MultiPlexBox

- Balanced air distribution for supply and extract air.

- Simple design planning due to low weight and slim compact dimensions.

- Demand controlled operation with optional humidity and VOC sensors.

- Highly durable galvanised steel construction.

- Low airflow resistance and effective noise attenuation for quiet operation.

- Fast and efficient installation process.

- Compatible with Airflex Pro connections which are airtight due to the unique sealing ring design.

- Flexible mounting positions on the floor ceiling or wall, surface mount or suspended.

MultiPlexBox

The MultiPlexBox has been designed to be both reliable and sustainable. the engineering of the product has allowed installation and commissioning to be as simple as possible. service and maintenance have also been considered when developing the unit to ensure ease of access.

The MultiPlexBox offers volume flow control, sound attenuation, air distribution and a central system control compatible with most MVHR ventilation units.

It offers the unique benefit of a demand controlled distribution unit that provides supply and extract air to domestic, residential and commercial applications, ensuring a quiet, economical and efficient ventilation system.

The MultiPlexBox system is perfectly designed to work with the Duplexvent Flexi and Multi Eco Commercial MVHR (Mechanical Ventilation with Heat Recovery) units and the Airflex Pro semi-rigid ducting.

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TECHNICAL DATA

Specification	MultiPlexBox
Airflow Volume (l/s)	11 to 61
Airflow Volume (m³/h)	40 to 220
Pressure loss with open damper (Pa)	6 to 79
Airflow Tolerance (m³/h)	+/- 4
Minimum noise level (dB)	23
Suitable for dwellings up to (m²)	230
Weight (kg)	25
Power Supply	230 V / 1 PH / 50Hz
Power Consumption (W)	6
Ingress protection rating	IP40
Setting steps	on the control panel +/-3 m³/h
Setting steps	on the control panel +/-3 m³/h
Unit Supply Ports	2 x 125 Ø mm
Connection Ports	
90001255	14x 75 Ø mm
90001256	14x 75 Ø mm
90001257	14x 75 Ø mm
90001258	2x 125 Ø mm
Unit Supply Ports	2x 125 Ø mm

PERFORMANCE

DIMENSIONS

90001255 (R) and 90001256 (L)**

**Spigots will be orientated on the left hand side.
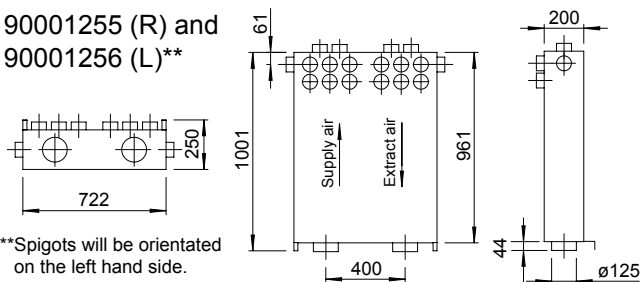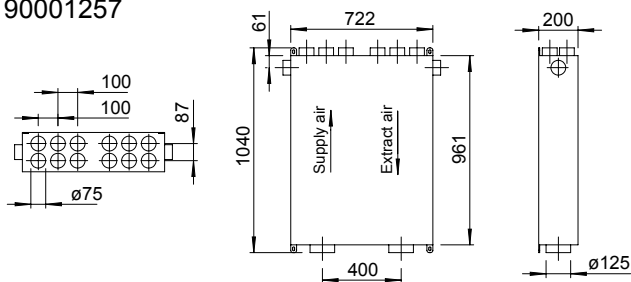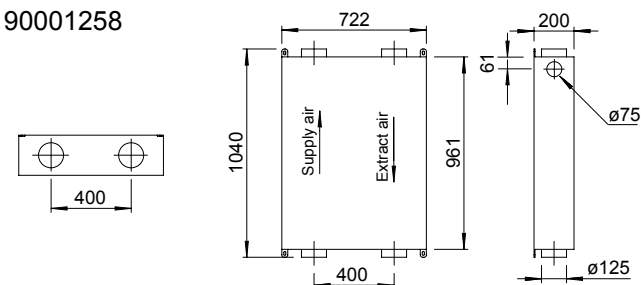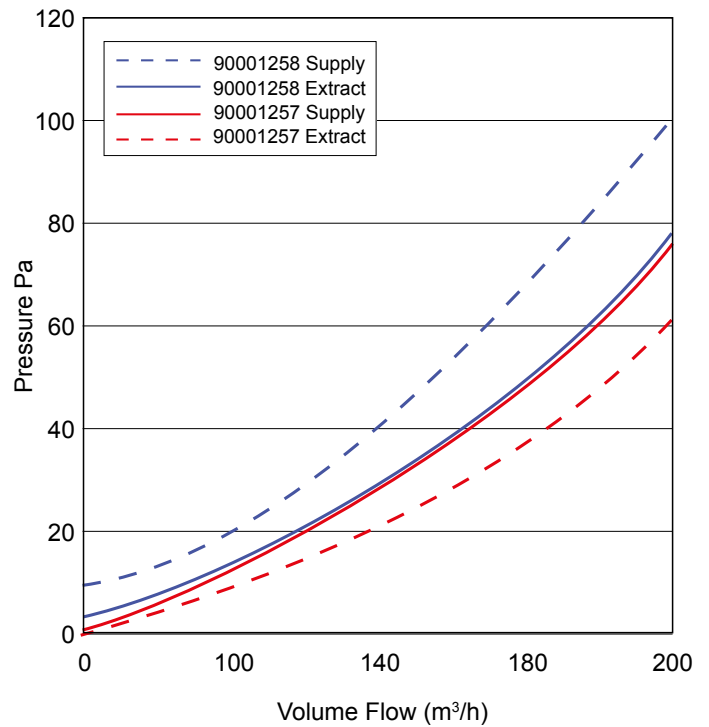
90001257

90001258

ACCESSORIES

The following accessories are available for all models:

Accessory	Product Code
Connection Set	**90001247**
Connection Plate	**90001252**
Humidity Sensor	**90001248**
Humidity & VOC Sensor	**90001249**
Central Controller	**90001246**
Basic Controller	**90001253**
Touch Screen Controller	**90001254**
Duct Support Set 7	**90001250**
Duct Support Set 13	**90001251**
Airflex Pro Round Ducting	**9041130**
Airflex Pro Round Clip	**90000352**
Sealing Rings	**9041133**
Blanking Caps	**90001260**
Round Rigid Ducting	**9041546**

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MultiPlexBox

CONTROLS

MANUAL OPERATION

Touch Screen Controller - 90001254

- Easy to use and attractive touchscreen controller.

- Can be used to create the weekly ventilation programme.

- Sensor for measuring room temperature and displays information about the room from the digital screen.

- Control the air ventilation of the whole property from a single location.

- Choose between manual and automatic operation.

- The digital screen displays the current set airflow rate.

Eco Controller – 90001253

- Functional and discreet with compact dimensions.

- Choice of Automatic operation or manual operation with 4 speed controls.

- Simple interface with clear buttons to indicate speed functions and the automatic or manual mode selection.

- Allows control of local air quality directly from the room.

- Features light up warning symbols for system issue alerts.

Central Controller – 90001246

- Enables the central command of up to 256 MultiPlexBoxes across a configured network.

- Allows the creation of a network that can be operated from a single laptop.

- Enables the configured airflow rates and settings to be applied across all the units in the network.

- Quick set up to optimise installation time and save time on site.

DEMAND CONTROLLED

Humidity Sensor - 90001248

- Optional sensor that allows the monitoring of air humidity for the premises.

- Allows the unit to run on an automatic mode for humidity detection.

- Sensitivity levels which can be adjusted during commissioning and can be applied to all humidity enabled boxes.

- Automatically adjust the dampers within your unit to allow more air humidity to be extracted from the effected room.

Humidity & VOC Sensor - 90001249

- Optional sensor that allows the monitoring of air humidity and VOCs for the premises.

- Allows the unit to run on an automatic mode for humidity and VOC detection.

- This sensor allows the user the option of precise control over the VOC level in ppm and the air humidity inside the property.

- Automatically extract humidity and VOCs from the effected room until below the selected level.

SOUND DATA

	Frequency (Hz)						
	125	**250**	**500**	**1000**	**2000**	**4000**	**8000**
Supply (dB)	8	23	26	20	17	36	>40
Extract (dB)	8	23	25	17	15	37	>41

AIR VOLUME

Damper Opening (%)	0	0	25	50	50	75	100	100
System Pressure (Pa)	300	390	200	150	180	150	90	136
Air Volume (m³/h)	61 (*3)	80 (*3)	70	132	146	160	132	160
Channel End 75 mm (dB)	<17	<17	<17	22	25	26	20	25

*3 m³/h tolerance

SYSTEM PRESSURE

Air volume flow (m³/h)	60	100	140	180	220
90001258 Supply (Pa)	9	22	43	70	100
90001258 Extract (Pa)	5	15	32	53	78
90001257 Supply (Pa)	6	16	32	52	76
90001257 Extract (Pa)	4	12	24	40	62

INSTALLATION

The MultiPlexBox is designed for installation with 125 mm rigid ducting and 75 mm semi rigid Airflex Pro ducting and can be mounted either vertically or horizontally. The unit is suitable for wall, ceiling, floor and suspended mounting. Lightweight design and compact dimensions allow for easy transportation and installation on site.
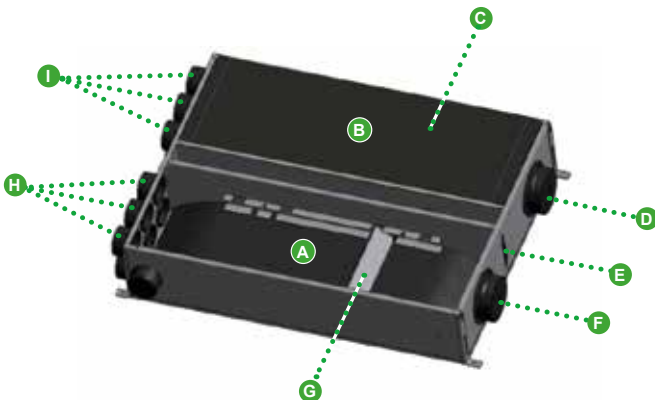
COMPONENTS

A Supply air chamber — Chamber for circulating supply air.

B Extract air chamber — Chamber for extracting waste air.

C Sound insulation — Protection from noise pollution.

D Exhaust air port — Removes the extracted air from the system.

E Control/connector — Connection for controller.

F Supply air port — Receives fresh supply air.

G Control damper — Regulates how much supply air is provided by blocking off its flow automatically according to sensor input.

H Supply connections — Ports for connecting to supply valves.

I Extract connections — Ports for connecting to extract valves.

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