



PLA-RP140BA2

Power Inverter Heat Pump

R410A High COP 4-Way Blow Ceiling Cassette System

Advanced inverter technology makes the Mr Slim Power Inverter the number one choice for improving comfort. They provide energy savings of up to 70% annually when compared to a previous non-inverter model. Operating noise has also been reduced thanks to improvements in fan design, while existing pipe work is reusable for easier maintenance and installation.

- **Airflow controllable for ceiling heights up to 4.2m, with automatic adjustment of fan speed**
- **Reduced draft air distribution, with independent vane control**
- **Filter lowering operation down to 4m (optional PLP-6BAJ grille required)**
- **Optional 'I See Sensor' for energy saving and smooth temperature control throughout the room**



Pictures not to scale

Product Details

PLA-RP140BA2 Indoor Unit

Capacity (kW):	
Heating (Nominal) (Low - High)	16.00 (5.70 - 18.00)
Cooling (Nominal) (Low - High)	14.00 (6.20 - 15.30)
Heating (UK) (Low - High)	13.60 (4.85 - 15.30)
Cooling (UK) (Low - High)	12.90 (5.70 - 14.10)
SHF R410A (Nominal)	0.71
COP / EER (Nominal)	3.7 / 3.21
Energy Label Heating / Cooling	A / A
Width (grille) - mm	840 (950)
Depth (grille) - mm	840 (950)
Height (grille) - mm	298 (35)
Weight (grille) - kg	27 (6)
Airflow (m3/min) - Lo-Mi1-Mi2-Hi	24-26-29-32
Noise (dBA) - Lo-Mi1-Mi2-Hi	36-39-42-44
Pipe Size Gas mm (in)	15.88 (5/8)
Pipe Size Liquid mm (in)	9.52 (3/8)
Electrical Supply	Fed by Outdoor Unit
Phase	Single
Fuse Rating (BS88) - HRC (A)	6
Interconnecting Cable No. Cores	4
Grille Ref	PLP-6BA GRILLE

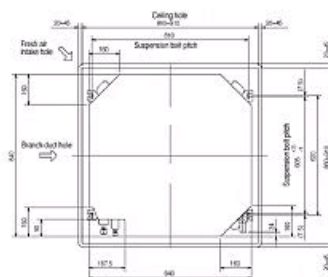
PUHZ-RP140VKA Outdoor Unit

Width - mm	1050
Depth - mm	330+30
Height - mm	1338
Weight - kg	118
Noise (dBA) (Heating /Cooling) - Lo-Hi	52 /47-50
Electrical Supply	220-240v, 50Hz
Phase	Single
Fuse Rating (BS88) - HRC (A)	32
SystemPower Input (kW) - Heating (Nominal)	4.32
SystemPower Input (kW) - Cooling (Nominal)	4.36
SystemPower Input (kW) - Heating (UK)	3.84
SystemPower Input (kW) - Cooling (UK)	3.71
Starting Current (A)	5
SystemRunning Current (A) - Heating / Cooling	19.76 / 19.9
Mains Cable No. Cores	3
Max Pipe Length (m)	75
Max Height Difference (m)	30
Charge (kg) - 30m	5

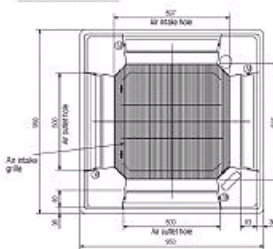
Dimensions

PLA-RP140BA2

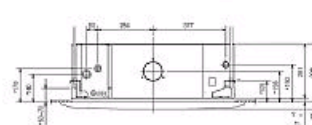
Upper View >



Front View >

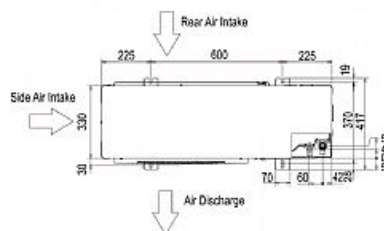


Side View >

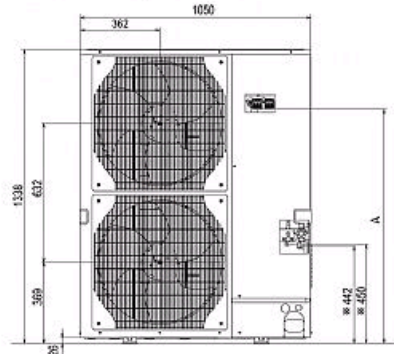


PUHZ-RP140VKA

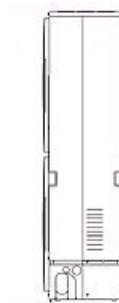
Upper View >



Front View >



Right Side View >



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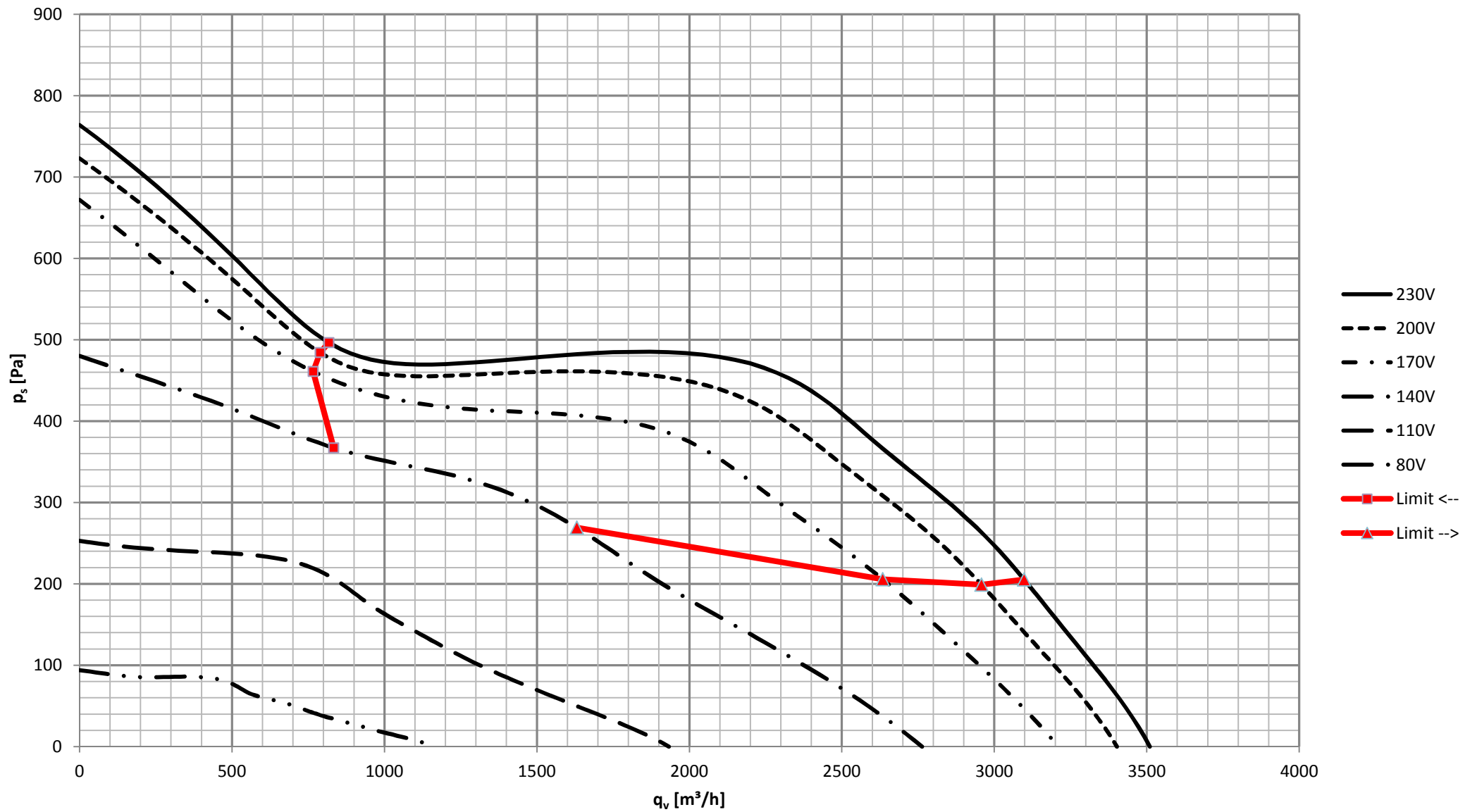


**Product data according to Commission Regulation (EU) Nr. 1253/2014
of 7th Juli 2014**



Manufacturer name		ruck Ventilatoren GmbH	
Article no.		112202	
Model name		EL 315 E2 01	
Type of the ventilation unit (VU)		NRVU, UVU without air treatment	
Speed control installed or intended to be installed		MSD (multiple speed drive)	
Type of the heat recovery system (HRS)		no heat recovery system	
thermal efficiency of HRS	$\eta_{t,NRVU}$	-	[%]
Nominal flow rate	$q_{v,nom}$	0,815	[m³/s]
Electrical power input	$P_{e,nom}$	0,528	[kW]
Internal specific fan power	SFP_{int}	-	[Ws/m³]
Face velocity	v_{nom}	10,530	[m/s]
Nominal external pressure	$p_{s,nom}$	272	[Pa]
internal pressure drop of ventilation components	$p_{s,int,nom}$	-	[Pa]
internal pressure drop of additional non-ventilation components	$p_{s,add,nom}$	-	[Pa]
Static efficiency of supply fan according Regulation (EU) No 327/2011	$\eta_{es,SUP}$	52,7	[%]
Static efficiency of exhaust fan according Regulation (EU) No 327/2011	$\eta_{es,EHA}$	-	[%]
External leakage rate		-	[%]
Internal leakage rate		-	[%]
Energy performance of the supplyfilter (energy classification)		-	
Energy performance of the exhaustfilter (energy classification)		-	
Description of visual filter warning		-	
Casing sound power level	L_{WA2}	63	[dB(A)]
Internet address		www.ruck.eu	
Accordance to regulation (EU) No 1253/2014		product is compliant 2016	

EL 315 E2 01





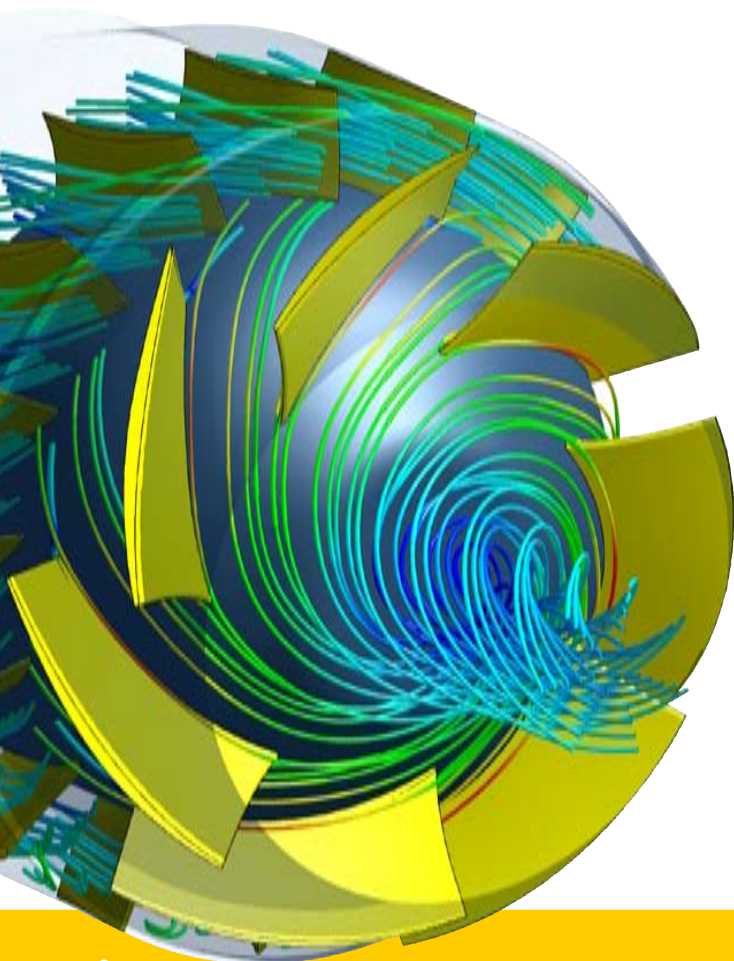
ETALINE – The energy saving fan

Saves Energy · Saves Space · Saves Money





Responsibility for man and nature



ETALINE saves Energy

ETALINE is the first fundamental innovation in new ventilator product development in decades. The development goal was, through effective aerodynamics, reduce the energy consumption of the fan. The R&D was with intense use of advanced CFD (Computational Fluid Dynamics) software. The implementation of the calculation results made new design elements and manufacturing methods for the ventilators necessary.

ETALINE in its range of fans is with the **highest efficiency** and thus with the **lowest power consumption** on the market!

Please compare!

The main design elements:

- **Rotor with adjoining stator**

Unlike normal low pressure fans ETALINE has a fixed stator, which at rotor outlet converts unwanted turbulence into usable static pressure. This leads to a significant pressure and efficiency increase.

Rising energy and raw material prices are driving inflation and jeopardizing prosperity and the social certitude of broad population classes. In addition, the protection of our environment requires major efforts in saving energy and raw materials.

These global challenges require new products that use significantly less energy and raw material resources, which are becoming increasingly scarce.

The objectives for commencing development were to clearly reduce energy and raw material consumption of ventilators through significantly improved aerodynamics as opposed to other existing solutions.

ETALINE - Pure efficiency

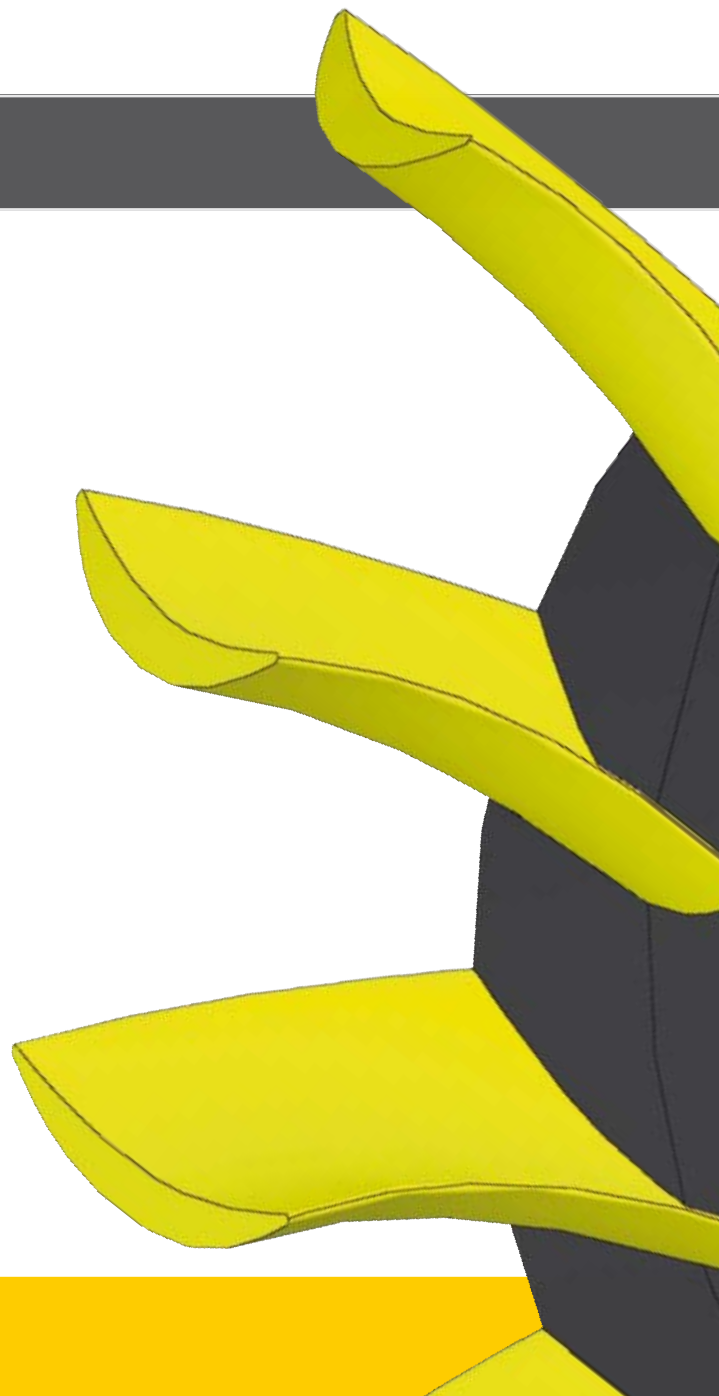
- **Three-dimensional, curved blades**

ETALINE is the first ventilator in its performance segment with real, three-dimensionally shaped rotor and stator blades. This makes it possible for the rotor and stator to be ventilated correctly. The pressure profile in the blade surface can also be designed significantly more effectively and without loss.

- **Continuous meridian channel**

The air stream always flows in the ventilator so that no loss-making displacements can form. The drive motors are housed in the stator hub, without disruptive influence on the aerodynamics of the rotor and protected from contamination.

All conventional motors can be used. Voltage and frequency controllable AC motors and EC motors. The combination with different drive motors and the high aerodynamic efficiency of ETALINE sets new benchmarks for energy saving and efficiency.





ETALINE - Lightweight and uncomplicated

ETALINE saves Space

The highly efficient, aerodynamic design also achieves high performance density. Therefore, the outer dimensions of the ventilator are equal to the connection diameter. When used as an INLINE ventilator, no additional installation space is required and it is aesthetically attractive if installed in full view.

Compact dimensions are becoming increasingly important in times of explosive raw material and energy prices. Reduced use of valuable raw materials and lower transport volume.

Smaller motor dimensions due to very high efficiency, lower material use due to high performance density and the use of saltwater-proof aluminium alloy (from model 400 mm) make ETALINE a „lightweight“ and significantly facilitates installation.

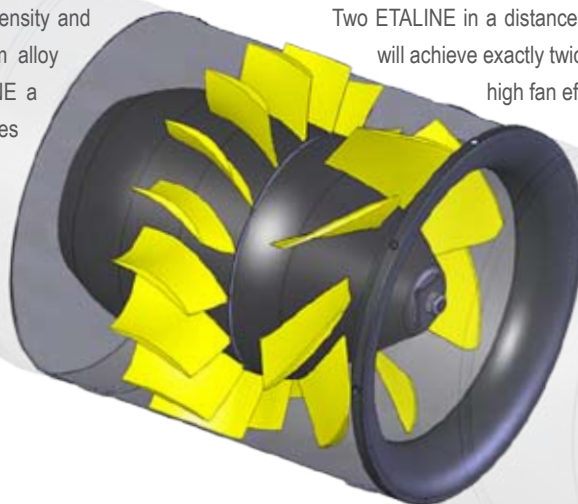
ETALINE is Complete

ETALINE is an Inline Tube Fan designed for direct installation to a duct system.

Compared to conventional fans, whether forward or backward curved, ETALINE requires no additional housing. Thus there are no additional mounting pressure losses or expenses for a housing.

On the contrary, via uniform, turbulence free airflow through a very efficient working stator, the pressure losses in adjoining parts are lower.

Two ETALINE in a distance of only 20% of duct diameter in series will achieve exactly twice the pressure build-up with unchanged high fan efficiency.





ETALINE - Is cost effective

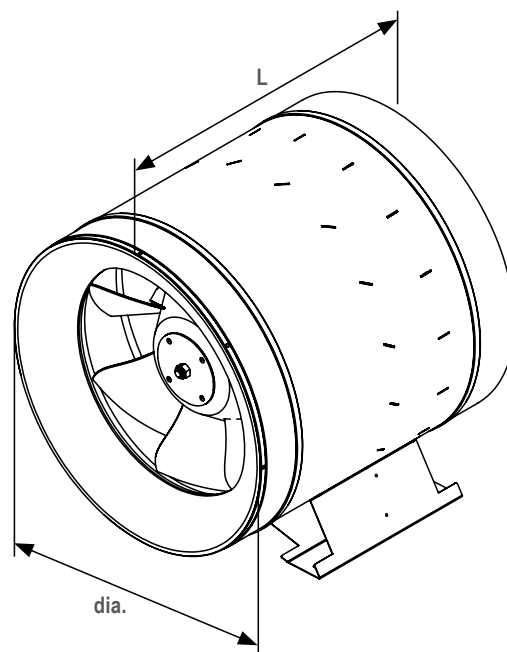
ETALINE **saves Money**

A high efficiency fan causes lower power consumption and thus lower operating costs. This is even more important when considering that electricity accounts for approximately 70...90 % of the lifetime costs.

Extraordinary is that such an energy-saving product is not expensive, but usually more favourable in price than solutions with well-known fans.



Over a wide range the ETALINE has three different types of drive motors available. Thus, you have the possibility for selecting the optimal fan for your application. Common to all versions is a very high aerodynamic efficiency of the fan and the absolute top position in total efficiency and thus in energy savings.

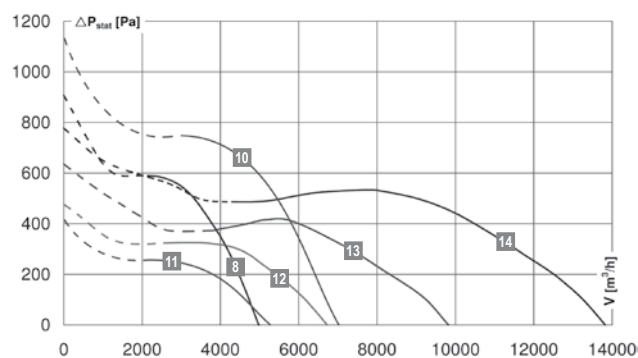
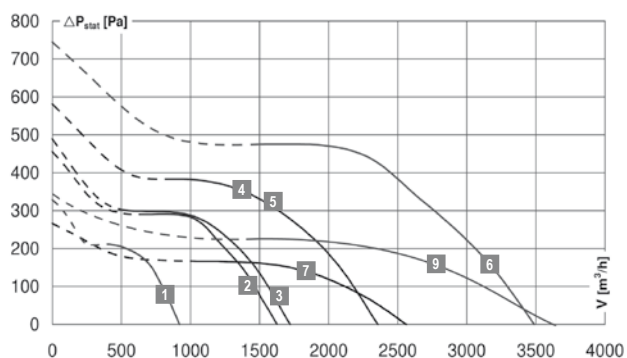


ETALINE with voltage controllable motors

These fans can be connected directly to a 230 V/50 Hz mains supply, or with a transformer for variable speed regulation.

Type		Motor Characteristic			total efficiency		Dimensions		Weight	Available
		U [V]	P ₁ [W]	I _{max} [A]	η _{ia} [%]	η _h [%]	Ø dia. [mm]	L [mm]	[kg]	
EL 200 E2 01	1	230V ~	100	0,5	33,0	38,2	201	225	2,9	Available
EL 250 E2 06	2	230V ~	160	0,8	46,9	52,9	250	215	5,3	Available
EL 250 E2 01	3	230V ~	180	1	44,7	48,8	250	278	6,4	Available
EL 280 E2 02	4	230V ~	270	1,6	50,6	54,8	281	308	8,3	Available
EL 315 E2 03	5	230V ~	270	1,6	50,6	54,8	315	308	8,4	Available
EL 315 E2 01	6	230V ~	520	3,2	51,3	55,7	315	351	14,2	Available
EL 355 E4 01	7	230V ~	160	1,2	44,4	48,7	354	396	13,5	Available
EL 355 E2 01	8	230V ~	960	5,4	50,6	55,0	354	396	17,3	Available
EL 400 E4 01 ¹	9	230V ~	290	2,0	44,0	48,0	403	417	16,0	Feb. 09
EL 400 E2 01 ¹	10	230V ~	1750	10,0	50,0	55,0	403	417	22,0	March 09
EL 450 E4 01 ¹	11	230V ~	480	3,5	44,6	48,3	453	467	19,3	Nov. 08
EL 500 E4 01	12	230V ~	700	3,7	49,8	53,9	504	515	23,2	Available
EL 560 E4 01 ¹	13	230V ~	1120	7,3	52,5	56,4	564	582	37,2	Dec. 08
EL 630 E4 01 ¹	14	230V ~	2130	11,5	56,7	61,2	634	655	43,5	Dec. 08

¹ Preliminary Technical Data

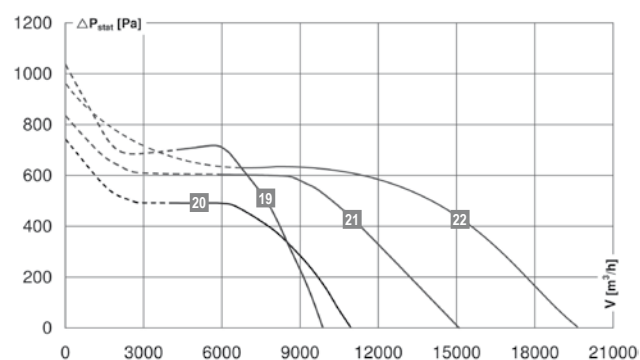
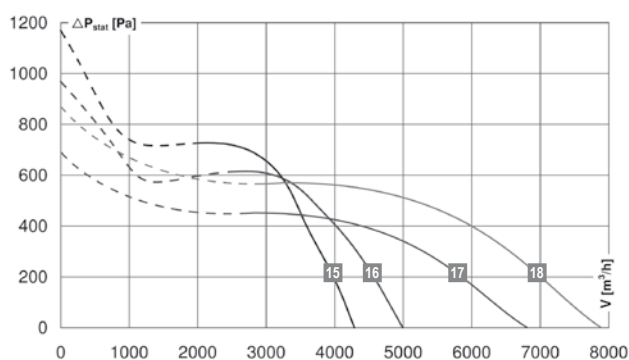


ETALINE with frequency controllable motors

These fans are designed for operation with frequency converters. The sizes 560, 630 and 710 can also be connected directly to 400 V/50 Hz three phase operation. Through frequency control the efficiency in partial load is also very high.

Type		Motor Characteristic			total efficiency		Dimensions		Weight	Available
		U [V]	P _i [W]	I _{max} [A]	η _{ts} [%]	η _{lt} [%]	Ø dia. [mm]	L [mm]	[kg]	
EL 315 D2 01	15	230V 3~Y	935	3,3	56,7	60,9	315	355	15,5	Available
EL 355 D2 01	16	230V 3~Y	920	3,2	55,5	59,7	354	396	17,5	Available
EL 400 D4 01 ¹	17	230V 3~Y	750	2,6	55,0	61,0	403	417	16,0	Feb. 09
EL 450 D4 01 ¹	18	230V 3~Y	1200	4,2	56,5	61,3	453	467	18,8	Nov. 08
EL 500 D4 01	19	230V 3~Y	2030	7,1	60,0	64,5	504	515	23,6	Available
EL 560 D4 01 ¹	20	400 ~	1550	4,0	57,5	63,0	564	582	29,0	Dec. 08
EL 630 D4 01	21	400 ~	2745	5,4	62,5	67,2	634	654	39,0	Available
EL 710 D4 01 ¹	22	400 ~	4100	14,4	63,0	69,0	714	732	48,0	Feb. 09

¹ Preliminary Technical Data

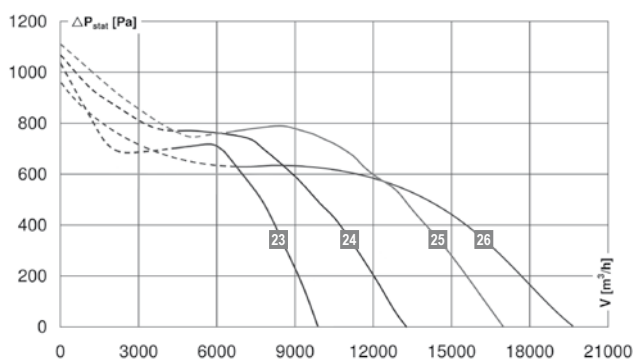


ETALINE with EC motors

ETALINE with EC motors are by far the most energy saving fans on the market. Both in full and partial load operation, the fan total efficiency is very high.

Type		Motor Characteristic			total efficiency		Dimensions		Weight	Available
		U [V]	P _i [W]	I _{max} [A]	η _{ts} [%]	η _{lt} [%]	Ø dia. [mm]	L [mm]	[kg]	
EL 500 EC 01 ¹	23	400 ~	1850	3,3	69,1	75,0	504	515	27,5	Nov. 08
EL 560 EC 01 ¹	24	400 ~	2150	3,8	69,0	75,0	564	582	31,0	
EL 630 EC 01 ¹	25	400 ~	2850	4,9	69,9	75,5	634	654	36,8	Nov. 08
EL 710 EC 01 ¹	26	400 ~	3420	6,1	69,0	75,0	714	732	43,0	

¹ Preliminary Technical Data





ETALINE



In Line Tube Fans



Exhaust Fans



Roof Fans



Air Handling Units



Duct Fans

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PRODUCT DATASHEET

THE DISCARB CELL – GAS PHASE FILTRATION

Carbon filtration is ideal for removing unpleasant or even dangerous odours and gases from a wide variety of sources. The ever increasing awareness of this problem from public health authorities and environmentalists has resulted in an increase in the use of the unique properties of activated carbon filtration. Carbon will adsorb chemical molecules in the airstream in varying degrees according to the type of contaminant and the period of time the air remains resident in the carbon.

Activated Carbon in its loose granular form can present problems as there is a tendency for the granules to abrade one another. This causes both settlement of the carbon creating potential bypass voids and produces carbon dust that can be re-entrained into the air-stream. The unique bonding method eradicates these problems by producing a solid and stable biscuit of consistent quality and dimensional stability that produces an even resistance. Once formed the biscuits are bonded in 'V' formation into a rigid galvanised steel casing.



Applications

Typical applications for carbon include:

- incoming air in industrial plants
- airports
- art galleries etc. or
- outgoing air in kitchens
- industrial processes
- sewage plants etc.

Operational Criteria

In order to ensure a carbon filter operates satisfactorily, certain criteria need to be met which do not apply to particulate filters. The most important aspect is the "dwell time" (the period of time the air is in contact with the carbon). The minimum dwell time used is 0.1 seconds and this is shown below as maximum permissible airflow. The dwell time may vary considerably according to the contaminant to be removed.

As far as possible water vapour should be eradicated from the air-stream to eliminate condensation within the filter that could cause porous blockage causing a dramatic increase in resistance. This also applies to loose carbon. However, humidity levels as high as 80% RH are normally acceptable providing no interstitial condensation takes place.

Air-stream temperatures entering the filter in excess of 40°C should be avoided. In the case of anticipating temperatures above this level steps should be taken to reduce the temperature to an acceptable level by fresh air bleed, cooling coil or heat exchanger. In catering and food preparation applications, smoke and grease must be removed from the air-stream prior to entry into the carbon.

Performance

Due to the complex nature of adsorption, carbon filters are generally designed to suit the application, however, the following information is given as an indication of the physical requirements for its use. An extensive range of standard sizes are available, some of the more common are shown below. Non-standard sizes are available to order.

Typical Discarb Size (HxWxD)	Max Permissible Airflow (m ³ /hr) at 0.1 sec dwell time	Resistance at 0.1 sec (pa)	Filter Weight - kg
594x594x298	1900	98	42
594x594x451	2890	130	65
594x594x597	3825	195	85
594x297x597	1900	195	48
451x451x597	1955	180	42
298x298x298	476	98	10

Maximum Temperature: 40°C

Maximum Humidity: 80% RH

Please note: In their continuous search for product improvement Westbury Filtermation reserve the right to change materials and specifications without prior notice.



PRODUCT DATASHEET

THE CARBOPLEAT DISPOSABLE PANEL - GAS PHASE FILTRATION

The Carbopleat Disposable panel filter provides a low cost but effective solution to removing airborne molecular contamination at levels of less than one particle per million. It provides low resistance to air with uniform dispersion of carbon throughout the media. Being fully incinerable, the product is particularly suited for application where this form of disposal of the spent filter is anticipated.

Construction

The Carbopleat Filter contains a dual layer core of pleated carbon impregnated media that is so stiff, it is self supporting and requires no additional metal supporting wire. The pre-filter layer of the media also provides G4 efficiency to EN779. The media is loaded with 220g/m² of 60x50 mesh activated carbon making it both highly effective and long lasting. Adhesive is not used in the media, with the carbon granules thermally bonded into the media; this ensures that 95% of the carbon's surface is utilized in use.

The aerodynamic pack is then fully bonded into a moisture resistant rigid white lined card frame and fitted with an airflow indicator.



Applications

The carbopleat is suitable for most applications to remove airborne molecular contamination at levels of less than one particle per million, typically, furnaces, heating vents, air purifiers and ozone removal devices.

Range

The FP/PL is available in a large range of standard sizes in 2" (50mm) nominal depth and may also be produced in non-standard sizes to suit application requirements.

The key attributes of the product are consistent efficiency, robust construction and long life combined with low replacement cost.

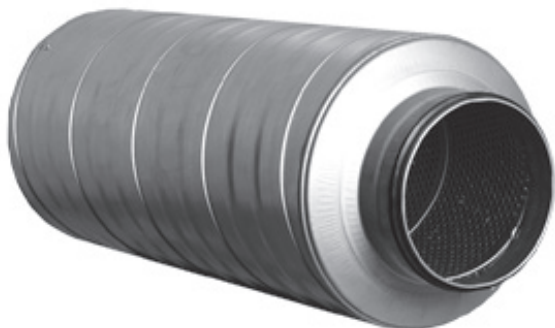
Filter Reference	Dimensions	Media Area (m2)	Rated Capacity (m3/hr)	Initial Resistance (pa)	Carbon Weight (g)
FP/CPL 24242	595x595x47mm	1.18	2040	70	232
FP/CPL 24122	595x296x47mm	0.55	1020	70	109
FP/CPL 24202	595x495x47mm	0.93	1700	70	186

Please note: In their continuous search for product improvement Westbury Filtration reserve the right to change materials and specifications without prior notice.

Circular silencers

SIL

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**Description**

The silencers are usually supplied with SPIRAL®system sealing. Diameters $d_1 > 315$ mm require additional NSL couplings to be ordered, which should be installed in the silencer prior to installation. These male ends are not silencer parts, and they should be ordered separately.

Glass mineral wool inside with thickness:

50 mm dla SIL-50 - depending on the dimension of the outer casing

100 mm dla SIL-100 - depending on the dimension of the outer casing

Example identification

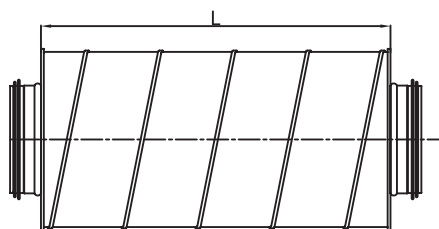
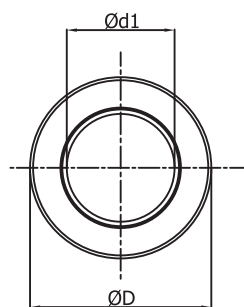
Product code: **SIL - iii - aaa - bbb**

type _____

insulation thickness _____

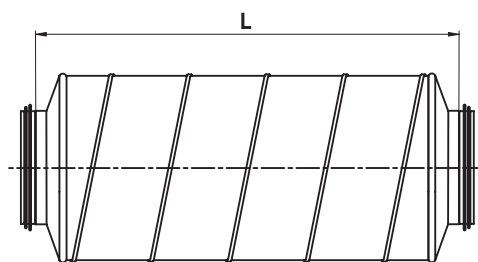
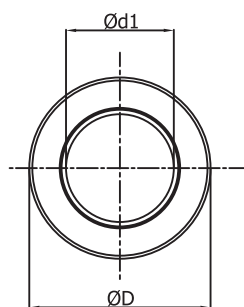
$\varnothing d_1$ _____

L _____

Dimensions

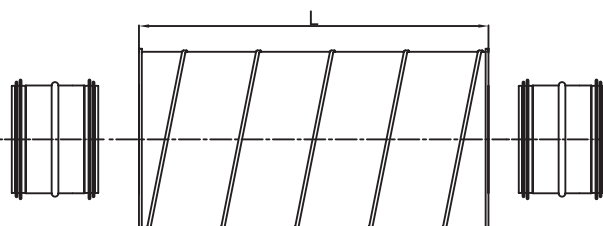
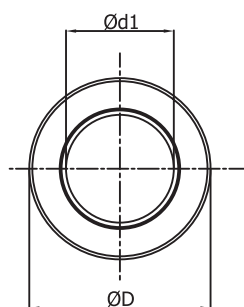
Cross-section for individual types: SIL, SIRC, $d_1 \leq 315$ mm.

Not applicable diameters: D-100, D-125, D-160, D-200, D-250 - in the embodiment of the insulation thickness of 50 mm.



Cross-section for silencers: SIL, SIRC in the embodiment of the insulation thickness of 50 mm and applicable diameters: D-100, D-125, D-160, D-200, D-250.

Silencers made with pressed reductions.



Cross-section for individual types: SIL, SIRC, $d_1 > 315$ mm

Circular silencers

SIL

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Dimensions

SIL-50 - 50 mm thickness insulation

Description	Ød, nom [mm]	D nom [mm]	L [mm]	attenuation [dB] for frequency [Hz]								[kg]
				125	250	500	1000	2000	4000	8000		
SIL	080-300	80	180	300	6	15	29	45	50	26	28	2
	080-500	80	180	500	9	18	32	48	53	29	31	3
	080-600	80	180	600	11	19	33	49	54	30	32	3
	080-900	80	180	900	13	22	36	52	57	33	35	5
	080-1000	80	180	1000	14	23	37	53	58	34	36	6
	080-1200	80	180	1200								7
SIL	*100-300	100	200	350	5	13	26	41	44	22	24	2
	*100-500	100	200	550	8	16	29	44	47	26	27	3
	*100-600	100	200	650	9	17	30	45	49	27	29	3
	*100-900	100	200	950	12	19	32	48	51	29	31	5
*	100-1000	100	200	1050	13	21	34	49	52	30	32	6
*	100-1200	100	200	1250								7
SIL	*125-300	125	224	350	4	11	22	37	41	19	21	3
	*125-500	125	224	550	7	14	26	40	44	22	24	4
	*125-600	125	224	650	8	15	27	41	45	24	25	4
	*125-900	125	224	950	11	18	29	44	47	26	28	7
*	125-1000	125	224	1050	12	19	31	45	49	27	29	7
*	125-1200	125	224	1250								9
SIL	150-300	150	250	300	4	11	23	34	36	18	19	4
	150-500	150	250	500	7	14	26	37	39	21	22	4
	150-600	150	250	600	8	15	27	39	41	22	23	6
	150-900	150	250	900	11	18	29	42	43	25	26	8
	150-1000	150	250	1000	12	19	30	42	44	26	27	8
	150-1200	150	250	1200								10
SIL	*160-300	160	250	350	3	9	20	33	35	16	18	3
	*160-500	160	250	550	6	12	23	36	38	19	21	5
	*160-600	160	250	650	7	14	24	37	39	21	22	6
	*160-900	160	250	950	10	16	26	40	42	23	25	8
*	160-1000	160	250	1050	11	17	28	41	43	24	26	8
*	160-1200	160	250	1250								10
SIL	*200-300	200	300	350	2	7	16	31	31	15	16	4
	*200-500	200	300	550	5	10	19	34	34	18	19	6
	*200-600	200	300	650	6	11	20	35	35	19	20	7
	*200-900	200	300	950	8	13	23	38	38	22	23	10
*	200-1000	200	300	1050	9	15	24	39	39	23	24	11
*	200-1200	200	300	1250								12
SIL	*250-500	250	355	550	4	9	18	29	27	15	16	9
	*250-600	250	355	650	5	11	19	30	28	16	18	11
	*250-900	250	355	950	8	13	22	33	31	19	20	14
*	250-1000	250	355	1050	9	14	23	33	32	20	21	12

SIL-50 - 50 mm thickness insulation

Description	Ød ₁ nom [mm]	D nom [mm]	L [mm]	attenuation [dB] for frequency [Hz]								[kg]
				125	250	500	1000	2000	4000	8000		
*	250-1250	250	355	1200	11	17	25	35	34	21	23	17
*	250-1550	250	355	1500	12	18	26	37	35	23	24	20
SIL	300-500	300	400	500	4	8	16	25	23	13	15	13
	300-600	300	400	600	5	10	18	27	25	14	16	15
	300-900	300	400	900	7	12	20	30	27	17	18	16
	300-1000	300	400	1000	8	13	21	30	28	18	19	19
	300-1200	300	400	1200	10	15	23	32	30	20	21	22
	300-1500	300	400	1500	12	17	24	34	32	21	23	25
SIL	315-500	315	400	500	4	7	14	23	21	13	14	11
	315-600	315	400	600	5	8	16	25	19	14	15	12
	315-900	315	400	900	7	11	18	28	21	17	18	16
	315-1000	315	400	1000	8	12	19	28	22	18	19	16
	315-1200	315	400	1200	10	14	21	30	24	19	21	19
	315-1500	315	400	1500	12	16	23	32	26	21	22	25
SIL	355-600	355	450	600	4	9	16	22	17	13	14	13
	355-900	355	450	900	7	11	19	25	19	16	17	18
	355-1000	355	450	1000	8	12	20	26	21	17	18	20
	355-1200	355	450	1200	10	15	22	27	22	18	20	22
	355-1500	355	450	1500	11	16	23	29	24	20	21	27
SIL	400-600	400	500	600	4	8	15	20	15	12	13	15
	400-900	400	500	900	6	10	18	23	17	15	16	20
	400-1000	400	500	1000	8	12	19	24	18	16	17	22
	400-1200	400	500	1200	9	14	21	25	20	17	19	25
	400-1500	400	500	1500	11	15	22	27	22	19	20	31
SIL	450-600	450	560	600	4	8	16	18	13	12	12	23
	450-900	450	560	900	6	11	18	21	16	15	15	27
	450-1000	450	560	1000	7	12	19	22	17	16	16	29
	450-1200	450	560	1200	9	14	21	23	18	17	17	31
	450-1500	450	560	1500	11	16	23	25	20	19	19	36
SIL	500-600	500	600	600	3	7	14	17	11	11	12	32
	500-900	500	600	900	6	9	16	20	14	13	14	42
	500-1000	500	600	1000	7	11	17	21	15	14	15	51
	500-1200	500	600	1250	9	13	19	22	17	16	17	59
	500-1500	500	600	1500	10	14	20	24	18	17	19	72

Circular silencers

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SIL-50 - 50 mm thickness insulation

Description		$\varnothing d_1$	D	L	attenuation [dB] for frequency [Hz]								[kg]
		nom [mm]	nom [mm]	nom [mm]	125	250	500	1000	2000	4000	8000		
SIL	560-900	560	630	900	6	9	15	19	13	12	14	31	
	560-1000	560	630	1000	7	10	16	20	14	13	15	34	
	560-1200	560	630	1200	9	13	18	21	15	15	16	39	
SIL	630-900	630	710	900	5	8	14	18	11	12	13	34	
	630-1000	630	710	1000	6	10	16	18	12	13	14	39	
	630-1200	630	710	1200	8	12	17	20	14	14	15	42	

* made with pressed lids

SIL-50 - 50 mm thickness insulation

Description	attenuation [Pa] for air velocity [m/s]				
	2	4	8	10	12
SIL-50-080-300	0,43	1,74	6,95	10,86	15,64
SIL-50-080-500	0,44	1,77	7,07	11,04	15,90
SIL-50-080-600	0,45	1,80	7,18	11,22	16,16
SIL-50-080-900	0,48	1,93	7,72	12,06	17,37
SIL-50-080-1000	0,50	2,01	8,03	12,54	18,06
SIL-50-080-1200					
SIL-50-100-300	0,36	1,42	5,68	8,88	12,79
SIL-50-100-500	0,36	1,44	5,76	9,00	12,96
SIL-50-100-600	0,37	1,47	5,88	9,18	13,22
SIL-50-100-900	0,40	1,61	6,45	10,08	14,52
SIL-50-100-1000	0,42	1,68	6,72	10,50	15,12
SIL-50-100-1200					
SIL-50-125-300	0,29	1,15	4,61	7,20	10,37
SIL-50-125-500	0,29	1,17	4,68	7,32	10,54
SIL-50-125-600	0,30	1,20	4,80	7,50	10,80
SIL-50-125-900	0,34	1,34	5,38	8,40	12,10
SIL-50-125-1000	0,35	1,41	5,64	8,82	12,70
SIL-50-125-1200					
SIL-50-150-300	0,34	1,34	5,38	8,40	12,10
SIL-50-150-500	0,34	1,36	5,45	8,52	12,27
SIL-50-150-600	0,35	1,39	5,57	8,70	12,53
SIL-50-150-900	0,38	1,54	6,14	9,60	13,82
SIL-50-150-1000	0,40	1,61	6,45	10,08	14,52
SIL-50-150-1200					
SIL-50-160-300	0,24	0,96	3,84	6,00	8,64
SIL-50-160-500	0,25	0,99	3,96	6,18	8,90
SIL-50-160-600	0,25	1,02	4,07	6,36	9,16
SIL-50-160-900	0,29	1,15	4,61	7,20	10,37
SIL-50-160-1000	0,31	1,23	4,92	7,68	11,06
SIL-50-160-1200					

SIL-50 - 50 mm thickness insulation

Description	pressure loss [Pa] for air velocity [m/s]				
	2	4	8	10	12
SIL-50-200-300	0,17	0,67	2,69	4,20	6,05
SIL-50-200-500	0,17	0,69	2,76	4,32	6,22
SIL-50-200-600	0,18	0,72	2,88	4,50	6,48
SIL-50-200-900	0,22	0,86	3,46	5,40	7,78
SIL-50-200-1000	0,24	0,94	3,76	5,88	8,47
SIL-50-200-1200					
SIL-50-250-500	0,18	0,74	2,96	4,62	6,65
SIL-50-250-600	0,19	0,77	3,07	4,80	6,91
SIL-50-250-900	0,23	0,91	3,65	5,70	8,21
SIL-50-250-1000	0,25	0,99	3,96	6,18	8,90
SIL-50-250-1200	0,35	1,39	5,57	8,70	12,53
SIL-50-250-1500	0,40	1,58	6,34	9,90	14,26
SIL-50-300-500	0,15	0,59	2,34	3,66	5,27
SIL-50-300-600	0,16	0,62	2,50	3,90	5,62
SIL-50-300-900	1,90	7,58	30,34	47,40	68,26
SIL-50-300-1000	0,21	0,84	3,34	5,22	7,52
SIL-50-300-1200	0,31	1,24	4,95	7,74	11,15
SIL-50-300-1500	0,37	1,50	5,99	9,36	13,48
SIL-50-315-500	0,12	0,50	2,00	3,12	4,49
SIL-50-315-600	0,13	0,53	2,11	3,30	4,75
SIL-50-315-900	0,17	0,67	2,69	4,20	6,05
SIL-50-315-1000	0,19	0,75	3,00	4,68	6,74
SIL-50-315-1200	0,29	1,15	4,61	7,20	10,37
SIL-50-315-1500	0,35	1,39	5,57	8,70	12,53
SIL-50-355-600	0,11	0,43	1,73	2,70	3,89
SIL-50-355-900	0,14	0,57	2,27	3,54	5,10
SIL-50-355-1000	0,16	0,64	2,57	4,02	5,79
SIL-50-355-1200	0,26	1,05	4,19	6,54	9,42
SIL-50-355-1500	0,33	1,33	5,34	8,34	12,01
SIL-50-400-600	0,09	0,37	1,50	2,34	3,37
SIL-50-400-900	0,13	0,52	2,07	3,24	4,67
SIL-50-400-1000	0,15	0,59	2,34	3,66	5,27
SIL-50-400-1200	0,25	1,00	3,99	6,24	8,99
SIL-50-400-1500	0,33	1,31	5,22	8,16	11,75
SIL-50-450-600	0,08	0,34	1,34	2,10	3,02
SIL-50-450-900	1,20	4,80	19,20	30,00	43,20
SIL-50-450-1000	0,14	0,56	2,23	3,48	5,01
SIL-50-450-1200	0,24	0,96	3,84	6,00	8,64
SIL-50-450-1500	0,31	1,25	4,99	7,80	11,23
SIL-50-500-600	0,07	0,29	1,15	1,80	2,59
SIL-50-500-900	0,11	0,43	1,73	2,70	3,89
SIL-50-500-1000	0,12	0,50	2,00	3,12	4,49

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SIL-50 - 50 mm thickness insulation

Description	pressure loss [Pa] for air velocity [m/s]				
	2	4	8	10	12
SIL-50-500-1200	0,23	0,91	3,65	5,70	8,21
SIL-50-500-1500	0,30	1,21	4,84	7,56	10,89
SIL-50-560-900	0,10	0,39	1,57	2,46	3,54
SIL-50-560-1000	0,12	0,47	1,88	2,94	4,23
SIL-50-560-1200	0,22	0,87	3,49	5,46	7,86
SIL-50-630-900	0,09	0,36	1,42	2,22	3,20
SIL-50-630-1000	0,11	0,43	1,73	2,70	3,89
SIL-50-630-1200	0,21	0,84	3,34	5,22	7,52

SIL-100 - 100 mm thickness insulation

100 mm thickness insulation													
Description		Ød ₁	D	L	attenuation [dB]								[kg]
		nom	nom		for frequency [Hz]								
		[mm]	[mm]	[mm]	125	250	500	1000	2000	4000	8000		
SIL	100-500	100	300	500	20	29	40	44	52	27	27	6	
	100-600	100	300	600	21	30	44	48	53	29	28	7	
	100-900	100	300	900	22	34	52	57	57	32	31	9	
	100-1000	100	300	1000	22	34	55	60	58	33	33	11	
	100-1200	100	300	1200	24	37	58	64	61	34	34	12	
SIL	125-300	125	315	300	17	24	38	42	51	26	28	5	
	125-500	125	315	500	18	26	36	42	49	25	25	8	
	125-600	125	315	600	18	26	36	42	49	25	25	8	
	125-900	125	315	900	20	30	48	55	54	29	30	11	
	125-1000	125	315	1000	20	31	51	58	55	31	31	13	
	125-1200	125	315	1200	21	34	54	62	58	31	33	13	
SIL	150-300	150	355	300	15	21	33	37	44	23	25	5	
	150-500	150	355	500	20	29	40	44	52	27	27	9	
	150-600	150	355	600	17	25	36	41	43	23	24	10	
	150-900	150	355	900	18	28	44	50	47	26	27	13	
	150-1000	150	355	1000	18	28	47	53	48	28	28	15	
	150-1200	150	355	1200	24	37	58	64	61	34	34	18	
SIL	160-300	160	355	300	16	21	29	34	41	20	23	7	
	160-500	160	355	500	17	23	28	34	39	19	20	9	
	160-600	160	355	600	17	24	32	38	40	21	21	10	
	160-900	160	355	900	18	27	40	47	44	24	25	14	
	160-1000	160	355	1000	19	28	43	50	45	25	26	14	
	160-1200	160	355	1200	20	31	46	54	48	26	28	17	
SIL	200-300	200	400	300	13	18	27	29	36	18	21	8	
	200-500	200	400	500	14	20	25	28	34	17	18	12	
	200-600	200	400	600	14	21	29	33	35	19	19	12	
	200-900	200	400	900	15	25	38	42	39	22	22	16	
	200-1000	200	400	1000	16	25	41	45	40	23	24	16	
	200-1200	200	400	1200	17	28	43	48	43	24	26	20	

SIL-100 - 100 mm thickness insulation

Description	Ød, nom [mm]	D nom [mm]	L [mm]	attenuation [dB] for frequency [Hz]								kg
				125	250	500	1000	2000	4000	8000		
SIL	250-500	250	450	500	11	17	22	26	29	15	16	16
	250-600	250	450	600	12	18	26	30	30	17	17	14
	250-900	250	450	900	13	22	34	39	34	20	20	20
	250-1000	250	450	1000	14	22	37	42	35	21	22	17
	250-1200	250	450	1200	15	25	40	46	38	22	23	24
	250-1500	250	450	1500	16	29	44	51	42	23	26	28
SIL	315-500	315	500	500	10	16	17	22	25	13	14	14
	315-600	315	500	600	14	17	21	26	26	15	15	16
	315-900	315	500	900	12	20	39	35	30	18	19	21
	315-1000	315	500	1000	12	21	32	38	31	19	20	22
	315-1200	315	500	1200	14	24	35	42	34	22	23	26
	315-1500	315	500	1500	15	28	39	47	38	21	25	35
SIL	355-600	355	560	600	10	15	20	23	23	13	14	26
	355-900	355	560	900	11	19	28	32	27	16	18	29
	355-1000	355	560	1000	11	19	31	35	28	18	19	33
	355-1200	355	560	1200	13	22	34	39	31	18	21	33
	355-1500	355	560	1500	14	26	38	44	35	19	24	47
SIL	400-600	400	600	600	9	15	18	21	20	12	11	21
	400-900	400	600	900	11	18	26	30	24	14	14	30
	400-1000	400	600	1000	11	18	29	33	25	16	16	29
	400-1200	400	600	1200	12	22	32	37	28	16	17	41
	400-1500	400	600	1500	14	26	36	42	32	17	20	51
SIL	450-600	450	630	600	9	14	16	18	17	10	10	32
	450-900	450	630	900	10	17	24	27	21	13	13	40
	450-1000	450	630	1000	10	18	27	30	22	15	15	36
	450-1200	450	630	1200	11	21	30	34	25	15	16	46
	450-1500	450	630	1500	13	25	34	39	29	16	19	56
SIL	500-600	500	710	600	8	13	14	15	15	10	9	23
	500-900	500	710	900	10	16	22	24	19	13	13	35
	500-1000	500	710	1000	10	17	25	27	20	14	14	39
	500-1200	500	710	1200	11	20	28	31	23	15	16	43
	500-1500	500	710	1500	13	24	32	36	27	16	19	50
SIL	560-900	560	800	900								39
	560-1000	560	800	1000								53
	560-1200	560	800	1200								56
	560-1500	560	800	1500								46
SIL	630-900	630	800	900	8	15	20	22	17	11	11	50
	630-1000	630	800	1000	9	15	23	25	18	12	12	48
	630-1200	630	800	1200	10	18	26	29	21	13	14	58
	630-1500	630	800	1500	11	22	29	34	25	14	17	66
SIL	710-1000	710	900	1000	8	14	20	23	16	11	10	59
	710-1200	710	900	1200	9	17	23	27	18	11	12	64

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SIL-100 - 100 mm thickness insulation

opis	Ød ₁	D	L	tłumienie [dB]								waga [kg]
	nom	nom		dla częstotliwości [Hz]								
	[mm]	[mm]	[mm]	125	250	500	1000	2000	4000	8000		
710-1500	710	900	1500	11	21	26	30	22	12	15	73	
SIL 800-1000	800	1000	1000	8	14	20	22	15	10	10	0	
800-1200	800	1000	1200	9	17	22	25	18	11	12	73	
800-1500	800	1000	1500	10	21	26	30	22	12	15	103	
SIL 900-1000	900	1120	1000	7	13	19	20	13	9	10	80	
900-1200	900	1120	1200	8	16	22	24	16	10	11	88	
900-1500	900	1120	1500	10	20	26	29	20	11	14	95	

SIL-100 - 100 mm thickness insulation

opis	pressure loss [Pa] for air velocity [m/s]				
	2	4	8	10	12
SIL-100-100-500	0,26	1,04	4,15	6,48	9,33
SIL-100-100-600	0,28	1,13	4,53	7,08	10,20
SIL-100-100-900	0,34	1,34	5,38	8,40	12,10
SIL-100-100-1000	0,35	1,40	5,61	8,76	12,61
SIL-100-100-1200	0,37	1,50	5,99	9,36	13,48
SIL-100-125-300	0,19	0,77	3,07	4,80	6,91
SIL-100-125-500	0,25	0,99	3,96	6,18	8,90
SIL-100-125-600	0,27	1,08	4,34	6,78	9,76
SIL-100-125-900	0,33	1,31	5,22	8,16	11,75
SIL-100-125-1000	0,34	1,36	5,45	8,52	12,27
SIL-100-125-1200	0,36	1,46	5,84	9,12	13,13
SIL-100-150-300	0,18	0,72	2,88	4,50	6,48
SIL-100-150-500	0,24	0,94	3,76	5,88	8,47
SIL-100-150-600	0,26	1,04	4,15	6,48	9,33
SIL-100-150-900	0,31	1,25	4,99	7,80	11,23
SIL-100-150-1000	0,33	1,31	5,22	8,16	11,75
SIL-100-150-1200	0,35	1,40	5,61	8,76	12,61
SIL-100-160-300	0,17	0,67	2,69	4,20	6,05
SIL-100-160-500	0,23	0,91	3,65	5,70	8,21
SIL-100-160-600	0,25	1,01	4,03	6,30	9,07
SIL-100-160-900	0,31	1,23	4,92	7,68	11,06
SIL-100-160-1000	0,32	1,29	5,15	8,04	11,58
SIL-100-160-1200	0,35	1,38	5,53	8,64	12,44
SIL-100-200-300	0,16	0,64	2,57	4,02	5,79
SIL-100-200-500	0,20	0,82	3,26	5,10	7,34
SIL-100-200-600	0,23	0,91	3,65	5,70	8,21
SIL-100-200-900	0,28	1,12	4,49	7,02	10,11
SIL-100-200-1000	0,30	1,18	4,72	7,38	10,63
SIL-100-200-1200	0,32	1,28	5,11	7,98	11,49
SIL-100-250-500	0,17	0,67	2,69	4,20	6,05
SIL-100-250-600	0,19	0,77	3,07	4,80	6,91

SIL-100 - 100 mm thickness insulation

Description	pressure loss [Pa] for air velocity [m/s]				
	2	4	8	10	12
SIL-100-250-900	0,24	0,98	3,92	6,12	8,81
SIL-100-250-1000	0,26	1,04	4,15	6,48	9,33
SIL-100-250-1200	0,28	1,13	4,53	7,08	10,20
SIL-100-250-1500	0,31	1,25	4,99	7,80	11,23
SIL-100-315-600	0,14	0,57	2,27	3,54	5,10
SIL-100-315-900	0,19	0,78	3,11	4,86	7,00
SIL-100-315-1000	0,21	0,84	3,34	5,22	7,52
SIL-100-315-1200	0,23	0,93	3,72	5,82	8,38
SIL-100-315-1500	0,26	1,05	4,19	6,54	9,42
SIL-100-355-500	0,12	0,47	1,88	2,94	4,23
SIL-100-355-600	0,11	0,44	1,77	2,76	3,97
SIL-100-355-900	0,17	0,66	2,65	4,14	5,96
SIL-100-355-1000	0,18	0,71	2,84	4,44	6,39
SIL-100-355-1200	0,20	0,81	3,23	5,04	7,26
SIL-100-355-1500	0,23	0,93	3,72	5,82	8,38
SIL-100-400-600	0,08	0,32	1,27	1,98	2,85
SIL-100-400-900	0,13	0,53	2,11	3,30	4,75
SIL-100-400-1000	0,15	0,59	2,34	3,66	5,27
SIL-100-400-1200	0,17	0,68	2,73	4,26	6,13
SIL-100-400-1500	0,20	0,80	3,19	4,98	7,17
SIL-100-450-600	0,05	0,19	0,77	1,20	1,73
SIL-100-450-900	0,10	0,40	1,61	2,52	3,63
SIL-100-450-1000	0,12	0,46	1,84	2,88	4,15
SIL-100-450-1200	0,14	0,56	2,23	3,48	5,01
SIL-100-450-1500	0,17	0,67	2,69	4,20	6,05
SIL-100-500-600	0,02	0,08	0,31	0,48	0,69
SIL-100-500-900	0,07	0,29	1,15	1,80	2,59
SIL-100-500-1000	0,09	0,35	1,38	2,16	3,11
SIL-100-500-1200	0,11	0,44	1,77	2,76	3,97
SIL-100-500-1500	0,14	0,56	2,23	3,48	5,01
SIL-100-560-900					
SIL-100-560-1000					
SIL-100-560-1200					
SIL-100-560-1500					
SIL-100-630-900	0,02	0,10	0,38	0,60	0,86
SIL-100-630-1000	0,04	0,14	0,58	0,90	1,30
SIL-100-630-1200	0,06	0,24	0,96	1,50	2,16
SIL-100-630-1500	0,09	0,36	1,46	2,28	3,28
SIL-100-710-1000	0,02	0,08	0,31	0,48	0,69
SIL-100-710-1200	0,04	0,17	0,69	1,08	1,56
SIL-100-710-1500	0,07	0,30	1,19	1,86	2,68
SIL-100-800-1000	0,01	0,04	0,15	0,24	0,35
SIL-100-800-1200	0,03	0,13	0,54	0,84	1,21

SIL-100 - 100 mm thickness insulation

Description	pressure loss [Pa] for air velocity [m/s]				
	2	4	8	10	12
SIL-100-800-1500	0,06	0,25	1,00	1,56	2,25
SIL-100-900-1000	0,00	0,01	0,04	0,06	0,09
SIL-100-900-1200	0,03	0,11	0,42	0,66	0,95
SIL-100-900-1500	0,06	0,23	0,92	1,44	2,07



PLA-RP71BA2

Power Inverter Heat Pump

R410A High COP 4-Way Blow Ceiling Cassette System

Advanced inverter technology makes the Mr Slim Power Inverter the number one choice for improving comfort. They provide energy savings of up to 70% annually when compared to a previous non-inverter model. Operating noise has also been reduced thanks to improvements in fan design, while existing pipe work is reusable for easier maintenance and installation.

- **Airflow controllable for ceiling heights up to 4.2m, with automatic adjustment of fan speed**
- **Reduced draft air distribution, with independent vane control**
- **Filter lowering operation down to 4m (optional PLP-6BAJ grille required)**
- **Optional 'I See Sensor' for energy saving and smooth temperature control throughout the room**



Pictures not to scale

Product Details

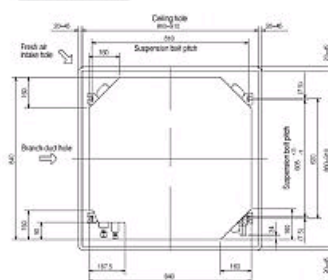
PLA-RP71BA2 Indoor Unit	
Capacity (kW):	
Heating (Nominal) (Low - High)	8.00 (3.50 - 10.20)
Cooling (Nominal) (Low - High)	7.10 (3.30 - 8.10)
Heating (UK) (Low - High)	6.80 (3.00 - 8.65)
Cooling (UK) (Low - High)	6.55 (3.05 - 7.45)
SHF R410A (Nominal)	0.73
COP / EER (Nominal)	4.21 / 3.74
Energy Label Heating / Cooling	A / A
Width (grille) - mm	840 (950)
Depth (grille) - mm	840 (950)
Height (grille) - mm	258 (35)
Weight (grille) - kg	23 (6)
Airflow (m3/min) - Lo-Mi1-Mi2-Hi	14-16-18-21
Noise (dBA) - Lo-Mi1-Mi2-Hi	28-30-32-34
Pipe Size Gas mm (in)	15.88 (5/8)
Pipe Size Liquid mm (in)	9.52 (3/8)
Electrical Supply	Fed by Outdoor Unit
Phase	Single
Fuse Rating (BS88) - HRC (A)	6
Interconnecting Cable No. Cores	4
Grille Ref	PLP-6BA GRILLE

PUHZ-RP71VHA4 Outdoor Unit	
Width - mm	950
Depth - mm	330 +30
Height - mm	943
Weight - kg	67
Noise (dBA) (Heating /Cooling) - Lo-Hi	48 /44-47
Electrical Supply	220-240v, 50Hz
Phase	Single
Fuse Rating (BS88) - HRC (A)	25
SystemPower Input (kW) - Heating (Nominal)	1.9
SystemPower Input (kW) - Cooling (Nominal)	1.9
SystemPower Input (kW) - Heating (UK)	1.69
SystemPower Input (kW) - Cooling (UK)	1.62
Starting Current (A)	5
SystemRunning Current (A) - Heating / Cooling	8.76 / 8.71
Mains Cable No. Cores	3
Max Pipe Length (m)	50
Max Height Difference (m)	30
Charge (kg) - 30m	3.5

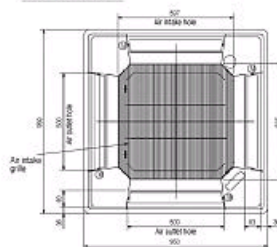
Dimensions

PLA-RP71BA2

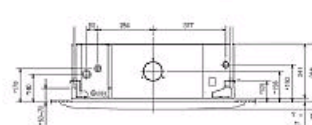
Upper View >



Front View >

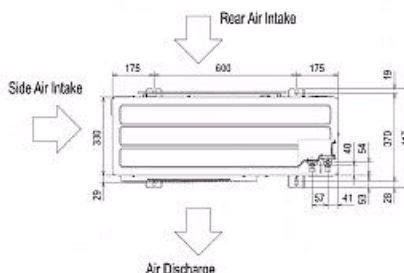


Side View >

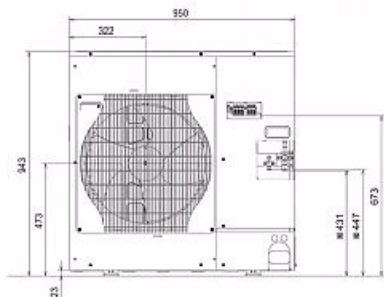


PUHZ-RP71VHA4

Upper View >



Front View >



Right Side View >



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Traditional Standard Range®

Wall Models



Features & Benefits

- Extract/intake models in 4 sizes: 6", 7", 9" and 12"
- IPX4 Rated
- White fascia, wall sleeve and black external weather louvre
- Optional shutter available
- Manufactured in weather-resistant polymeric materials
- For the best performance from your fan, use an Ecotronic controller

Classic Retro-Styled Ventilation

The proven Standard Range Wall models are designed to fit flush into most double brick walls using the rigid wall liner supplied with the unit. Provision is made within the liner for conduit entry. When installed, only the ivory fascia is visible on the internal wall face. The external weather louvre fits flush to the outside. A shutter is available as an accessory which can be easily fitted within the unit.

On new building work the installation and wiring of the wall liner can be completed prior to the final installation of the unit and controller. Fully shrouded connectors on the fascia automatically connect the wiring to the motor when fitted to the wall liner.

Performance

Model	Extract Performance m³/h (l/s) F.I.D.	Watts MAX.	Sound dB(A) @ 3m	Amps @ 240V
S6/WL	340 (94)	32	39	0.16
S7/WL	544 (151)	34	35	0.16
S9/WL	856 (238)	53	43	0.24
S12/WL	1767 (491)	84	46	0.36

Motor

The motor is purpose-designed. Suitable for running at any angle. Quiet running, enclosed, sealed for life ball bearings.

Supply voltage: 220-240V/1/50Hz.

Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Shutter

Type SD/R

The extract/intake shutter fits inside the Vent-Axia unit and closes against unwanted back draughts. It can be fitted at the same time as the unit or at a later date if required. Airflow operated for extract use, cord operated lock for intake use.

Controller

The Ecotronic controller is recommended for use with this model to give full function control of the fan including auto mode using an electro-mechanical sensor from Vent-Axia's sensor range. Alternatively, single speed extract is achieved using a normal On/Off switch.

Models

Size	Stock Ref
S6WL	131510
S7WL	132510
S9WL	133510
S12WL	134510

Shutters

Size	Stock Ref
S6SD/R	231710
S7SD/R	232710
S9SD/R	233710
S12SD/R	234710

Dimensions (mm)

Size	6 in	7 in	9 in	12 in
A	279	279	279	279
B	203	279	279	356
C	279	362	362	448
Fixing hole Ø	235	311	311	400
Weight kg	4.1	5.7	6.7	10.1

