

ES SERIES - LASER FUME EXTRACTION UNITS

BEST QUALITY CODES, CLEANER & SAFER



OPTIMIZED & FLEXIBLE ■ ■ ■

Achieve low cost of ownership through reduced maintenance.

Cyclone option



IMPROVED PRE FILTER CAPACITY

Reverse Flow Air Technology improves the pre filter capture performance and ensures longer filter life by 15%.

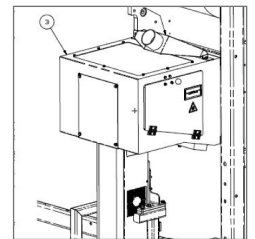
Inline Cyclone and Inline Filter options extend your pre-filter life by 30% for applications with heavy particulates or high amounts of dust



PROVEN MARKEM-IMAJE APPLICATION SOLUTION KITS

Dedicated extraction and laser installation kits designed to ensure health & safety compliance, optimized system performance and low cost of ownership.

Dairy FFS Application Kit example



PEACE OF MIND

Markem-Imaje offers flexible service duplication during the life of the extractor. (supply agreement and service contract)

SIMPLE & EFFICIENT ■ ■ ■

Preserve code quality and increased line efficiency.

FAST AND EFFICIENT FILTER CHANGES

Independent Filters Condition Monitoring provides real time information on each of the different filters and identify when and which filter should be replaced.



MAINTAIN HIGH QUALITY CODES

Automatic Flow Control provides a consistent air flow over the life of the filters. When filters begin to block, the air flow rate is automatically adjusted to ensure efficient particulate, gas and odor capture

CLEAN & SAFE ■ ■ ■

Comply with health & safety* regulations for a safe working environment.

PROTECT OPERATORS FROM ODORS AND HARMFUL GASES

Our unique **Advanced Carbon Filter Technology** ensures that all hazardous micro particulates and gases are captured and retained in the main filter.



PREVENT CONTAMINATION OF PRODUCTS FROM DUST & PARTICULATES

The unique design feature of **DeepPleat Duo** pre-filter ensure that capture of medium size particulates is optimized within a rigid metal structure.



COLLABORATING TO ENSURE EXCELLENCE FOR OUR CUSTOMERS

Markem-Imaje provides safe and innovative solutions to customers through patented technologies, in partnership with **BOFA International Ltd.**, the word leader in fume extraction and filtration.



ES 500+ KEY FEATURES & BENEFITS ■ ■ ■

LASER INTERFACING

Automatic Starts/Stops when the laser is activated/deactivated plus filter clogging signal



OPERATING SYSTEM IQ+ CLEAR AND PRECISE INFORMATION

High Contrast LCD screen displays with clear and simple icons.

ROBUST & PORTABLE DESIGN

Stainless steel cabinet with two lockable casters

MAIN FILTER

Combined HEPA/Chemical filter captures hazardous micro particulates, gases and odors



PRE FILTER

Designed for easy and safe filter changes



INDEPENDENT FILTER MONITORING

Patented multi-sensing technology to monitor filters status

REMOTE DIAGNOSTICS (USB PORT)

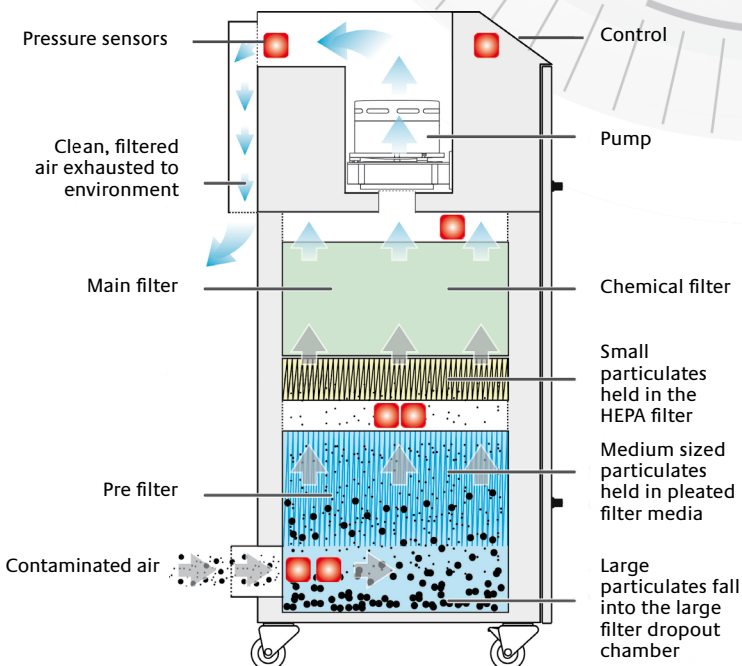
Activity log file enables simple and fast identification of faults

ADVANCED SAFETY

iQ+ will signal an alarm if the main HEPA/Gas filter is not fitted



iQ+ multi-sensing technology



ES 500+ Filter type	Filter efficiency	Filter characteristics
Pre-Filter	F8*	95% at 0.8µ 12m ² / 129 ft ²
Main Filter	HEPA - H14	99.997% at 0.3µ
	Chemical filter**	15 kg, activated carbon

* Other filters available upon request (F9)

** Chemical filter offers protection against a large range of VOC (Volatile Organic Compounds) generated when lasering polymers (plastics)



SURECHECK QUALITY

Each individual unit and filter undergoes a thorough inspection and is signed for by the individual operator



EXTRACTOR SELECTION				
Production rate (prod/min)	Below 150	Below 600	Below 1200	Below 600
Substrates coded	All substrates including inked paper, PET, flexible foils, glass and rigid plastics (except PVC)			PVC or high odors
Flow rate (m3/h) / (cfm)	150/88	380/223	950/559	325/176
CABINET SPECIFICATIONS				
Height (cm/in)	51/20	98/38,6	113/44.5	107/42
Depth (cm/in)	33/13	51/20	81/32	62/24.5
Width (cm/in)	33/13	45/18	60/23,6	57/22.5
Weight (kg/lbs)	18/40	65/143	155/342	95/209
IP rating	54	56	56	56
Pump capacity (W)	135	1100	2200	1100
Voltage (V/Hz)	230/50 or 110/60	240/50 or 115/60	230/50 or 115/60	240/50 or 115/60
Power cable connection length (m/ft)	3/10	3/10	3/10	3/10
Sound rating (dBA at 1 meter)	54	60	63	60
Cabinet material	Stainless	Stainless	Stainless	Stainless
LASER INTERFACE				
Start/Stop extractor signal	Not applicable	Available	Available	Available
Filter full and power off signal	Red light	Available	Available	Available
FILTERS SPECIFICATIONS				
Pre-filter surface (m2/ft2)	2,7/29	12/129	30/323	2/21,5
Gas filter (kg)	7	15	34	30
HOSE KIT				
Tube for fume extraction D x L (mm x m) (in x ft)	50 x 3 2 x 10	50 x 5 2 x 20	75 x 3 3 x 10	50 x 5 2 x 20
UL approved		✓		✓

Contact your local sales representative for further information on existing cooler solution (FS 400 and ES 500+i)



In partnership with BOFA International Ltd.

We reserve the right to amend the design and/or specifications of our products without notice.

Markem-Imaje
Global Sales & Marketing Division
9, rue Gaspard Monge
B.P. 110
26501 Bourg-lès-Valence Cedex – France
Tél. : +33 (0) 4 75 75 55 00
Fax : +33 (0) 4 75 82 98 10



To learn more, visit www.markem-imaje.com

