luma® plus

A NEW GENERATION OF MVHR



envirovent®

because your air matters


luma®
plus
A NEW GENERATION OF MVHR
luma
plus
luma
envirovent

A new generation of MVHR for healthier homes

The luma® range from envirovent® has been created to provide a modern, flexible MVHR solution for today's new build and specification sectors, while helping to meet the ventilation requirements of Approved Document F and the Future Homes and Buildings Standard.

Designed and manufactured in the UK, luma combines high-performance ventilation and intelligent controls with straightforward installation and a sleek, contemporary design.

Engineered around the needs of developers, installers, specifiers and homeowners, every product in the range combines intuitive operation with practical access for commissioning, servicing and ongoing maintenance.

With a consistent approach to control, performance and usability across the range, luma provides a complete MVHR solution for residential applications, helping to create healthier, more comfortable homes while giving project teams confidence from initial design and specification through to installation and aftercare.



luma® plus

powerful performance, intelligent control and simple installation

luma plus is a high specification Mechanical Ventilation with Heat Recovery (MVHR) system designed for use in medium to large dwellings, or where specific ventilation needs must be met, such as where there are higher noise or pollution levels or to assist in meeting requirements for overheating mitigation.

luma plus provides noise as low as 10.3dB(A) breakout at 3m, a low specific fan power of 0.54W/(l.s) and a thermal efficiency of up to 92%. The unit comes as standard with Ø150mm spigots for ease of connection to different ducting types.

Features include an intelligent, high quality controller with display, envirovent's Intellitrac® humidity tracking and on-site handing, helping to simplify installation, commissioning and overall system design.

luma plus has been designed with both Approved Document F of Building Regulations and the wider Future Homes and Buildings Standard in mind, supporting the delivery of healthier, more comfortable homes.

luma plus offers four grades of filters, additional sensor provisions, fireplace mode and a wireless boost switch as standard, providing a flexible, future-ready MVHR solution for a wide range of residential applications.



Quiet. Simple. Powerful. Intelligent.



HIGH THERMAL EFFICIENCY
High thermal efficiency of 92%

LOW SPECIFIC FAN POWER (SFP)
Low Specific Fan Power down to 0.54W/(l.s)

HIGH PERFORMANCE
478m³/h at 100Pa maximum airflow

ADJUSTABLE MULTI-SPEED AIRFLOW CONTROL
Three speed unit as standard.

INTELLIGENT, HIGH SPECIFICATION CONTROLLER WITH DISPLAY
Removable wired display with up to 10m cable length.

LIGHTWEIGHT UNIT
Weighing 26kg, with side carry handles providing ease of use for single person installation.

ON-SITE UNIT HANDING
Depending upon unit spigot connections and condensate drainage.

INTELLITRAC® RELATIVE HUMIDITY TRACKING
Automatically adjusts the unit speed in line with humidity levels.

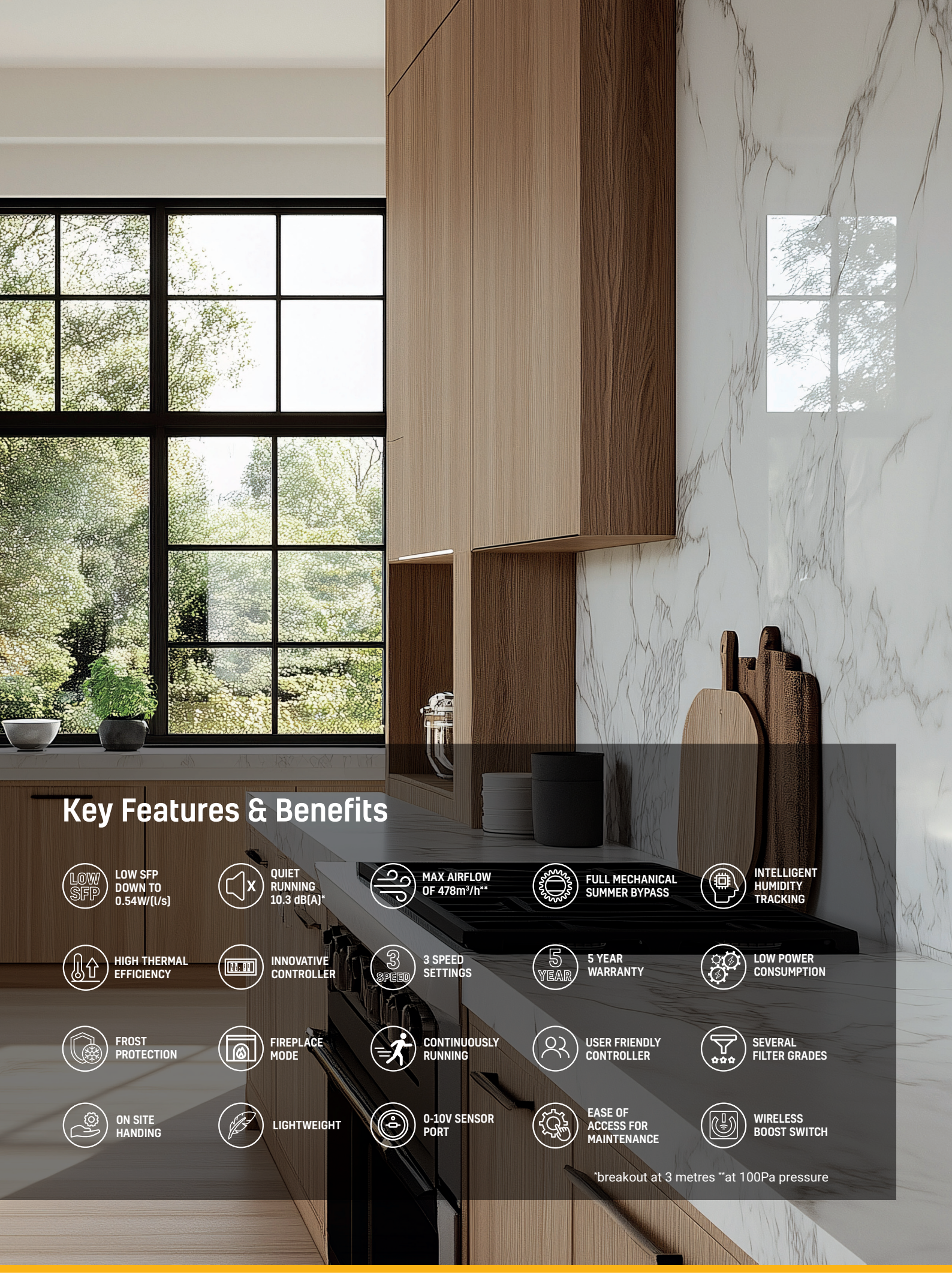
The flexible solution



High-performance ventilation for larger homes and demanding applications.

With a maximum airflow of 508m³/h in free air and 478m³/h at 100Pa, SAP PCDB listing, Specific Fan Power as low as 0.54W/(l.s) and high thermal efficiency of 92% in line with Approved Document L of Building Regulations, luma plus provides a standout, flexible and innovative ventilation solution.

In addition, luma plus also includes Intellitrac® humidity tracking and on-site handing as standard.



Key Features & Benefits

- LOW SFP DOWN TO 0.54W/(l/s)
- QUIET RUNNING 10.3 dB(A)*
- MAX AIRFLOW OF 478m³/h**
- FULL MECHANICAL SUMMER BYPASS
- INTELLIGENT HUMIDITY TRACKING
- HIGH THERMAL EFFICIENCY
- INNOVATIVE CONTROLLER
- 3 SPEED SETTINGS
- 5 YEAR WARRANTY
- LOW POWER CONSUMPTION
- FROST PROTECTION
- FIREPLACE MODE
- CONTINUOUSLY RUNNING
- USER FRIENDLY CONTROLLER
- SEVERAL FILTER GRADES
- ON SITE HANDING
- LIGHTWEIGHT
- 0-10V SENSOR PORT
- EASE OF ACCESS FOR MAINTENANCE
- WIRELESS BOOST SWITCH

*breakout at 3 metres **at 100Pa pressure

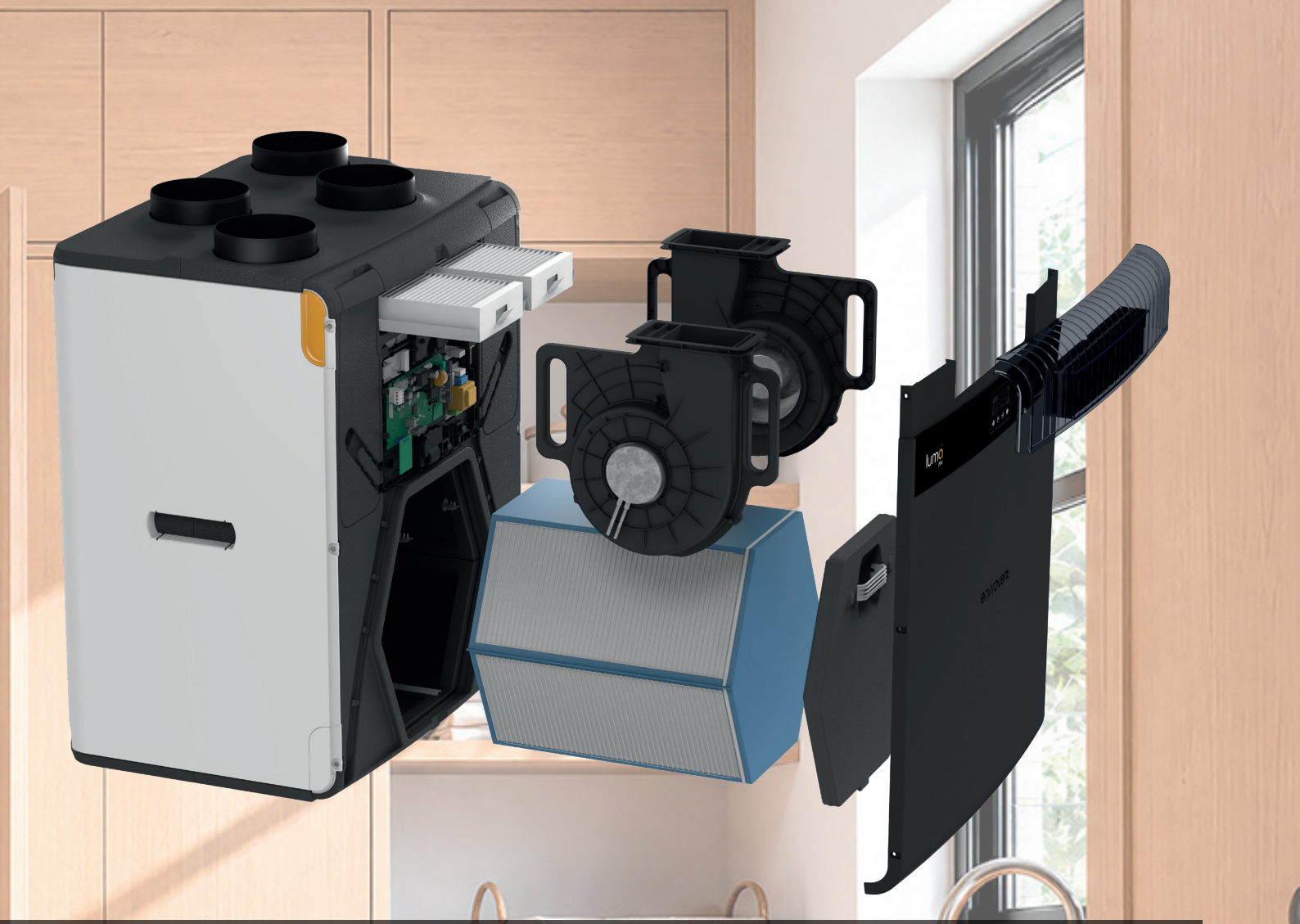


A modern new MVHR range designed for performance, access and visual appeal

Part of envirovent®'s eye-catching new MVHR range, luma plus provides a complete MVHR solution for residential dwellings.

Stylish and sleek, with easy-to-lift side handles and direct filter access without the need to fully remove the front cover, supporting ongoing maintenance.

Designed with servicing and maintenance in mind, luma plus provides easier access to key components, supporting replacements and end of life removal.



Designed to make installation, commissioning and maintenance easier

The luma range has been designed and built with the installer in mind, supporting straightforward installation and easy commissioning.

On-site unit handing provides installation flexibility for spigot arrangement and condensate drainage, helping to simplify specification and ordering with a single unit option.

A wall mounting bracket is also included as standard, with a secure Ø21.5mm condensate drainage connection with condensate kit available as to purchase.

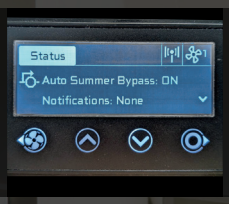
The luma range offers the ability to clone commissioning data for use when working on identical housing plots for time saving on site.

A Modbus menu is included as standard for additional control parameters during installation.

The integral controller includes a dedicated installer menu for setting airflows, checking temperatures and speeds, and accessing key commissioning information. This has been designed to support a quicker, simpler installation process.

Menus - straightforward setup, monitoring and control

The controller offers six key menus from installation and commissioning to unit status and airflow settings. These include:



Status
- Active Functions
- Filter/Fault
- Temperatures



Reset
- Set Filter Countdown
- Set Service Countdown
- Reset Key Details



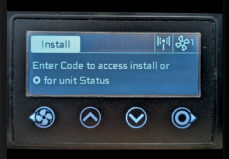
Data
- Temperature
- Energy Saved in kWh
- Total Run Time



My Unit
- Unit Details
- Unit Handing
- Fireplace Mode



Control
- Bypass Controls
- Bypass Override
- Holiday Mode



Install
- Commissioning
- Data Resets
- External Equipment Details



Flexible Control - for installers, simple operation for homeowners

luma plus comes as standard with an intelligent, high specification removable controller with display and up to 10m cable length.

The controller gives installers greater control, the ability to customise settings, and a user friendly interface. The controller offers six key menus, covering installation and commissioning through to unit status and airflow settings. These include:

- Notification and status menus including errors, current speed, filter changes and servicing information.
- Integral mechanical summer bypass details and override.
- Frost protection via airflow imbalance if no pre-heater is installed.
- Fireplace mode for when the unit is installed in a property containing an open flued combustion product, such as a solid fuel appliance.
- Unit information including warranty, firmware and other details.
- USB cloning when working on identical housing plots.
- Switched live input.
- Modbus menu for additional control parameters



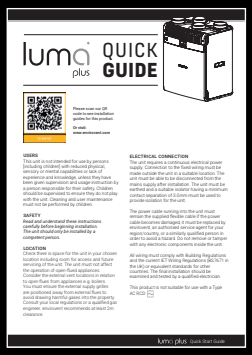
A wireless boost switch with indicator is included as standard. Optional additional switches are also available as an accessory where required.

Technical data

Options & Ancillaries

Description	Order Code
Additional Wireless Boost Switch	SWH-W-LUMA
AirSens® CO2 Sensor*	AIR-CO2
AirSens® Volatile Organic Compound (VOC) Sensor*	AIR-VOC
AirSens® Temperature Sensor*	AIR-TEMP
ISO Coarse 65% (G4) Filter Pack	FL-CRSCRS-001
ISO ePM10 50% (M5)/ISO Coarse 65% (G4) Filter Pack**	FL-CRSMED-001
ISO ePM2.5 50% (M6)/ISO Coarse 65% (G4) Filter Pack**	FL-CRSFNE-001
ISO ePM1 55% (F7)/ISO Coarse 65% (G4) Filter Pack**	FL-CRSHGH-001
Condensate Kit	KITCONDENSATE-LUMAPLUS

*AirSens® Sensors are also available as wireless options with receiver.
**ISO Coarse 65% filter for extract, and ISO ePM filter for supply.



Download your Quickstart Guide here

How it measures up



Spigot Size	Ø150mm Circular
ErP SEC Class	A
Weight	26kg (28kg boxed)
Electrical Supply	230V 50/60Hz
Max Power Consumption	255W
Warranty	5 Years

Product Characteristics Database (SAP10)

Exhaust Terminal Configuration – Kitchen + Additional Wet Rooms	Specific Fan Power (W/(l.s)	Heat Recovery Efficiency (%)
Kitchen + 1 Additional Wet Room	0.55	92
Kitchen + 2 Additional Wet Rooms	0.54	92
Kitchen + 3 Additional Wet Rooms	0.60	91
Kitchen + 4 Additional Wet Rooms	0.70	90
Kitchen + 5 Additional Wet Rooms	0.85	89
Kitchen + 6 Additional Wet Rooms	1.01	88
Kitchen + 7 Additional Wet Rooms	1.23	88

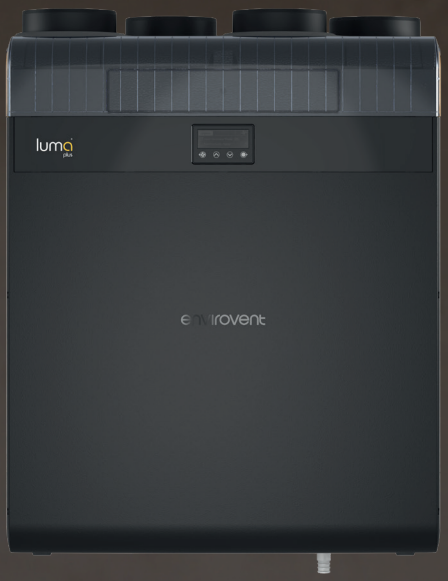
Running Costs

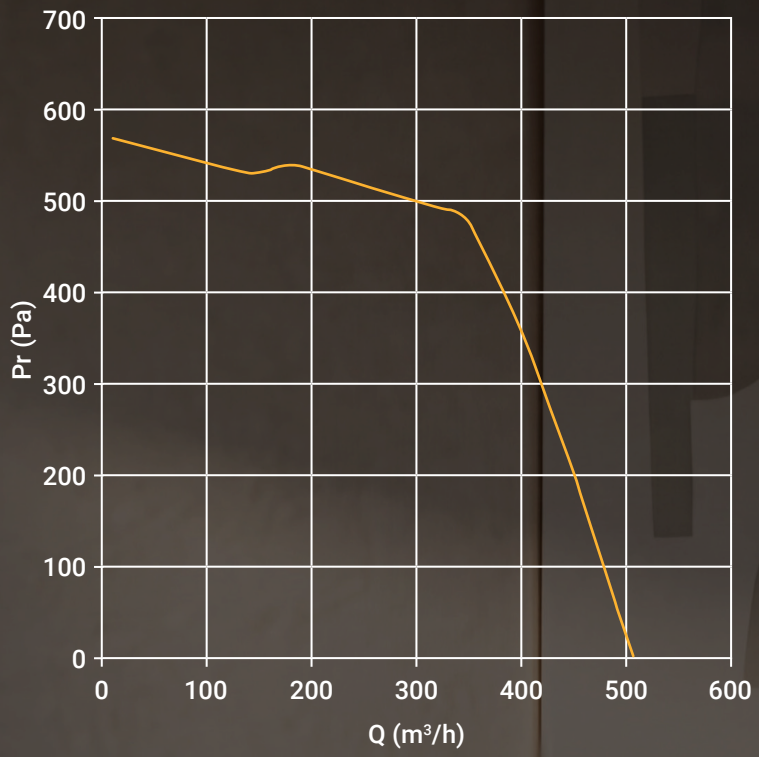
Please scan our QR code to see the annual running costs of this product

SOUND DATA

UNIT SETTING	FLOW (m³/h)	FLOW (l/s)	STATIC PRESSURE	MODE	SOUND POWER LEVELS (Lw dB(A)) FREQUENCY (Hz) 63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	TOTAL dB(A)	SOUND PRESSURE LEVEL (SPL) dB(A) at 3m
100%	177.0	49.2	532.0	Extract	41.0	53.9	50.6	49.6	52.2	49.9	45.1	37.9	58.8	38.3
	182.0	50.6	537.0	Supply	45.3	51.4	58.3	62.4	69.8	71.1	62.7	59.2	74.4	53.9
	177.0	49.2	532.0	Breakout	33.7	45.7	50.8	50.8	53.8	53.6	44.0	36.9	58.9	38.4
	309.0	85.8	485.0	Extract	39.8	48.8	48.2	49.2	51.1	52.4	45.6	40.0	57.7	37.1
	319.0	88.6	490.0	Supply	45.0	50.3	57.8	62.0	69.7	70.9	62.5	58.9	74.2	53.7
	309.0	85.8	485.0	Breakout	33.5	45.7	50.5	50.1	53.7	53.6	43.9	36.6	58.7	38.2
	435.0	120.8	215.0	Extract	32.5	44.3	46.4	49.5	52.9	53.0	45.9	40.5	57.8	37.3
	434.0	120.6	253.0	Supply	43.4	48.7	56.9	62.6	69.9	70.3	61.7	58.6	74.0	53.5
	435.0	120.8	215.0	Breakout	31.4	45.8	50.5	52.3	54.2	53.6	42.7	34.5	59.2	38.7
80%	162.0	45.0	446.0	Extract	35.6	47.3	46.4	46.2	49.2	49.1	43.0	35.4	55.2	34.6
	161.0	44.7	439.0	Supply	40.5	53.0	59.5	62.2	67.6	67.8	60.9	57.0	72.1	51.6
	162.0	45.0	446.0	Breakout	33.4	48.0	51.1	49.0	52.7	50.5	41.2	32.1	57.7	37.1
	284.0	78.9	409.0	Extract	35.5	47.3	46.4	46.6	49.8	49.8	44.0	36.3	55.6	35.1
	281.0	78.1	400.0	Supply	38.9	51.6	56.6	62.2	67.7	69.4	62.4	58.3	72.9	52.3
	284.0	78.9	409.0	Breakout	28.9	45.4	50.7	47.4	52.8	50.2	40.9	31.6	57.1	36.6
	433.0	120.3	213.0	Extract	32.7	44.2	45.1	48.5	51.3	51.1	43.7	37.6	56.3	35.7
	442.0	122.8	222.0	Supply	39.8	48.6	57.5	64.1	69.1	69.7	62.1	58.8	73.6	53.1
	433.0	120.3	213.0	Breakout	26.7	42.5	50.4	51.5	53.8	53.2	42.2	33.7	58.7	38.1
60%	118.0	32.8	237.0	Extract	33.2	43.2	40.1	40.4	44.4	39.8	34.4	25.7	49.3	28.7
	120.0	33.3	233.0	Supply	36.6	42.9	50.1	54.2	65.0	60.0	53.1	48.0	66.8	46.3
	118.0	32.8	237.0	Breakout	28.6	39.0	45.5	42.3	49.4	46.0	34.4	24.8	52.8	32.3
	206.0	57.2	216.0	Extract	29.9	42.1	39.6	39.5	45.8	40.5	34.8	27.2	49.4	28.9
	209.0	58.1	209.0	Supply	36.4	42.2	49.8	54.2	65.1	60.3	53.3	47.9	67.0	46.4
	206.0	57.2	216.0	Breakout	24.6	39.5	47.1	41.2	49.7	42.1	33.2	24.4	52.7	32.1
	340.0	94.4	131.0	Extract	27.8	39.0	41.5	43.9	49.4	45.4	39.1	31.8	52.5	32.0
	322.0	89.4	139.0	Supply	38.0	43.1	51.6	57.0	66.7	62.8	55.2	50.9	68.9	48.3
	340.0	94.4	131.0	Breakout	22.4	37.9	50.3	45.0	50.6	46.0	36.2	27.2	54.8	34.3
40%	96.0	26.7	96.0	Extract	22.0	31.6	28.1	29.7	32.1	27.3	23.4	20.9	37.5	17.0
	75.0	20.8	92.0	Supply	25.8	37.5	42.6	48.0	53.6	46.5	39.8	30.1	55.7	35.2
	75.0	20.8	96.0	Breakout	18.2	35.0	35.0	33.1	38.4	31.8	24.0	20.8	42.4	21.8
	126.0	35.0	82.0	Extract	21.0	32.0	28.4	29.9	32.6	28.0	23.4	20.8	37.9	17.4
	128.0	35.6	79.0	Supply	22.2	35.9	42.2	47.4	54.4	47.6	41.7	31.6	56.3	35.7
	126.0	35.0	82.0	Breakout	20.0	34.6	33.8	33.7	39.8	31.5	24.5	20.9	42.8	22.3
	206.0	57.2	48.0	Extract	19.8	30.4	31.7	34.1	37.1	31.1	25.6	21.1	40.8	20.3
	194.0	53.9	51.0	Supply	22.7	35.7	43.4	49.8	56.8	49.1	44.0	34.6	58.5	38.0
	206.0	57.2	48.0	Breakout	16.2	35.5	35.6	35.0	42.6	34.9	26.1	21.8	45.1	24.5
20%	32.0	8.9	18.0	Extract	17.4	19.5	16.4	18.5	19.9	21.2	22.0	20.7	28.8	8.3
	32.0	8.9	17.0	Supply	18.0	22.5	28.6	30.0	30.9	23.6	22.6	20.7	35.7	15.2
	32.0	8.9	18.0	Breakout	18.6	22.6	24.7	21.0	20.5	21.3	22.2	20.8	30.8	10.3
	49.0	13.6	12.0	Extract	17.3	17.6	14.8	18.8	19.0	20.0	21.2	19.9	28.0	7.4
	51.0	14.2	12.0	Supply	19.2	22.0	29.0	30.3	31.8	23.6	22.1	20.0	36.1	15.6
	49.0	13.6	12.0	Breakout	16.5	22.4	23.9	21.3	22.3	22.7	23.2	21.7	31.2	10.6
	73.0	20.3	7.0	Extract	16.4	16.0	14.8	17.5	20.0	21.3	22.1	20.8	28.4	7.8
	71.0	19.7	7.0	Supply	19.4	22.0	28.7	30.7	32.0	24.7	21.8	20.1	36.3	15.8
	73.0	20.3	7.0	Breakout	14.6	22.2	24.0	21.3	22.9	22.8	23.2	21.7	31.2	10.7

PERFORMANCE CURVE









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