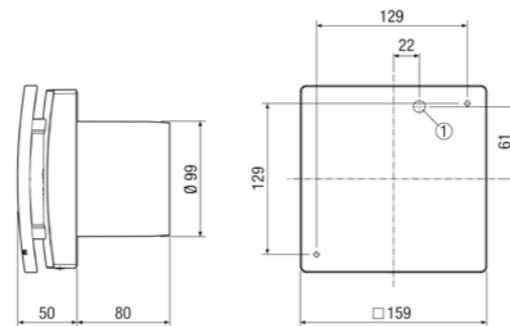
¹⁾ Distance 3 m, free field conditions

²⁾ 5 x 1.5 if a manual switch is set in addition to the automatic humidity control

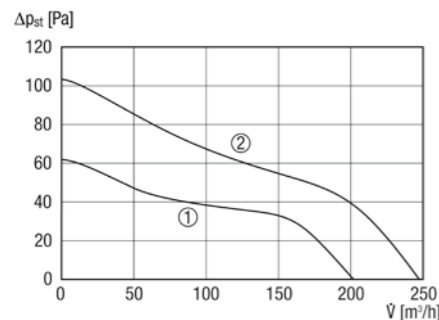
ECA 100 ipro characteristic curve



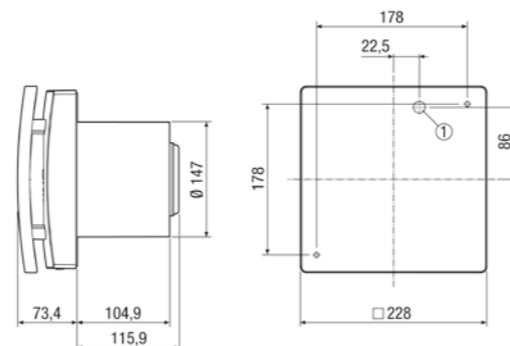
ECA 100 ipro dimensional drawing (mm)



ECA 150 ipro characteristic curve



ECA 150 ipro dimensional drawing (mm)



ECA 150 ipro technical data

Article	Article no.	Version	UNominal voltage/frequency 50 Hz V	Conveying volume m³/h	Power consumption W	I _{Max} A	T _{Max} with I _{Max} °C	Sound press. level dB(A)	Degree of protection IP	Mains cable mm²
ECA 150 ipro	0084.0085	Standard model	230	200/250	15/19	0.09	40	33/40 ¹⁾	X5	5 x 1.5
ECA 150 ipro VZC	0084.0086	Adjustable start delay and overrun time	230	200/250	15/19	0.09	40	33/40 ¹⁾	X5	5 x 1.5
ECA 150 ipro H	0084.0089	Humidity control	230	200/250	15/19	0.09	40	33/40 ¹⁾	X5	3 x 1.5 ²⁾
ECA 150 ipro B	0084.0090	Motion detector	230	200/250	15/19	0.09	40	33/40 ¹⁾	X5	3 x 1.5
ECA 150 ipro RC	0084.0087	Radio receiver	230	200/250	15/19	0.09	40	33/40 ¹⁾	X5	5 x 1.5
ECA 150 ipro RCH	0084.0088	Radio receiver and humidity control	230	200/250	15/19	0.09	40	33/40 ¹⁾	X5	5 x 1.5
with electric internal shutter										
ECA 150 ipro K	0084.0091	Standard model	230	200/250	18/22	0.11	40	33/40 ¹⁾	X5	5 x 1.5
ECA 150 ipro KVZC	0084.0092	Adjustable start delay and overrun time	230	200/250	18/22	0.11	40	33/40 ¹⁾	X5	5 x 1.5
ECA 150 ipro KH	0084.0095	Humidity control	230	200/250	18/22	0.11	40	33/40 ¹⁾	X5	3 x 1.5 ²⁾
ECA 150 ipro KB	0084.0096	Motion detector	230	200/250	18/22	0.11	40	33/40 ¹⁾	X5	3 x 1.5
ECA 150 ipro KRC	0084.0093	Radio receiver	230	200/250	18/22	0.11	40	33/40 ¹⁾	X5	3 x 1.5
ECA 150 ipro KRCH	0084.0094	Radio receiver and humidity control	230	200/250	18/22	0.11	40	33/40 ¹⁾	X5	3 x 1.5

¹⁾ Distance 3 m, free field conditions

²⁾ 5 x 1.5 if a manual switch is set in addition to the automatic humidity control

The ECA specialists – the right choice for different applications



The clever way to ventilate – more efficient – more variable – more effective

The particularly quiet 'ECA piano' fans promise a pleasant quiet in the bathroom and with the automatic humidity control, individual ventilation times can also be realised. The 'ECA piano' fans have an air flow volume of 80 m³/h and are therefore ideal for extracting air from bathrooms, WCs and storerooms.

The ECA 120 and ECA 120 K fans primarily cover a delivery volume range of up to 180 m³/h. Suitable for reliable air extraction from hobby rooms and sauna anterooms or garages, clubhouses and small workshops.



The product ranges

ECA piano, ECA 120 and ECA 120 K



ECA piano

ECA 120

ECA 120 K

The ECA control variants

ECA piano



**ECA piano
Standard model**
On/off via light switch or
separate switch



**ECA piano TC with
adjustable overrun time**
The overrun time can be adjusted from
approx 3 min. to approx. 25 min.



ECA piano H with humidity control ★
Switch-on humidity adjustable from
approx. 50 % to approx 90 % relative
humidity. Ideal for slowly increasing
humidity levels, e.g. in laundry rooms and
drying rooms

★ **Barrier-free products**

ECA 120 and ECA 120 K



ECA ... standard model
On/off via light switch or
separate switch



**ECA ... VZC with adjustable
time delay switch**
Start delay 50 sec.
Overrun adjustable 6 min.



ECA 100 ipro F with light control ★
Automatic operation via light sensor
Switch-on brightness 30 Lux
Switch-off brightness 0.3 Lux
Start delay 50 sec.
Overrun 6 min.

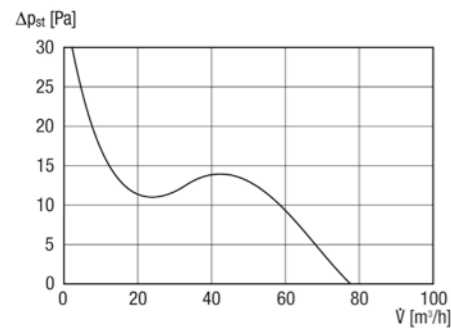


**ECA 120 24 V
Time delay switch**
Rated voltage 24 V, 50 Hz
Only use with approved safety
transformer TRE 50

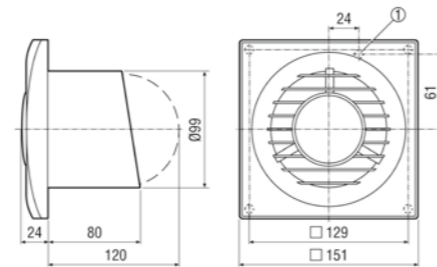
Perfect planning – Optimum ventilation

Technical details

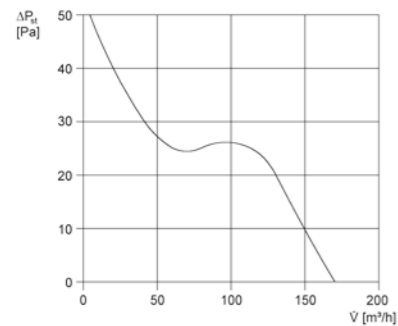
ECA piano characteristic curve



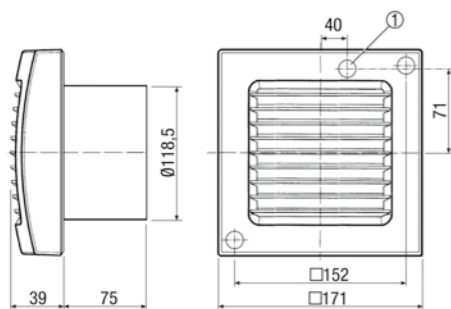
ECA piano dimensional drawing (mm)



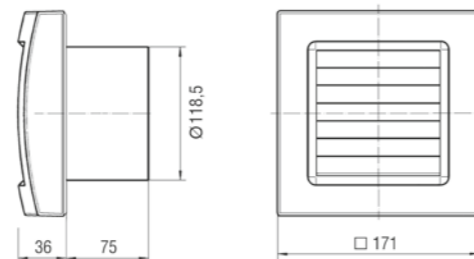
ECA 120 and 120 K characteristic curve



ECA 120 dimensional drawing (mm)



ECA 120 K dimensional drawing (mm)



All ECA piano and ECA 120 variants at a glance

From standard model to pull-cord switch

ECA 100 piano technical data

Article	Article no.	Version	U _N Nominal voltage/frequency 50/60 Hz V	Conveying volume m ³ /h	Power consumption W	I _{Max} A	T _{Max} with I _{Max} °C	Sound press. level dB(A)	Degree of protection IP	Mains cable mm ²
ECA piano Standard	0084.0080	Standard model	230	80	8	0.06	40	26 ¹⁾	X4	3 x 1.5
ECA piano TC	0084.0081	Adjustable overrun time	230	80	8	0.06	40	26 ¹⁾	X4	5 x 1.5
ECA piano H	0084.0082	Humidity control with adjustable overrun	230	80	8	0.06	40	26 ¹⁾	X4	3 x 1.5

¹⁾ Distance 3 m, free field conditions

ECA 120 and ECA 120 K technical data

Article	Article no.	Version	U _N Nominal voltage/frequency 50/60 Hz V	Conveying volume m ³ /h	Power consumption W	I _{Max} A	T _{Max} with I _{Max} °C	Sound press. level dB(A)	Degree of protection IP	Mains cable mm ²
ECA 120	0084.0006	Standard model	230	170	19	0.14	40	42 ¹⁾	45	3 x 1.5
ECA 120 VZ	0084.0007	Delay time switch	230	170	19	0.14	40	42 ¹⁾	45	5 x 1.5
ECA 120 F	0084.0008	Light control	230	170	19	0.14	40	42 ¹⁾	45	3 x 1.5
ECA 120 24 V	0084.0019	Safety low voltage	24	170	19	1.2	40	42 ¹⁾	45	3 x 1.5
with electric internal shutter										
ECA 120 K	0084.0009	Standard model	230	180	19	0.14	40	36 ¹⁾	34	3 x 1.5
ECA 120 KVZ	0084.0010	Delay time switch	230	180	19	0.14	40	36 ¹⁾	34	5 x 1.5
ECA 120 KF	0084.0011	Light control	230	180	19	0.14	40	36 ¹⁾	34	3 x 1.5

¹⁾ Distance 3 m, free field conditions

Further practical ventilation solutions from MAICO

In addition, for air extraction in small to medium-sized rooms, the **duct-mounted fans ECA 11 E and ECA 15 E** are also available.

Detailed information can be found on our homepage: www.maico-ventilatoren.com

In addition, MAICO has the new **AKE 100 ventilation system** for demand-driven dehumidification in its product range for cellars. The robust ventilation system extracts air and ventilates fully automatically and is extremely reliable.

Suitable ventilation components

System accessories

Bathroom installation example – air extraction



- ① Shutter for air extraction, AP 100
- ② Wall sleeve WH 100
- ③ Small room fan ECA 100 ipro
- ④ Door ventilation grille MLK 45

System accessories

AP... shutters



SG... external grille



WH... wall sleeve



MLK... door ventilation grille



Other accessories

DS RC radio switch



ECA-DR spacing frame



ECA 15 – EMA 16 spacing frame



ZM mounting plate



Window installation kit for the ECA 100 ipro series



FE 100/1 AP

Window installation kit with automatic external shutter



FE 100/1 SG

Window installation kit with fixed external grille



Maico Elektroapparate-Fabrik GmbH
 Steinbeisstraße 20 · 78056 Villingen-Schwenningen · Germany
 Tel.: +49 (0) 77 20 / 694-0 · info@maico.de
 www.maico-ventilatoren.com

You will find further information and the contact details of our service team staff at www.maico-ventilatoren.com

