



HAVE YOU JOINED THE  
**REVOLUTION**

REVOLUTION FANS | SILENCED FANS | EC CONTROLLERS

Issue 2

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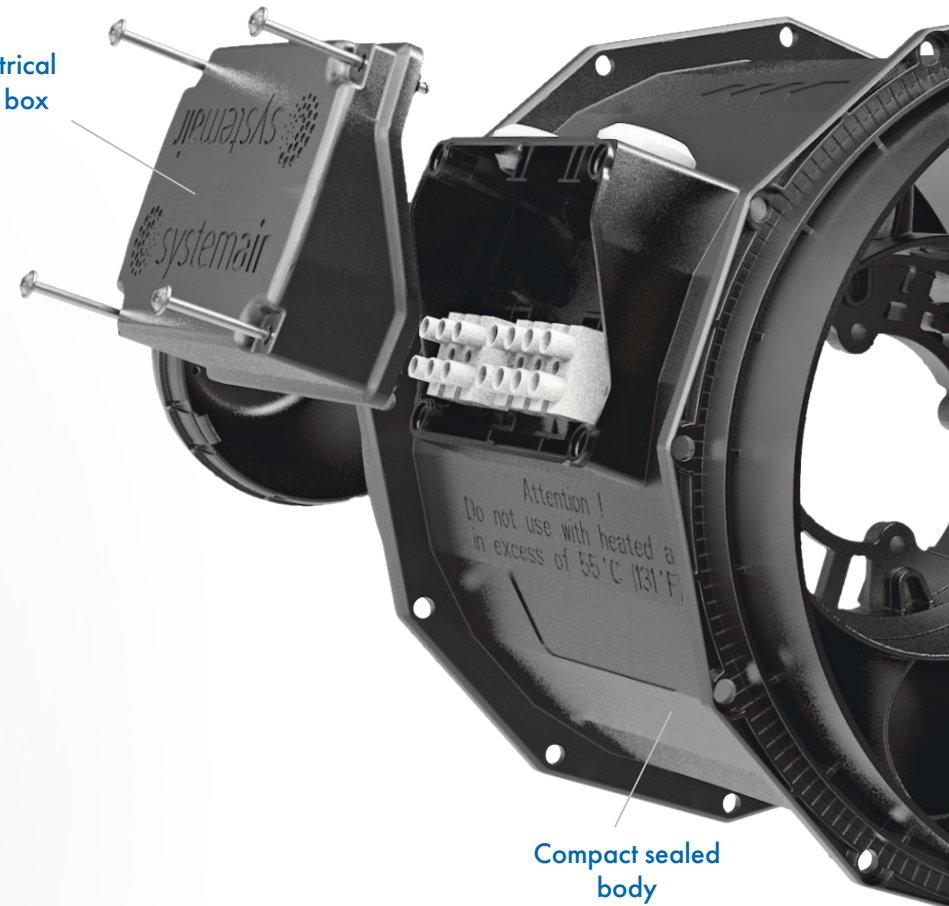


Global Air Supplies are proud to be Systemair global partners, selling and developing ventilation and environmental control products for the horticultural industry.

Established in 1974, our partners Systemair are now global leaders in ventilation technology. Systemair products follow three basic rules: simplicity, reliability and high quality – ensuring we have picked the best partners in the industry to work with. All our products are tested at Systemair and proven to work in the environment they were designed for. All our fans have German motors and are produced under strict EU rules.

# REVOLUTION FAN

Sealed electrical connection box



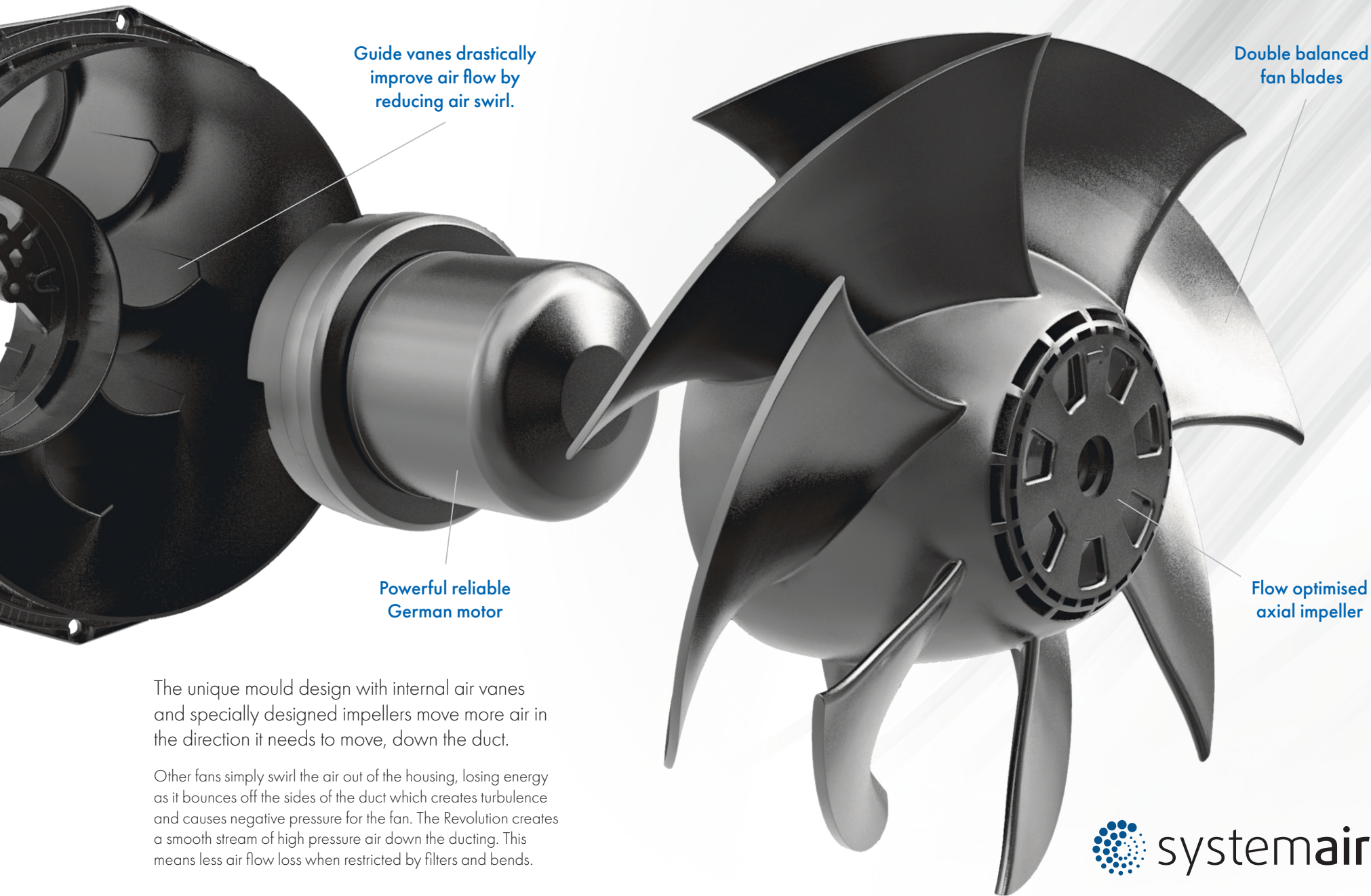
Compact sealed body

## This is not an evolution, this is the Revolution!

We have tested the Revolution and it is quieter and more efficient than any other fan of this type. This is a professional fan, a real game changer in ventilation.

Systemair have invested millions in research and development on the Revolution fan range, they produce more air under pressure than all other fans in their class and are the cheapest fans to run per m<sup>3</sup>/h in the world. **Fact.**





Guide vanes drastically improve air flow by reducing air swirl.

Double balanced fan blades

Powerful reliable German motor

Flow optimised axial impeller

The unique mould design with internal air vanes and specially designed impellers move more air in the direction it needs to move, down the duct.

Other fans simply swirl the air out of the housing, losing energy as it bounces off the sides of the duct which creates turbulence and causes negative pressure for the fan. The Revolution creates a smooth stream of high pressure air down the ducting. This means less air flow loss when restricted by filters and bends.



# REVOLUTION EC VECTOR

Save over 50% on running costs when connected to the EC Controller

An aerodynamically optimised impeller and special guide vanes give you much larger air flows and greater performance under pressure.

Revolution fans are quieter, smaller and more efficient than traditional duct fans. Simply the most efficient duct fan in the world.

The Revolution EC Vector Fan uses the latest state of the art EC technology. The brushless motors are more efficient than traditional motors – and at half speed use less than half the power, unlike AC motors.

Control and protection electronics are built into the fan.

- Flow optimised free running plastic axial impeller
- The impeller is balanced to reduce vibration and noise
- Uses less than half the power at half speed
- Maintenance free and reliable quality – made in Germany

No humming or buzzing



## Technical Data

	Revolution Vector 150 EC	Revolution Vector 200 EC	Revolution Vector 250 EC	Revolution Vector 250L EC
Input Power (Watts)	76	117	126	165
Max Air Flow (m3/h)	796	1332	1822	2077



# REVOLUTION AC STRATOS



The Revolution AC Stratos Fan is an energy efficient, inline fan with a 230V AC rotor motor.

Air flow is increased using aerodynamically optimised impellers and guide vanes, all while producing lower decibels than most other fans on the market. The Stratos Fan can be installed in any position with the mounting bracket.

The Revolution range can handle air flow restriction such as carbon filters far better than any other fan.

- One piece housing so no possible odour leaks
- Superior performance and air flow
- Capability to put fans in series to double pressure
- Maintenance free and reliable quality – made in Germany
- Speed controllable (triac or voltage)
- Thermal motor protection

## Technical Data

	Revolution Stratos 150 AC	Revolution Stratos 200 AC	Revolution Stratos 250 AC
Input Power (Watts)	27.8	71.7	200
Max Air Flow (m <sup>3</sup> /h)	439	947	2038



# SUPER SILENT 315 EC REVOLUTION

The Super Silent EC Revolution Fan combines power and efficiency with peace and quiet.

Manufactured in Europe with state of the art EC technology, the Super Silent EC Revolution is the most reliable, durable and quietest extractor fan for your indoor cultivation environment.

Unlike traditional motors, EC motors improve efficiency and use half the power when at half speed unlike AC counterparts. Alongside an aerodynamically optimised impeller and custom-built guide vanes, the Super Silent EC Revolution provides much larger air flows and greater performance under pressure than traditional duct fans.

With sealed steel housing to prevent leaks for your peace of mind, the Super Silent EC Revolution is the market leader, running at a lower decibel than competitors products in a test environment.

- Flow optimised free running plastic axial impeller
- The impeller is balanced to reduce vibration and noise
- Capability to put fans in series to double pressure
- No overheating with thermal motor protection
- Maintenance free and reliable quality – made in Europe

## Technical Data

	Revolution Vector 315 EC
Input Power (Watts)	528
Max Air Flow (m <sup>3</sup> /h)	3784

**Max  
Air Flow  
3784m<sup>3</sup>/h**

**NEW  
EC  
TECHNOLOGY**

**SEALED  
FAN  
TECHNOLOGY**





# HIGH POWERED 355 EC REVOLUTION

Power meets performance with the Revolution 355 EC.

The most powerful EC fan on the market, the Revolution 355 EC delivers a massive 5929m<sup>3</sup>/h of air flow, all while using half the electricity of an AC fan of its size.

Built with the latest EC technology the 355 EC has improved efficiency, using less than half the power at half speed unlike traditional AC fans. Alongside durable German engineering by Systemair, the 355 EC is built to last – saving thousands in energy bills in the long term.

Wrapped in sealed steel housing to prevent odour leaks and dampen noise, the Revolution 355 EC is the only fan on the market that can perform under the pressure of the larger grow room environments.

- Flow optimised free running plastic axial impeller
- The impeller is balanced to reduce vibration and noise
- Capability to put fans in series to double pressure
- No overheating with thermal motor protection
- Maintenance free and reliable quality – made in Europe

Max  
Air Flow  
5929m<sup>3</sup>/h

NEW  
EC  
TECHNOLOGY

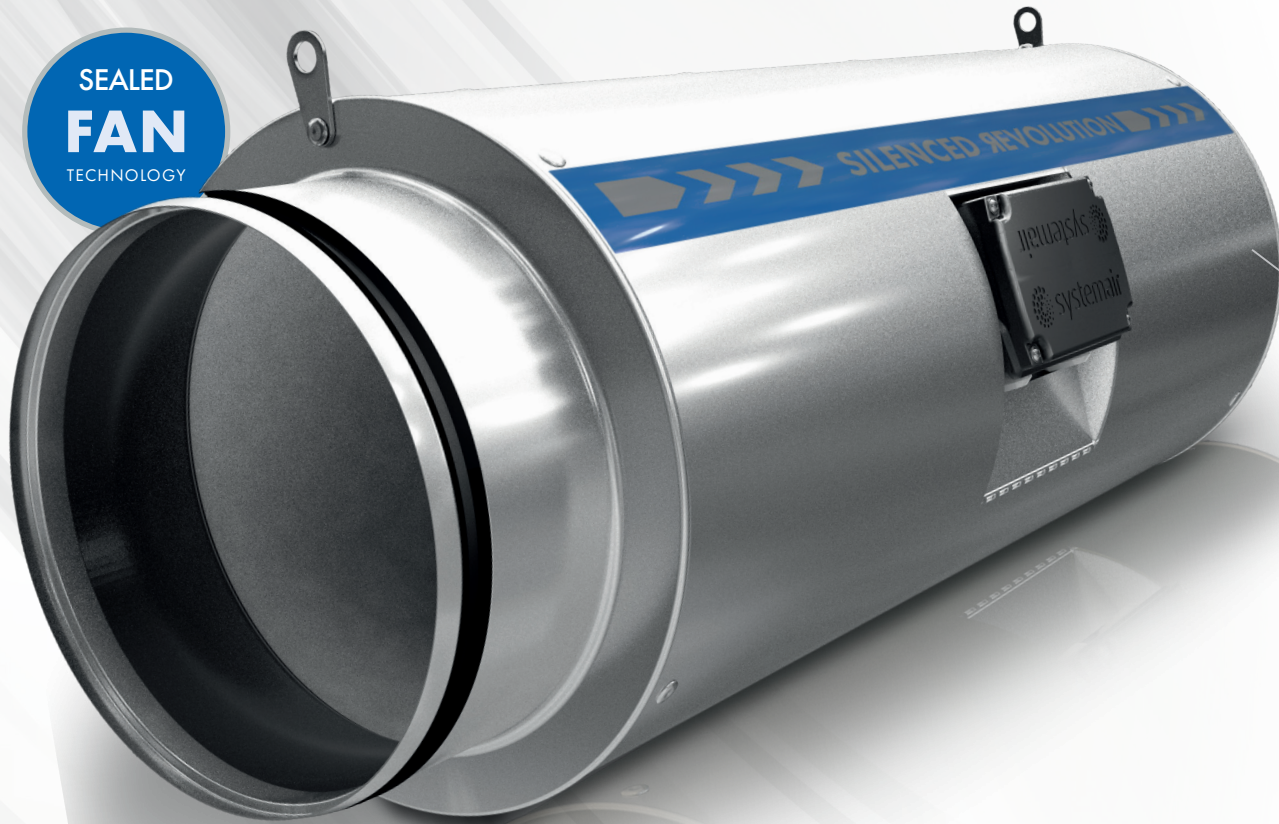
SEALED  
FAN  
TECHNOLOGY



## Technical Data

	Revolution Vector 355 EC
Input Power (Watts)	738
Max Air Flow (m <sup>3</sup> /h)	5929

SEALED  
**FAN**  
TECHNOLOGY

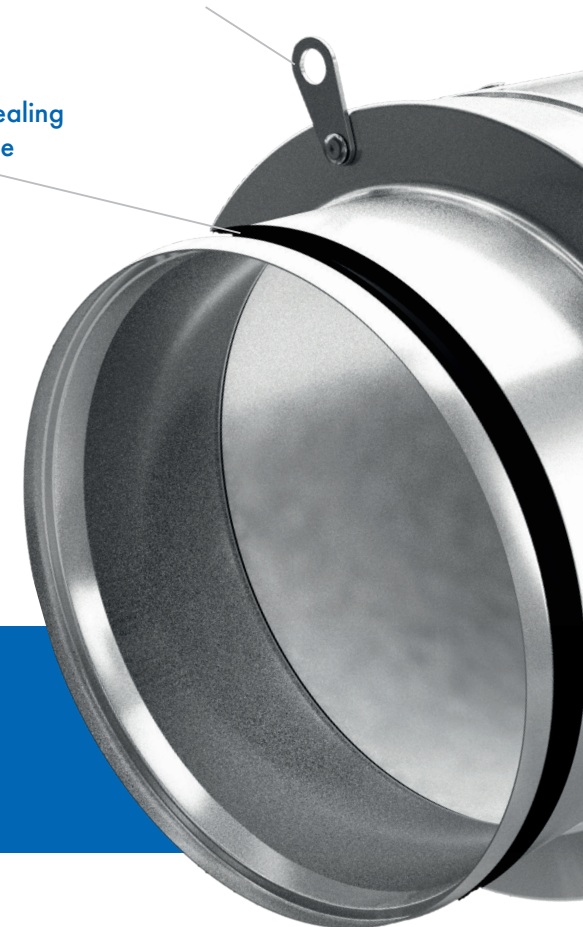


Quieter by  
design

Galvanised steel  
body

Hanging brackets

Rubber sealing  
flange



# REVOLUTION SILENCED

## Technical Data

	Revolution Vector 150 EC	Revolution Vector 200 EC	Revolution Vector 250 EC	Revolution Vector 250L EC	Revolution Vector 315 EC
Input Power (Watts)	76	117	126	165	165
Max Air Flow (m <sup>3</sup> /h)	796	1332	1822	2077	2163



The Revolution Silenced Fan is the ultimate in silenced fans. Systemair designed and developed the quietest, most efficient fan on the market and then wrapped it in a purposely designed acoustic housing.



Sound absorbing foam

The white acoustic foam is specially designed to absorb noise without restricting air flow. The foam is certified for use in air acoustics applications and does not absorb moisture or dust.

- Sealed housing so no possible odour leaks
- Superior performance and air flow
- The most efficient fan is now the quietest
- Fully serviceable
- Maintenance free and reliable quality – made in Germany

No significant air flow loss

Technical Data

	Revolution Stratos 150 AC	Revolution Stratos 200 AC	Revolution Stratos 250 AC	Revolution Stratos 315 AC
Input Power (Watts)	27.8	71.7	200	200
Max Air Flow (m <sup>3</sup> /h)	439	947	2038	2122

# GAS EC CONTROLLER

The GAS Digital EC Fan Controller provides the ultimate control over your grow room.

This controller not only thermostatically controls your intake and exhaust fans, but reacts intelligently to changes of temperature – ensuring a perfect grow room environment. The Reactive Temperature Technology 'RTT' actively monitors and adjusts fan speed. This saves energy and reduces wear on your ventilation system.

The EC Fan Controller can be coupled to a fan balancer to give you the ultimate control over your intake and exhaust fans.

- No humming from the fans
- Save on power cost
- Precise climate control
- Shows minimum and maximum temperature
- Switch between °C and °F
- Plugs directly into Systemair's EC fan range



# GAS EC FAN BALANCER

The GAS EC Fan Balancer gives you complete control over your grow room environment.

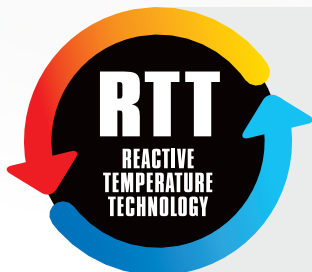
You can control maximum fan speeds of both intake and exhaust fans with the balancer. Precision control of negative pressure within your room is simple with the balancer. Always set the outtake fan higher than the intake fan to stop positive pressure ever occurring in your grow room environment.

Designed in Germany to work with our EC Fan Controller.

- Plug and play
- Connects to your controller easily
- Balances your room perfectly
- Set the maximum fan speeds



Save over 50%  
on running costs



**Reactive Temperature Technology (RTT)** is a brand new technology developed especially for indoor grow rooms. The controller has a built-in microchip that stands guard over your grow room.

If there is a sudden spike in temperature the controller will react quickly, stabilising the temperature. Whereas if there is a small rise in temperature, the controller will increase the fan speed gradually.





# GAS EC1 CONTROLLER

Get the ultimate control over your environment with our GAS EC1 Controller – the perfect solution to control your EC fans.

The EC1 controls the temperature of your grow room. Increasing the air flow when temperature gets close to your set point.

The EC1 plugs directly into any of the Systemair EC fan range, with a minimum and maximum speed control to reduce energy costs and always keep your grow room at the perfect temperature with ease.



# GAS EC SPEED CONTROLLER

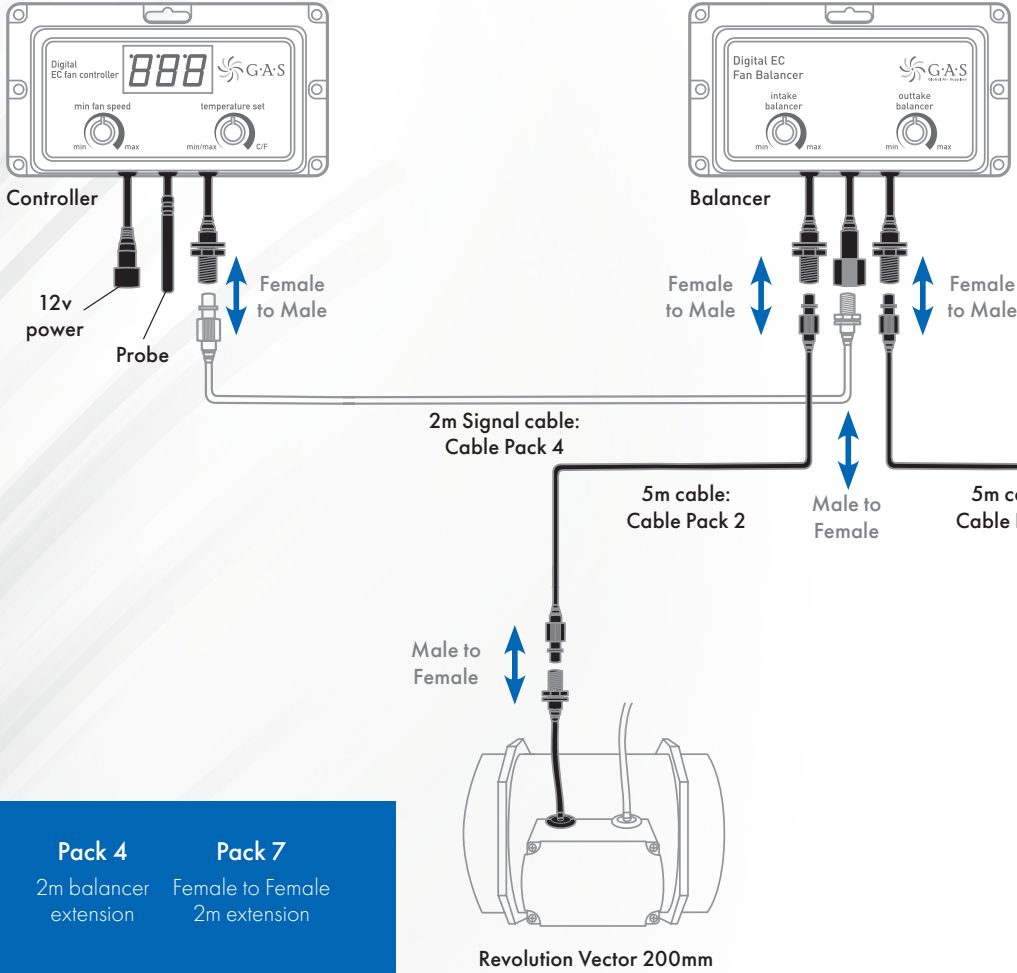
Get more control with our GAS EC Speed Controller – the easiest way to control the speed of two EC fans.

Active Cables mean the GAS EC Speed Controller is powered from the fan – eliminating the extra clutter of power packs.

Just plug directly into any of the Systemair EC fan range and set your intake fan speed and outtake fan speed – giving you complete control over balancing your fans to achieve the required negative pressure.



# CONNECTING YOUR EC FAN BALANCER



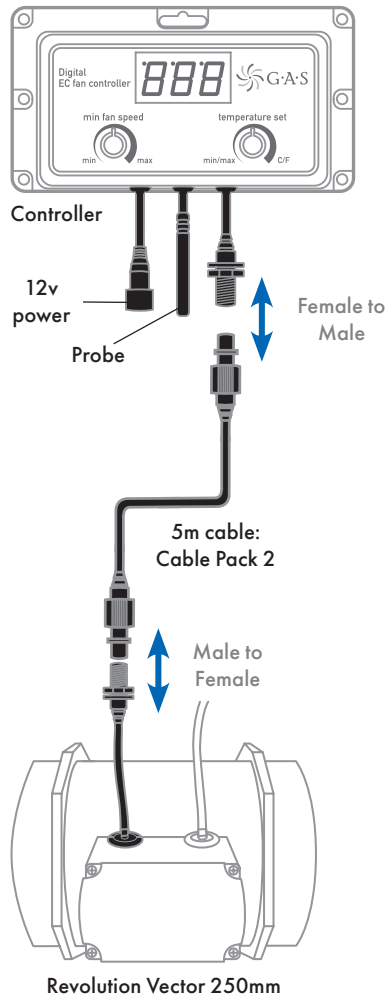
Connecting the balancer to the controller allows greater control over both inlet and outlet fans.

### Cable Packs

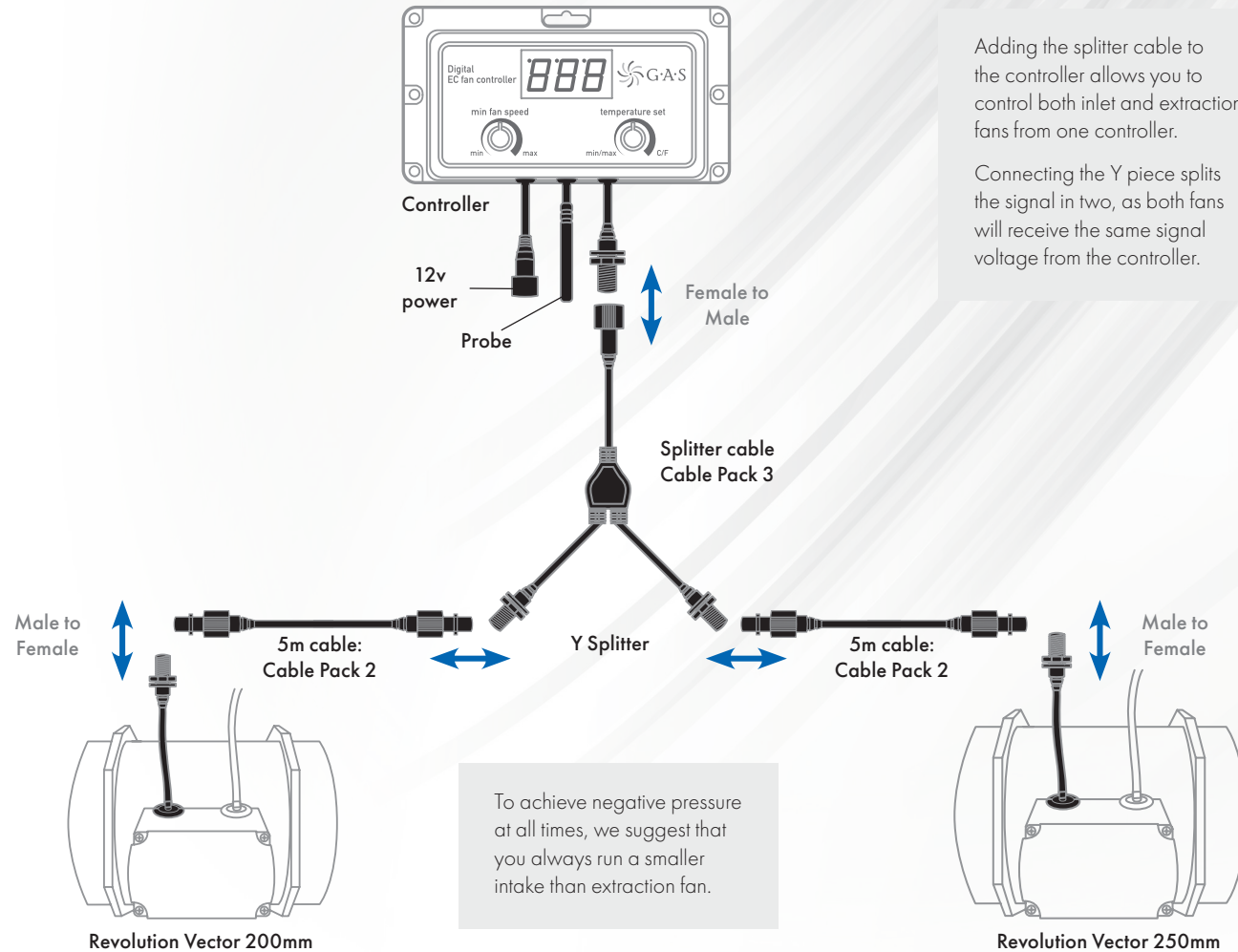
Pack 1	Pack 2	Pack 3	Pack 4	Pack 7
Splitter cable + Male to Male 5m cable	Male Male 5m cable	Splitter cable	2m balancer extension	Female to Female 2m extension



## Single Connection



## Twin Connection



Adding the splitter cable to the controller allows you to control both inlet and extraction fans from one controller.

Connecting the Y piece splits the signal in two, as both fans will receive the same signal voltage from the controller.

To achieve negative pressure at all times, we suggest that you always run a smaller intake than extraction fan.

# NEW ACTIVE CABLES

We're bringing controllers into the future with our Active Cables – getting rid of the need for power packs on controllers.

We've been fitting Active Cables to Systemair fans for a while now in anticipation of changing all our controllers to be power pack free.

Our Active Cables couldn't be easier to use and will remove extra clutter from your ventilation system.

The Active Cables have white plastic ends that match up to our fans Active Cable connection – all our EC fans are equipped with these, so it's as simple as plugging the cables in and your ventilation system is good to go.

## Cable Packs

### Pack 8

Active Male to Male 5m cable

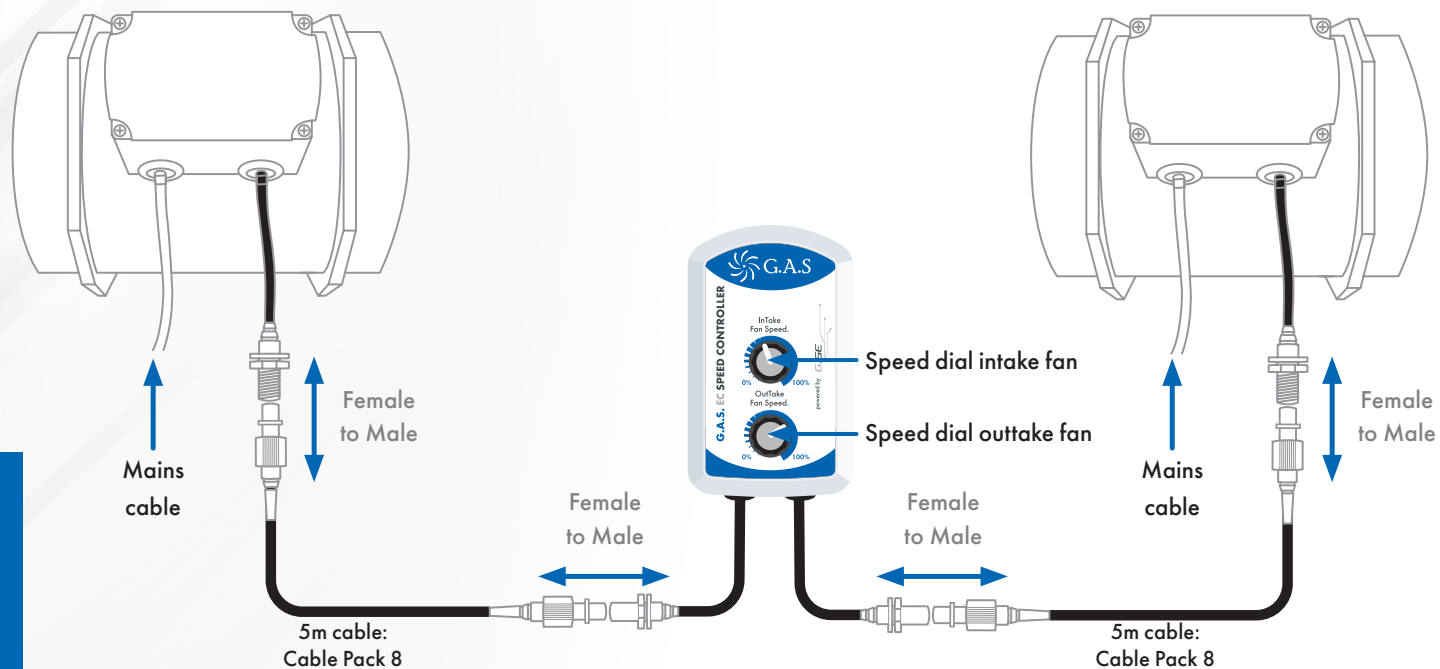
### Pack 9

Active Splitter cable

### Pack 11

Active Female to Female cable

# CONNECTING GAS EC SPEED CONTROLLER



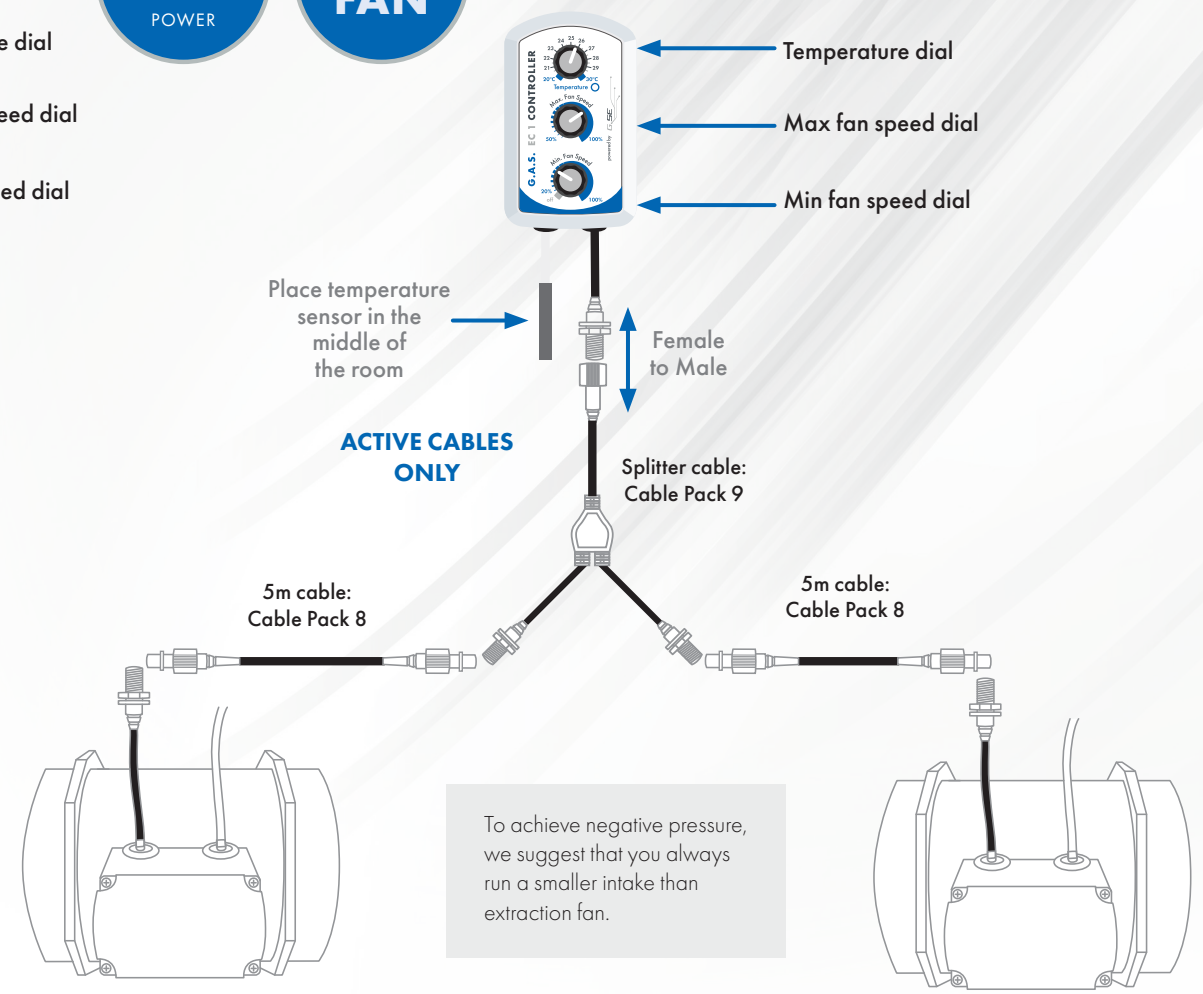
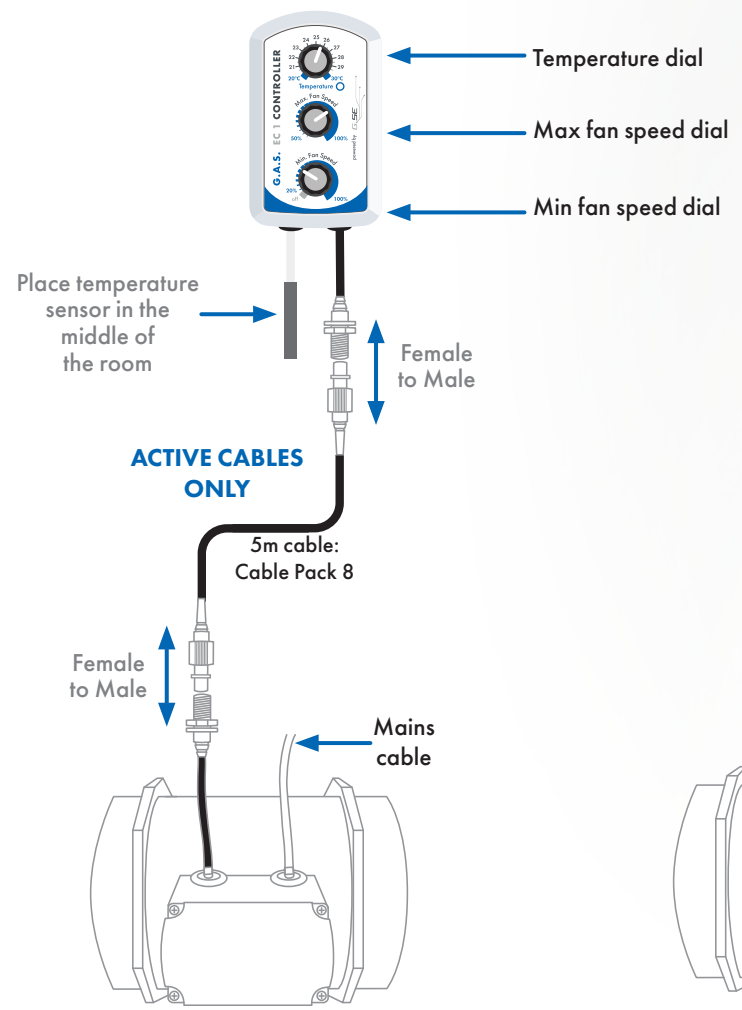


# CONNECTING GAS EC1 CONTROLLER

All GAS Controllers come with an Active Cable. To control two fans use an active splitter cable.

ACTIVE  
CABLE  
POWER

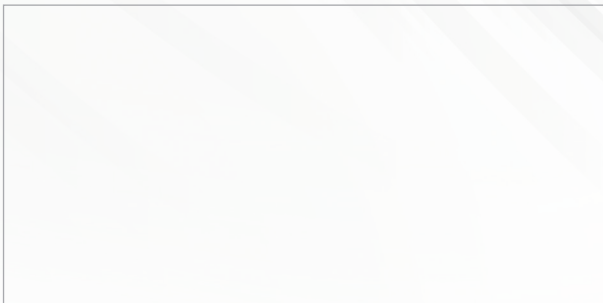
POWERED  
BY THE  
FAN



To achieve negative pressure, we suggest that you always run a smaller intake than extraction fan.

# Improving Environments – Increasing Yields

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