

**MELLIZO**  
SILENCE IS SILVER



**MEET  
OUR TWIN...  
Mellizo**



The **quietest** and  
most **efficient**  
Twin Fan we've  
ever made –  
a guaranteed  
superior  
solution

**S&P** UK VENTILATION SYSTEMS LTD

## Twin Fan Design

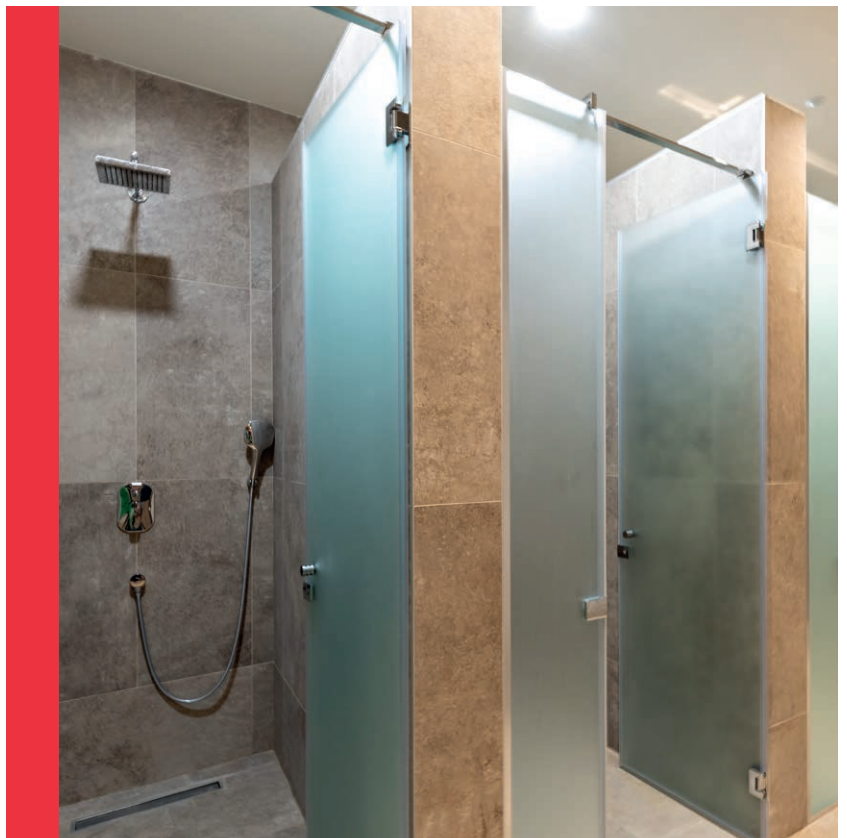
When one fan stops, the other one starts, allowing for continuous, uninterrupted ventilation.

## Applications

Mellizo is extremely versatile and is designed for simple installation in a range of environments, including toilets and changing rooms.

*Typical locations include:*

- Offices and workspaces
- Schools and colleges
- Leisure centres and spas
- Supermarkets and shopping centres



## Product description

Mellizo is an acoustic twin cabinet fan manufactured from galvanised steel sheet and internally lined with 25mm thickness of fireproof acoustic insulation (M0).

All models incorporate two S&P ECOWATT backward curved centrifugal fans and brushless EC motors with thermal overload protection.

Integral control unit provides automated run and standby via tacho/low current sensing, duty-sharing adjustable from 3 to 24 hours (in 3-hour steps) and BMS output/remote fault indication.

Remote On/Off via volt-free contact and/or 230V signal. Variable speed control, manually via an optional secondary S&P REB ECOWATT controller, or automated via a 0-10V signal from an external source.

Installer-defined fixed speed control either continuous or on-demand. Alternatively, the user can set minimum, middle, or maximum speed.

Integral over-run timer.

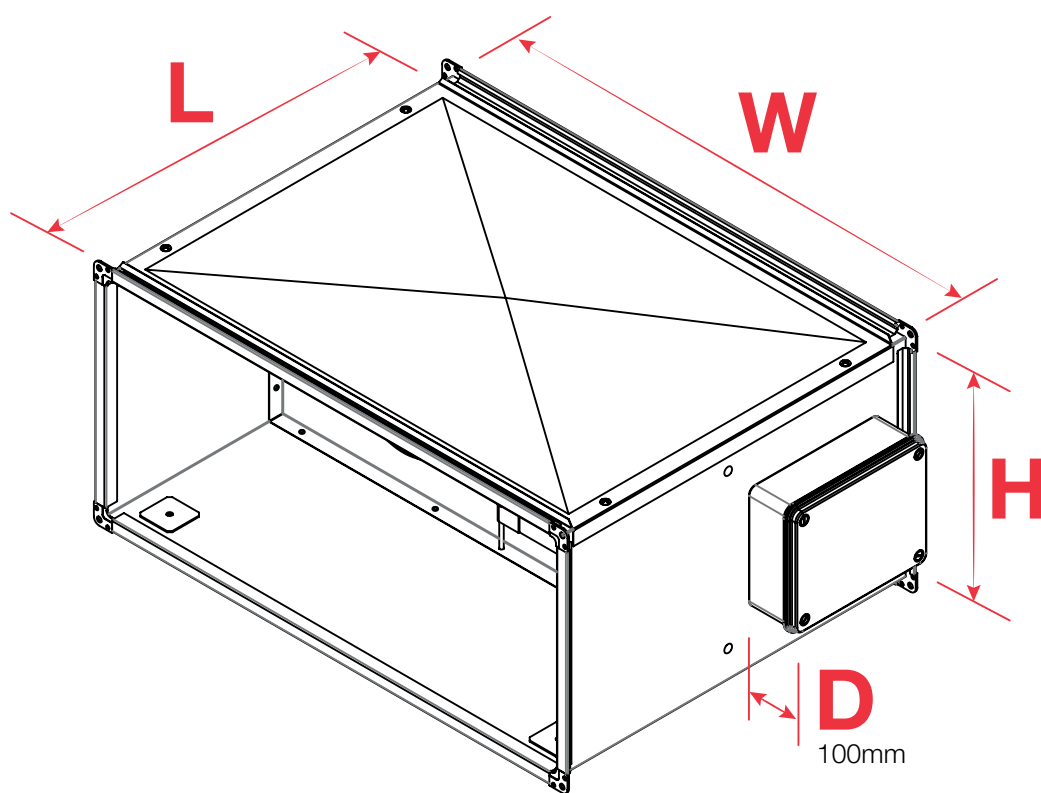
Electrical supply: Single phase 230V-50Hz

Working temperature from -20°C to +40°C

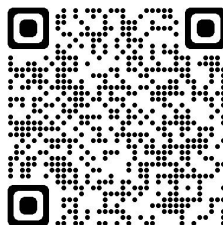


## Models & Dimensions

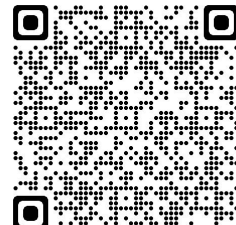
Model	Dimensions (W/H/L mm)	Flange (depth mm)	Weight (kg)
Mellizo 400 EcoWatt	786 x 356 x 555	20	25
Mellizo 700 EcoWatt	835 x 395 x 605	20	30
Mellizo 1000 EcoWatt	885 x 426 x 656	20	35
Mellizo 1300 EcoWatt	885 x 440 x 705	20	40
Mellizo 1600 EcoWatt	937 x 475 x 766	20	45



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**EasyVent**



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**NBS Source**



# Features & Benefits

Optimum Efficiency	Quietest Sound	Innovative Design
<p><b>PERFECT CONTROL</b> Mellizo incorporates multiple sensor inputs for remote activation by external sensors and switches</p>	<p><b>CASING</b> Double layered galvanised steel sheet</p>	<p><b>SUPERIOR PERFORMANCE</b> Our hallmark in-line fan assembly guarantees optimal performance</p>
<p><b>SAVES ENERGY</b> Demand ventilation: On/Off Low, medium, and high speed Progressive speed control Constant pressure Variable speed control Run-on timer</p>	<p><b>ACOUSTIC LINING</b> Flame-retardant V0 acoustically lined case</p>	<p><b>DIGITAL DISPLAY</b> Indicates running, stopped, and/or fault condition</p>
<p><b>AUTO CHANGEOVER</b> Run/Standby with automatic fault changeover Duty share (3-24 hours)</p>	<p><b>ECOWATT MOTOR</b> S&amp;P trademarked EcoWatt motor</p>	<p><b>RELIABLE AND COMPLIANT</b> Meets latest legislation and Building Regulations, as well as ISO quality standards</p>
<p><b>BMS CONNECTIVITY</b> Simple BMS connectivity Volt-free, 230V or 0-10V</p>	<p><b>IMPELLER</b> Guide vane and outlet diffuser</p>	<p><b>INSTALLATION CONFIGURATION</b> Indoor or external installation as standard, with horizontal or vertical mounting</p>
<p><b>LOWEST SFP</b> Cutting-edge technology extends fan life and reduces power usage in line with Building Regulations Part L</p>	<p><b>SILENT BLOCK</b> Silent elastic block between the motor and the holder to reduce the motor's vibrations</p>	<p><b>FIRE SHUTOFF SWITCH</b> Auto fan stop on external fire detection</p>



# Take a closer look at Mellizo

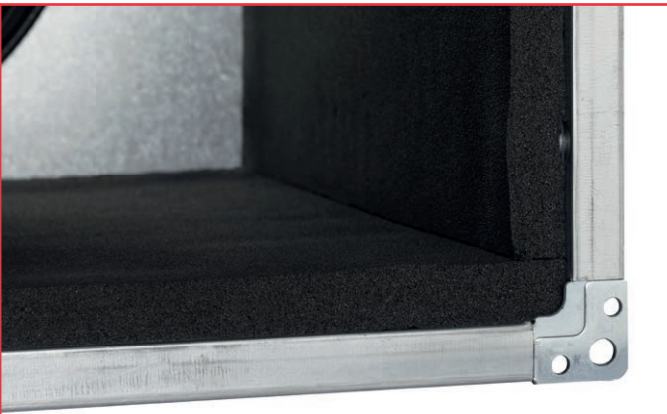
## Horizontal Mounting

Access from underside or topline



## Vertical Mounting

Flanged duct connection



## Insulating Foam

Reduces sound breakout



## Digital Display

Run/fault display





## Top performance under pressure

Model	Speed (r.p.m)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)	Maximum Airflow (m <sup>3</sup> /s)	Sound Pressure Level dB(A) at 3 metres		
					Inlet	Breakout	Outlet
<b>Mellizo 400 EcoWatt</b>	2650	26	0.2	0.11	41	19	41
<b>Mellizo 700 EcoWatt</b>	2650	60	0.5	0.20	48	25	48
<b>Mellizo 1000 EcoWatt</b>	2630	109	0.8	0.29	52	29	52
<b>Mellizo 1300 EcoWatt</b>	2740	135	0.9	0.35	54	31	54
<b>Mellizo 1600 EcoWatt</b>	2640	194	1.3	0.43	57	35	57

Model	Pressure (Pa)									
		0	25	50	75	100	150	200	250	300
<b>Mellizo 400 EcoWatt</b>	Airflow (m <sup>3</sup> /s)	0.109	0.104	0.098	0.090	0.081	0.059	0.027	0.013	-
	SFP (w/l/s)	0.2	0.2	0.3	0.3	0.3	0.4	0.9	2.0	-
<b>Mellizo 700 EcoWatt</b>	Airflow (m <sup>3</sup> /s)	0.199	0.192	0.186	0.178	0.170	0.149	0.117	0.064	0.038
	SFP (w/l/s)	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.8	1.4
<b>Mellizo 1000 EcoWatt</b>	Airflow (m <sup>3</sup> /s)	0.292	0.285	0.277	0.269	0.261	0.242	0.220	0.195	0.148
	SFP (w/l/s)	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7
<b>Mellizo 1300 EcoWatt</b>	Airflow (m <sup>3</sup> /s)	0.354	0.343	0.333	0.322	0.311	0.289	0.266	0.241	0.207
	SFP (w/l/s)	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6
<b>Mellizo 1600 EcoWatt</b>	Airflow (m <sup>3</sup> /s)	0.435	0.425	0.416	0.406	0.396	0.374	0.351	0.326	0.297
	SFP (w/l/s)	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6

## Inlet/Outlet Sound Levels

### 100% Speed Setting

Mellizo 400 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	30	38	50	56	54	54	52	41	61	41	23
	100	31	40	49	55	54	53	52	40	60	40	22
	200	33	47	54	57	57	55	53	40	63	43	25

### 100% Speed Setting

Mellizo 700 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	34	43	57	62	61	61	59	51	68	48	30
	150	34	43	54	60	60	60	56	47	66	46	28
	250	39	50	58	61	62	62	56	45	68	48	30

### 100% Speed Setting

Mellizo 1000 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	36	45	62	66	65	66	63	57	72	52	36
	225	37	46	58	63	64	64	58	52	70	50	34
	325	42	53	61	64	65	66	58	48	71	51	35

### 100% Speed Setting

Mellizo 1300 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	36	46	64	67	67	68	65	60	74	54	38
	200	38	47	60	65	67	67	60	55	72	52	36
	375	45	55	63	67	68	70	60	51	74	54	38

### 100% Speed Setting

Mellizo 1600 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	38	48	67	70	71	71	68	64	77	57	42
	200	40	48	63	68	70	70	62	59	75	55	40
	300	47	56	65	68	70	73	61	54	76	56	41



## Inlet/Outlet Sound Levels

### 60% Speed Setting

Mellizo 400 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	20	29	41	47	45	45	43	31	52	32	14
	40	22	31	39	46	44	43	43	30	51	31	13
	80	15	15	22	24	28	27	26	15	33	13	0

### 60% Speed Setting

Mellizo 700 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	24	34	48	53	52	52	50	41	59	39	21
	60	25	24	45	51	51	50	47	38	56	36	18
	110	30	41	49	52	53	53	47	36	58	38	20

### 60% Speed Setting

Mellizo 1000 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	27	36	53	57	57	57	54	48	63	43	27
	100	28	37	49	55	56	55	50	44	61	41	25
	140	33	44	52	55	56	57	49	39	62	42	26

### 60% Speed Setting

Mellizo 1300 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	28	37	55	59	59	59	56	51	65	45	29
	90	29	38	52	56	58	58	51	46	63	43	27
	160	37	46	54	58	59	61	51	43	65	45	29

### 60% Speed Setting

Mellizo 1600 EcoWatt	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	0	29	39	59	61	62	63	59	56	68	48	33
	100	31	40	55	59	61	62	63	50	66	46	31
	180	39	48	56	60	62	64	53	45	68	48	33

## Mellizo EcoWatt Range Accessories



REB-ECOWATT (0-10V)  
Remote (Wired) Speed  
Controller



AIRSENS RF CO2  
Radio Frequency  
CO2 Sensor



AIRSENS RF VOC  
Radio Frequency  
VOC Sensor



AIRSENS RF RH  
Radio Frequency  
Humidity Sensor



AIRSENS TEMP  
Radio Frequency  
Temperature Sensor



REC.AIRSENS RF  
Radio Frequency  
Receiver



7-DAY Programmable  
Time-Clock



CPTA-S PIR Sensor  
(Surface Mount)



TDP-PI  
Pressure Sensor

## Mellizo EcoWatt Range Accessories



MELL-USD  
Rectangular to  
Circular Adaptor



MELL-SIL  
Silencer



MELL-APC  
Outlet Guard



MELL-ACOP RECT  
Rectangular Flexible  
Connection



MELL-MTOD  
Outlet Damper  
C/W Actuator

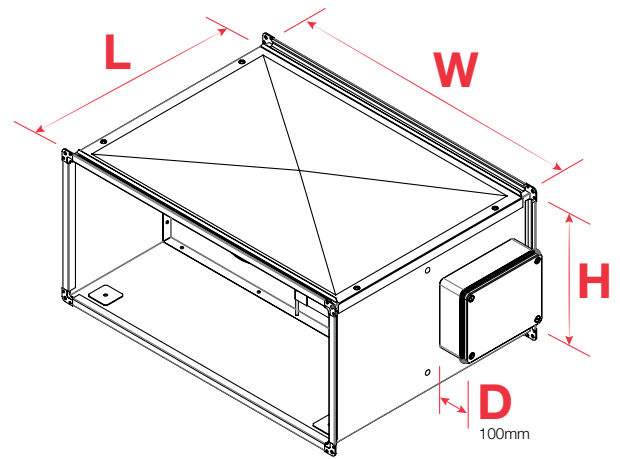


KSE-45  
Anti-Vibration  
Mounts



Introducing...

# MELLIZO<sup>XL</sup>



Following on from the success of Mellizo, we have now expanded our twin fan range to include larger sizes.

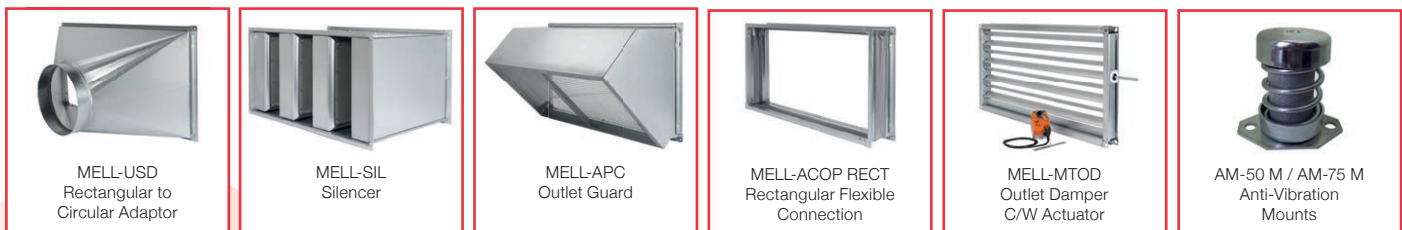
## XL Models & Dimensions

Model	Dimensions (W/H/L mm)	Flange (depth mm)	Weight (kg)	Electrical Supply	Mounting
Mellizo 3000 EcoWatt XL	1300/680/860	30	102	Single Phase 230V - 50Hz	Horizontal
Mellizo 6000 EcoWatt XL	1500/798/978	30	130	Single Phase 230V - 50Hz	Horizontal
Mellizo 12000 EcoWatt XL	1780/908/1108	30	230	Three Phase 400V - 50/60Hz	Horizontal

## XL Performance Under Pressure

Model	Speed (r.p.m)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)	Maximum Airflow (m <sup>3</sup> /s)	Sound Pressure Level dB(A) at 3 metres		
					Inlet	Breakout	Outlet
Mellizo 3000 EcoWatt XL	1799	347	1.4	0.85	61	46	57
Mellizo 6000 EcoWatt XL	1459	1021	4.2	1.77	62	51	61
Mellizo 12000 Ecowatt XL	1380	2653	3.9	3.2	67	52	68

## Mellizo XL Accessories



## XL Inlet Sound Levels

100% Speed Setting																
Mellizo 3000 EcoWatt XL	Static Pressure (Pa)	Sound Power Levels								Lw(A)	Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory				
		63	125	250	500	1000	2000	4000	8000							
		0	49	62	75	76	73	71	70				65	<b>81</b>	<b>61</b>	<b>41</b>
		160	47	60	73	75	71	70	68				61	<b>79</b>	<b>59</b>	<b>39</b>
320	43	60	71	74	70	69	64	57	<b>78</b>	<b>58</b>	<b>38</b>					

## XL Inlet Sound Levels continued

### 100% Speed Setting

Mellizo 6000 EcoWatt XL	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	<b>0</b>	61	75	73	77	74	73	68	60	<b>82</b>	<b>62</b>	<b>42</b>
	<b>220</b>	56	72	71	73	72	71	67	60	<b>79</b>	<b>59</b>	<b>39</b>
	<b>450</b>	58	72	70	74	71	71	65	57	<b>79</b>	<b>59</b>	<b>39</b>

### 100% Speed Setting

Mellizo 12000 EcoWatt XL	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	<b>0</b>	61	75	78	81	80	79	77	71	<b>87</b>	<b>67</b>	<b>47</b>
	<b>620</b>	54	70	73	75	76	77	75	70	<b>83</b>	<b>63</b>	<b>43</b>
	<b>800</b>	55	75	72	73	74	77	75	71	<b>83</b>	<b>63</b>	<b>43</b>

### 60% Speed Setting

Mellizo 3000 EcoWatt XL	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	<b>0</b>	39	52	65	66	63	61	60	55	<b>71</b>	<b>51</b>	<b>31</b>
	<b>80</b>	40	53	66	68	64	63	61	54	<b>72</b>	<b>52</b>	<b>32</b>
	<b>165</b>	36	53	64	67	63	62	57	50	<b>70</b>	<b>50</b>	<b>30</b>

### 60% Speed Setting

Mellizo 6000 EcoWatt XL	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	<b>0</b>	49	65	64	66	65	64	60	53	<b>72</b>	<b>52</b>	<b>32</b>
	<b>120</b>	49	65	64	66	65	64	60	53	<b>72</b>	<b>52</b>	<b>32</b>
	<b>240</b>	44	62	62	64	64	63	60	55	<b>70</b>	<b>50</b>	<b>30</b>

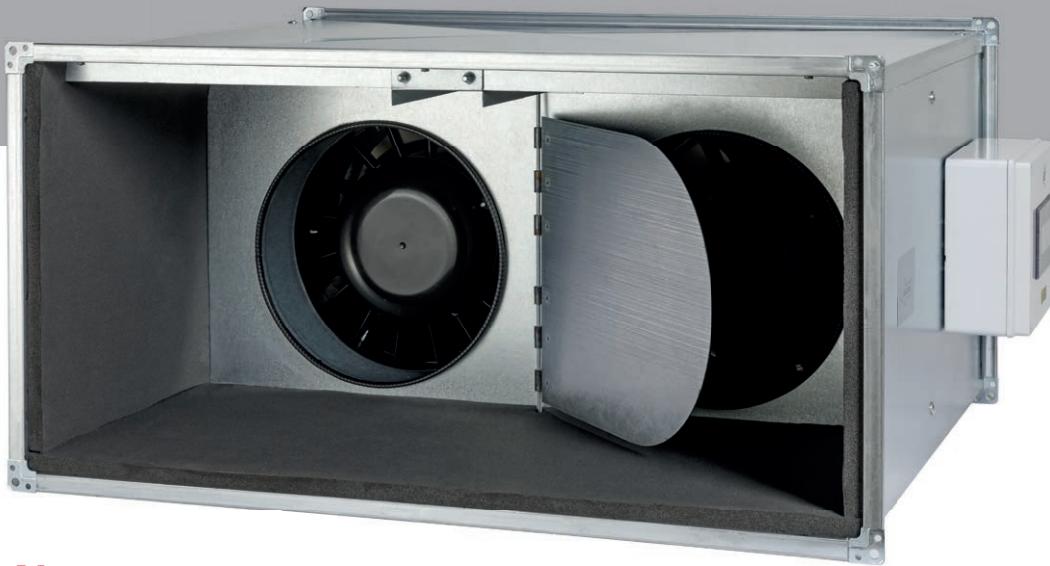
### 60% Speed Setting

Mellizo 12000 EcoWatt XL	Static Pressure (Pa)	Sound Power Levels									Sound Pressure Levels (LpA) at 3 metres	Lw(A) with Additional Attenuator Accessory
		63	125	250	500	1000	2000	4000	8000	Lw(A)		
	<b>0</b>	52	66	69	72	71	70	68	62	<b>78</b>	<b>58</b>	<b>38</b>
	<b>280</b>	45	61	64	66	67	68	66	61	<b>74</b>	<b>54</b>	<b>34</b>
	<b>340</b>	46	66	63	64	65	68	66	62	<b>74</b>	<b>54</b>	<b>34</b>

RIKKI WEBSTER, DIRECTOR  
EDGE VENTILATION



**S&P UK** have continuously provided an exceptional and professional service to match the products which they offer. They are our first port of call when it comes to mechanical ventilation products due to their quality, reliability and customer care. ”



## About us

S&P UK is the UK division of the world's largest ventilation and air movement products manufacturer, Soler & Palau (S&P Global).

S&P Global is headquartered in Spain and dates to the 1950s. We have a global presence in over 90 countries, manufacturing facilities in 12 countries, and advanced research and development centres in Europe, Asia, USA and Mexico.



**We are proud to have provided ventilation solutions for over 100,000 UK businesses both big and small.**

**Get in touch and see how we could work with you?**



**S&P UK Ventilation Systems Limited | 01473 276890**



**| enquiries.uk@solerpalau.com | www.solerpalau.co.uk**