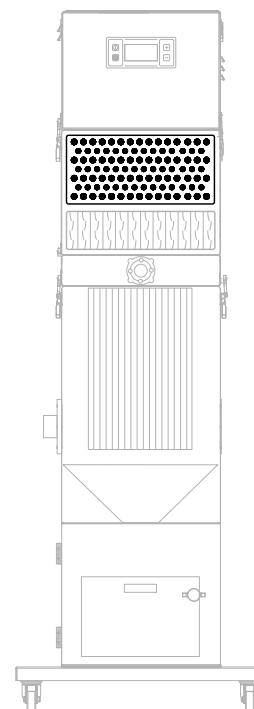
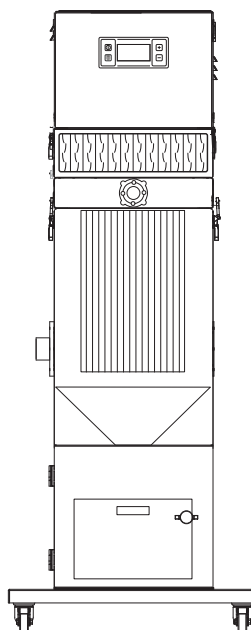


FP 150 CONDUCTIVE

TECHNICAL DATA				
Free Airflow	165	CFM	280	m³/hr
Effective Airflow	30-147	CFM	50-250	m³/hr
Static Pressure	80.3	in/H ₂ O	20,000	PA
Voltage	100-240	V	NEMA 6-15	Plug
Intake Socket	Left or Right ~ 2, 2.5, or 3	inches	Left or Right 50, 63, or 80	mm
Collection Container	4	gallon	15	liter
Weight	150	lbs	68	kg
Size (WxD)	22x22	inches	550x550	mm
System Height	48	inches	1470	mm



FP 150 CONDUCTIVE FILTER DATA		
Filter Cartridge	Included	43.1 ft² or 4 m²
HEPA (H13)	Included	32.3 ft² or 3 m²
Activated Carbon	Optional*	11 lbs or 10 liters
*System height with carbon module is 63 inches or 1,585 mm		

**Shown with
Optional Carbon**

ORDERING DATA

ACCESSORIES



CONNECTION KITS



SPARK ARRESTORS



HARTING CONNECTIONS

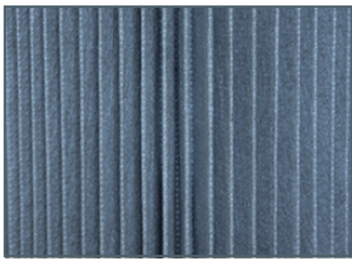


Figure 1: New filter cartridge



Figure 2: Filter cartridge in use

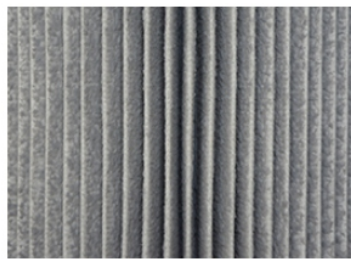


Figure 3: Filter cartridge after cleaning with compressed air

SYSTEM OPTIONS	Part #
FP 150 Conductive Model (100-240V)	90510
Activated Carbon Filter Module	15383
Pressure Regulator	11783
Left Intake for FP 150 - 80mm	13163
Right Intake for FP 150 - 80mm	13164



REPLACEMENT FILTERS	Part #
Filter Cartridge - Antistatic 4m² Filter	13403
HEPA (H13) Particle Filter 3m²	15363
Activated Carbon 10 Liters	15386
Bypass Cooling Filter Mats	14372



COMMUNICATION CABLE



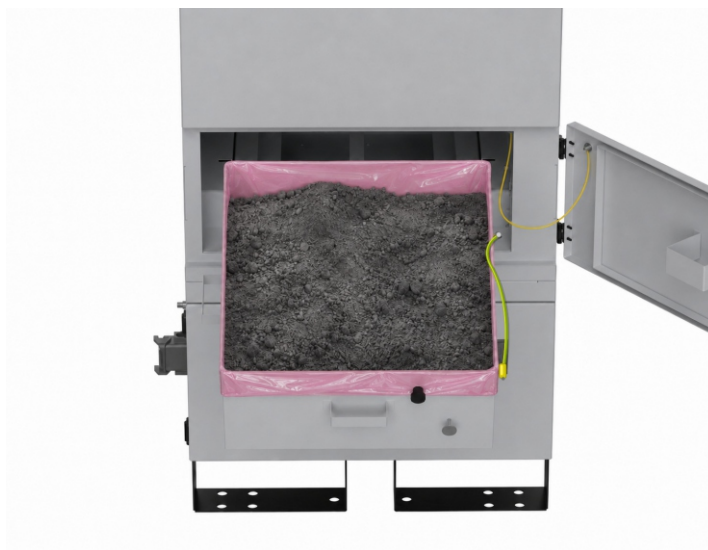
EXHAUST PLATE

FP 211 ATEX (IIIB) SYSTEM

Developed according to ATEX directive EX || 2D / 3D/ - Ex h III B T80°C Db/Dc/-

The systems meet the requirements of the ATEX directive (RL2014/34/EU) and are suitable for extraction from a Zone 21, whereby the systems must be installed outside of a Zone. Suitability for the respective application depends on the substance to be extracted and must be considered individually by the operator. The system is suitable for non-metallic dusts with a minimum ignition energy of > 3mJ.

TECHNICAL DATA				
Free Airflow	1,177	CFM	2,000	m³/hr
Effective Airflow	176-883	CFM	300-1500	m³/hr
Static Pressure	22.1	in/H ₂ O	5,500	PA
Voltage	380-480 (3P+ PE)	V	HAN6ES, 6-pin	Harting
Intake Socket	Up to 2 intakes ~ 6.5 or 8	inches	Up to 2 intakes 160 or 200	mm
Outlet Socket	approx. 10	inches	250	mm
Collection Container	13	gallon	50	liter
Dimensions (WxD)	28x31	inches	700x780	mm



DATA	Standard	Standard + Carbon
Weight	605 lbs / 275 kg	715 lbs / 325 kg
System Height	85 in / 2,145 mm	94 in / 2,380 mm
Minimum Room Height	106 in / 2,700 mm	116 in / 2,950 mm

ORDERING DATA



Figure 1: New filter cartridge



Figure 2: Filter cartridge in use



Figure 3: Filter cartridge after cleaning with compressed air

ACCESSORIES



CONNECTION KITS



COMMUNICATION CABLE



AUTO PRE-COATING

SYSTEM CHOICES	Part #
<i>FP 211 ATEX-IIIB (380-480V, 3P+PE)</i>	90511
<i>Upgrade to PTFE cartridges</i>	20185
<i>Activated Carbon Filter Module</i>	21465

OPTIONAL ADD-ONS	Part #
<i>Precotech 300</i>	90488
<i>Precofix 200 Powder - 60 liters</i>	14274
<i>AC-Separator 165 lbs or 150 liters</i>	90461
<i>AC-Separator Carbon Replacement</i>	20225

FACTORY BUILD OPTIONS	Part #
<i>Left Intake Socket</i>	13171
<i>Rear Intake Socket</i>	13172
<i>FP 211 Intake - 6.3 in or 160mm</i>	16536
<i>FP 211 Intake - 7.9 in or 200mm</i>	16537

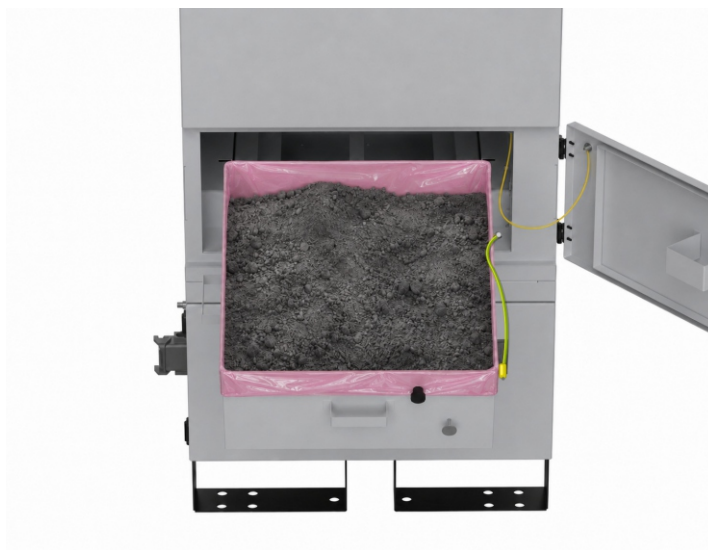
REPLACEMENT FILTERS	Part #
<i>Filter Cartridge Set of 6 - Antistatic 172.2 ft² or 16m² Total Surface Area</i>	20171
<i>PTFE Filter Cartridge Set of 6 - Antistatic 172.2 ft² or 16m²</i>	20183
<i>HEPA (H14) Filter 150.7 ft² or 14m²</i>	15571
<i>Activated Carbon 57 lbs or 52 Liters</i>	20637

FP 213 ATEX (IIIB) SYSTEM

Developed according to ATEX directive EX || 2D / 3D/ - Ex h III B T80°C Db/Dc/-

The systems meet the requirements of the ATEX directive (RL2014/34/EU) and are suitable for extraction from a Zone 21, whereby the systems must be installed outside of a Zone. Suitability for the respective application depends on the substance to be extracted and must be considered individually by the operator. The system is suitable for non-metallic dusts with a minimum ignition energy of > 3mJ.

TECHNICAL DATA				
Free Airflow	294	CFM	500	m³/hr
Effective Airflow	59-265	CFM	100-450	m³/hr
Static Pressure	60.3	in/H ₂ O	15,000	PA
Voltage	230 (1P+N+PE)	V	HAN6ES, 6-pin	Harting
Intake Socket	Up to 2 intakes ~ 3, 4, or 5	inches	Up to 2 intakes 80, 100, or 125	mm
Outlet Socket	approx. 10	inches	250	mm
Collection Container	13	gallon	50	liter
Dimensions (WxD)	28x31	inches	700x780	mm



DATA	Standard	Standard + Carbon
Weight	605 lbs / 275 kg	715 lbs / 325 kg
System Height	85 in / 2,145 mm	94 in / 2,380 mm
Minimum Room Height	106 in / 2,700 mm	116 in / 2,950 mm

ORDERING DATA



Figure 1: New filter cartridge

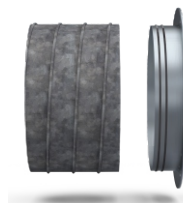


Figure 2: Filter cartridge in use



Figure 3: Filter cartridge after cleaning with compressed air

ACCESSORIES



CONNECTION KITS



SPARK ARRESTORS



AUTO PRE-COATING

SYSTEM CHOICES	Part #
<i>FP 213 ATEX-IIIB (230V, 1P+N+PE)</i>	90511
<i>Upgrade to PTFE cartridges</i>	20185
<i>Activated Carbon Filter Module</i>	21465

OPTIONAL ADD-ONS	Part #
<i>Precotech 300</i>	90488
<i>Precofix 200 Powder - 60 liters</i>	14274
<i>AC-Separator 165 lbs or 150 liters</i>	90461
<i>AC-Separator Carbon Replacement</i>	20225

FACTORY BUILD OPTIONS	Part #
<i>Left Intake Socket</i>	13171
<i>Rear Intake Socket</i>	13172
<i>FP 213 Intake - 3.1 in or 80mm</i>	16533
<i>FP 213 Intake - 3.9 in or 100mm</i>	16534
<i>FP 213 Intake - 4.9 in or 125mm</i>	16535

REPLACEMENT FILTERS	Part #
<i>Filter Cartridge Set of 6 - Antistatic 172.2 ft² or 16m² Total Surface Area</i>	20171
<i>PTFE Filter Cartridge Set of 6 - Antistatic 172.2 ft² or 16m²</i>	20183
<i>HEPA (H14) Filter 150.7 ft² or 14m²</i>	15571
<i>Activated Carbon 57 lbs or 52 Liters</i>	20637

CLEAN ROOM CR-GL265

TECHNICAL DATA	UNITS	CR-GL265
Free Airflow	m ³ /hr	350
	CFM	206
Effective Airflow	m ³ /hr	100-300
	CFM	59-176
Static Pressure	PA	6,000
	in/H ₂ O	24.1
Voltage	V	100 - 240
Motor Output	kW	0.6
Sound Level	db(A)	53
Inlet Port	Qty/Size	x2 - 50mm x1 - 80mm x1 - 100mm
Weight	kg	70
	lbs	155
Dimensions (HxWxD)	mm	1100x350x655
	inches	44x14x26



TESTED AND CONFIRMED FOR USE UP TO ISO CLASS 5

CLEAN-ROOM CLASS	DIN EN ISO 14644-1						EG-GMP		REVISED STANDARD	
	CN = MAXIMUM NUMBER OF PARTICLES PER M ³ AND PARTICLE DIAMETER						ROOM CLASSIFICATION	CFU/ M ³	US FED STANDARD 209E	
	0,1 MM/M ³	0,2 MM/M ³	0,3 MM/M ³	0,5 MM/M ³	1,0 MM/M ³	5,0 MM/M ³			ENGLISH UNIT FT ³	METRIC SI UNIT M ³
ISO 1	10	2								
ISO 2	100	24	10	4						
ISO 3	1000	237	102	35	8				1	M 1,5
ISO 4	10000	2370	1020	352	83				10	M 2,5
ISO 5	100000	23700	10200	3520	832	29	A / B	< 1	100	M 3,5
ISO 6	1000000	237000	102000	35200	8320	293	(B)	10	1000	M 4,5
ISO 7				352000	83200	2930	C	100	10000	M 5,5
ISO 8				3520000	832000	29300	(C) / D / E / F	200	100000	M 6,5
ISO 9				35200000	8320000	293000	With employees			

SAFE-CHANGE PROCESS

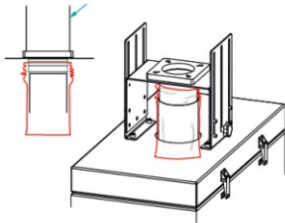


Figure 5: Immersed extraction pipe, system in operation

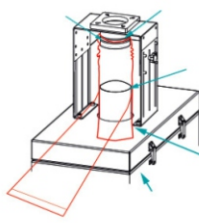


Figure 6: Disengaged extraction pipe

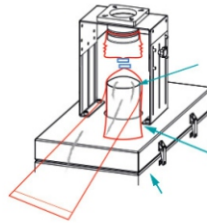


Figure 7: Separation of the transfer liner after use and disposal of the filter with the "liner remainder".

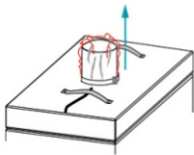


Figure 8: Removing and disposing of the used filter.

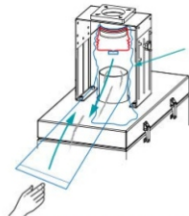


Figure 9: Installing a new and removing the old transfer liner. (1)

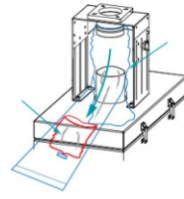
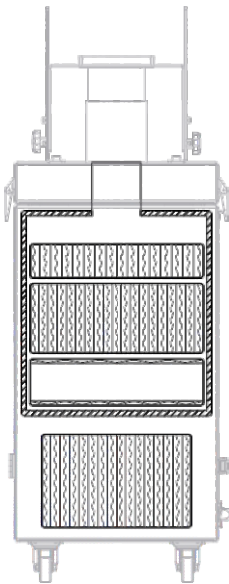
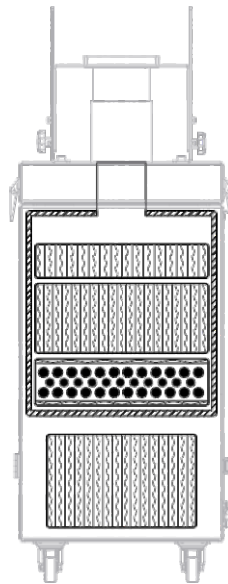


Figure 10: Installing a new and removing the old transfer liner. (2)



CR-GL265-Z



CR-GL265-ZA

ACCESSORIES



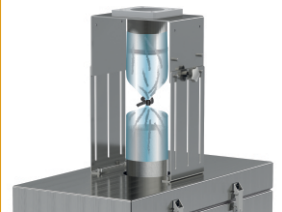
CONNECTION KITS



EXHAUST OUTLET



EXTRACTION ARMS



SAFE SEAL KITS



SAFE SEAL TOOLS

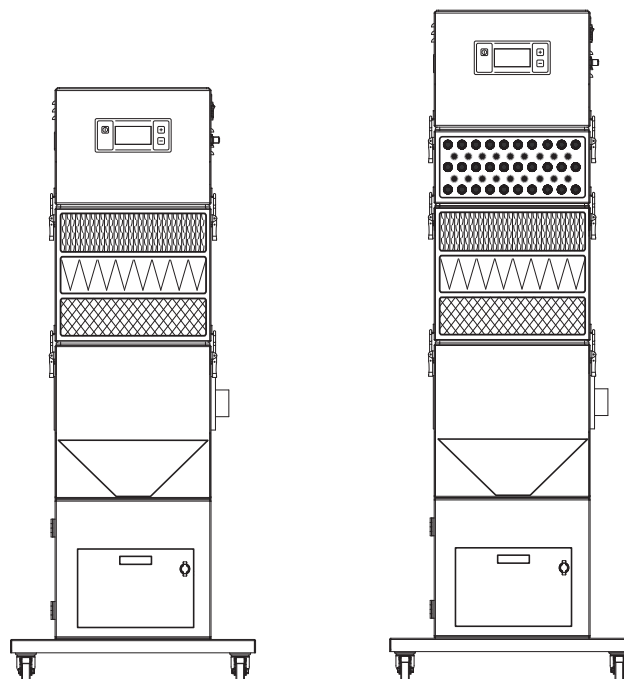
Description	Part #
CR-GL265 with Police Filter	90433
CR-Z Filter Module Includes Z-Line Filter and HEPA (H13)	16713
HEPA (H14) Police Filter 3m²	14179

Description	Part #
CR-GL265 with Police Filter	90433
CR-ZA Filter Module Includes Z-Line Filter, HEPA (H13), and Activated Carbon	16714
HEPA (H14) Police Filter 3m²	14179

OEN 150 DATASHEET

For processes with a low proportion of emulsion mist and a medium proportion of particles

TECHNICAL DATA				
Free Airflow	188	CFM	320	m ³ /hr
Effective Airflow	30-147	CFM	50-250	m ³ /hr
Static Pressure	80.3	in/H ₂ O	20,000	PA
Voltage	100-240	V	NEMA 6-15	Plug
Intake Socket	Left or Right ~ 2, 2.5, or 3	inches	Left or Right 50, 63, or 80	mm
Collection Container	4	gallon	15	liter
Weight	122	lbs	55	kg
Size (WxD)	14x14	inches	350x350	mm
System Height	53	inches	1,340	mm



OEN 150 FILTER DATA		
Aluminum Mesh G3	Included	Washable
Z-Line Filter (M6)	Included	6.5 ft ² or 0.6 m ²
HEPA (H13)	Included	26.9 ft ² or 2.5 m ²
Activated Carbon	Optional	11 lbs or 10 liters

ORDERING DATA

SYSTEM OPTIONS	Part #
<i>OEN 150 Model (100-240V)</i>	90180
<i>Activated Carbon Filter Module</i>	11610
<i>Left Intake for OEN 150 - 50mm</i>	13159
<i>Left Intake for OEN 150 - 63mm</i>	13161
<i>Left Intake for OEN 150 - 80mm</i>	13163
<i>Right Intake for OEN 150 - 50mm</i>	13160
<i>Right Intake for OEN 150 - 63mm</i>	13162
<i>Right Intake for OEN 150 - 80mm</i>	13164

REPLACEMENT FILTERS	Part #
<i>Aluminum Grid Filter (Washable)</i>	13589
<i>Z-Line Filter (F6)</i>	11209
<i>HEPA (H13) Particle Filter</i>	13755
<i>Activated Carbon 10 Liters</i>	13021



ACCESSORIES



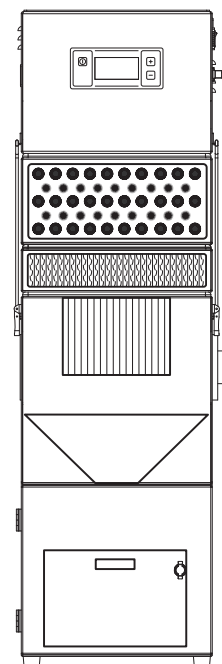
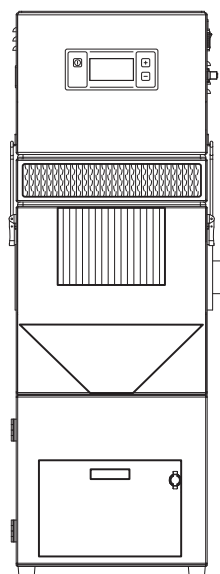
Easy disposal of liquids with pull out chamber



OEN 155 DATASHEET

For higher proportions of pure oil and emulsion mist with very low proportion of particles

TECHNICAL DATA				
Free Airflow	188	CFM	320	m ³ /hr
Effective Airflow	30-147	CFM	50-250	m ³ /hr
Static Pressure	80.3	in/H ₂ O	20,000	PA
Voltage	100-240	V	NEMA 6-15	Plug
Intake Socket	Left or Right ~ 2, 2.5, or 3	inches	Left or Right 50, 63, or 80	mm
Collection Container	4	gallon	15	liter
Weight	122	lbs	55	kg
Size (WxD)	14x14	inches	350x350	mm
System Height	41	inches	1,036	mm



OEN 155 FILTER DATA		
Filter Cartridge (F9)	Included	24.8 ft ² or 2.3 m ²
HEPA (H13)	Included	26.9 ft ² or 2.5 m ²
Activated Carbon	Optional	11 lbs or 10 liters

ORDERING DATA

SYSTEM OPTIONS	Part #
<i>OEN 155 Model (100-240V)</i>	90348
<i>Activated Carbon Filter Module</i>	11610
<i>Left Intake for OEN 155 - 50mm</i>	13159
<i>Left Intake for OEN 155 - 63mm</i>	13161
<i>Left Intake for OEN 155 - 80mm</i>	13163
<i>Right Intake for OEN 155 - 50mm</i>	13160
<i>Right Intake for OEN 155 - 63mm</i>	13162
<i>Right Intake for OEN 155 - 80mm</i>	13164

REPLACEMENT FILTERS	Part #
<i>Filter Cartridge (F9) - 2.3m²</i>	15308
<i>HEPA (H13) Particle Filter - 2.5m²</i>	13755
<i>Activated Carbon 10 Liters</i>	13021



ACCESSORIES

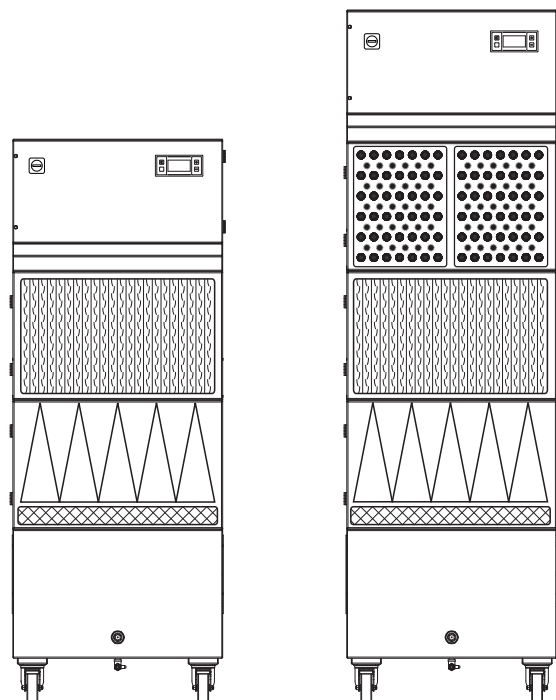


Easy disposal of liquids with pull out chamber



OEN 710 SYSTEM

TECHNICAL DATA				
Free Airflow	1,177	CFM	2,000	m ³ /hr
Effective Airflow	235-883	CFM	400-1500	m ³ /hr
Static Pressure	22.1	in/H ₂ O	5,500	PA
Voltage	380-480 (3P+ PE)	V	HAN6ES, 6-pin	Harting
Intake Socket	approx. 8	inches	200	mm
Outlet Socket	approx. 10	inches	250	mm
Weight	441	lbs	200	kg
Dimensions (HxWxD)	74x28x31	inches	1880x700x777	mm



OEN 710 FILTER DATA		
Aluminum Mesh G3	Included	Washable
Pocket/Bag (M6)	Included	64.6 ft ² or 6 m ²
HEPA (H13)	Included	430.6 ft ² or 40 m ²
Activated Carbon	Optional	132 lbs or 120 liters

ORDERING DATA

SYSTEM CHOICES	Part #
<i>OEN 710 Model (380-480V, 3P+PE)</i>	90079
<i>Activated Carbon Filter Module</i>	13232
<i>Left Intake Socket - 200mm</i>	13175
<i>Rear Intake Socket - 200mm</i>	13176
<i>Rear Intake Socket - 200mm</i>	13177

REPLACEMENT FILTERS	Part #
<i>Aluminum Grid Filter (Washable)</i>	12351
<i>Pocket/Bag Filter (M5/M6) - 6m²</i>	12906
<i>HEPA (H13) Particle Filter - 40m²</i>	12258
<i>Activated Carbon - 120 Liters</i>	13190

OPTIONAL ADD-ONS	Part #
<i>AC-Separator 150 liters of carbon</i>	90461
<i>AC-Separator Replacement Filter</i>	20225



Easy disposal of liquids through mounted drain valve



ACCESSORIES

