EEZ Grease canopy with ozone cleaning



The EEZ Grease canopy with ozone cleaning combines effective grease removal with stylish design to thoroughly clean your kitchen exhaust airstream and remove excess heat from the kitchen.

In addition to mechanically separating grease with our highly efficient HFK grease filters, this canopy also includes an integrated ozonator and smart control system to further reduce grease and odor. Ozone treatment is simply chemical oxidation, whereby grease and odor are broken down to water vapor and dry minerals, thereby providing many advantages including:

Ozonator Canopy Advantages:



Canopy construction complies with the standard EN 16282-2 Equipment for commercial kitchens – Kitchen ventilation hoods; design and safety requirements.

Ozonator technology used in the canopy complies with standard EN 16282-8 Equipment for commercial kitchens – Installations for treatment of aerosol. Requirements and testing.





Recommended Data

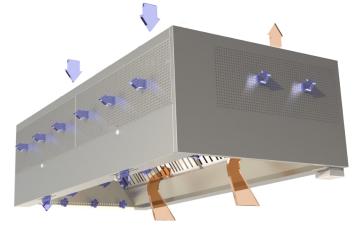
		Supply air flow per linear meter of panel, l/s						
	Extraction air flow							
Lenght L	(E1, E2), I/s (Δp _{tot} 14-48 Pa)	SPx1+ "Turbo Grip"	SPx2+ "Turbo Grip"	SPx3+ "Turbo Grip"	Side panel			
1500	210-390	10-61 Pa						
2000	280-520		10-40 Pa	10-28 Pa	10-40 Pa			
2500	350-650	71-175 l/s	110-220 l/s	165-275 l/s	22-40 l/s			
2900	420-780							

Function

Hot and greasy air is sucked through mechanical grease filters into the exhaust air chamber. The mechanical filters collect most of the larger grease particles, which drip down into the grease collection container.

Our ozonator module is installed inside the supply air chamber, thereby provided with clean air for its reliable production of ozone. Its ozonated air is then drawn into and mixed with the exhaust air, at which point the simple and natural process of chemical oxidation takes over to break down odor and grease particles remaining in the air stream even further.

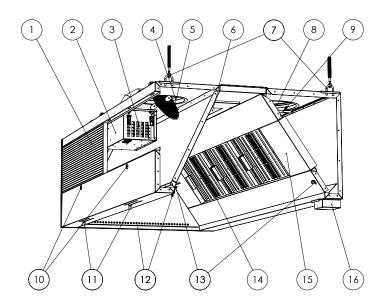
Supply air is replenished and balanced into the kitchen in two ways:



First, our "Turbo Grip" air curtain directs the greasy air rising up from the kitchen appliances into the canopy cavity and toward the grease filters. Second, supply air is delivered through perforations in the front plate, as well as through adjustable air vents on the bottom surface of the supply air module.

Construction and Dimensions

The canopy is made from 1 mm thick stainless steel (AISI 304, surface 2K). Duct connections are equipped with rubber gaskets, and supply air chambers are heat insulated to prevent condensation of steam on the inner surface of the canopy. Heavy duty U-bolts are installed on each top corner of the canopy for hanging. We at know that no two kitchens are exactly alike. We have designed our kitchen canopies to be modular, so we can custom design and manufacture a canopy solution to meet your each and every project requirement or technical need.



- 1- Front panel
- 2- Ozonator
- 3- Regulating damper
- 4- Supply air connection
- 5- Supply air regulating plate
- 6- Lighting
- 7- Suspension points
- 8- Exhaust air connection
- 9- Exhaust air regulating plate
- 10- Front panel lock
- 11- Auxiliary supply air openings
- 12- "Turbo Grip" air nozzle system
- 13- Airflow measuring nipples
- 14- HFK grease filters
- 15- Blind panel for grease filter rail
- 16- Grease collection container





Lighting

Professional kitchens require functional lighting to ensure that employees have a safe and effective work environment. Our professional kitchen canopies use next generation, energy efficient LED lights, which can save as much as 50% more energy compared to older technology fluorescent lights.

Grease removal canopies include light fixtures integrated into their ceilings, protected by an aluminum and glass casing. Condensation canopies use surface mounted lighting, protected by a fiberglass-reinforced plastic casing. Their electrical protection class is IP66.

The size and number of light fixtures are determined by the size of the canopy, to ensure there is enough light output for the entire workspace.

Luminaries

Canopy length (mm)	Marking	Light Fixture length (mm)	Energy use (W)	Light color	Color temperature (K)	Color rendering index (Ra)	Flux (Im)
$1000 \le L < 1600$	LED770	769	20	840	4000	80	2250
$1600 \le L < 1900$	LED1370	1369	37	840	4000	80	4900
L≥1900	LED1670	1669	53	840	4000	80	6750

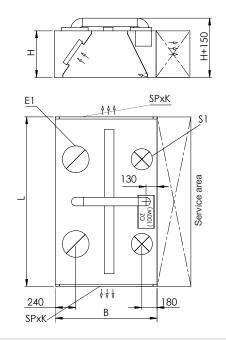
Dimensions

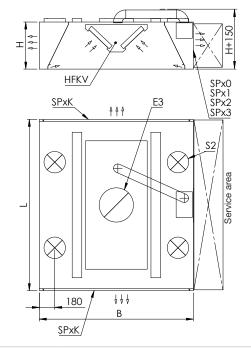
EEZ Dimensions, mm									
L Lenght	600, 700,, 2800, 2900								
B Width	900, 1000,, 1700, 1800 (1 part) 1800, 1900,, 3500, 3600 (2 parts)								
H Height	400, 550, 400/550								

EEZ-1 Wall installation, 1-part

L Lenght	600, 700,, 2800, 2900					
B Width	B=900 (No lighting) B=1000,1100,, 1800					
H Height	400, 550					
S0, S1	160, 200, 250					
E1	200, 250, 315					

EEZ-1 Island installation, 1-part (with HFKV modul)								
L Lenght	600, 700,, 2800, 2900							
B Width	B=1500 (No lighting) B=1600, 1700 (1 row of lights) B=1800,, 2900 (2 row of lights)							
H Height	400, 550							
S2	160, 200, 250							
E3	200, 250, 315, 400 (HFKV moodul)							

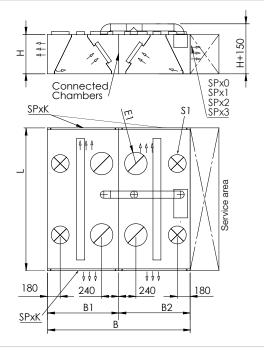




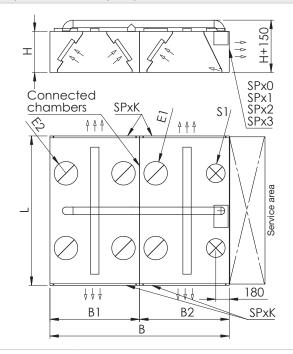
ELECTROMEC



EEZ-2 Island installation, 2-parts									
L Lenght	600,700,, 2800, 2900								
B Width	B=1800 (No lighting) B=1900 (1 row of lights) B=2000, 2200,, 3400, 3600								
B1/B2 Width	900 (No lighting) 1000,1100,, 1800								
H Height	400, 550								
S1	160, 200, 250								
E1	200, 250, 315								



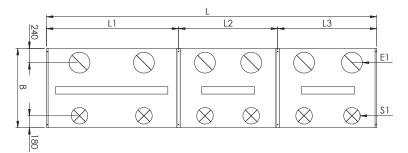
EEZ-2 Island	installation, 2-parts
L Lenght	600, 700,, 2800, 2900
B Width	B=1900 (No lighting) B=2000 (1 row of lights) B=2100, 2200,, 3500, 3600
B1/B2 Width	900 (No lighting) 1000,1100,, 1800
H Height	400, 550
S1	160, 200, 250
E1,E2	200, 250, 315



Hood lengthening with modular sections



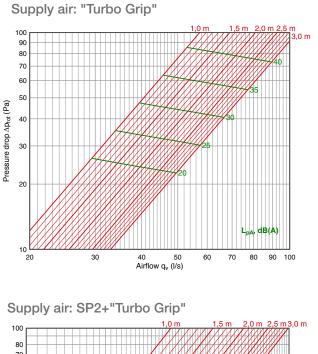
Preferred length dimensions are 1000, 1500, 2000 mm

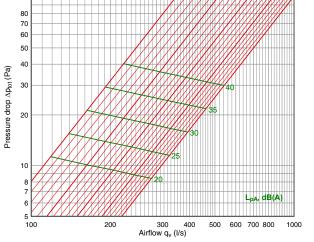


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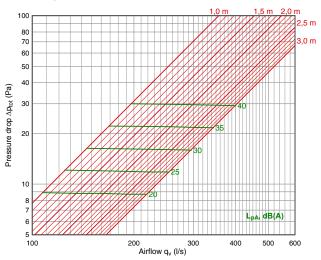


Technical data

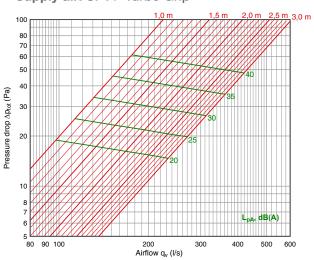




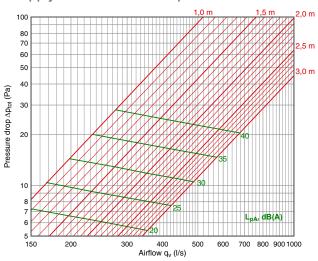
Supply air: SP1+"Turbo Grip"+side panels

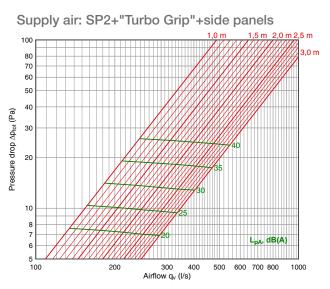


Supply air: SP1+"Turbo Grip"

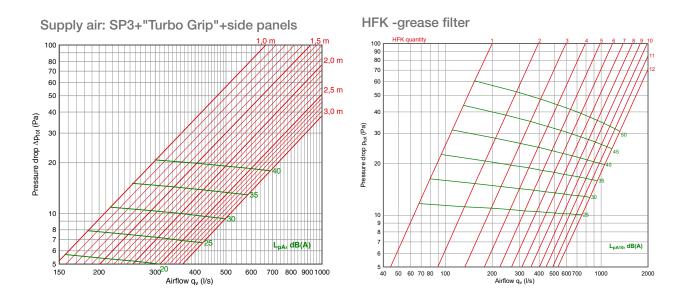


Supply air: SP3+"Turbo Grip"





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EEZ

Acoustic data

	Correction of sound level K _{okt} (dB) (Hz)								
Supply air	63	125	250	500	1000	2000	4000	8000	
"Turbo Grip"	-6	-8	-5	-3	0	-1	-7	-20	
SPx1 +"Turbo Grip"	-1	0	3	2	-1	-3	-11	-23	
SPx2 +"Turbo Grip"	0	1	5	4	-1	-8	-20	-27	
SPx3 +"Turbo Grip"	7	5	6	4	-2	-13	-21	-30	
SPx1+"Turbo Grip"+side panels	-1	-1	2	2	0	-5	-15	-28	
SPx2+"Turbo Grip"+side panels	3	1	5	4	-1	-9	-21	-27	
SPx3+"Turbo Grip"+side panels	8	5	6	4	-3	-13	-22	-30	
	± 4 dB	± 4 dB	± 4 dB	±2dB	±2dB	±2dB	±2dB	±2dB	

Facts about Ozone

Ozone is a colorless gas with a pungent smell that can often be detected by any person at a concentration of 0,02 ppm (0,4 mg/m³). The smell of ozone is similar to chlorine like in a swimming pool.

Local protection legislations must be followed when using ozone. In Sweden, for example, the Swedish Work Environment Authority issues the following hygienic limits for ozone:

- 0,1 ppm (during a working day, 8 hours)
- 0,3 ppm (during 15 minutes)

At acute exposure ozone can cause following injuries:

- On skin: Irritation and burning feeling
- In eyes: Severe irritation, burn injuries and reduced vision
- In lungs: Irritation to respiratory organs and breathing difficulty

Always take corrective action and safety precautions if ozone is detected in an indoor environment.

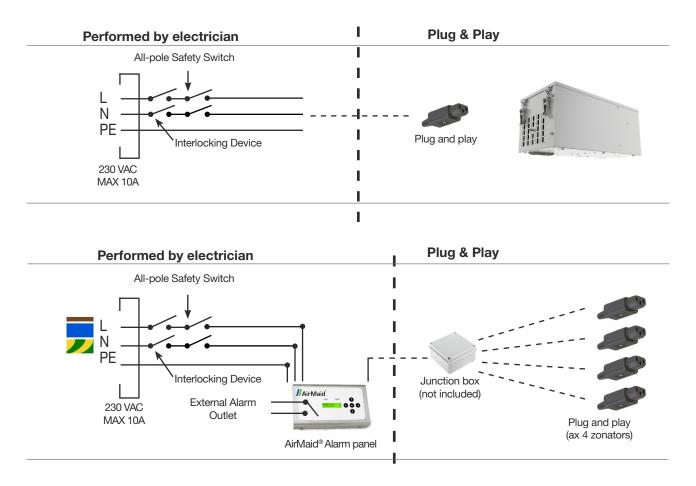




Ozonator Electrical Connections

Ozonator installation must be performed by an authorized electrician and the installation must meet all national, regional and local standards and regulations. The interlock displayed in the graph below is mandatory and intended to cut off power to the ozonator when the exhaust fan is not functioning. An allpole safety switch with a break length of at least 3 mm must be installed as well.

The ozonator requires 230 VAC / 50 Hz. Each alarm panel must be connected to its own slow 10A breaker.







Product marking

	Marking -	Dimensior	ns - Sup	ply air -	Exhaus	st air -	Front p	oanel -	Grease	e filters	- Light	ting
EEZ - 2 - width	nodule in wi 2 modules i											
Dimension L - Lengh B - Width H - Heigh	t											
S1 - Supp S2 - Supp Diameter	bly air only f bly air cham bly air cham of supply ai of supply ai	ber on one bers on two r connectic	side sides n]								
E2 - Two E3 - HFK E4 - HFK Diameter	r — exhaust air exhaust air / exhaust air filters in dua of exhaust a of exhaust a	chambers r module al row air connect										
SPx1 - Pe SPx2 - Pe SPx3 - Pe SPxK - Pe	Perforation perforation par perforation par perforation par perforation par perforation par perforation par perforation par	attern 1 - (p attern 2 - (p attern 3 - (p attern on L/	er L=1000 er L=1000 er L=1000 R side pa	0mm) 13 0mm) 19 0mm) 25 .nels - (S	0 I/s, 40 0 I/s, 37 0 I/s, 25 PxKL, S	Pa, 40 Pa, 40 Pa, 40	dB(A) dB(A) dB(A)	3)				
Grease filte HFK Grease filt	e rs ter quantity											
LED1370	L=769, 20V - L=1369, 3 - L=1669, 5	7W										

Quantity of lighting fixtures

Example: EEZ-2 3500x2400x550 - S1=250x8 - E1=315x4 - SPx3 - HFKx12 - LED1370x4

Blind plates: Blind plates are blank panels used to replace filters in cases of low air volumes. By using blind plates the canopy system can maintain sufficient pressure and air velocity for proper filter operation.

Masking plates:

Mounted in the area between canopy and ceiling, when conduits and other components are to be concealed.