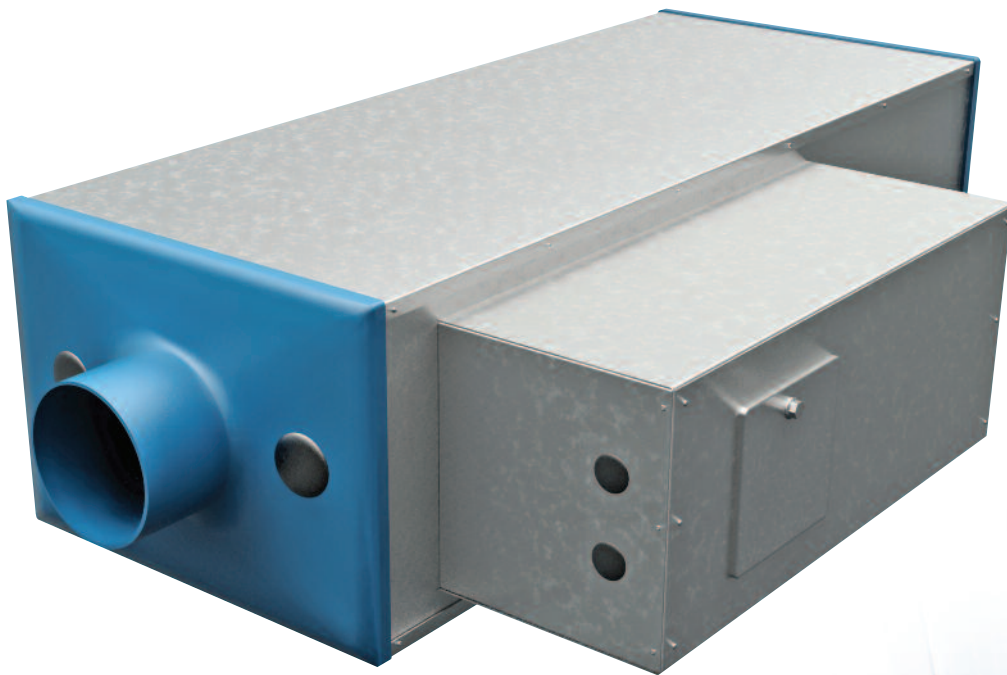


SQRBO EXTRACT OR SUPPLY

LOW DEPTH EXTRACT OR SUPPLY FANS THAT AUTOMATICALLY
REACT TO THE ENVIRONMENTAL CONDITIONS.



BENEFITS

ENERGY EFFICIENT

All models have Ecosmart controls which provide the most energy efficient and cost effective solution by varying fan speed to suit the required units.

EXACT VENTILATION

Low voltage plug-in sensors allow the extract rate to be automatically adjusted to suit the rooms specific requirement. Plug-in sensors and controls reduce the installation time on site.

COMPACT DESIGN

Low case height makes this unit ideal for restricted ceiling spaces. Unique, removable mounting bracket and integral AV mounts ensure quick and efficient installation and maintenance.

QUIETER UNITS

Casing is fully lined to provide high acoustic and thermal insulation properties ensuring very low noise.

COST EFFECTIVE

All sensors are safe extra low voltage therefore eliminating the need for expensive main wiring between fan and controls.

EFFICIENT PACKAGED SOLUTION

All fans and controls are an integrated package providing a simple to select and install system – eliminating the need for traditional control panels.

SIMPLE COMMISSIONING

On board control pad allows for pre-setting of minimum and maximum fan speeds to suit design requirements – no main balancing damper required.

DESIGN FLEXIBILITY

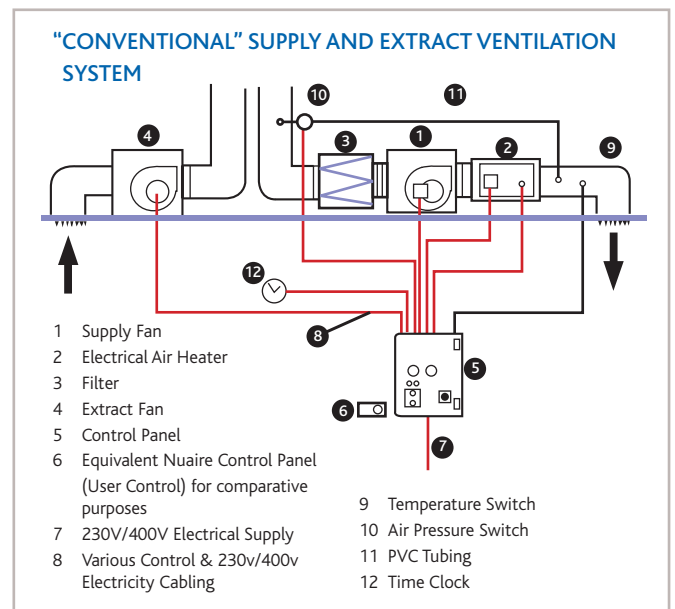
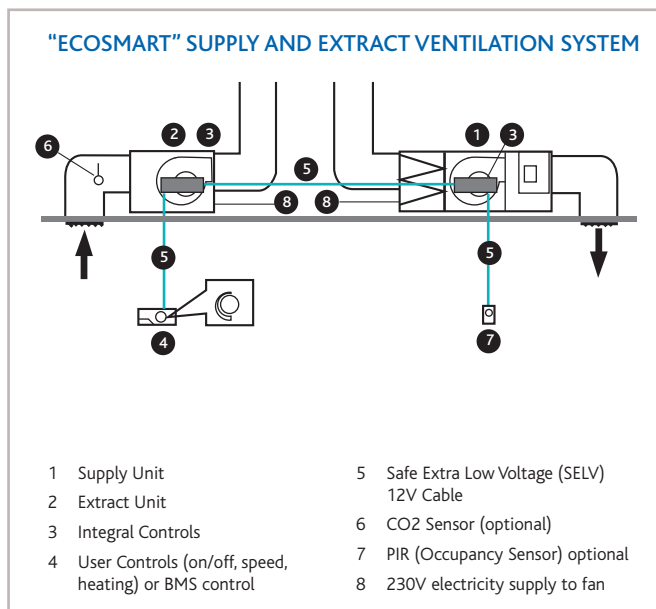
Available in 6 case sizes, supply unit with LPHW or electric heater.

ANCILLARIES

Full range of heat exchangers, attenuators, smart heaters and cowls etc. are available to complete your installation.

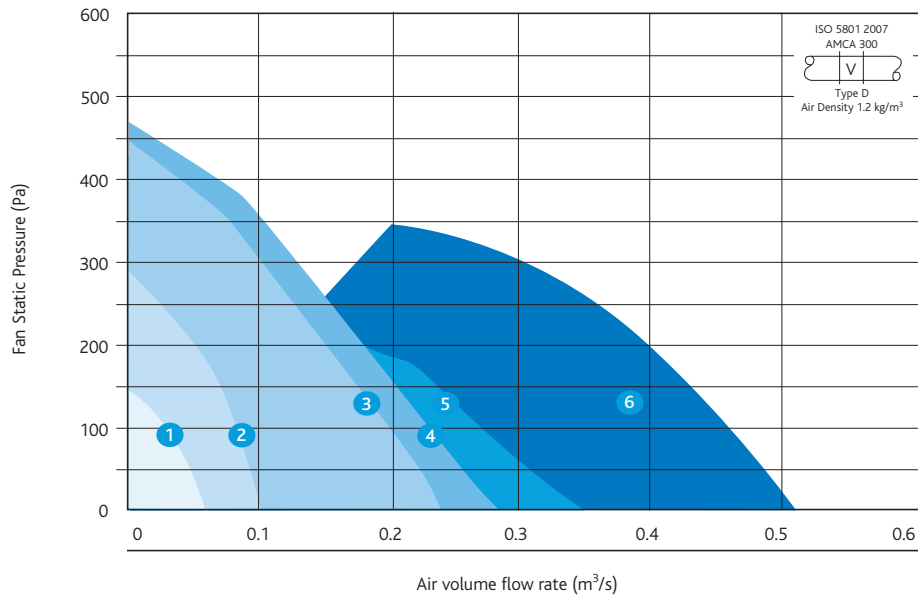
WARRANTY

Ecosmart squrbo has a 5 year warranty.

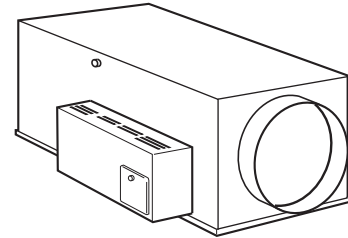


PERFORMANCE - ECOSMART SQRUBO EXTRACT

Ecosmart Sqrubo Extract Unit



Casing



ESSE Extract units

Code descriptions

ESSE 2-WP



- 1. ESSE = Ecosmart Sqrubo extract fan
- 2. Case Size/Curve Reference
- 3. WP = Weatherproof enclosure

ECOSMART SQRUBO EXTRACT UNITS

ELECTRICAL & SOUND

Curve	Code	Phase	RPM	Motor Power (kW)	FLC (amps)	SC (amps)	Data Type	Sound Power levels (dB re 10-12W)								
								Octave Band mid frequency (Hz)								Breakout dBA @ 3m
								125	250	500	1K	2K	4K	8K		
1	ESSE1	1	2724	0.043	0.32	0.32	I	63	59	63	50	45	37	27	30	
								O	68	62	65	51	48	44	34	
2	ESSE2	1	2285	0.075	0.34	0.34	I	64	64	66	57	52	57	37	34	
								O	71	66	68	61	56	65	44	
3	ESSE3	1	2544	0.15	0.72	0.72	I	70	75	75	66	63	57	49	42	
								O	76	75	76	70	69	66	55	
4	ESSE4	1	2313	0.17	0.92	0.92	I	70	75	75	66	64	61	58	43	
								O	76	75	79	69	69	63	65	
5	ESSE5	1	2313	0.17	0.92	0.92	I	74	70	73	68	66	64	60	43	
								O	78	69	77	73	72	70	66	
6	ESSE6	1	1110	0.66	2.95	2.95	I	71	67	59	60	56	51	46	45	
								I	76	74	73	73	71	67	62	

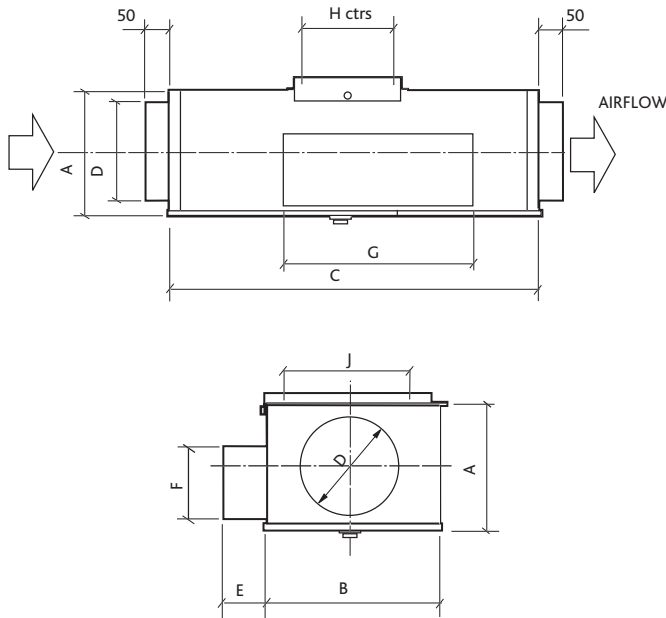
The electrical and sound information in the table is nominal. Breakout dBA@3m is spherical, free field. SC = FLC due to soft starting control.

* Motor electrical supply, 1=1 phase (230V, 50Hz) 3=3phase (400V, 50Hz).

Unit has facility to operate motorised damper fan frost protection. I = Induct inlet. O = Induct outlet.

Please note: With Ecosmart, Ecosmart BMS & Ecosmart Commissioning options the units are pre-programmed with a soft start facility.

DIMENSIONS - ECOSMART SQRBO EXTRACT

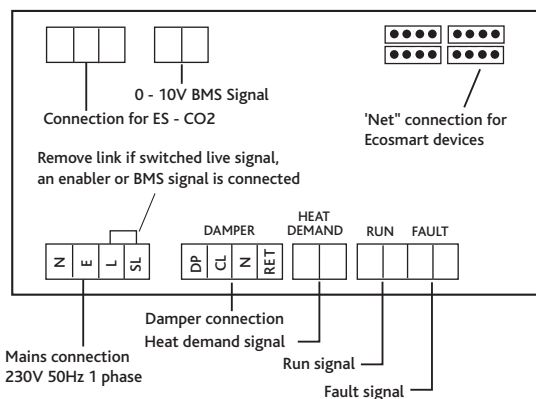


Extract - No heater

	DIMENSIONS (mm) & WEIGHTS									
	A	B	C	Dia			Fixing ctrs		Weight (Kg)	
ESSE1	160	230	640	125	150	150	330	140	115	7.4
ESSE2	185	302	630	150	150	150	330	140	150	8.1
ESSE3	235	350	700	200	150	150	330	140	170	13
ESSE4	285	350	672	250	150	150	330	140	170	13.8
ESSE5	350	400	726	315	150	150	330	140	200	15.2
ESSE6	430	682	700	400	175	150	330	140	200	38

WIRING - ECOSMART SQRBO EXTRACT

ESSE1-5 Extract



CONSULTANTS SPECIFICATION

EXTRACT UNIT SPECIFICATION

The Unit shall be configured and arranged as detailed on the drawings and in accordance with the schedule of equipment.

Unit shall be manufactured from acoustically lined, heavy gauge pre-galvanised, corrosion resistant steel. The units shall provide exceptional thermal and acoustic insertion. The general construction is to class A leakage.

The unit will be manufactured to provide a low height solution to enable it to be located in low depth ceiling and floor voids. For ease of installation the unit shall be provided with a single point mounting bracket with integrated, anti vibration strips.

The extract fan shall have complimentary controls which will enable it to interface directly with the supply unit via a low voltage pre-plugged cable. The fan impeller and motor shall be selected to provide the most energy efficient solution conforming to part L regulations and shall be direct drive with high efficiency motors to BS5000 as standard. The fan impeller shall be a high efficiency backward curved centrifugal design, manufactured in galvanised steel.

The contractor shall allow for all necessary ductwork transformations to and from the fan unit and any associated components in accordance with the manufacturers recommendations, DW 144 and general good practice.

The unit and ancillaries shall be of the Ecosmart Sqrubo type as manufactured by Nuaire Ltd.

All other components shall be in accordance with the manufacturer's specification.

CONTROL SPECIFICATION

The fan unit shall be supplied with one of the following control options:-

1. ECOSMART CONTROLS

The compact Ecosmart control system complete with all necessary controls to facilitate the operation of the ventilation system. It shall be come complete with an integral factory fitted Ecosmart PCB which will control the fan unit within the desired design parameters and provide the interface between all external control devices and the unit itself.

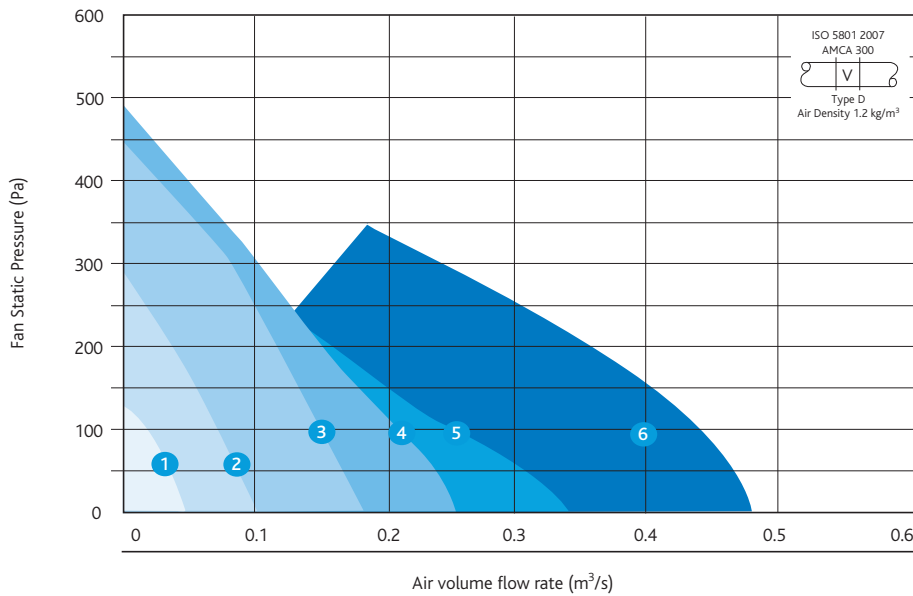
The Unit shall have the following energy saving components integrally mounted, pre-wired to interface with the purpose made PCB, all components pre-wired, configured and factory fitted by the manufacturer: -

- Integral Frequency inverter/speed controller.
- Integral maximum and minimum speed adjustment for commissioning.
- Integral adjustable run on timer.
- Integral BMS interfaces – heating/cooling switching, 0-10V speed adjustment. (using ES - CI).
- Volt free failure and status indication.
- Integral air off temperature adjustment.
- Facility for remote temperature control.
- Integral background ventilation switch (trickle switch).
- Multiple IDC sockets for interconnection of sensors or fans using pre-plugged 4-core low voltage cable.
- Volt free frost alarm/heat demand interface.
- Frost protection/hold off stat.

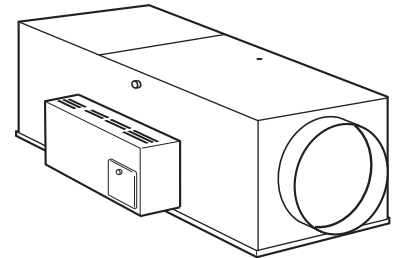
The Fan unit shall have a 5 year warranty.

PERFORMANCE - ECOSMART SQRUBO SUPPLY

Ecosmart Sqrubo Supply Unit



Casing



ESSE Supply units

Code descriptions

ESS 2 - E



1. ESS = Ecosmart Sqrubo supply fan
2. Case Size/Curve Reference
3. No suffix = without heater
 E = With electric heating
 L = Heating
 2L = with 2 row LPHW heating

Note: Performance curves make allowance for the internal filter and heater battery and you only need apply the resistance external to the unit and any additional units eg. HX, Filter etc.

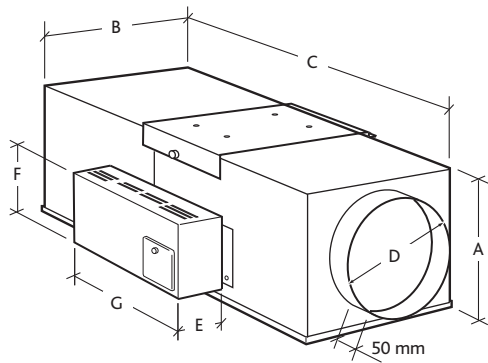
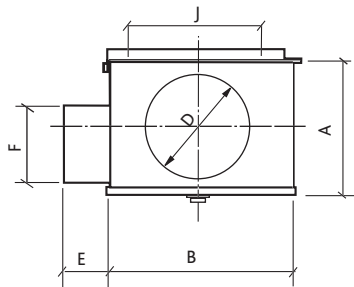
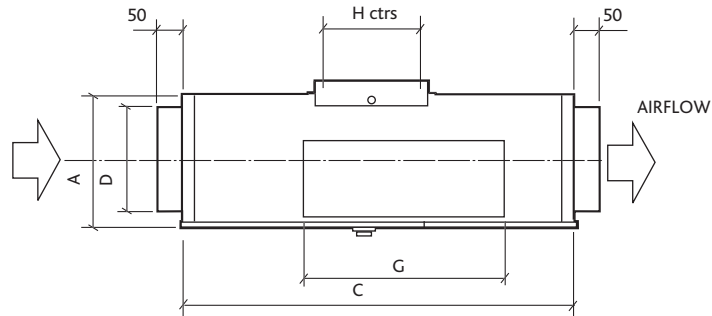
ECOSMART SQRUBO SUPPLY UNITS

ELECTRICAL & SOUND

Curve	Code	Phase	RPM	Motor Power (kW)	Electric Heater (kW)	LPHW kW		FLC (amps)	Inlet/Outlet Type	Sound Power levels (dB re 10-12W) Octave Band mid frequency (Hz)							Breakout dBA @ 3m
						L	2L			125	250	500	1K	2K	4K	8K	
1	ESS1-E	1	2724	0.043	1.0	-	-	4.7	I	61	62	61	49	43	34	26	30
	ESS1	1	-	-	-	-	-	0.32	O	69	62	63	51	45	42	32	30
2	ESS2-E	1	2285	0.075	1.5	-	-	7.0	I	62	63	63	55	53	44	34	34
	ESS2-L/2L	1	-	-	-	3	4.5	0.34	O	70	66	66	59	57	53	42	34
3	ESS3-E	1	2544	0.15	2.0	-	-	9.5	I	67	72	71	63	60	54	46	42
	ESS3-L/2L	1	-	-	-	4.5	6	0.72	O	74	73	74	68	67	64	53	42
4	ESS4-E	1	2313	0.17	3.0	-	-	14	I	68	72	71	67	63	60	56	43
	ESS4-L/2L	1	-	-	-	5	8.5	0.92	O	74	74	74	72	71	68	64	43
5	ESS5-E	1	2313	0.17	4.5	-	-	20.5	I	73	71	72	67	63	62	58	43
	ESS5-L/2L	1	-	-	-	5.5	10	0.92	O	79	74	76	72	72	69	66	43
6	ESS6-E	3	1110	0.66	12*	-	-	20	I	71	67	59	60	56	51	46	45
	ESS6-2L	1	-	-	-	-	12	2.95	O	76	74	73	73	71	67	62	45

Note: there is no LPHW coil available for size 1 (ESS1). Unit has facility to open a remote motorised damper if frost protection is required.
 *3 - phase electrical supply required at Nuaire specified design conditions.

DIMENSIONS - ECOSMART SQRBO SUPPLY



Supply - No heater

DIMENSIONS (mm) & WEIGHTS

	Dia			Fixing ctrs		Weight (Kg)				
	A	B	C	D	E		F	G	H	J
ESS1	160	230	640	125	150	150	330	140	115	7.4
ESS2	185	302	630	150	150	150	330	140	150	8.1
ESS3	235	350	700	200	150	150	330	140	170	13
ESS4	285	350	672	250	150	150	330	140	170	13.8
ESS5	350	400	726	315	150	150	330	140	200	15.2
ESS6	430	682	700	400	175	150	330	140	200	35

Supply - Electric heater

DIMENSIONS (mm) & WEIGHTS

	Dia			Fixing ctrs		Weight (Kg)				
	A	B	C	D	E		F	G	H	J
ESS1-E	160	230	968	125	150	150	403	140	115	12.1
ESS2-E	185	302	968	150	150	150	403	140	150	14.5
ESS3-E	235	350	968	200	150	150	403	140	170	21.5
ESS4-E	285	350	968	250	150	150	403	140	170	23.4
ESS5-E	350	400	968	315	150	200	450	140	200	27.1
ESS6-E	430	682	1002	400	175	200	450	140	200	60

Supply - LPHW heater

DIMENSIONS (mm) & WEIGHTS

	Dia			Fixing ctrs		Weight (Kg)				
	A	B	C	D	E		F	G	H	J
ESS2-L/2L	285	450	968	150	150	170	515	140	250	25
ESS3-L/2L	285	450	968	200	150	170	515	140	250	25
ESS4-L/2L	285	450	968	250	150	170	515	140	250	26
ESS5-L/2L	350	450	968	315	150	170	515	140	250	29
ESS6-L/2L	430	682	1002	400	175	170	515	140	250	60

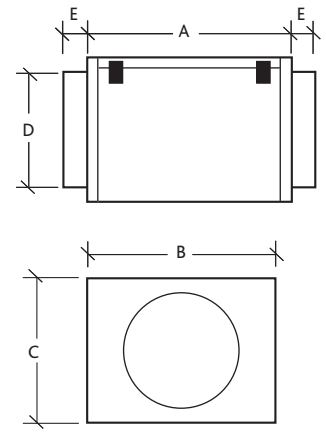
ANCILLARIES FOR ECOSMART SQRUBO SUPPLY OR EXTRACT

FILTER CASSETTE

Filter Cassettes are constructed from galvanised steel and are fitted with circular spigots. The filter media is of non woven synthetic fibres which are resistant to moisture, fungus, bacteria and frost to G4 specification. Filter media access panel with quick release clips.

Typical code: SF-100

Code	Dimensions (mm)					Kg	Resistance (Pa) @ Airflow (m ³ /s)																		
	A	B	C	D	E		.02	.03	.04	.05	.06	.07	0.8	.09	.1	.15	.2	.25	.3	.4	.5	.6	.7	.8	
SF-100	264	230	159	100	50	2	2	3	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SF-125	264	230	159	125	50	2	2	3	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SF-150	264	300	184	150	50	3	1	2	3	4	5	5	6	7	8	-	-	-	-	-	-	-	-	-	-
SF-200	264	350	234	200	50	4	-	1	1	1	2	2	3	3	4	6	8	-	-	-	-	-	-	-	-
SF-250	264	350	284	250	50	6	-	-	1	1	1	2	2	3	3	5	7	9	-	-	-	-	-	-	-
SF-315	264	400	349	315	50	9	-	-	-	1	1	1	1	2	2	3	5	6	7	10	-	-	-	-	-
SF-400	264	900	475	400	50	11	-	-	-	-	-	-	-	-	-	1	2	2	3	4	6	7	8	10	

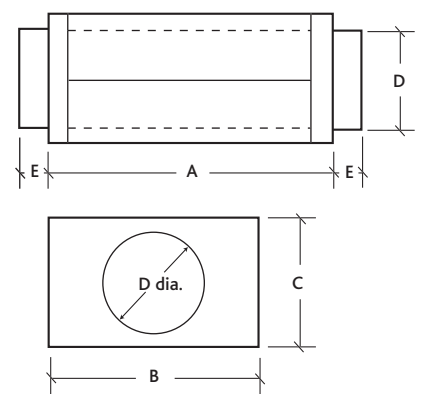


SILENCERS

The In-line attenuator shall be constructed in galvanised steel and be fitted with duct work connection spigots. Acoustic media shall be a low density foam to prevent material migration into the airstream. Resistance to airflow is negligible.

Typical code: SIL-100

Code	Dimensions (mm)					Weight Kg	Resistance (Pa) @ Airflow (m ³ /s)							
	A	B	C	D	E		125	250	500	1K	2K	4K	8K	
SIL-125	600	230	159	125	50	4.8	-11	-13	-16	-26	-39	-21	-13	
SIL-150	600	300	184	150	50	6.6	-5	-8	-17	-35	-40	-17	-8	
SIL-200	600	350	234	200	50	9.9	-9	-8	-14	-29	-23	-12	-14	
SIL-250	600	350	284	250	50	10.9	-5	-5	-12	-25	-15	-10	-9	
SIL-315	600	400	349	315	50	12.2	-3	-4	-10	-22	-14	-10	-11	
SIL-400	900	700	475	400	50	31.7	-4	-9	-11	-14	-10	-8	-6	



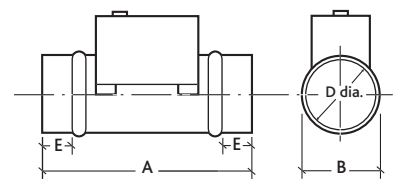
ECOSMART DUCT HEATER

Provided to boost the air temperature if the standard heating is not sufficient. Controlled directly from the Ecosmart Sqrubo controls. Duct Heaters are constructed from galvanised steel, and can be fitted in the horizontal or vertical position. Terminals are provided for electrical connection to heating elements which are centrally located in air stream.

All heaters are fitted with a high temperature safety cut out (rated 13 amps) with a manual re-set button located on the unit terminal box.

Typical code: ESH2

Code	Dimensions (mm)					Weight Kg	kW/ph	Resistance (Pa) @ Airflow (m ³ /s)																	
	A	B	C	D	E			.02	.03	.04	.05	.06	.07	0.8	.09	.1	.15	.2	.25	.3	.4	.5	.6	.7	.8
ESH2	400	150	200	150	45	3.5	3/1	-	6	11	16	21	26	32	38	45	-	-	-	-	-	-	-	-	-
ESH3	400	200	250	200	45	4	3/1	-	-	6	9	12	15	17	20	36	-	-	-	-	-	-	-	-	-
ESH4	400	250	300	250	45	5	3/1	-	-	-	-	6	8	10	19	28	39	-	-	-	-	-	-	-	-
ESH5	400	315	369	315	45	4.5	3/1	-	-	-	-	-	-	-	9	14	20	26	40	-	-	-	-	-	



Note: The Duct Heater requires a separate power supply.

SUPPLY & EXTRACT

ECOSMART - SQRBO SUPPLY OR EXTRACT

TECHNICAL INFORMATION

ANCILLARIES FOR ECOSMART SQRBO SUPPLY OR EXTRACT CONT.

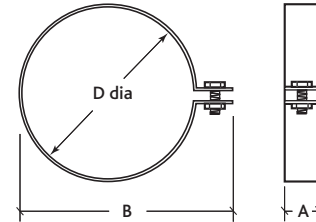
FAST CLAMP DIMENSIONS (mm)

Manufactured from galvanised steel with a gasket liner to provide an air tight joint. Matching fan spigot diameters.

Typical code: FC-100

Dimensions (mm)

Code	A	D	Code	A	D
FC125	90	125	FC315	90	315
FC150	90	150	FC400	90	400
FC200	90	200	-	-	-
FC250	90	250	-	-	-



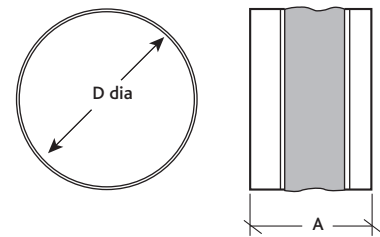
CIRCULAR FLEXIBLE CONNECTOR DIMENSIONS (mm)

Flexible material is flame resistant to BS476 part 7 with galvanised steel spigots. Heat resistant to 132°C with excellent resistance to chemicals, oil and grease. Connector is airtight and waterproof.

Typical code: CFC-10

Dimensions (mm)

Code	A	D	Code	A	D
CFC12	150	127	CFC31	150	317
CFC16	150	152	CFC40	150	402
CFC20	150	202	CFC50	150	502
CFC25	150	252	-	-	-



HEAT EXCHANGER DIMENSIONS (mm) & WEIGHTS

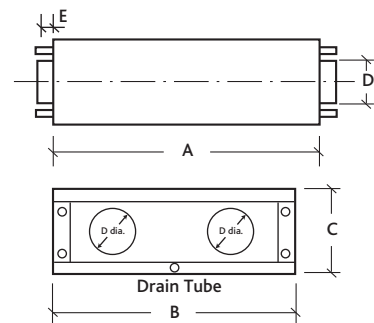
Manufactured from galvanised steel. The units provide a means of recovering heat from an extract system and transferring the heat to a complementary air supply system. Designed for horizontal mounting only, consisting of an insulated casing housing a plate heat exchanger. An internal drip tray and drain connection is provided. The access panel can be configured top or bottom. Filters must be fitted upstream on both sides to protect matrix.

Typical code: HX100

Dimensions (mm)

Code	A	B	C	D	E	Kg	Resistance (Pa) @ Airflow (m³/s)																																									
							.02	.03	.04	.05	.06	.07	0.8	.09	.1	.15	.2	.25	.3	.4	.5	.6	.7	.8																								
HX125	617	547	181	125	50	15	7	14	24	37	52	70	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
HX150	617	547	216	150	50	15	7	113	21	31	42	55	70	86	104	221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
HX200	617	547	266	200	50	17	-	12	1	21	26	31	37	43	49	84	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
HX250	617	667	316	250	50	21	-	-	-	2	4	5	8	10	13	32	60	96	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HX315	617	967	381	315	50	26	-	-	-	-	-	-	8	10	12	24	38	60	89	161	256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HX400	617	967	466	400	50	31	-	-	-	-	-	-	8	9	10	19	29	42	56	93	137	190	252	323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Duct Heater requires a separate power supply.



ANCILLARIES FOR ECOSMART SQRUBO SUPPLY OR EXTRACT CONT.

WEATHERPROOF ENCLOSURE DIMENSIONS (mm)

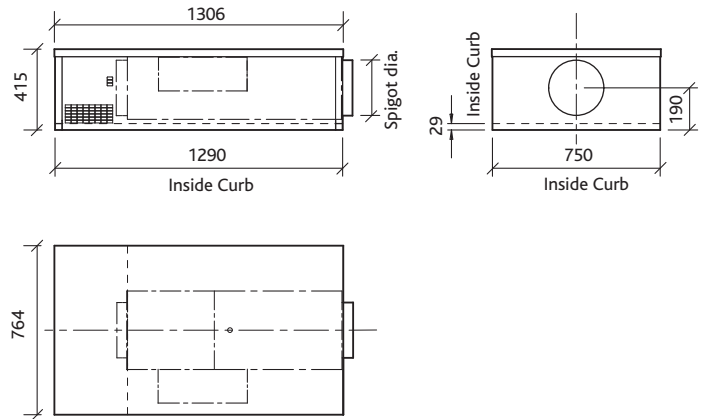
Typical code: ESS2-EWP

Dimensions (mm)

Code	Spigot dia.	Weight Kg
ESS1-EWP	125	40.1
ESS2-EWP	150	42.5
ESS3-EWP	200	49.5
ESS4-EWP	250	51.4
ESS5-EWP	315	55.1

Suitable for electric heater version only.

Note: Above code is fan and weatherproof enclosure.



TERMINATOR COWLS DIMENSIONS (mm) & WEIGHTS

To provide a weatherproof route for supply & exhaust air to your ducted system.

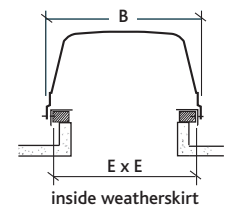
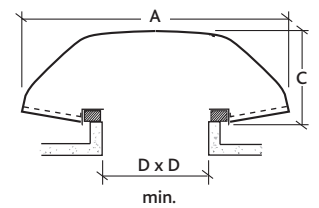
Cowls are manufactured from flame retardant polymer and can be supplied with gravity backdraught shutters, bird guards and hand guards. The terminal is finished in BS00A05 Grey as standard. All BS or RAL colours are available. The cowl will normally be fitted to the upstand by a roofing contractor or builder. The cowl can be fitted without shutters on a 0-60 degree pitched roof with its longer side running down the roof slope. The cowl can be fitted with its longer side running across a slope of less than 85 degrees from the horizontal. When fitted to a wall the longer side must run horizontal.

Typical code: TRTS-A Note: S = Shutters, BG = Bird Guard

Note: Air Pressure Drop of Attenuator (Pa) = Z x Q²

where Z = Factor listed in table below Q = Air Volume Flow Rate (m³/s)

Code	A	B	C	D	E	Weight Kg	Discharge	Z Intake
TRTS-A	900	620	340	460	600	12.3	67	118
TRTS-B	1080	740	375	560	695	14.7	39	87
TRTS-C	1320	964	475	700	945	26.0	28	62
TRTS-D	1470	1076	490	800	1050	28.2	19	32
TRTS-E	1780	1170	485	900	1150	50.0	7	11.3
TRTS-F	2260	1476	600	1200	1452	88.0	2.5	3.6



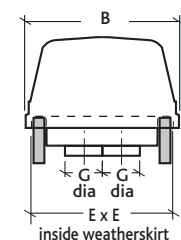
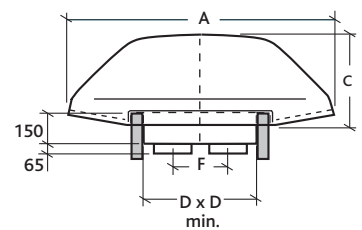
SUPPLY/EXTRACT COWLS DIMENSIONS (mm) & WEIGHTS

Supply/Extract Cowl: rigid flame retardant cowl, conforming with BS476 (Part 1 class 11) supplied in grey (BS 00 A 05) as standard (any BS or RAL colours available), fixing directly to the base using non-rusting sealed fixings. Air plenum is manufactured from galvanised steel incorporating supply & extract chambers. Rigid spigots are provided for connection of duct work. Supply & extract chamber is fitted with a bird guard.

Typical code: TRSE1

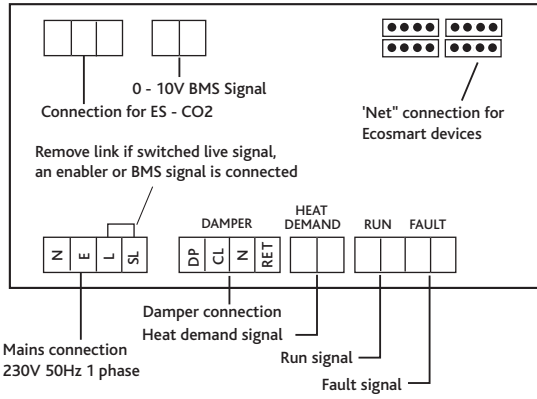
Code	A	B	C	D	E	F	G	Weight Kg
TRSE1	900	620	340	460	600	200	100	21.3
TRSE2	900	620	340	460	600	200	125	21.3
TRSE3	900	620	340	460	600	200	150	21.3
TRSE4	1320	964	475	700	945	345	200	41.4
TRSE5	1320	964	475	700	945	345	250	41.4
TRSE6	1320	964	475	700	945	345	315	41.4
TRSE7	1780	1170	485	900	1150	450	400	76.8

Resistance to airflow of this item is negligible.

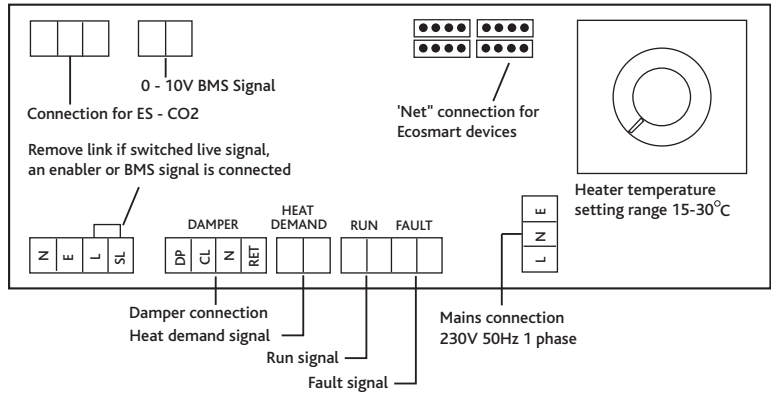


WIRING - ECOSMART SQRUBO SUPPLY

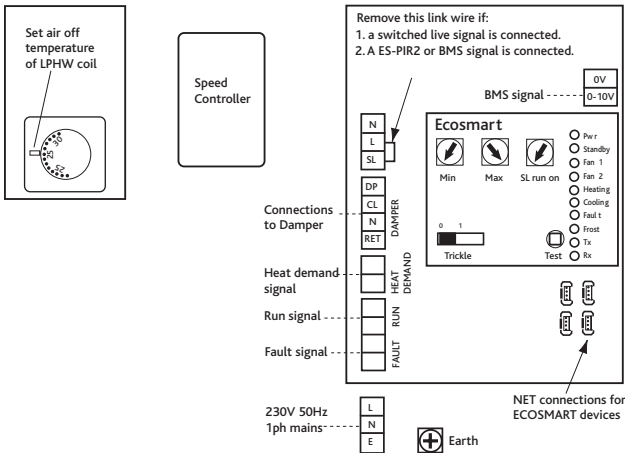
ESS1-5 LPHW



ESS1-5E (Electric Coil)

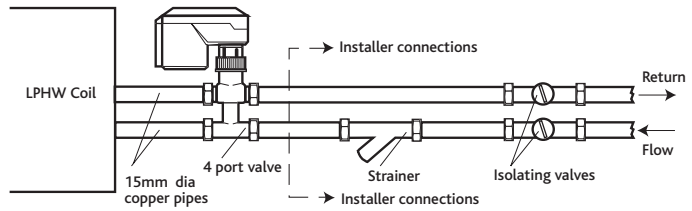


ESS6-L (LPHW Coil)

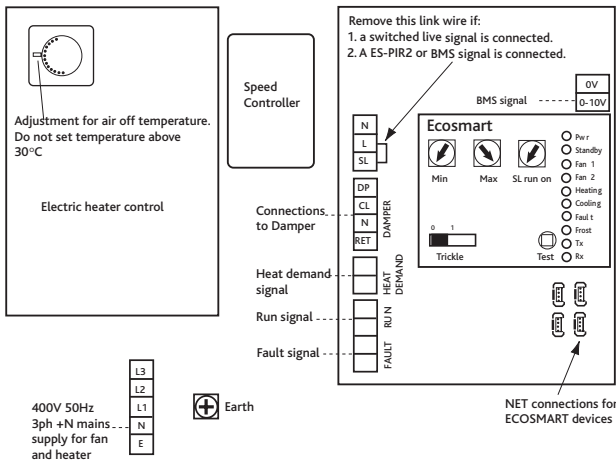


Installing the water circuit

It is recommended that a strainer and isolating valves are fitted (by others) for ease of maintenance.



ESS6-E (12kW Electric Coil)



CONSULTANTS SPECIFICATION

MAKE UP AIR SUPPLY UNIT SPECIFICATION

The Unit shall be configured and arranged as detailed on the drawings and in accordance with the schedule of equipment. Unit shall be manufactured from acoustically lined, heavy gauge pre-galvanised, corrosion resistant steel. The units shall provide exceptional thermal and acoustic insertion. The general construction is to class A leakage.

The unit will be manufactured to provide a low height solution to enable it to be located in low depth ceiling and floor voids. For ease of installation the unit shall be provided with a single point mounting bracket with integrated, anti vibration strips.

The fan impeller and motor shall be selected to provide the most energy efficient solution conforming to part L regulations and shall be direct drive with high efficiency motors to BS5000 as standard. The fan impeller shall be a high efficiency backward curved centrifugal design, manufactured in galvanised steel.

The contractor shall allow for all necessary ductwork transformations to and from the fan unit and any associated components in accordance with the manufacturers recommendations, DW 144 and general good practice.

The unit and ancillaries shall be of the Ecosmart Sqrubo type as manufactured by Nuaire Ltd.

All other components shall be in accordance with the manufacturer's specification.

CONTROL SPECIFICATION

The fan unit shall be supplied with one of the following control options:-

ECOSMART CONTROLS

The compact Ecosmart control system complete with all necessary controls to facilitate the operation of the ventilation system. It shall be come complete with an integral factory fitted Ecosmart PCB which will control the fan unit within the desired design parameters and provide the interface between all external control devices and the unit itself.

The Unit shall have the following energy saving components integrally mounted, pre-wired to interface with the purpose made PCB, all components pre-wired, configured and factory fitted by the manufacturer: -

- Integral Frequency inverter/speed controller.
- Integral maximum and minimum speed adjustment for commissioning.
- Integral adjustable run on timer.
- Integral BMS interfaces – heating/cooling switching, 0-10V speed adjustment. (using ES - CI).
- Volt free failure and status indication.
- Integral air off temperature adjustment.
- Integral background ventilation switch (trickle switch).
- Multiple IDC sockets for interconnection of sensors or fans using pre-plugged 4-core low voltage cable.
- Volt free frost alarm/heat demand interface.
- Frost protection/hold off stat for LPHW units.

COIL TYPES AND CONTROLS

- Low Pressure Hot Water.

The Low Pressure Hot Water heating coil shall be factory fitted with a 4-port valve, double regulating valve, drain cocks and air vents. The actuator controlling the 4-port valve shall be controlled via the on-board PCB by the off coil temperature sensor. All components pre-piped, assembled and tested by the manufacturers.

The control for the coils shall be fully integrated and shall maintain a constant off coil temperature. The system shall have frost protection which shall, at temperatures below 4 degrees C, fully open the 4-port valve and only start the fan when the temperature at the filter has risen above the designated set point. Unit shall have contacts which shall act as a frost alarm and/or signal boiler and circulating pumps to switch on.

ELECTRIC HEATER BATTERY

The Electric Heater Battery shall be factory fitted and pre-wired to an integral closed loop thyristor control.

NOTE: Heaters will need an enable signal for heater (ES-LCD, 0-10V Bms or ES-CI).

The Fan unit shall have a 5 year warranty.

All equipment to be as manufactured by Nuaire Ltd.