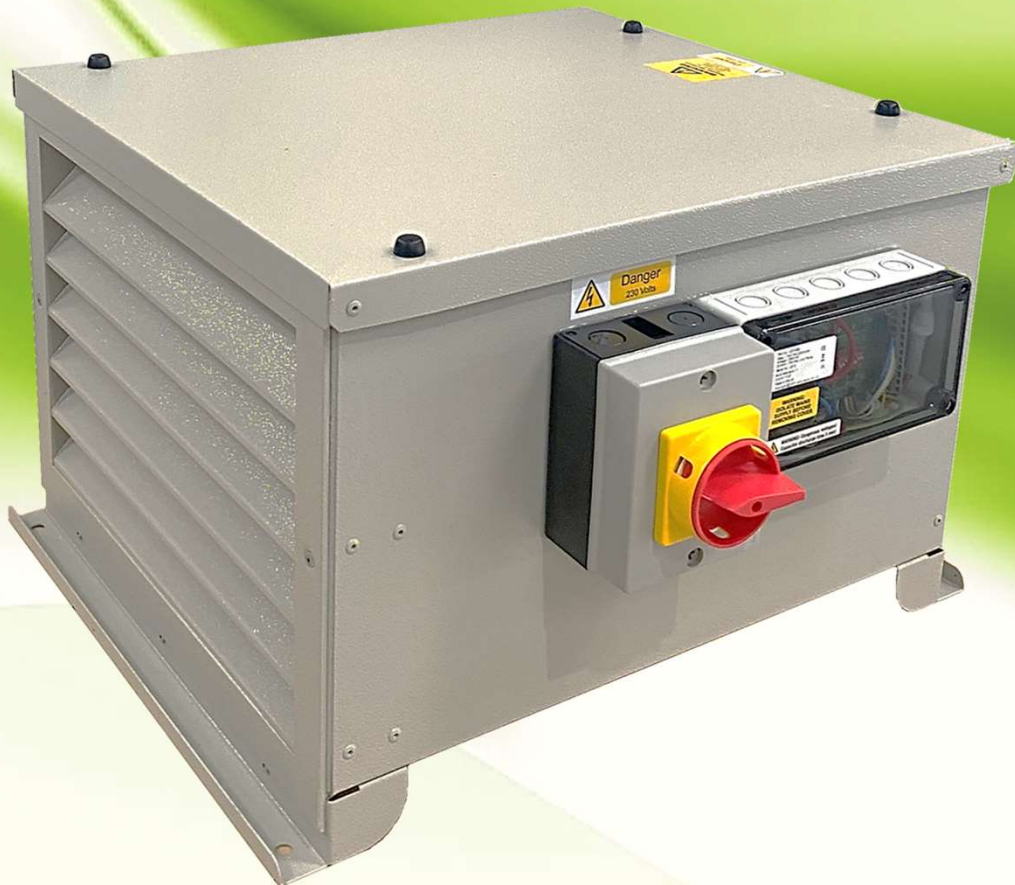




# TWIN FAN UNIT

**RANGE up to 1.4m<sup>3</sup>/s**



**Manufactured in the UK**

**Fitted & pre-wired controller**

**Removable lid for access**

**External and internal mounting options**





## Benefits and Specification of the Twin Fan Range

### Range

7 model sizes for duties up to 1.4m<sup>3</sup>/s as standard, for internal and external applications.

Bespoke units can be designed for duties outside of the standard range.

### Construction

Plantroom units (ECO-PTF) are constructed from galvanized sheet steel.

Rooftop units (ECO-RTF) are constructed from 5251 aluminium alloy.

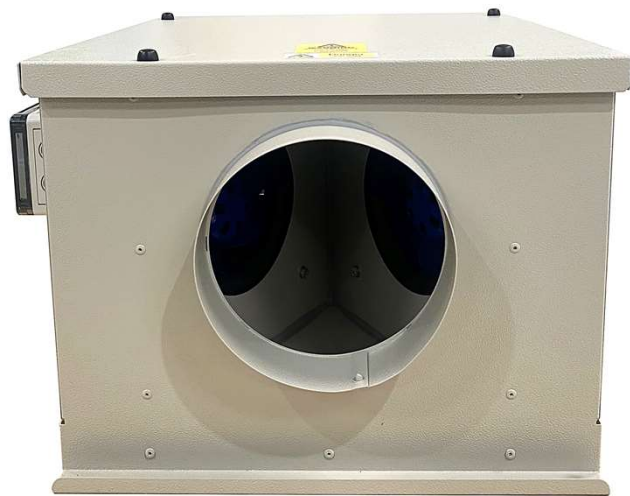
Rooftop units have a fitted discharge louvre as standard.

### Mounting

All units have integral fixing holes.

Plantroom units are suitable for top access and bottom access mounting without modifications.

Plantroom units can also be mounted for vertically upwards airflow without modifications.



### Controls

Pre-wired to controller & isolator.

- IP66 enclosure
- Auto-changeover
- Variable duty share
- VFC enable
- VFC trickle / boost
- Variable boost run-on
- 3 minute boost delay option
- Common fault output relay
- Duplex run option

### Options

- Acoustic lining
- Internal / external powder coating
- Enhanced controls



### EC Fans

Highly efficient EC motor driven backward curved fans offer great energy saving solutions. Low specific fan power helps to achieve Part L2 building compliance. Stepless speed control allows for accurate commissioning.

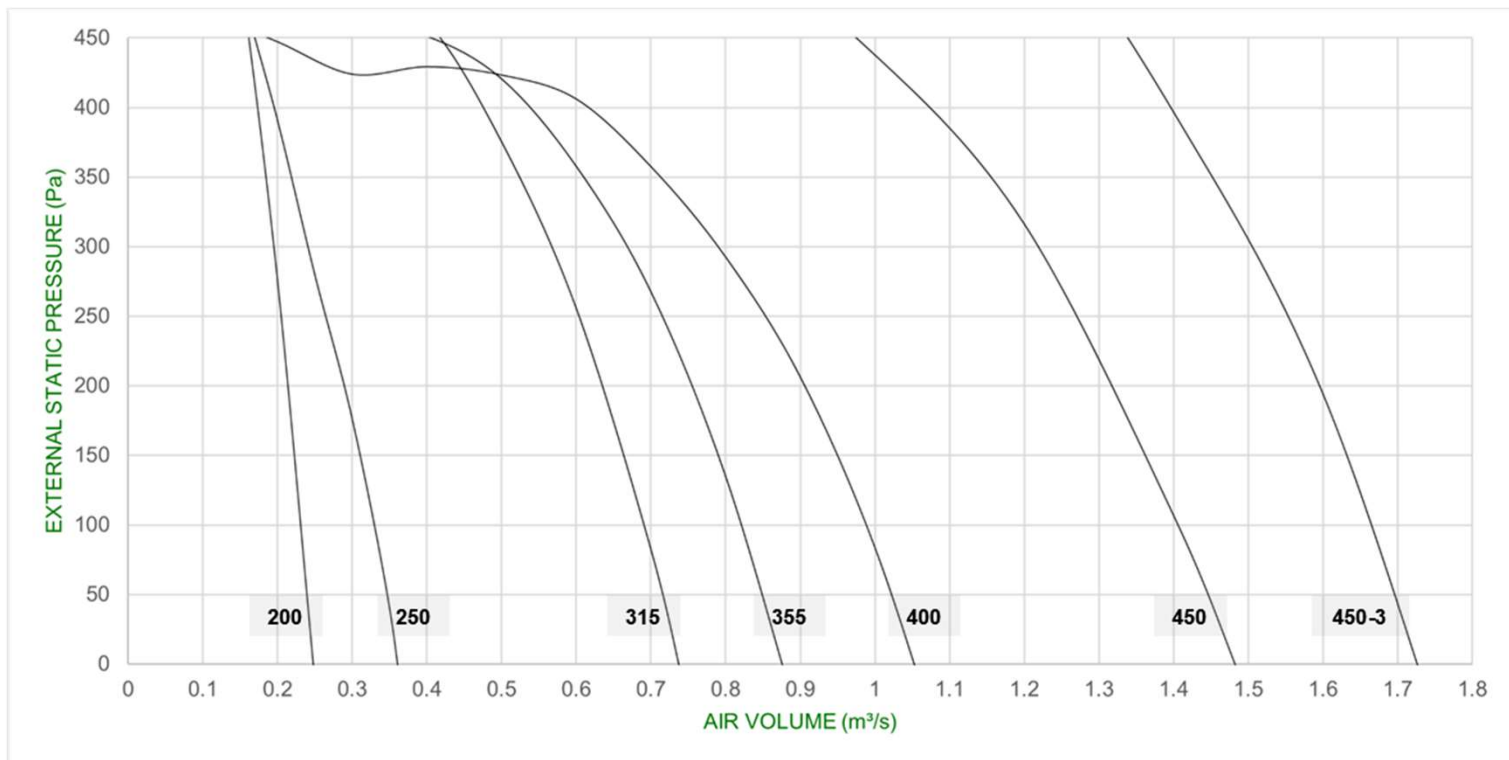




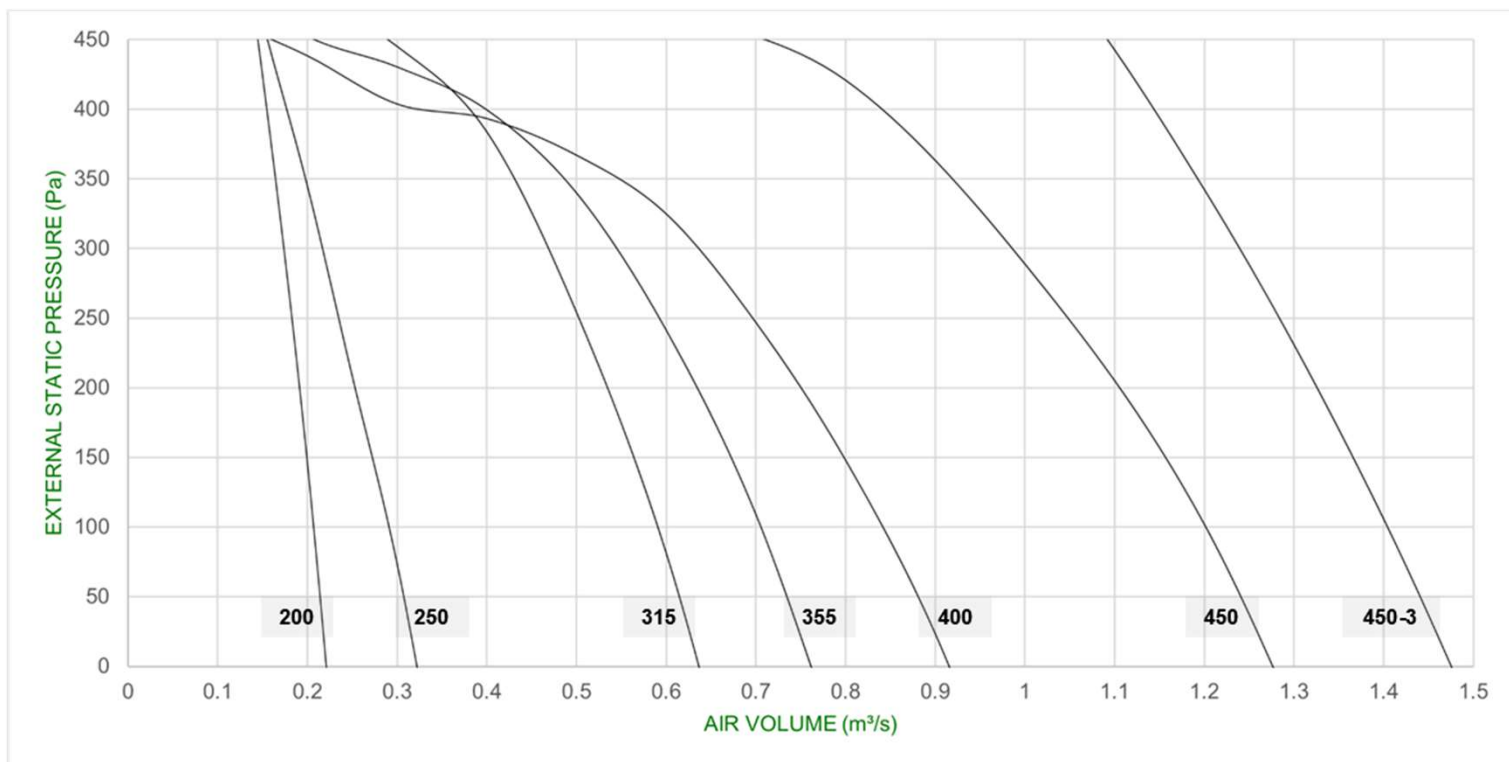
## Maximum Fan Speed Curves

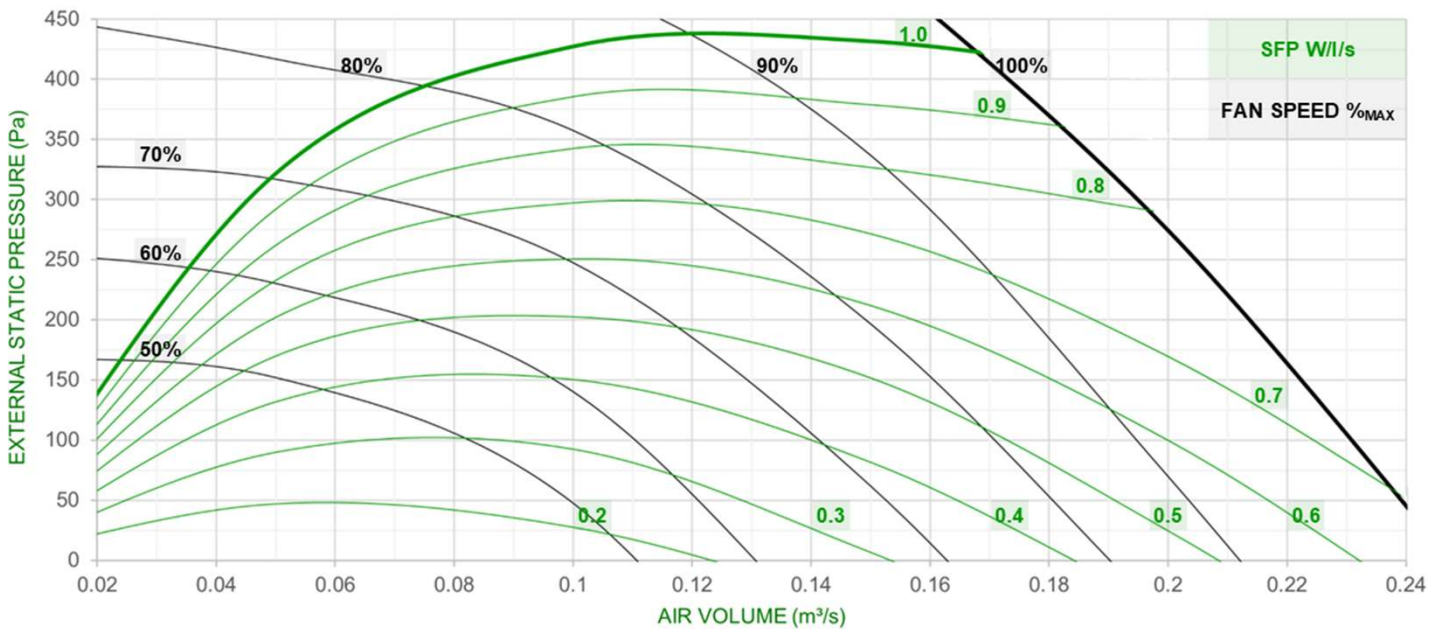
The following graphs show the maximum speed capability for each model (100% speed), for plantroom (ECO-PTF) and rooftop (ECO-RTF) units respectively. Model names indicate inlet/outlet spigot diameter (mm).

### ECO-PTF



### ECO-RTF

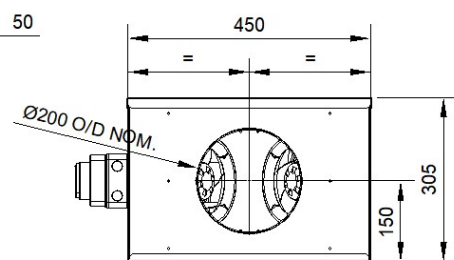
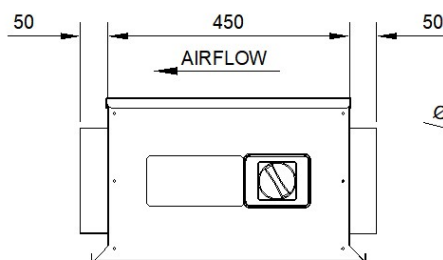
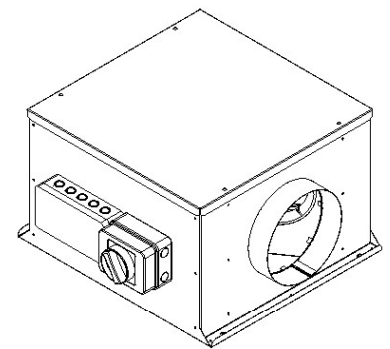
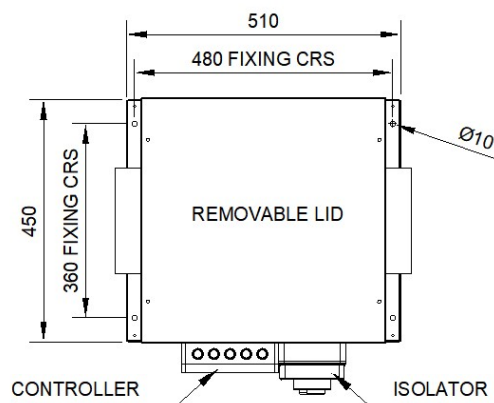
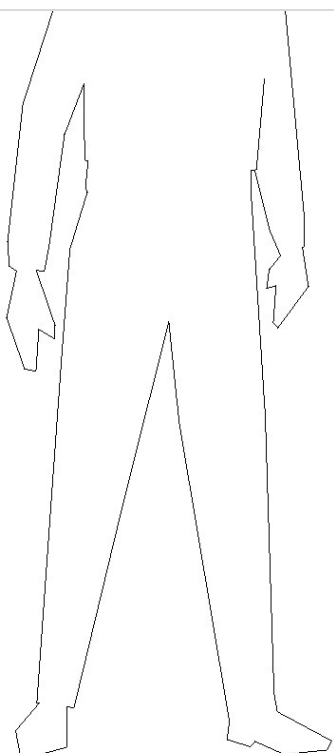


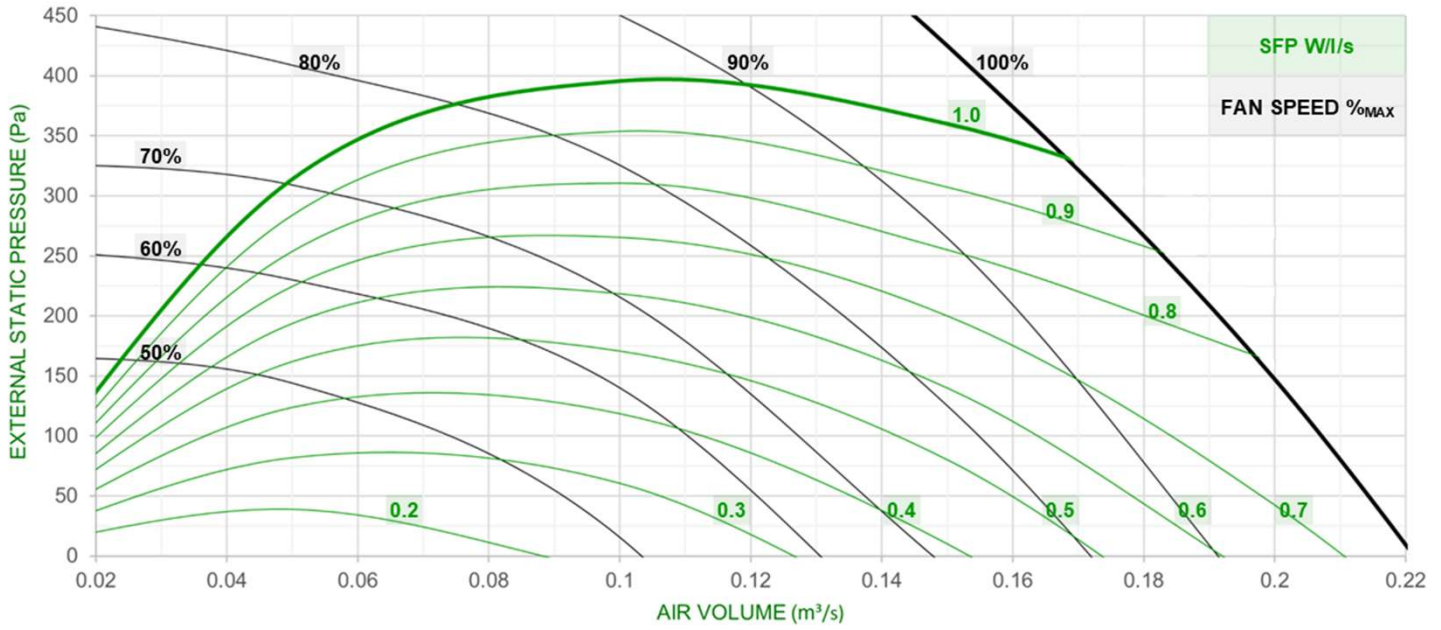


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	170W ea	1.75 A ea	16.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	76	63	62	66	69	68	68	65	66
	Outlet	79	62	63	67	71	72	74	71	70
90%	Inlet	72	63	60	64	65	64	64	61	61
	Outlet	76	63	60	65	67	68	70	67	65
80%	Inlet	70	64	58	62	61	61	61	58	57
	Outlet	73	68	58	63	63	65	66	63	60
70%	Inlet	66	59	56	59	57	57	57	55	52
	Outlet	69	62	56	60	59	61	62	59	55
60%	Inlet	62	54	55	56	54	54	52	50	45
	Outlet	64	53	54	57	56	57	57	54	48
50%	Inlet	66	62	62	58	54	51	50	44	38
	Outlet	66	61	61	59	55	54	55	49	40

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

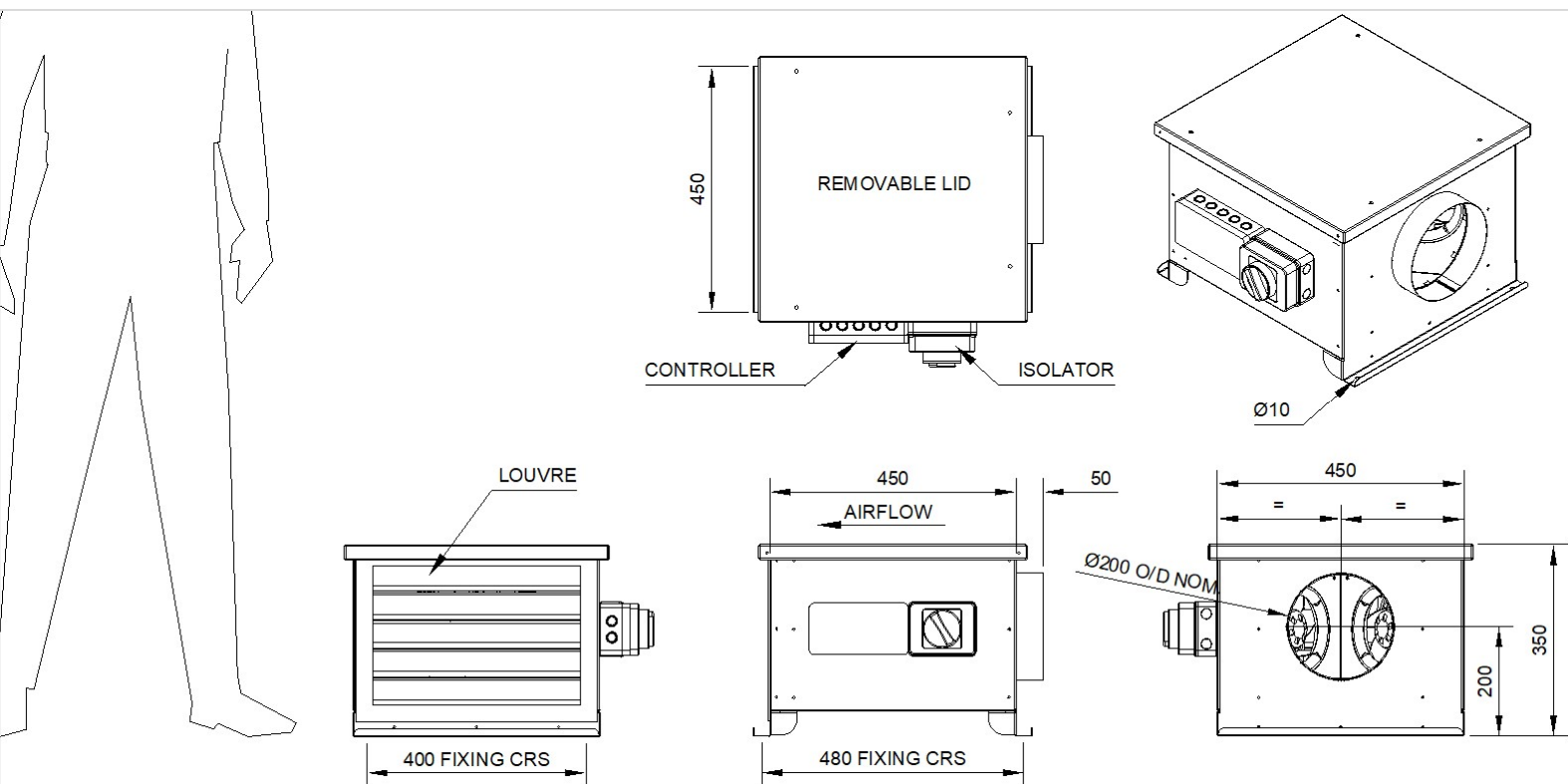


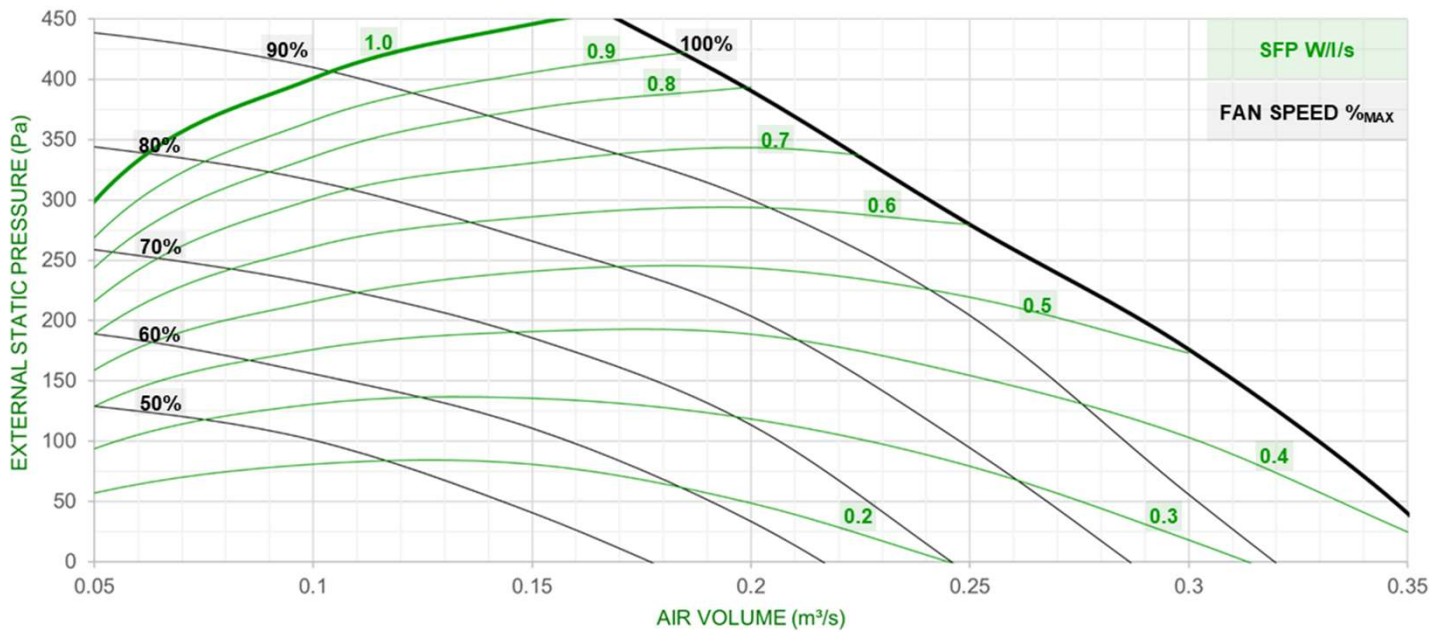


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	170W ea	1.75 A ea	17.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	74	62	61	66	66	65	66	63	63
	Outlet	77	61	61	66	69	70	72	68	67
90%	Inlet	71	63	58	63	63	62	62	59	59
	Outlet	74	66	59	64	65	66	68	65	62
80%	Inlet	68	62	57	61	59	58	59	56	54
	Outlet	71	66	57	61	61	63	64	61	57
70%	Inlet	64	57	55	58	56	56	55	53	49
	Outlet	67	58	55	59	58	60	60	57	52
60%	Inlet	62	54	55	56	54	54	52	50	45
	Outlet	65	54	54	57	56	57	58	54	48
50%	Inlet	69	65	65	60	55	52	50	44	38
	Outlet	69	63	64	61	57	56	55	49	40

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

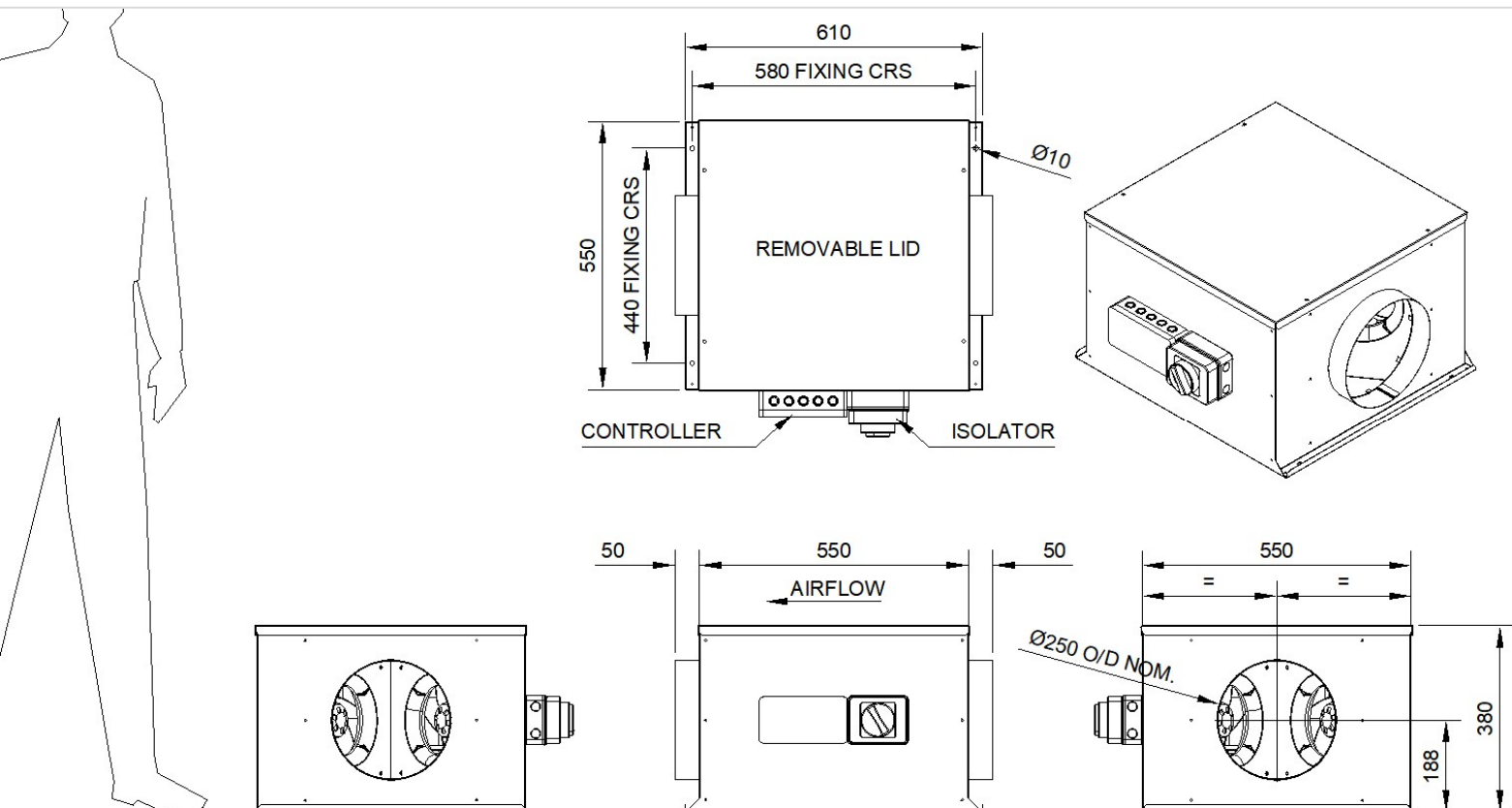


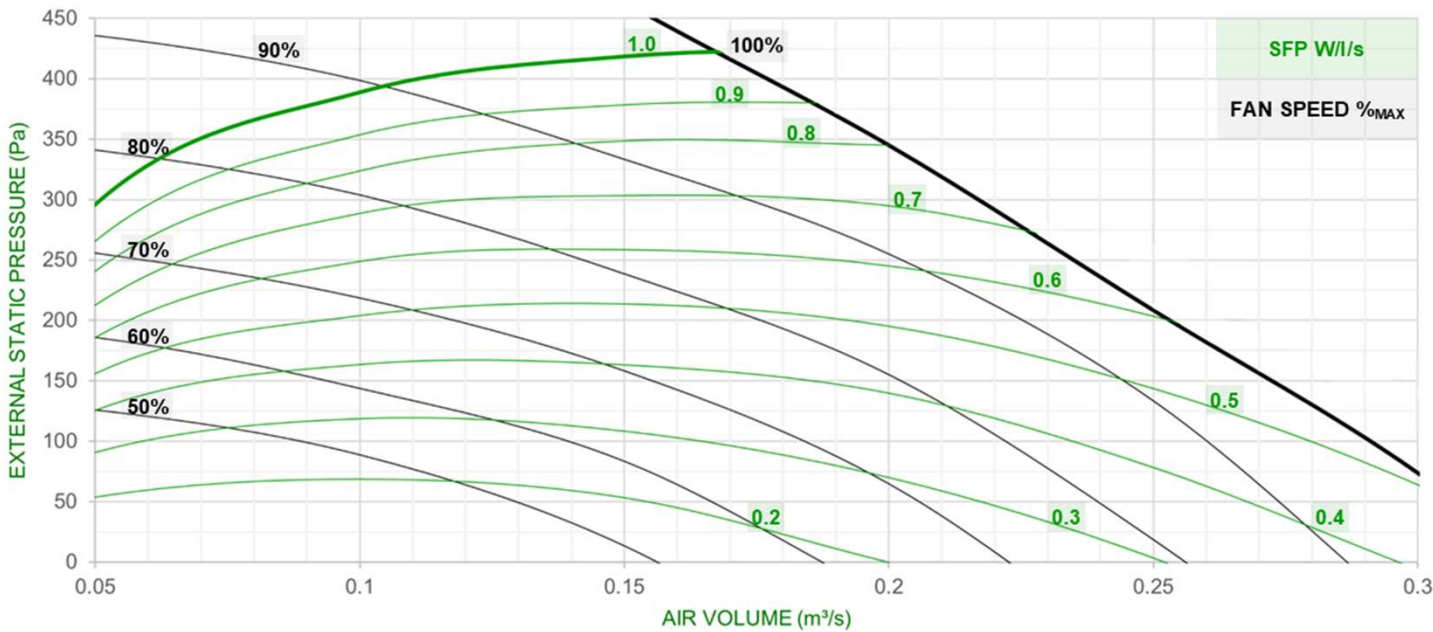


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	170W ea	1.65 A ea	23.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	74	66	67	68	66	65	64	62	62
	Outlet	78	64	68	70	69	70	71	66	66
90%	Inlet	72	63	66	66	62	61	60	60	59
	Outlet	75	62	66	66	65	67	68	62	62
80%	Inlet	68	61	62	62	58	58	57	56	54
	Outlet	71	60	62	63	62	63	64	59	57
70%	Inlet	63	57	56	57	52	52	52	51	46
	Outlet	66	56	56	60	56	58	59	54	48
60%	Inlet	62	57	57	56	50	49	49	47	40
	Outlet	65	56	57	60	54	55	56	50	43

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

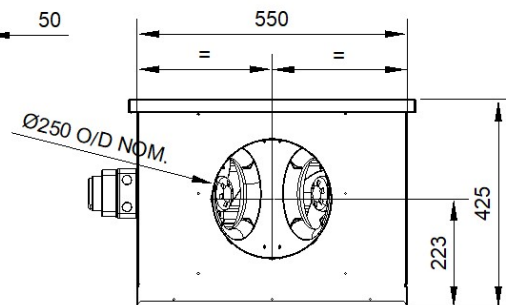
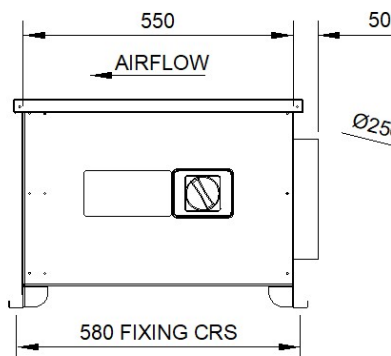
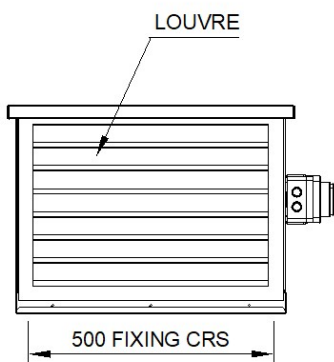
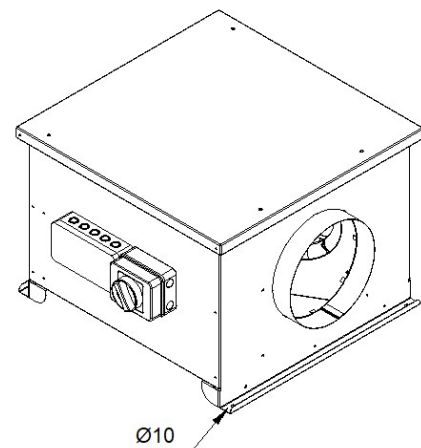
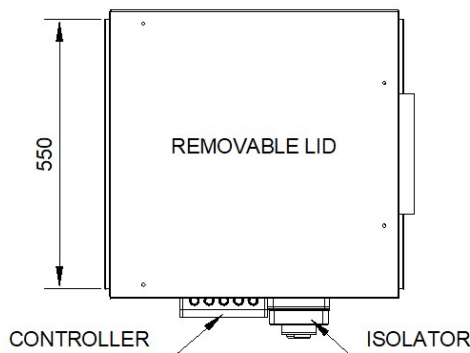
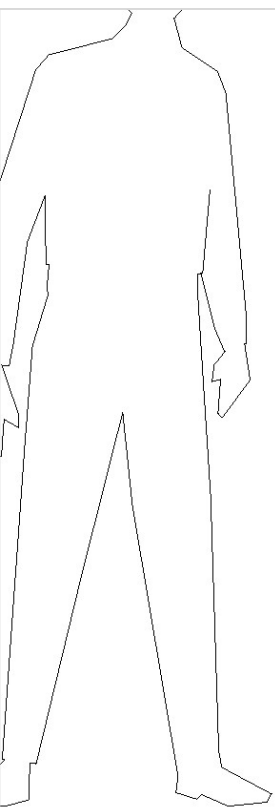


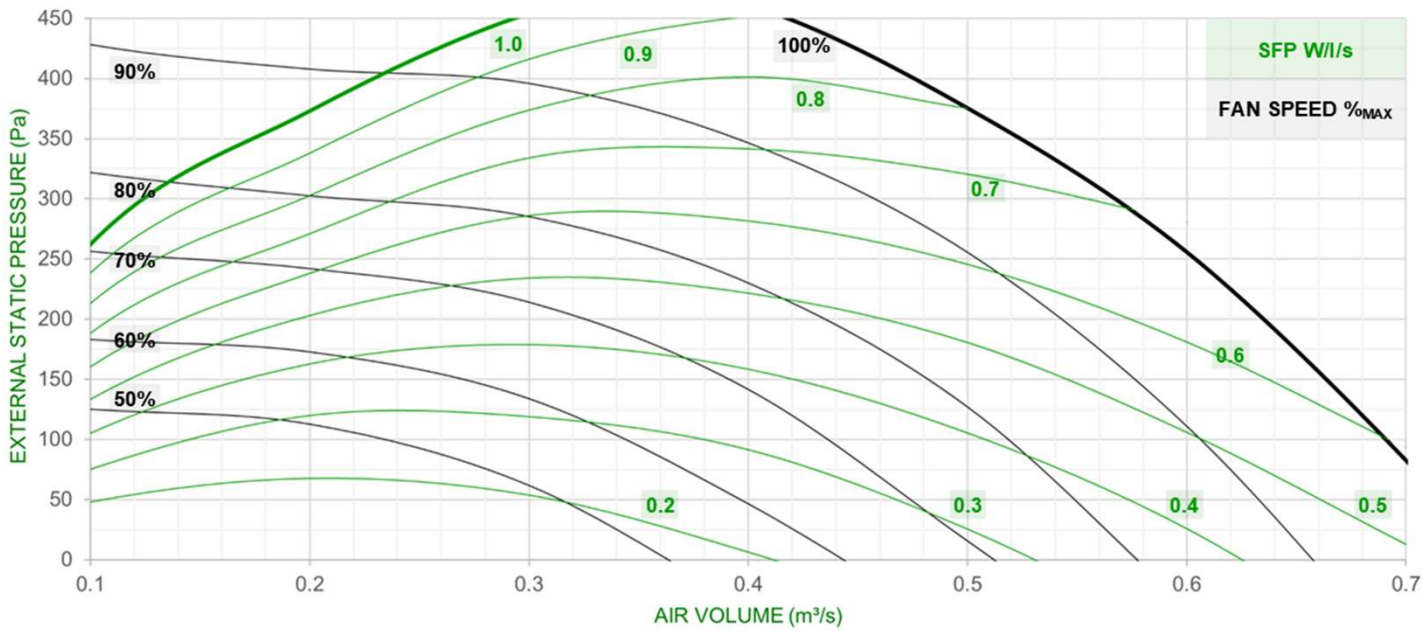


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	170W ea	1.65 A ea	24.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	72	63	66	66	62	61	60	60	59
	Outlet	75	62	66	66	65	67	68	62	62
90%	Inlet	70	62	64	63	60	59	59	58	57
	Outlet	73	61	64	65	63	65	66	61	60
80%	Inlet	66	59	60	60	55	55	55	54	51
	Outlet	69	58	60	62	59	61	63	57	53
70%	Inlet	63	57	56	57	52	52	52	51	45
	Outlet	66	56	56	60	56	58	58	53	48
60%	Inlet	63	58	59	55	49	49	48	45	38
	Outlet	65	58	60	59	53	54	55	48	41

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

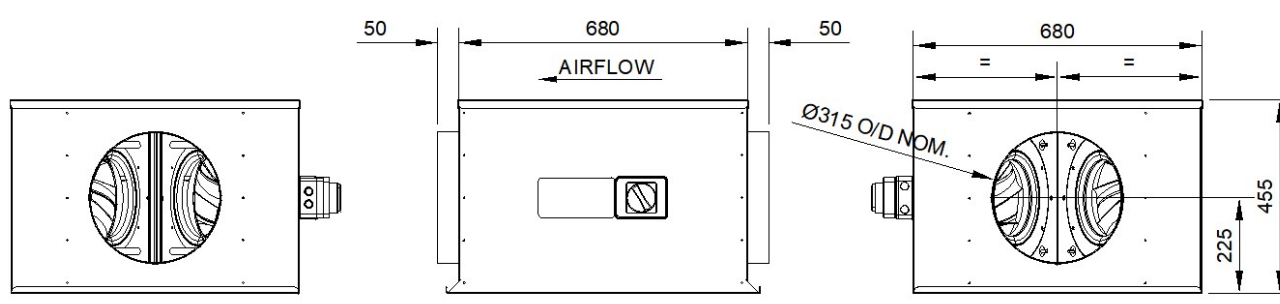
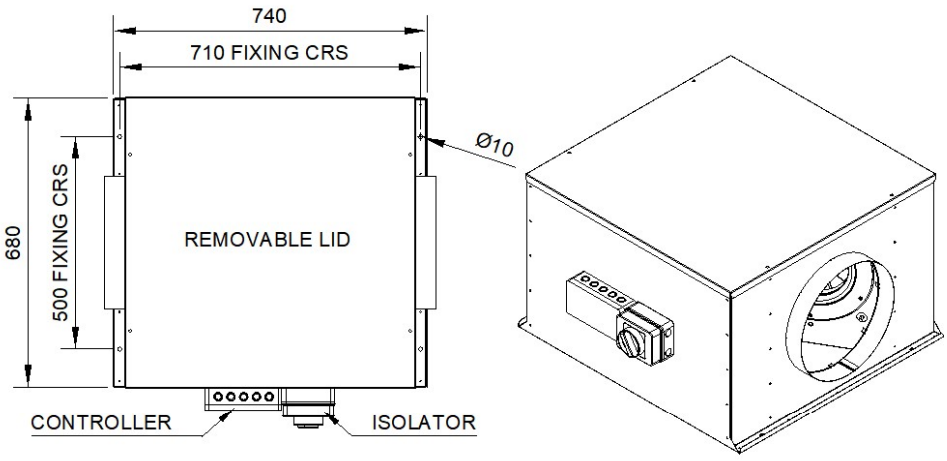
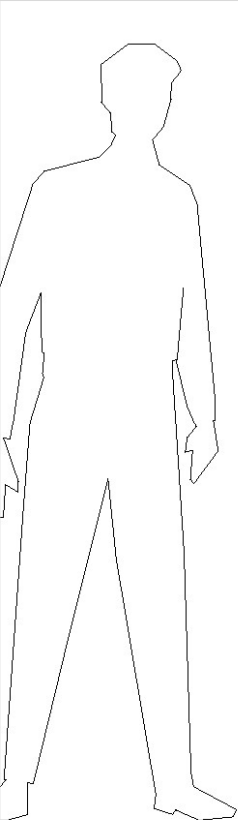




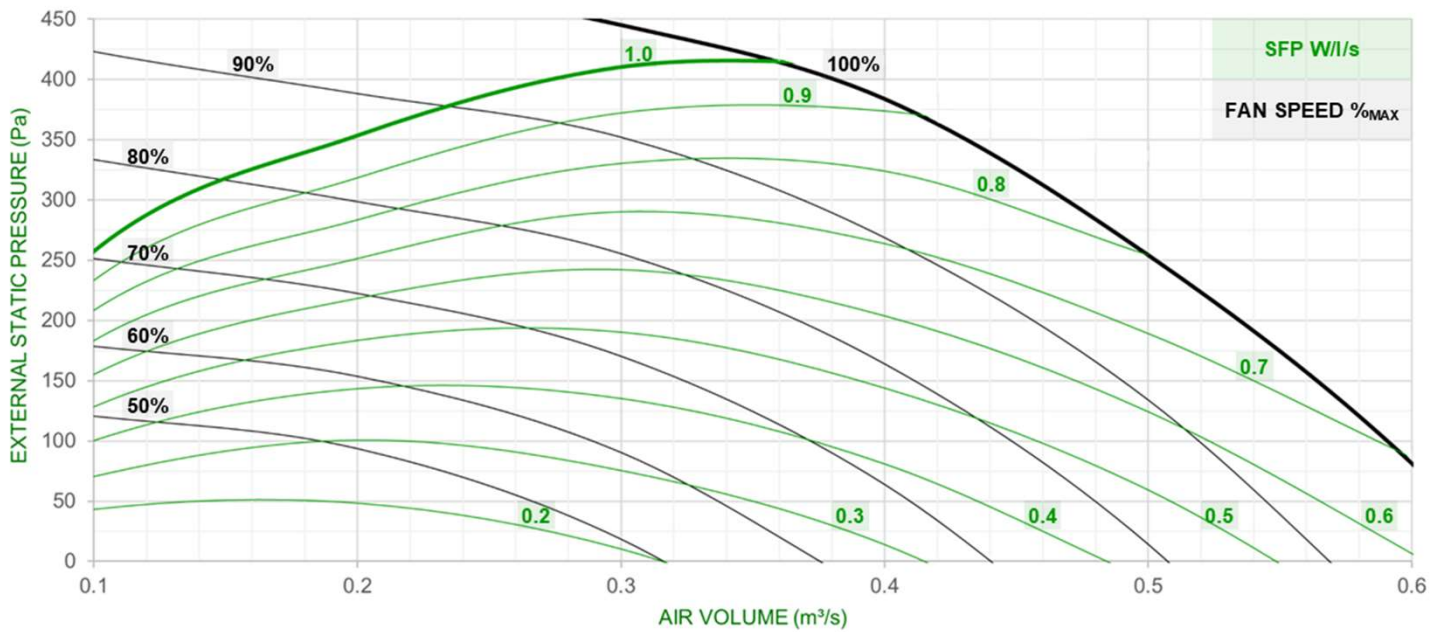
Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	440W ea	2.2 A ea	42.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	74	64	62	67	66	67	65	64	62
	Outlet	79	66	64	70	70	71	73	69	68
90%	Inlet	72	61	60	66	63	64	63	61	59
	Outlet	76	62	62	67	67	69	71	67	65
80%	Inlet	68	58	57	62	60	61	60	58	55
	Outlet	73	58	59	64	64	66	68	63	60
70%	Inlet	66	57	56	58	58	58	57	54	50
	Outlet	70	56	57	61	61	63	65	60	54
60%	Inlet	64	58	57	55	54	55	53	48	41
	Outlet	67	57	58	59	57	59	61	54	47

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval



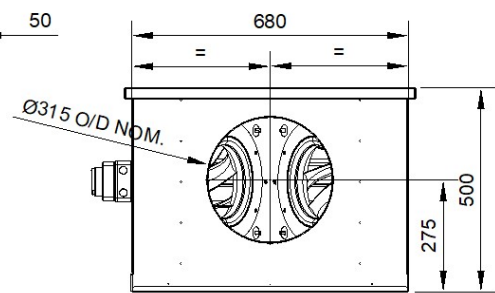
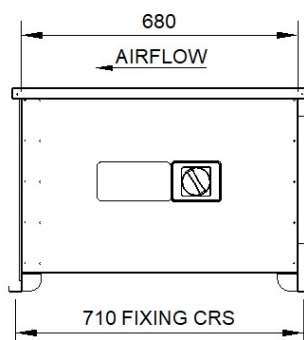
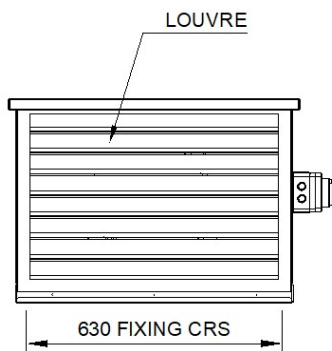
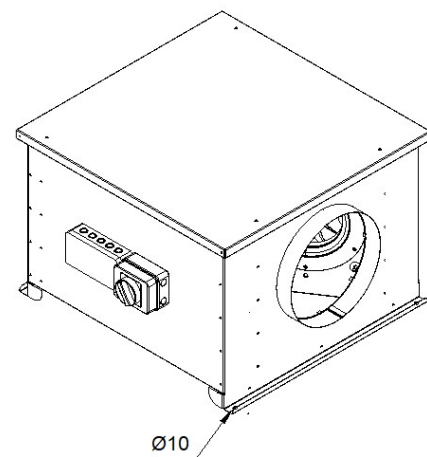
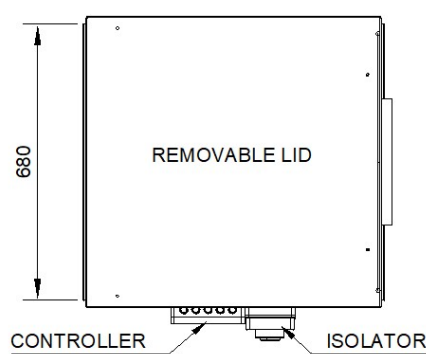
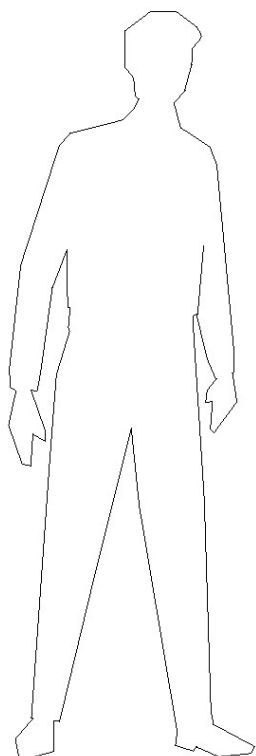


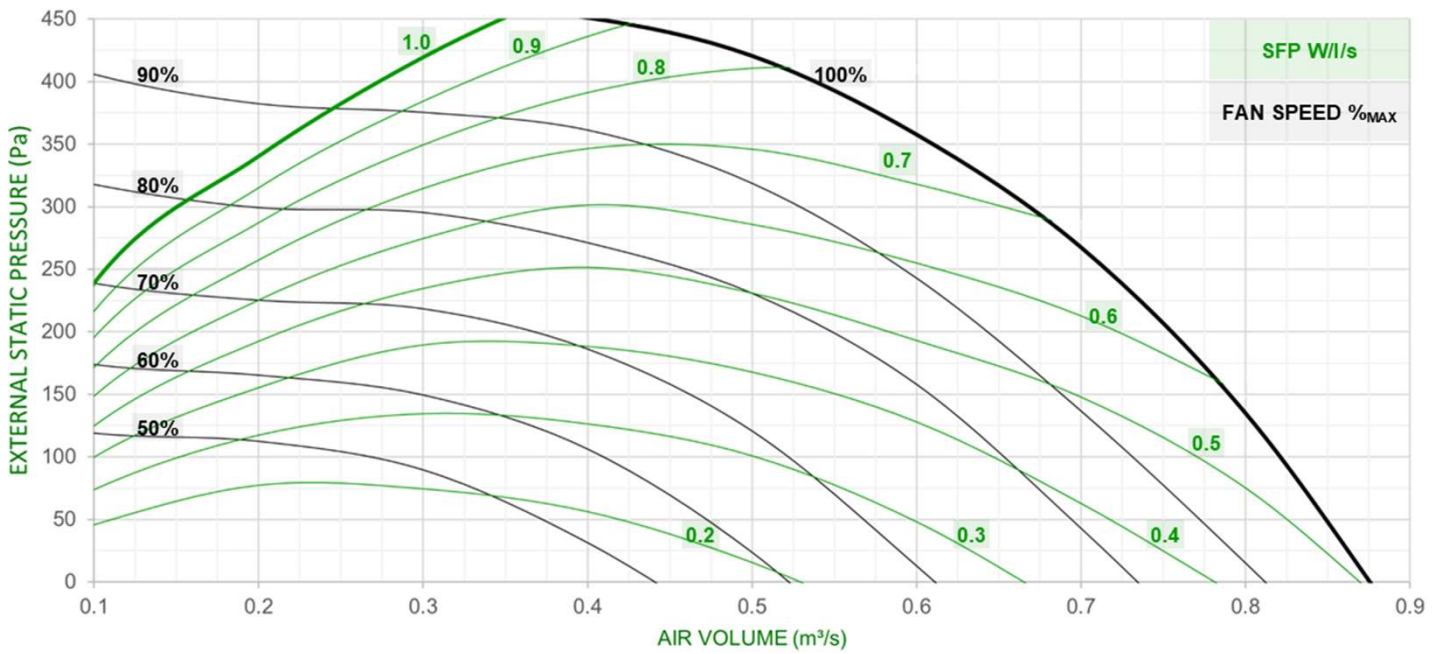


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	440W ea	2.2 A ea	45.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	72	61	59	66	63	63	62	61	58
	Outlet	76	61	61	67	67	68	70	66	64
90%	Inlet	69	58	58	63	61	61	60	58	55
	Outlet	73	58	59	64	64	66	68	64	60
80%	Inlet	66	57	56	58	58	59	57	55	51
	Outlet	70	57	57	62	62	63	65	61	55
70%	Inlet	64	58	55	56	56	56	54	51	45
	Outlet	68	57	57	61	59	60	63	57	50
60%	Inlet	66	63	61	55	53	54	52	45	37
	Outlet	68	62	62	59	57	58	59	51	43

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

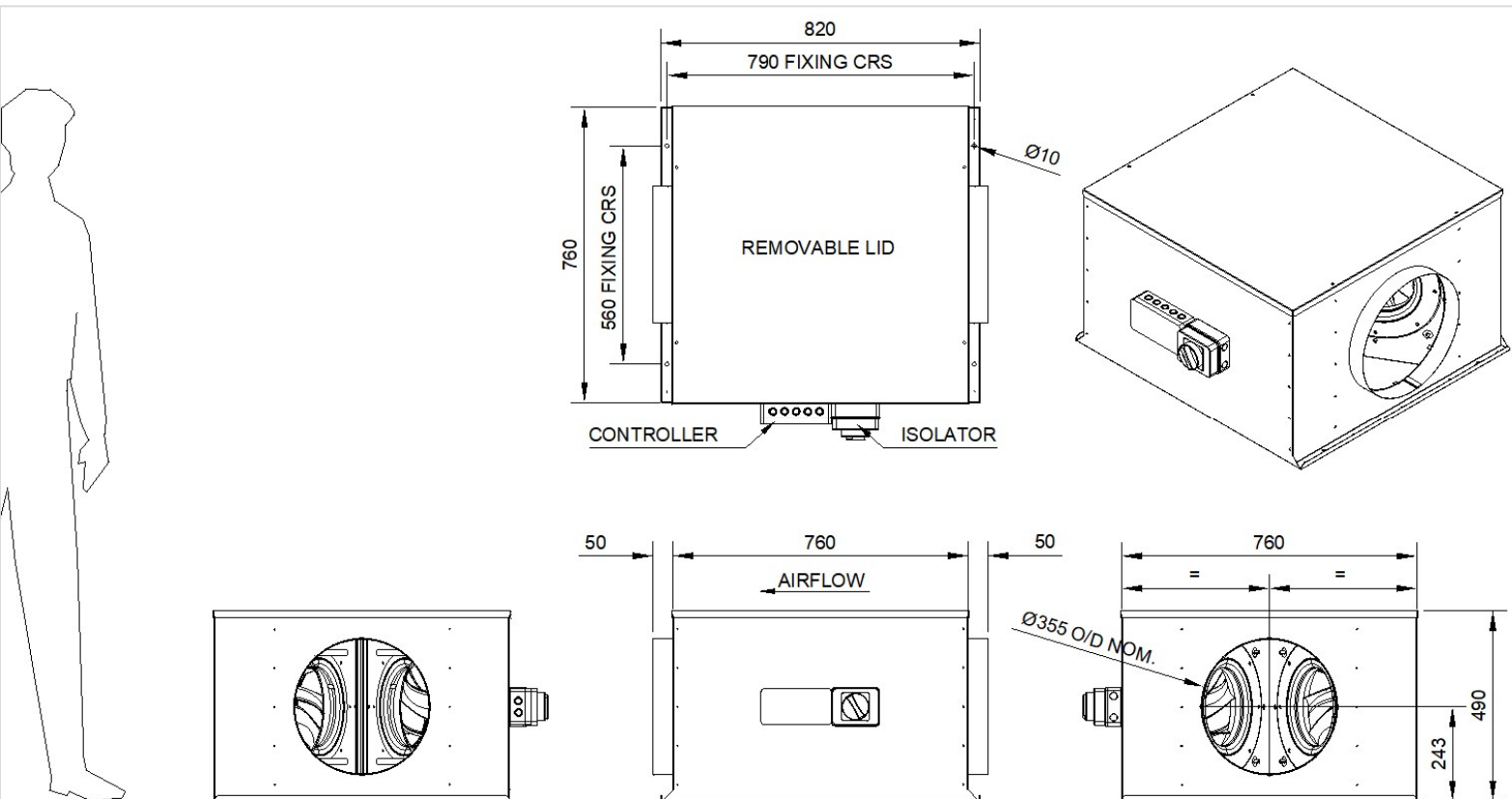


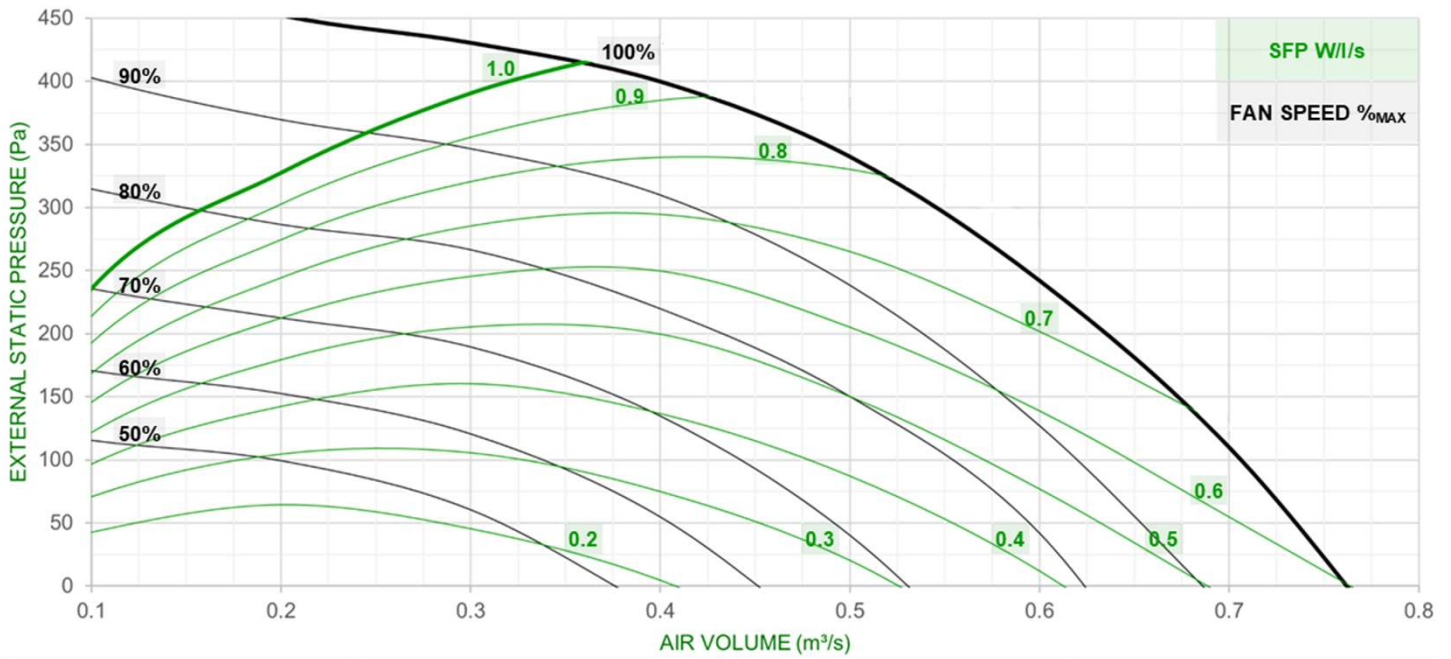


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	500W ea	2.6 A ea	51.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	74	64	61	68	66	65	65	64	61
	Outlet	79	65	64	71	70	71	72	69	66
90%	Inlet	71	60	58	64	64	63	62	61	57
	Outlet	76	61	61	68	68	69	70	67	62
80%	Inlet	69	57	56	61	62	61	60	58	54
	Outlet	73	57	59	65	66	67	68	64	59
70%	Inlet	65	53	55	57	58	57	56	53	47
	Outlet	69	53	57	60	61	63	64	59	52
60%	Inlet	63	57	58	54	55	53	52	47	38
	Outlet	67	56	60	57	57	58	61	53	44

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

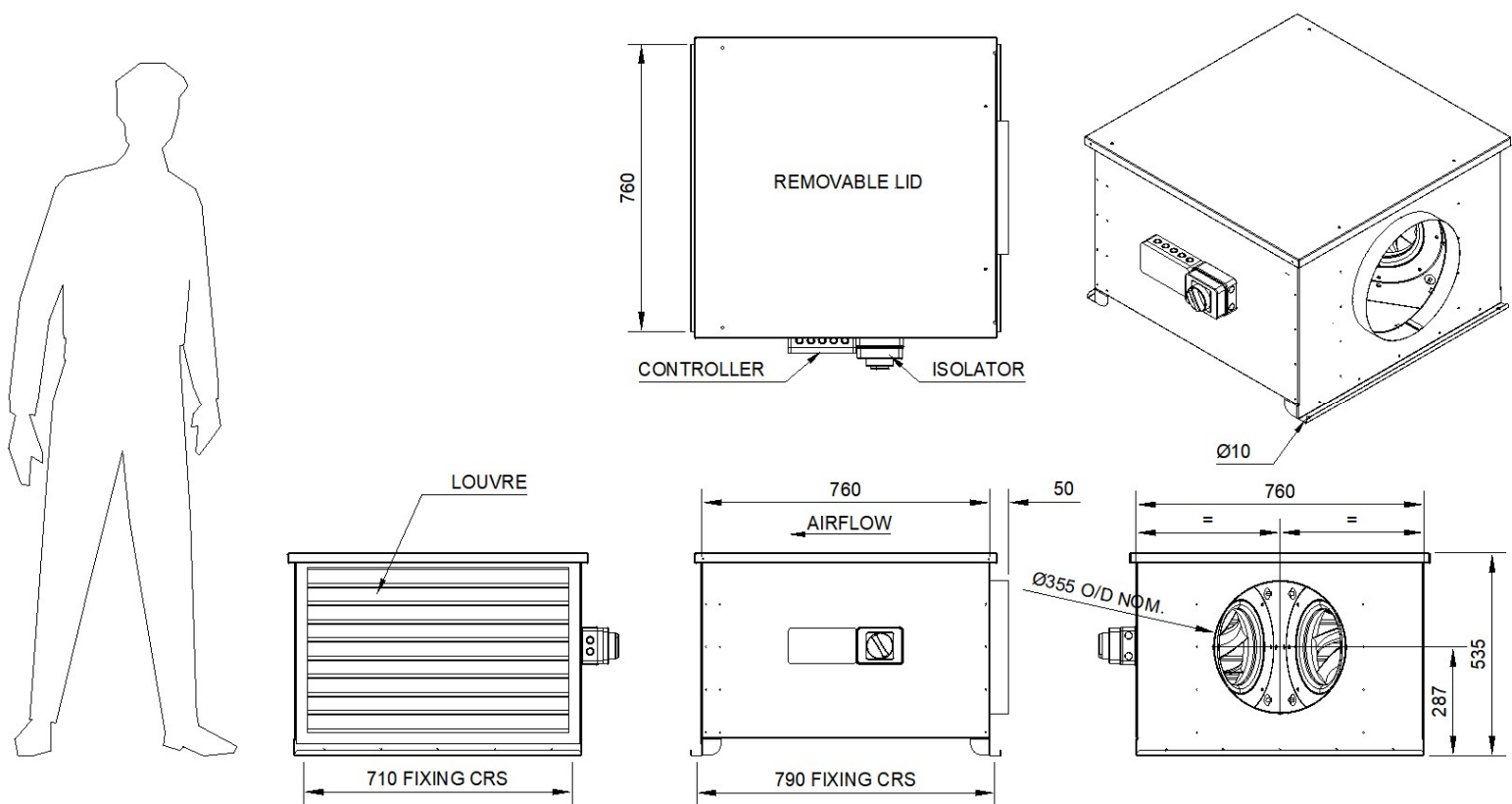


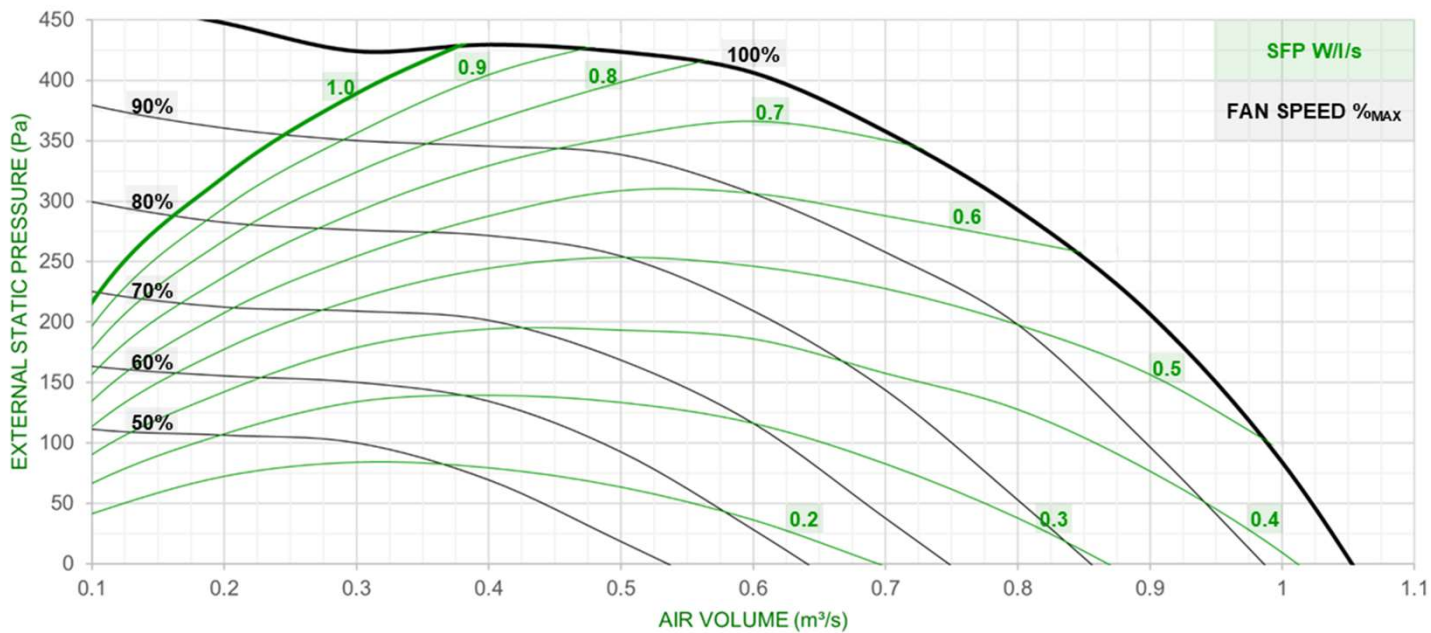


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	500W ea	2.6 A ea	52.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	71	60	58	64	64	63	62	61	57
	Outlet	76	60	61	67	68	69	70	66	62
90%	Inlet	68	56	55	60	62	60	60	58	53
	Outlet	73	56	58	64	65	66	67	63	58
80%	Inlet	66	54	55	58	59	58	58	55	50
	Outlet	71	54	57	61	62	64	65	61	54
70%	Inlet	63	53	57	55	56	55	54	51	43
	Outlet	68	53	59	57	58	60	63	57	49
60%	Inlet	72	70	65	57	56	54	52	45	37
	Outlet	72	70	66	61	59	59	60	52	42

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

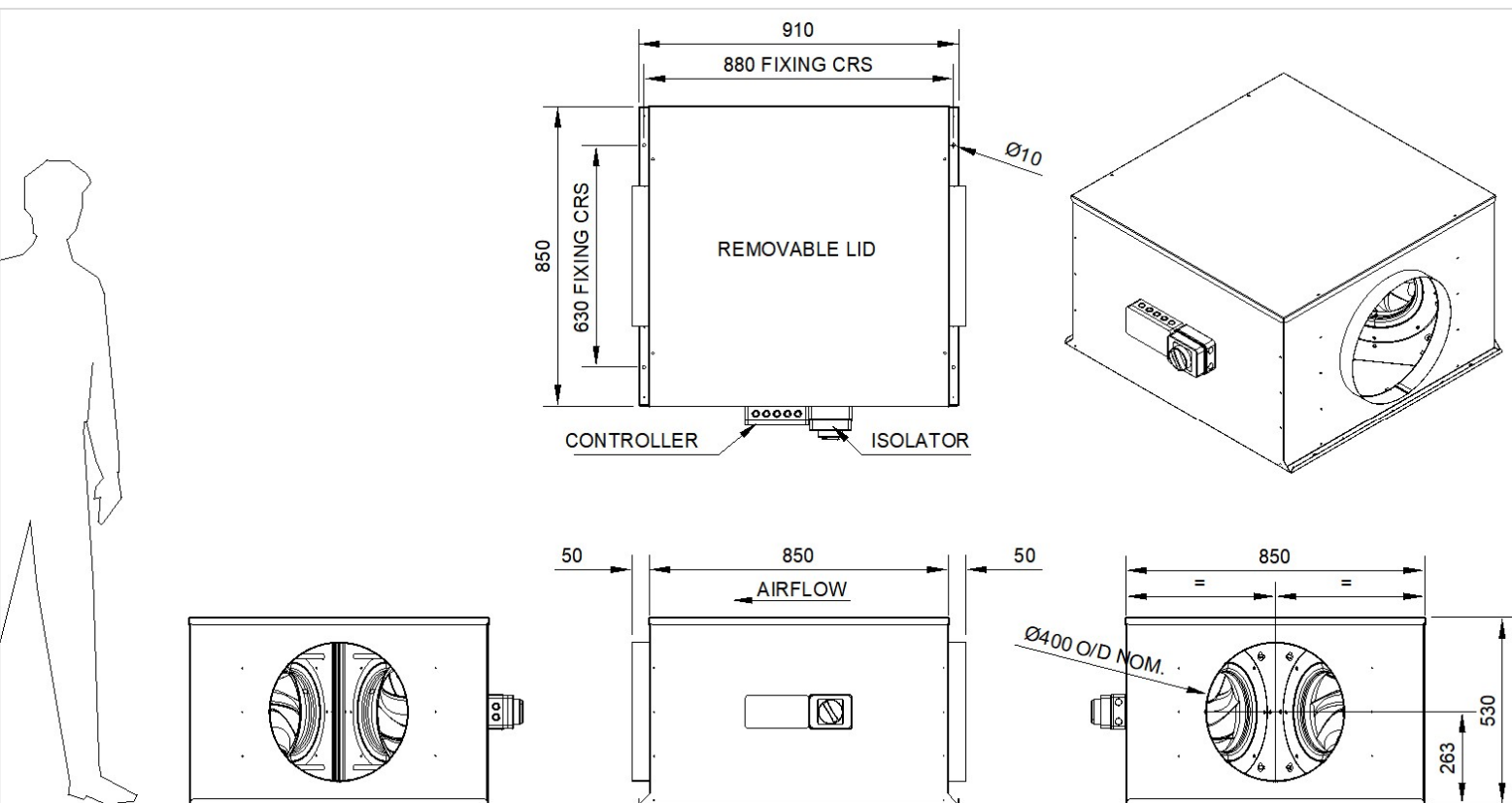


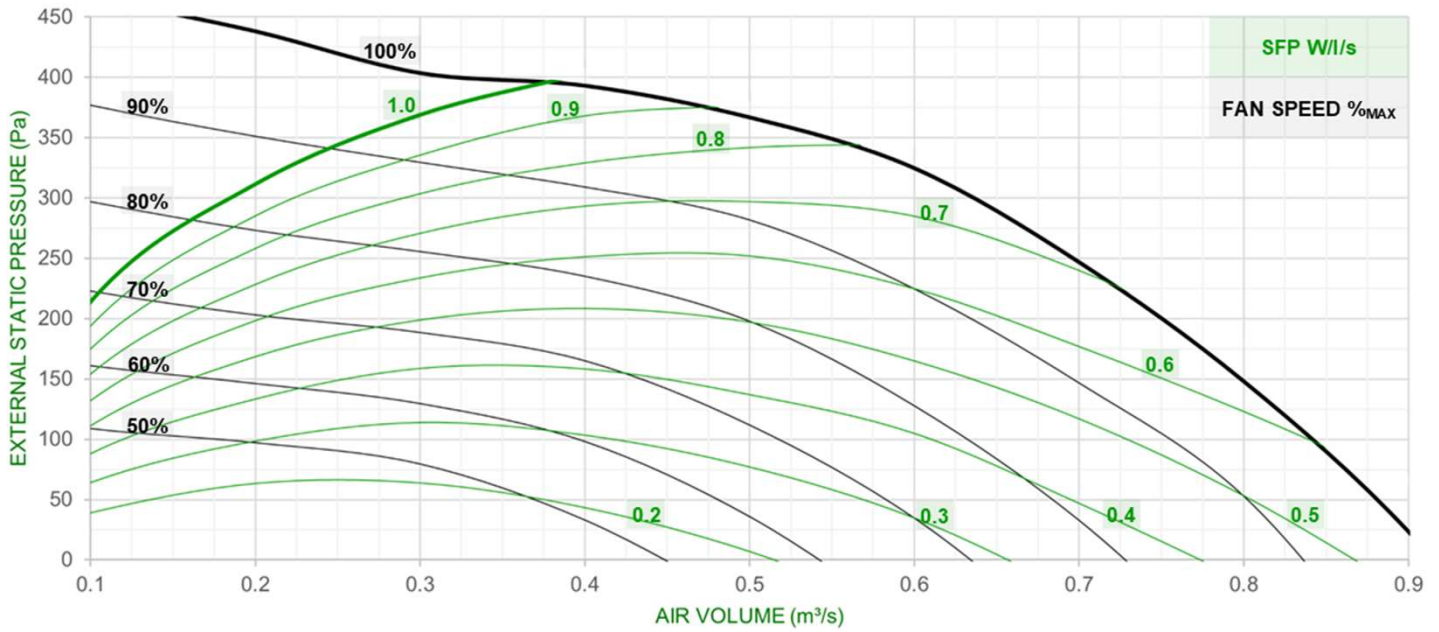


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	560W ea	2.8 A ea	69.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	72	67	64	69	68	66	66	64	61
	Outlet	80	67	67	73	72	73	72	70	67
90%	Inlet	73	65	62	66	66	64	64	62	59
	Outlet	78	65	65	71	69	71	70	67	64
80%	Inlet	69	59	59	61	62	61	60	58	52
	Outlet	73	59	62	65	65	67	67	63	58
70%	Inlet	66	59	58	57	59	59	56	54	47
	Outlet	70	58	61	59	61	65	64	59	53
60%	Inlet	70	68	62	55	56	57	51	46	38
	Outlet	71	68	63	58	58	63	59	51	44

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

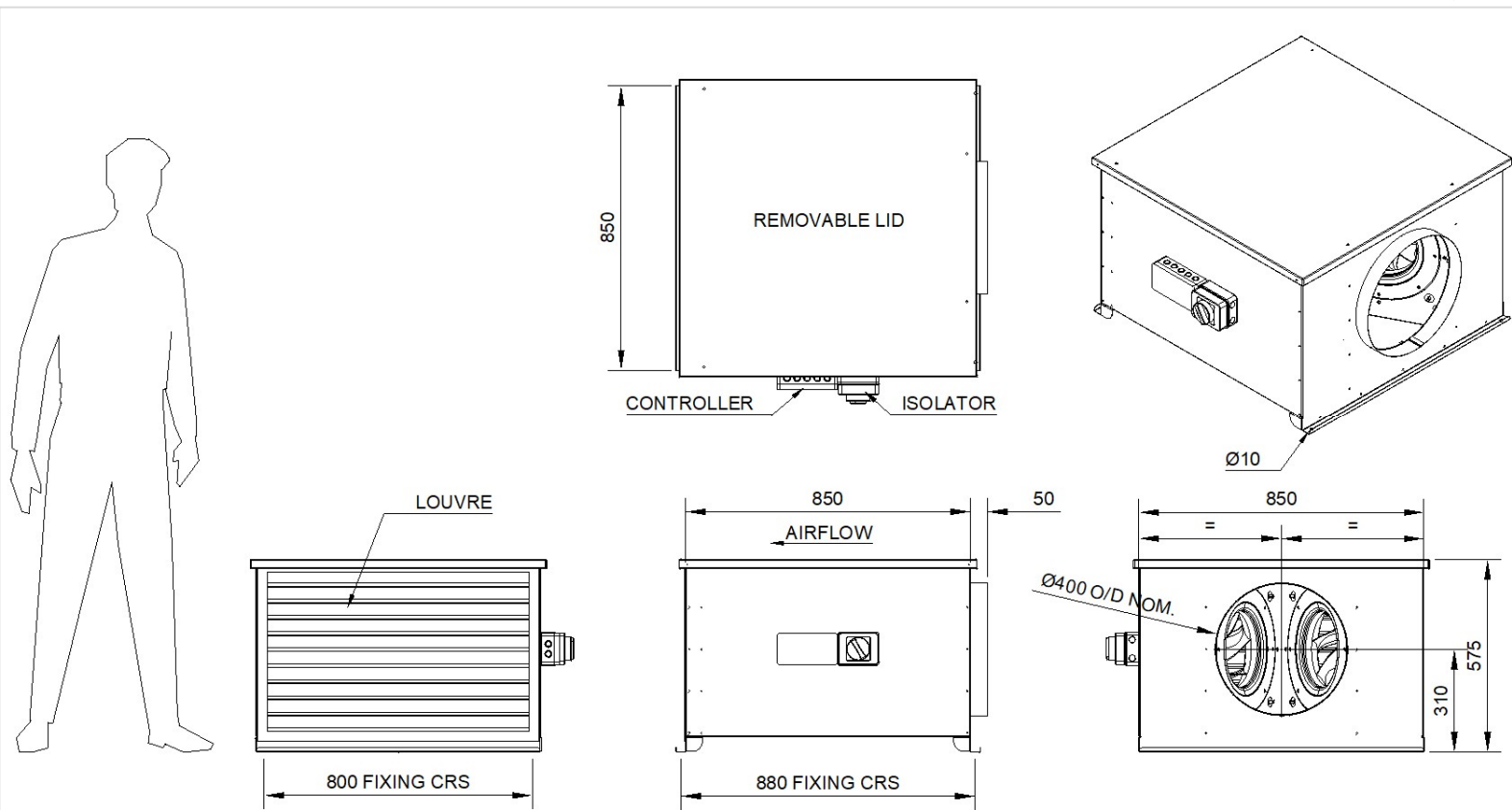


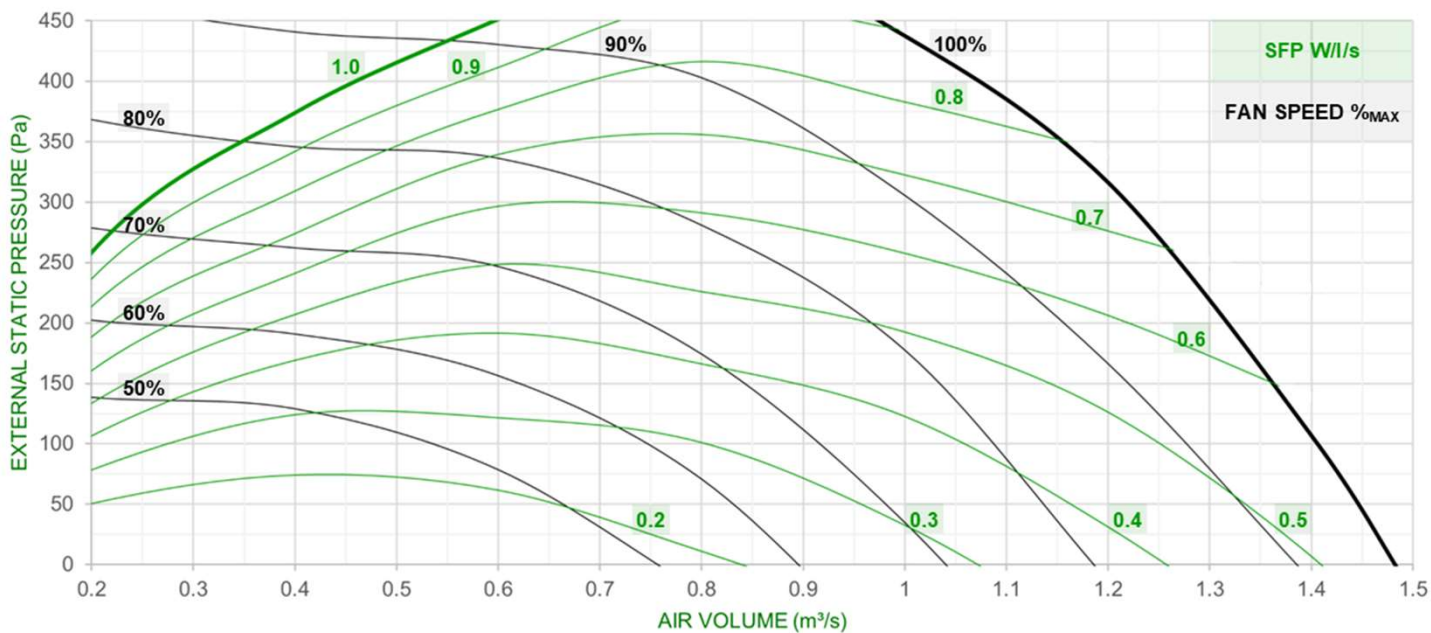


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	560W ea	2.8 A ea	68.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	71	62	61	64	64	63	62	60	56
	Outlet	76	62	64	69	67	70	69	66	62
90%	Inlet	69	59	59	62	62	61	60	58	53
	Outlet	74	59	62	65	65	68	67	63	58
80%	Inlet	67	58	58	58	60	59	57	55	48
	Outlet	71	58	61	61	62	65	65	60	54
70%	Inlet	67	63	59	55	57	57	55	51	44
	Outlet	69	61	60	57	59	64	62	56	50
60%	Inlet	77	76	70	63	62	59	53	47	40
	Outlet	77	75	70	66	64	65	61	53	45

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

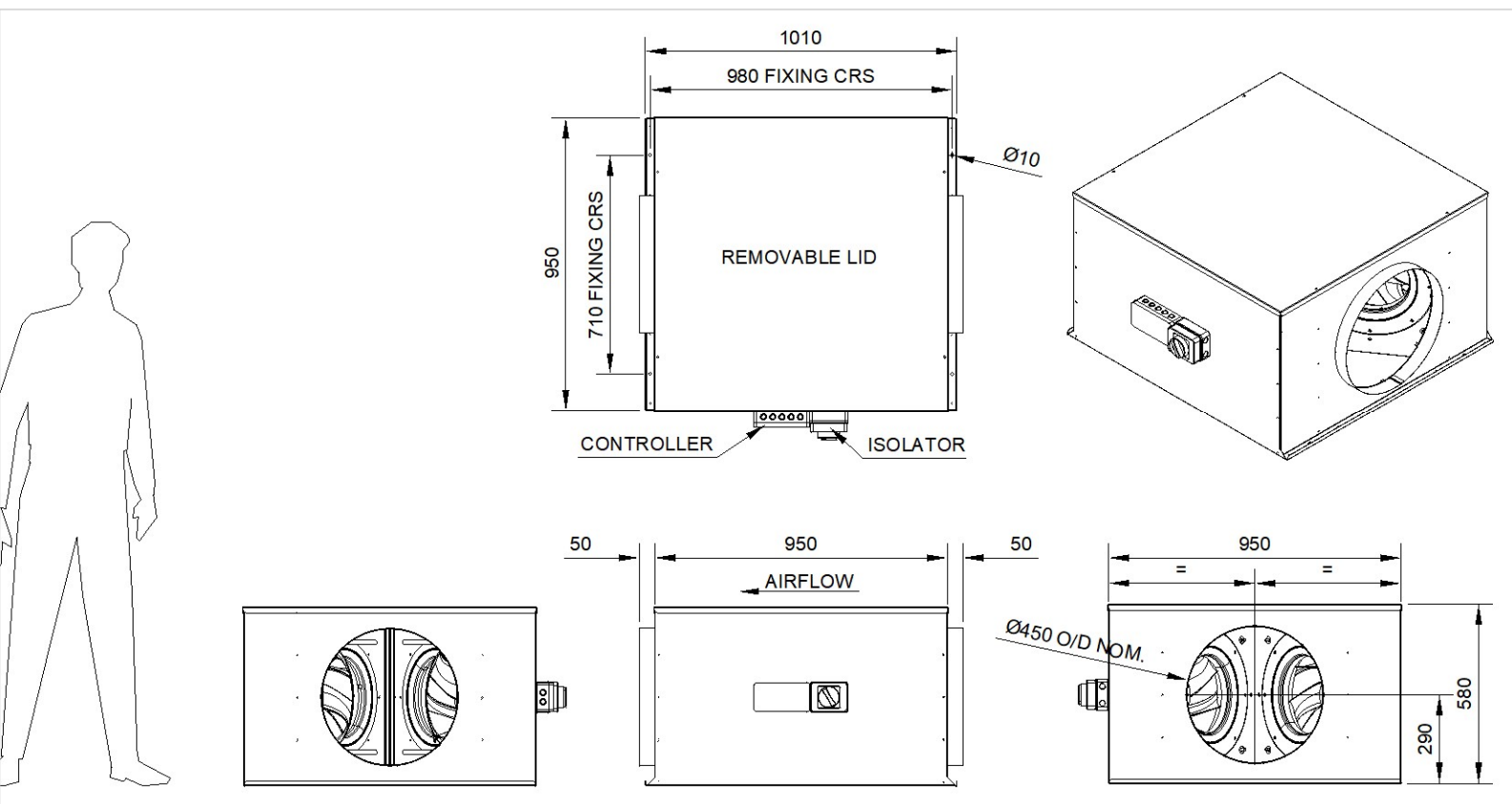


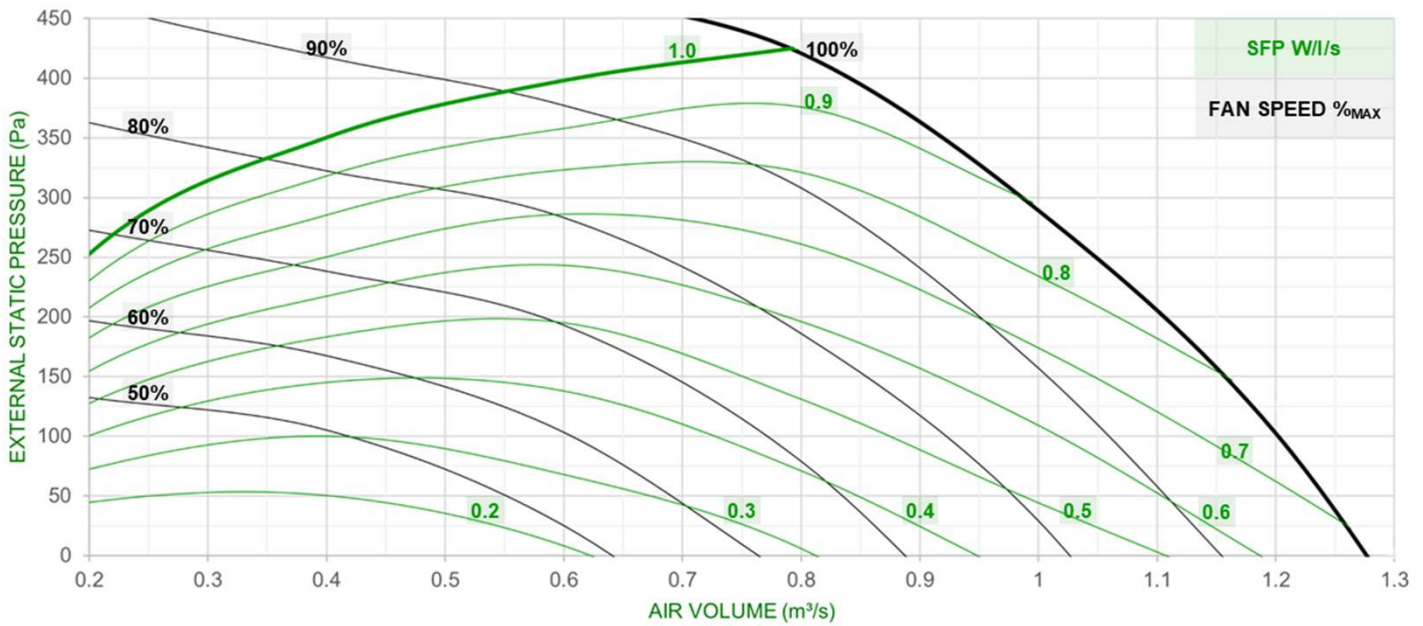


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	980W ea	5.0 A ea	91.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	78	68	67	72	71	68	68	66	63
	Outlet	83	71	70	76	74	76	76	72	68
90%	Inlet	75	65	65	69	69	67	66	64	60
	Outlet	80	67	68	73	72	74	73	70	65
80%	Inlet	73	61	62	67	66	64	65	61	56
	Outlet	77	63	65	69	69	71	70	66	61
70%	Inlet	69	57	61	62	62	62	60	57	50
	Outlet	73	58	64	64	65	68	66	62	55
60%	Inlet	67	57	62	59	58	57	56	52	43
	Outlet	70	57	63	60	62	63	62	57	49

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

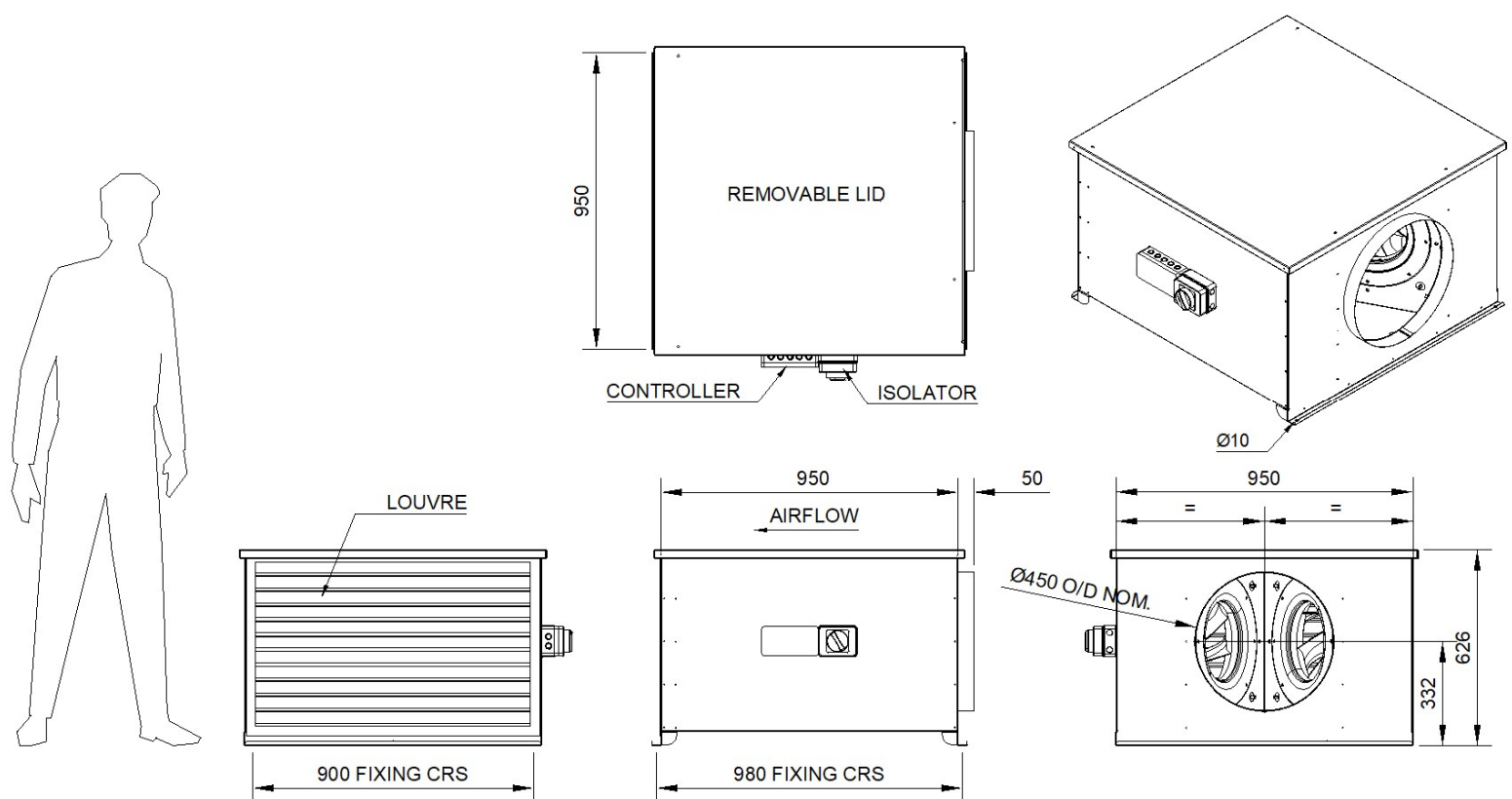


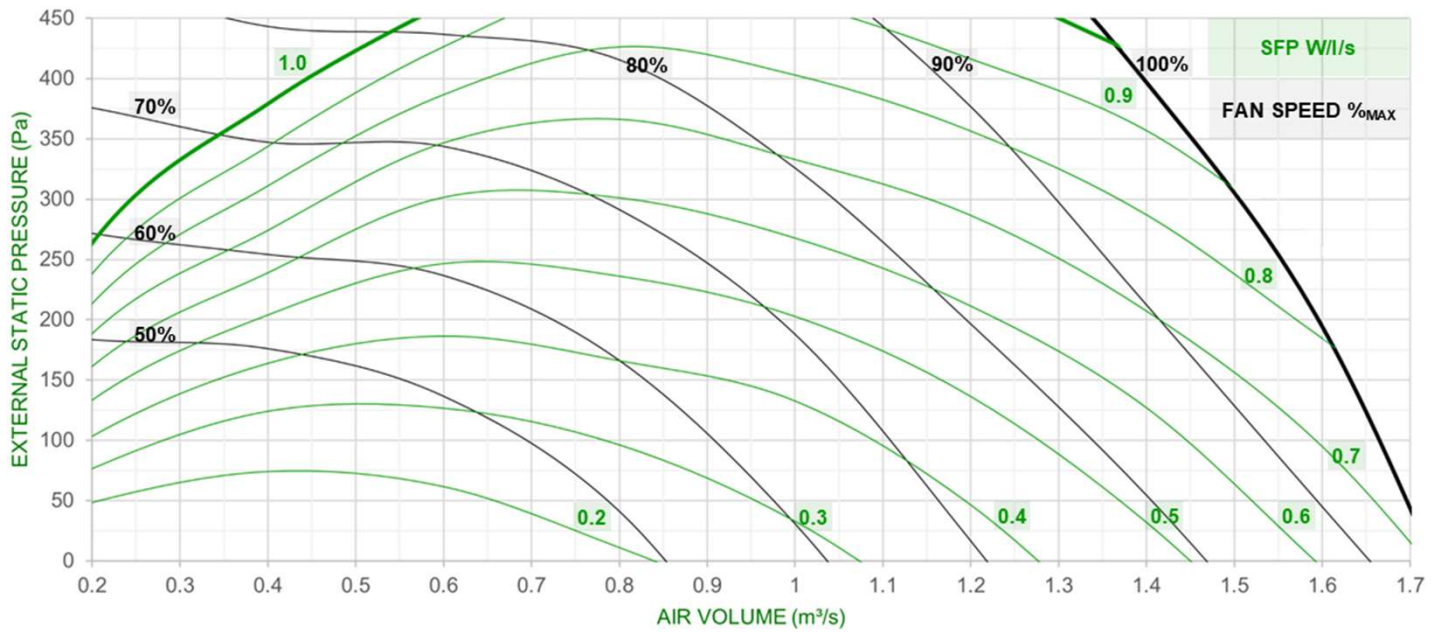


Power Supply	Motor Power	FLC	Weight
230V AC, 1~ 50Hz	980W ea	5.0 A ea	89.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	74	63	63	67	67	65	65	62	58
	Outlet	78	65	67	71	70	73	71	68	63
90%	Inlet	72	60	62	66	66	64	64	60	55
	Outlet	76	62	65	68	68	71	69	66	60
80%	Inlet	69	57	61	62	62	62	60	57	50
	Outlet	73	58	64	64	65	68	66	62	55
70%	Inlet	67	57	61	59	59	59	56	53	45
	Outlet	70	57	63	61	62	64	63	58	50
60%	Inlet	66	60	62	57	56	57	53	47	39
	Outlet	69	59	63	59	60	62	60	52	45

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

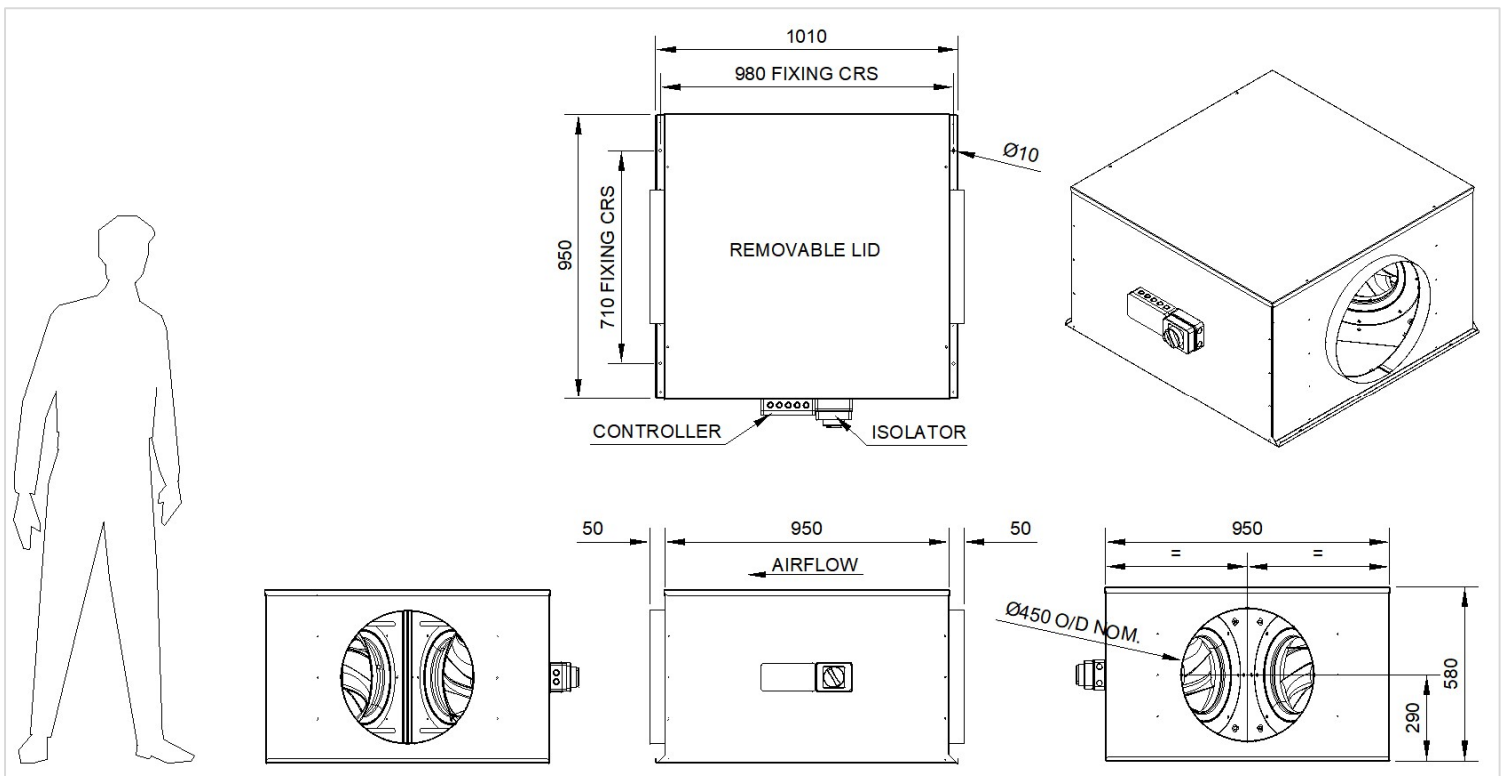




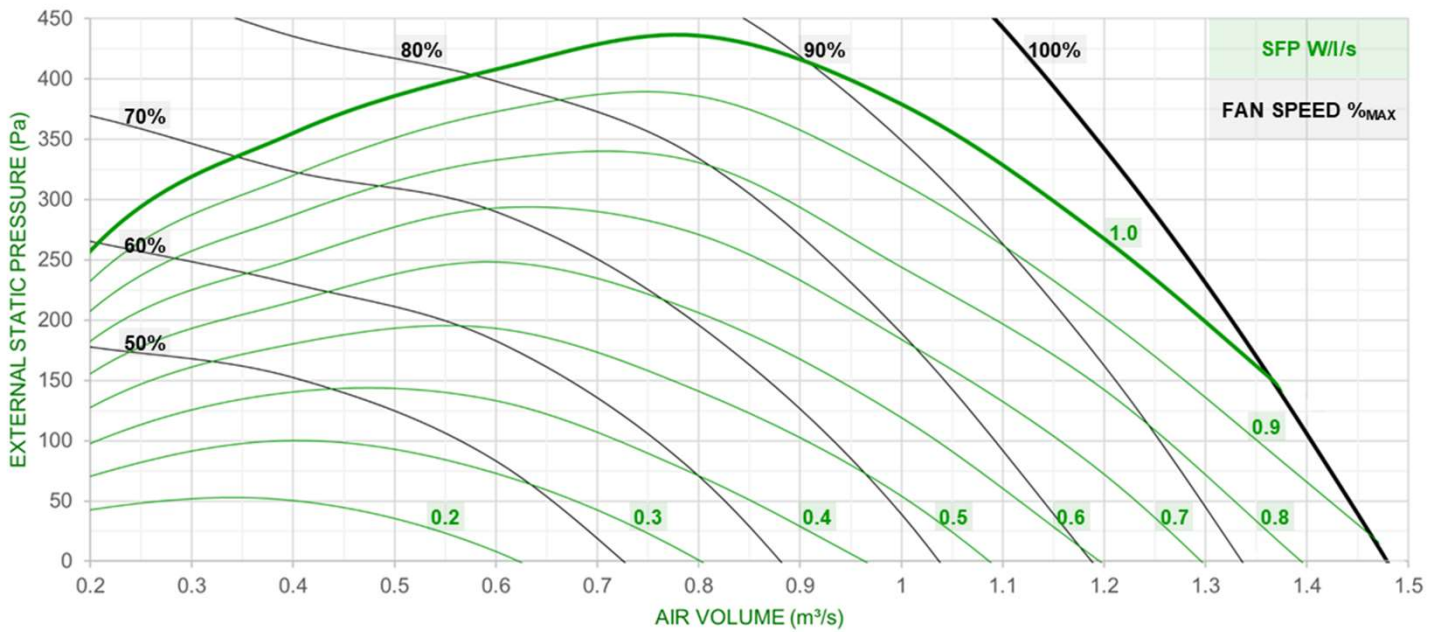
Power Supply	Motor Power	FLC	Weight
400V AC, 3~ 50Hz	1.5kW ea	2.6 A ea	91.0Kgs

Duty Curve	Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
100%	Inlet	83	77	71	79	75	72	71	70	69
	Outlet	88	79	75	82	79	80	79	76	74
90%	Inlet	80	73	68	75	72	69	68	68	65
	Outlet	84	74	72	78	76	77	76	73	70
80%	Inlet	77	70	65	72	69	67	66	65	61
	Outlet	81	70	69	74	72	74	73	70	66
70%	Inlet	73	67	64	67	65	64	63	61	57
	Outlet	77	67	68	69	68	71	70	67	61
60%	Inlet	70	63	62	64	62	61	59	56	50
	Outlet	73	63	65	64	65	67	66	62	55
50%	Inlet	67	60	60	60	59	57	55	50	43
	Outlet	69	60	61	61	61	62	61	56	48

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval



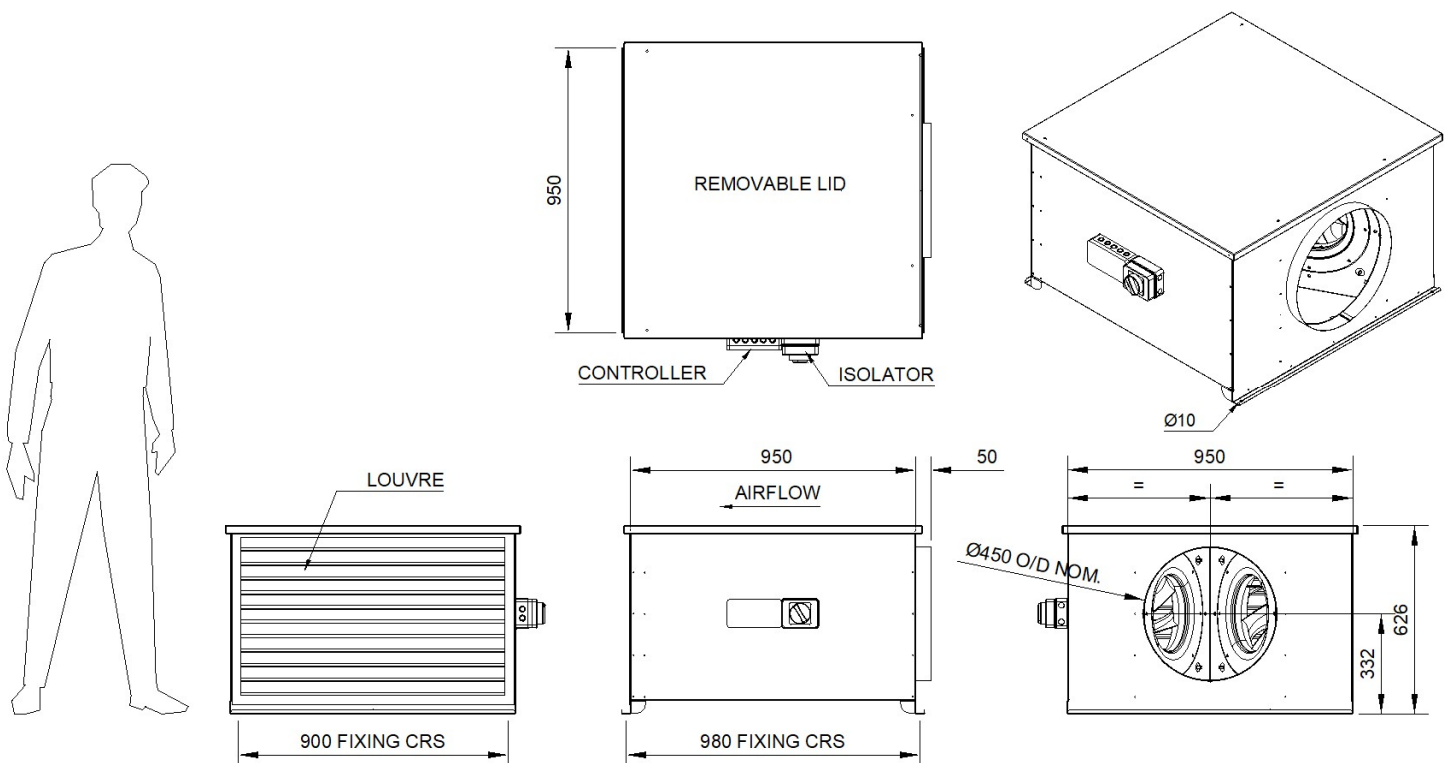




Power Supply	Motor Power	FLC	Weight
400V AC, 3~ 50Hz	1.5kW ea	2.4 A ea	89.0Kgs

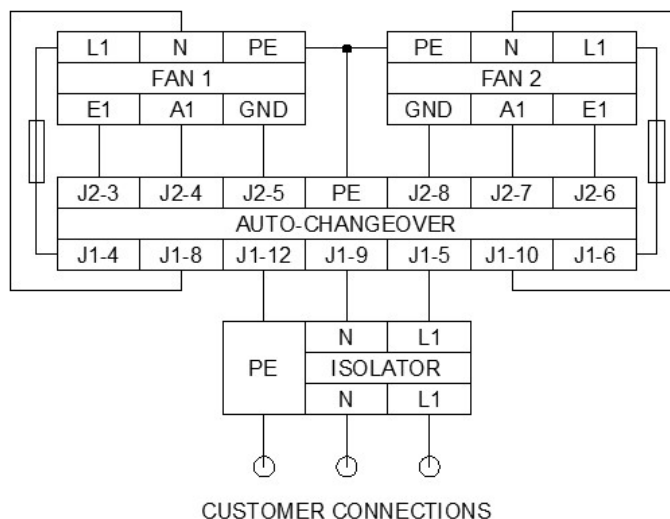
Duty Curve		Sum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
100%	Inlet	78	71	66	74	70	68	67	66	63
	Outlet	83	71	70	76	74	76	75	72	68
90%	Inlet	76	69	65	71	68	66	65	64	61
	Outlet	80	70	69	74	72	74	73	70	65
80%	Inlet	73	66	64	67	65	64	63	61	56
	Outlet	77	67	68	69	68	71	69	66	61
70%	Inlet	70	63	62	65	62	61	59	57	51
	Outlet	74	63	65	65	65	68	66	62	56
60%	Inlet	68	60	60	61	60	59	57	53	45
	Outlet	71	60	62	62	62	64	63	58	51
50%	Inlet	68	65	62	59	58	56	52	46	38
	Outlet	70	65	63	61	59	60	59	52	44

\*Acoustic data given for fans running at an external pressure of 150Pa at each speed interval

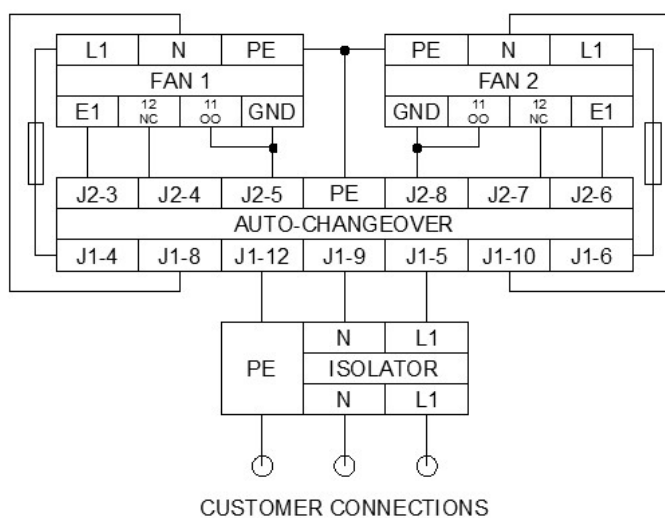




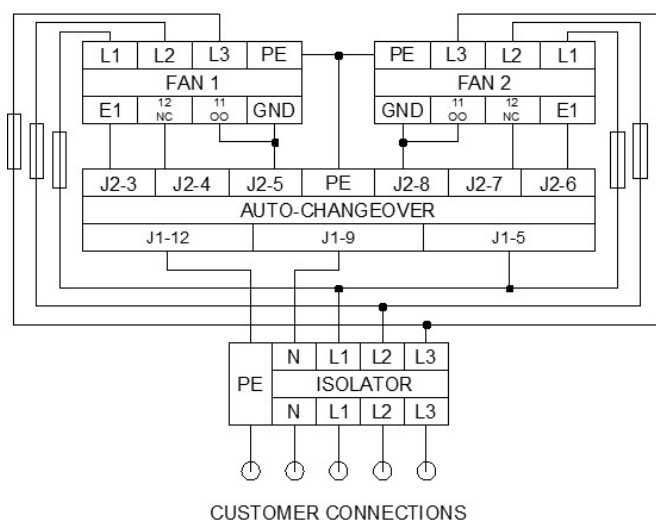
ECO-PTF-200, ECO-RTF-200  
 ECO-PTF-250, ECO-RTF-250  
 ECO-PTF-315, ECO-RTF-315  
 ECO-PTF-355, ECO-RTF-355  
 ECO-PTF-400, ECO-RTF-400



ECO-PTF-450, ECO-RTF-450



ECO-PTF-450-3, ECO-RTF-450-3



**Additional terminals used for all controllers:**

**J2-1** – Alarm Relay, Contact A, N/C 100mA 60V DC Max

**J2-2** – Alarm Relay, Contact B

**J2-11** – Stop / Run Control Input, Volt Free Contacts

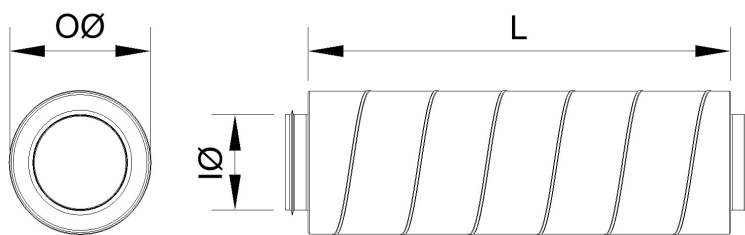
**J2-12** – 0V for Stop / Run Input

**J2-12** – Remote Low / High Fan Speed Select Input, Volt Free Contacts

**J2-14** – 0V for Remote Low / High Input

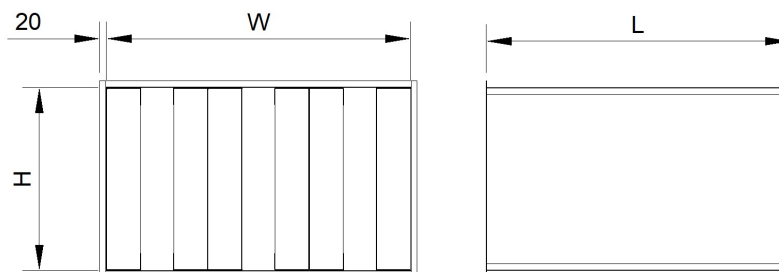


## PTF Inlet & Outlet, RTF Inlet



Model	Details				Insertion Losses (dB)							
	Inner Ømm	Outer Ømm	Lmm	Kg	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ECO-ATT-200-600	200	300	600	5.5	0	3	7	16	22	20	13	10
ECO-ATT-200-900	200	300	900	7.6	2	5	10	19	30	31	16	11
ECO-ATT-250-600	250	355	600	7.7	1	2	6	13	19	15	8	6
ECO-ATT-250-900	250	355	900	10.6	2	3	9	17	26	21	13	8
ECO-ATT-315-600	315	400	600	9.2	0	1	4	10	12	7	4	4
ECO-ATT-315-900	315	400	900	12.6	1	2	6	15	21	15	8	7
ECO-ATT-355-600	355	555	600	15	1	3	9	11	12	7	5	4
ECO-ATT-355-900	355	555	900	20.4	2	5	11	16	19	14	8	7
ECO-ATT-400-600	400	600	600	16.2	1	4	10	12	14	7	6	5
ECO-ATT-400-900	400	600	900	22	2	5	12	19	20	14	8	8
ECO-ATT-450-600	450	650	600	22.8	1	4	6	12	13	6	4	4
ECO-ATT-450-900	450	650	900	31.1	3	6	12	20	18	8	6	5

## RTF Outlet



Model	Details				Insertion Losses (dB)							
	Wmm	Hmm	Lmm	Kg	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ECO-ATT-400-270-900	400	270	900		3	6	11	20	25	25	15	8
ECO-ATT-500-345-900	500	345	900		4	7	13	25	32	32	23	15
ECO-ATT-630-420-900	630	420	900		4	7	13	25	32	32	23	15
ECO-ATT-710-450-900	710	450	900		5	9	16	30	39	39	31	26
ECO-ATT-800-490-900	800	490	900		5	9	16	30	39	39	31	26
ECO-ATT-900-540-900	900	540	900		5	9	16	30	39	39	31	26
ECO-ATT-900-540-900	900	540	900		5	9	16	30	39	39	31	26

## About us

At Ecotech Ventilation we pride ourselves on our range of expertly designed, high quality, highly efficient heat recovery units, brought to you at an economically competitive price.

We believe that great business relationships produce great products. We work closely with you, our customer, to ensure we manufacture the best quality products available.

This close relationship allows Ecotech to adapt as the industry evolves and allows for quick and seamless production.

**We never settle for second best and always have your satisfaction as our top priority.**

## Who we are?

We are a business started by a group of individuals with experience working with and manufacturing small to large scale HVAC units. With 30 years of experience, there is not much our team have not dealt with, and we pride ourselves on finding the correct solution for your needs.

## Our strategy

Every customer is unique. That's why we customize every project to fit your requirements exactly. Whether it's a small project or a comprehensive effort, we will sit down with you, listen to your requests and prepare a tailored solution.

## Products and services

At Ecotech Ventilation we cover a wide range of HVAC products, please contact us to talk about our full range of products and aftercare solutions.



Website - [www.ecotechventilation.com](http://www.ecotechventilation.com)

Contact us on - [info@ecotechventilation.com](mailto:info@ecotechventilation.com)

Contact our sales team - [sales@ecotechventilation.com](mailto:sales@ecotechventilation.com)