Decorative radiators
Comfortable indoor ventilation
Heating and cooling ceiling systems
Clean air Solutions



DA14 6ES



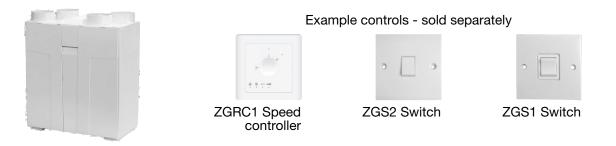
Zehnder ComfoAir 155 WM

Wall mounted mechanical supply and extract ventilation with heat recovery (MVHR) with humidity sensor



ComfoAir 155 WM

The Zehnder ComfoAir 155 WM is a heat recovery unit designed to enable better and easier specification of ventilation in new properties. It contains features such as its automatic true summer by-pass, high heat recovery efficiency and integrated humidity sensor to provide a comfortable, healthy and energy-efficient indoor climate.



Key Benefits

- Left or right hand configuration through software alone, no mechanical alteration required.
- 100% full and filtered summer bypass.
- Independently tested sound data.
- Modern, discreet design.
- Easy installation to wall, cupboard or kitchen cupboard.
- Light to handle.
- BMS capability.
- Tool free filter access.
- Volt free contact boost capability.
- CommissionSMART[™] is a commissioning wizard that enable a quick and simple set-up process.
- SummerSMART[™] ensures automatic full by-pass activation providing filtered supply air 365 days a year.
- TimerSMART[™] eliminates nuisance noise and over-ventilation by determining the duration of occupancy and allocating a suitable overrun time.

HumidiSMART[™] continuously monitors the humidity level within the home and looks for a man-made spike before boosting the unit, irrespective of distance or dilution.

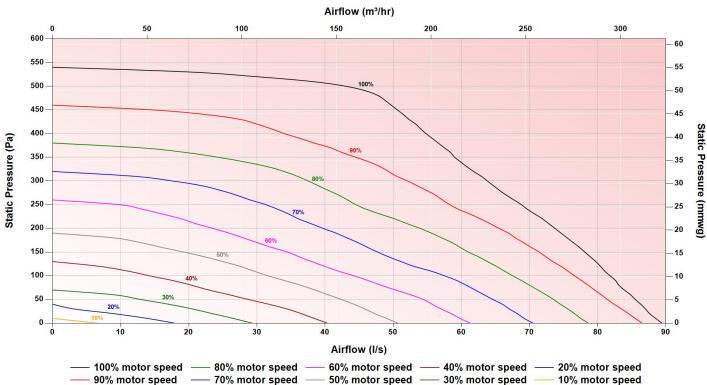
■ 100% variable AUX speed for use as away mode, medium speed or purge boost.

Article Numbers	
Description	Product Code
Unit Zehnder ComfoAir 155 WM for wall or cupboard mounting with SMART technology	CA155WM-GB
Controls	
Controls, three position switch for ComfoAir 155/185 and Centair range	ZGS1
Controls, two position switch for ComfoAir 155/185 and Centair range	ZGS2
Controls, duel speed controller for ComfoAir 155/185 range with operational and service indicators	ZGRC1
Controls, remote air quality sensor	AQR
Controls, remote humidity sensor	HHR
Controls, remote passive infra-red movement sensor	PIRR
Controls, remote temperature sensor	THR
Filters	
Filter for Zehnder ComfoAir 155 WM, ISO Coarse >45% (G3), 2 Pieces	CA155FIL
Filter for Zehnder ComfoAir 155 WM, ISO Coarse >60% (G4), 2 Pieces	CA155FIL.UPG
Accessories	
Heat exchanger for Zehnder ComfoAir 155 WM	CA155EX
First Fix Manifold for Zehnder ComfoAir 155 WM/WMe and Vireo HR155WM	CA155WMFFM

SAP PCDB

	SFP (V	SFP (W/I/s)		су (%)
	2009	2012	2009	2012
K+1	0.50	0.56	93%	92%
K+2	0.54	0.69	92%	91%
K+3	0.64	0.88	91%	90%
K+4	0.78	1.15	90%	89%
K+5	0.95	1.41	89%	88%
K+6	1.13		89%	
K+7	1.35		88%	

Pressure Curve



Sound Data

										
Speed	Test area	Octave Band (Hz) Sound Power Level, dB					dB(A) @ 3 m			
opeed		63	125	250	500	1000	2000	4000	8000	
	Casing	27.3	26.1	23.9	26.6	20.6	15.4	18.1	23.1	10.7
20%	Supply/Exhaust	49.4	42.6	33.8	33.7	26.7	16.4	18.1	23.1	
	Extract/Intake	49.9	42.5	31.4	26.0	20.0	14.5	17.9	23.0	
	Casing	34.0	41.1	40.8	43.3	41.4	34.7	28.8	24.6	27.4
40%	Supply/Exhaust	63.9	60.8	52.7	53.2	53.6	45.7	37.6	34.0	
	Extract/Intake	53.1	50.8	43.7	40.0	40.1	31.3	22.7	23.3	
	Casing	37.9	47.7	47.6	48.3	46.2	42.7	37.1	31.3	33.1
60%	Supply/Exhaust	68.3	66.6	58.9	57.4	58.6	55.3	45.9	44.8	
	Extract/Intake	54.7	55.7	51.0	44.8	44.5	38.6	29.1	26.2	
	Casing	41.0	50.1	49.4	50.7	47.5	45.4	39.9	34.8	35.2
80%	Supply/Exhaust	69.7	70.0	60.9	60.0	59.7	58.0	48.8	48.4	
	Extract/Intake	56.8	58.4	52.6	47.2	46.0	40.9	32.1	28.5	
	Casing	42.0	55.1	54.0	55.6	50.5	50.1	44.6	39.9	39.5
100%	Supply/Exhaust	73.1	73.5	65.1	63.9	62.5	61.8	53.6	53.9	
	Extract/Intake	58.4	61.2	57.6	51.6	48.8	45.2	37.1	34.1	

Tested according to BS EN 13141-7:2010. Supply and Extract showing induct sound power level. Casing dB(A) @ 3 m given as hemispherical.

SEC Class

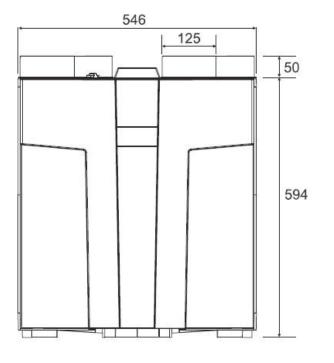


Based on average climate with local demand control

tor speed	— 30% motor speed	10% motor speed
-----------	-------------------	-----------------

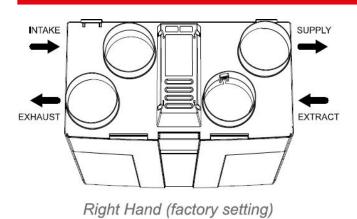
Technical Specification

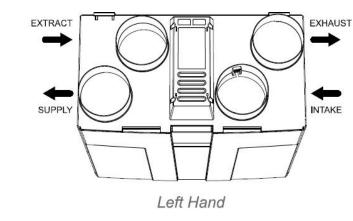
Weight	18 Kg
Ducting ø	125 mm
Condensate connection ø	21.5 mm
Filter grade	Standard - ISO Coarse >45% (G3) Optional - ISO Coarse >60% (G4)
Materials	Internal PP/EPS External ABS
Supply voltage	230 V / single-phase / 50Hz
Maximum power consumption	165 W
Current draw	1.1 A
Fuse rating	3 amp
Specific Fan Power	0.5 W/l/s
Heat Recovery Efficiency	0.93



Front View

Air Direction/Connection



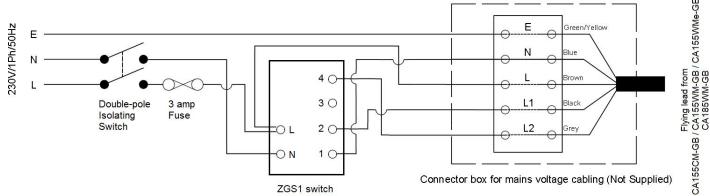




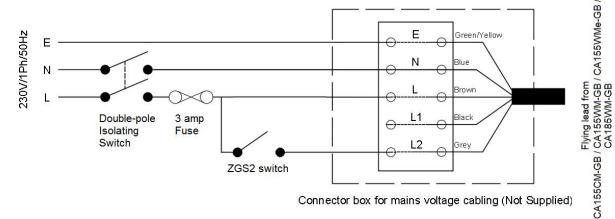
Wiring

Electrical connections should be carried out in accordance to IEE regulations by a qualified electrician. The unit is supplied with a flying lead for connection to the mains supply.

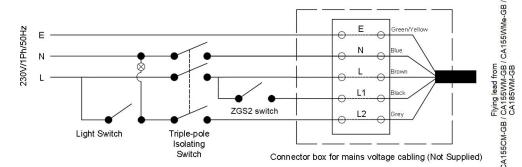
Three speed control via ZGS1 switch



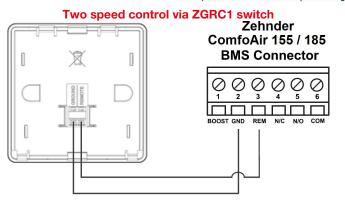




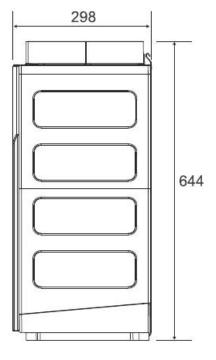
Three speed control via light switch and ZGS2



Light switch (grey) = High speed ZGS2 switch (black) = AUX speed AUX speed to override all other speed settings



2 core cable, 0.5mm Max. (up to 15 metres)



Dimensions

644 mm

546 mm

298 mm

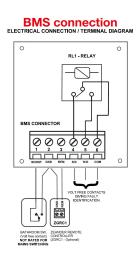
Height

Width

Depth

Side View





First Fix Manifold for Zehnder ComfoAir 155 WM/WMe and Vireo HR155WM

Article number: CA155WMFFM

Description

First Fix Manifold:

The first fix manifold is for use with the ComfoAir 155 WM/WMe and Vireo HR155WM heat recovery units. The manifold matches the spigot spacing for the units, making installation of the ducting from the unit to the ceiling void easier, with a high quality finish.

Technical Specification

03
)

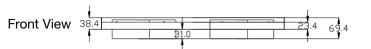
	10 (20000	
Height	69.4 mm	Side View
Width	611.6 mm	
Depth	308.4 mm	
Weight	2.33 Kg	
Material	Steel	
Supplied with	4 x 125 mm male connectors 4 x rawlplugs 4 x pozi 8 x 1 ½ screws 4 x m4 washers	Top View
Installation vide	o https://youtu.be/rgKLnAg4uwQ	



Dimensions

-611.6-

308.4







Key Benefits

Technical Specification

Mounting options	Recessed
Supply voltage	Mains power - 230 V / single-phase / 50Hz

Controls

ZGS1

Product code: ZGS1



The Zehnder ZGS1 is a three position switch designed to enable the user to manually select the desired ventilation systems flow rate

ø124.7

Key Benefits

• 3 separate ventilation flow rate options to select in 1 controller

Technical Specification	Technical Specification		
Mounting options	Recessed	Height	84 mm
Supply voltage	Mains power - 230 V / single-phase / 50Hz	Width	84 mm
		Depth	22 mm

AVAILABLE NOW FROM i-sells.co.uk

ZGRC1 Product code: ZGRC1

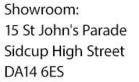


system notifications

Key Benefits

- Summer bypass indicator
- Frost protection indicator
- Service and Maintenance alert
- accidentally being left in its high speed

1	Dimensions (re	cessed)
Recessed / Surface	Height	90 mm
Low voltage direct from the MVHR units BMS	Width	90 mm
	– Depth	21 mm
2 core cable, 0.5 mm Max. (up to 15 metres)	_	
9016	Dimensions (su	Irface mounted)
1	Height	90 mm
	Width	90 mm
	Depth	37 mm
	Low voltage direct from the MVHR units BMS connector 2 core cable, 0.5 mm Max. (up to 15 metres)	Recessed / Surface Height Low voltage direct from the MVHR units BMS Width connector Depth 2 core cable, 0.5 mm Max. (up to 15 metres) Dimensions (su 9016 Height 1 Width



EMAIL: sales@i-sells.co.uk SALES: 020 8463 9696 Sidcup High Street WEB: www.i-sells.co.uk

The Zehnder ZGS2 is a two position switch designed to enable the user to manually select the desired ventilation systems flow rate

• 2 separate ventilation flow rate options to select in 1 controller

Dimensions (recessed)

Height	86 mm
Width	86 mm
Depth	15 mm

The Zehnder ZGRC1 is a two position switch designed to enable the user to manually select the desired ventilation systems flow rate and provide

• 2 separate ventilation flow rate options to select in 1 controller

· Automatic switching back to low speed after a pre-set time period to avoid the unit

AQR Product code: AQR

Key Benefits

• Set activation level covering a range of pollutants such as hydrogen, CO, methane, ethanol and isobutane

The Zehnder AQR remote air quality sensor enables a signal to be sent to

the ventilation system to automatically place the unit into a higher flow rate.

- Adjustable overrun timer between 2-40 minutes
- · Can be fitted with locking security straps to prevent tampering
- Suitable for locating where temperatures don't exceed 45°C

Technical Specification Dimensions (surface mounted) Mounting options Surface Mains power - 230 V / single-phase / 50Hz Supply voltage

86 mm
93 mm
37 mm

Decorative radiators Comfortable indoor ventilation Heating and cooling ceiling systems Clean air Solutions

PIRR Product code: PIRR



a higher flow rate.

Key Benefits

- · Senses movement up to 7 m away
- Adjustable overrun timer between 2-40 minutes

Technical Spe Mounting option

Supply voltage

ecification		Dimensions (surface mounted)	
ns	Surface	Height	86 mm
	Mains power - 230 V / single-phase / 50Hz	Width	93 mm
		Depth	37 mm

HHR Product code: HHR



The Zehnder HHR remote humidity sensor enables a signal to be sent to the ventilation system to automatically place the unit into a higher flow rate.

Key Benefits

- Set humidity activation between 30-90% relative humidity
- Adjustable overrun timer between 2-40 minutes
- Can be fitted with locking security straps to prevent tampering
- Suitable for locating where temperatures don't exceed 45°C

THR Product code: THR



Key Benefits

- Set temperature activation between 5-35°C
- Fixed 2 minute overrun timer
- Suitable for locating where temperatures don't exceed 45°C

Technical Specification		Dimensions (surface mounted)	
Mounting options	Surface	Height	86 mm
Supply voltage	Mains power - 230 V / single-phase / 50Hz	Width	93 mm
		Depth	37 mm

Technical Specification		Dimensions (surface mounted)	
Mounting options	Surface	Height	86 mm
Supply voltage	Mains power - 230 V / single-phase / 50Hz	Width	93 mm
		_	

	Dimensions (surface mounted)		
Height	86 mm		
Width	93 mm		
Depth	37 mm		



15 St John's Parade Sidcup High Street **DA14 6ES**

EMAIL: sales@i-sells.co.uk SALES: 020 8463 9696 WEB: www.i-sells.co.uk

The Zehnder PIRR remote passive infra-red movement sensor enables a signal to be sent to the ventilation system to automatically place the unit into

- Can be fitted with locking security straps to prevent tampering
- Suitable for locating where temperatures don't exceed 45°C

The Zehnder THR remote temperature sensor enables a signal to be sent to the ventilation system to automatically place the unit into a higher flow rate.

• Can be fitted with locking security straps to prevent tampering

For use with

Our range of ComfoAir MVHR units can be used in conjunction with our ComfoTube semi-rigid ductwork. The long life and sealed ductwork helps to maintain installed performance, along with reducing noise levels and system resistance.



TO VIEW OUR COMFOTUBE INFORMATION

CLICK HERE

BIM/CAD Components

If you would like to download the BIM / CAD files for this or any other of our products then please visit our BIM library.

TO VISIT OUR BIM/CAD LIBRARY

CLICK HERE

Installation Instructions

If you would like to download the installation files for this or any other of our products then please visit our download page by clicking the link below.

TO VISIT OUR DOWNLOAD PAGE



Our Informational Videos



Watch our video on how to change the Zehnder ComfoAir filters.

TO WATCH OUR VIDEO



AVAILABLE NOW FROM

Showroom:

15 St John's Parade Sidcup High Street **DA14 6ES**



Watch our video on how to clean the Zehnder ComfoTube ductwork.

TO WATCH OUR VIDEO

CLICK HERE



SALES: 020 8463 9696 WEB: www.i-sells.co.uk

Consultant Specification

Specification

The unit shall consist of a body manufactured in recyclable ABS. The unit shall be fully insulated with EPS to maintain excellent thermal characteristics. It shall have EC low energy motors with sealed for life bearings. The fan shall have a forward curved centrifugal impellor. The heat exchanger shall be a multi-plate, counter flow design constructed from Polystyrene with laser welded joints and shall retain up to 93% of the temperature differential of outgoing air.

The unit shall contain filters manufactured from synthetic material which has been tested to a minimum of ISO Coarse >45% (G3) standard with the option to upgrade to ISO Coarse >60% (G4). The filters shall be pleated to reduce the pressure drop whilst increasing the time between maintenance requirement. The unit shall have 125 mm duct connections and be suitable for vertical wall mounting with the ability to allow left or right hand configuration through the unit's software alone - no mechanical reconfiguration shall be required. The unit shall be compatible with air conditioning systems as condensate can be taken from both sides of the product simultaneously.

The unit shall have 100% full summer by-pass and provide filtered supply air 365 days of the year, even under bypass conditions. The unit shall contain a temperature sensor for each air stream to ensure correct and logical operation of the bypass damper by evaluating differential as well as absolute temperature to maximise the opportunity for free cooling.

The unit shall be constructed to have a removable cover to allow full maintenance access.

The unit shall conform to LVD and EMC standards and be CE Marked in addition to having an EU compliant energy rating label (SEC) with a minimum grade of A. The unit shall conform to UK Electrical Equipment (Safety) Regulations and Electromagnetic Compatibility Regulations and be UKCA Marked. The unit shall be manufactured by Zehnder.

Operation

The supply and extract unit shall be a ComfoAir manufactured by Zehnder and shall be suitable to mount on a wall or in a cupboard in accordance with the specification.

The fresh filtered air from outside shall be supplied to each of the habitable rooms and pre-heated by the warm extract air from the wet areas, such as kitchen or bathroom, via the plastic counter flow heat exchanger. The unit shall vary its speed of the EC motors automatically when it receives a signal from one of the inbuilt sensors or via external switches.

The unit shall have the ability to adjust and commission the supply and extract motors independently via the front mounted in-built LCD interface. The motors shall both offer 100% variable speed control.

Controls

All ComfoAir 155/185 units shall contain the following functions within the unit pre-wired and factory fitted by the manufacturer:

- 100% variable supply and extract motor control
- Variable low and high speed flow rate set point
- BMS compatibility offering speed control and status indication
- Switched live input
- Volt free contact
- Automatic filtered summer bypass with timed manual override option
- Heat exchanger frost protection
- Commissioning wizard to enable commissioning of the unit in just 8 simple steps
- Integral service, fault and operation indicators
- Control panel PIN protection
- Tool free filter access
- Runtime counter
- Humidity sensors to operate the unit in response to humidity spikes above natural background humidity levels as opposed to a single threshold humidity point to activate the high set point
- Variable overrun timer relative to high speed activation period

•100% variable 3rd "AUX" speed for use as away mode, medium speed or purge boost activated via switched live input

AVAILABLE NOW FROM i-sells.co.uk

Showroom:

15 St John's Parade Sidcup High Street **DA14 6ES**

SALES: 020 8463 9696



