



EC-POD-SS Extract Pod with Fan Powered Filter Box



APPLICATION

The Extract Pod is a stainless steel LEV product designed specifically for use in the food industry where a manufactured food product requires a flavour enhanced coating or similar applied using a rumbling barrel.

Due to the nature of the warm oil mist injection and flavour powder application method via lances for instance the unused oil and powder mix product can evacuate from the open ends of the barrel and expand, rise into the air to high level due to convection. When cooled it will naturally settle onto just about every exposed upper surface in the space leading to a very difficult and expensive cleaning regime.

HOW DOES IT WORK

The fully adjustable Extract Pod however can be inserted into just one end of the barrel, usually the lower product exit end.

The extract collar remains outside leaving enough room for the product to exit onto the conveyor belt or collection vessel however the pod remains inserted inside the barrel. The design of the Extract Pod creates a "Coanda Effect" that enhances the extraction performance hugely when compared to externally mounted hoods. The warm mist and airborne flavouring is attracted to the negative pressure created by the "Coanda Effect" on the larger surface area of the Pod. The contaminants are then compelled to travel along the surface of the pod until it reaches the Extract Collar. At this point the air stream carrying the contaminants is detached from the surface of the Pod and extracted at high velocity through the duct connection to the Fan Powered Filter Box.

The fan then pulls the contaminated extracted air through the filter and discharges it back into the space via the bottom of the Fan Box through a grille.

ADVANTAGES

Huge capital cost savings compared to the alternative of canopies and fixed ventilation ductwork required to vent to outside.

Greatly reduced running costs due to high performance and massively reduced air flows using advanced technology compared to basic canopy extraction.

Again large reduction in overhead costs as minimum high level cleaning required.

The product is very simple to use, maintain and has a fan speed control for fine adjustment of airflow.

Single phase power supply only.

Being a relatively small and light weight product it can be moved around with ease if required.



MATERIALS

The Extract Pod, Fan Filter Box and Stand are manufactured entirely from 304 Satin Finish Stainless Steel and is easily disassembled for cleaning purposes.

The filter supplied is a grade F9 as standard.

CONSTRUCTION

All joints are fully welded, dressed and polished. Where necessary removable parts are bolted together.

OPTIONS

Oil collection tray. This may be necessary to collect the excess oil that due to gravity seeps out of the filter drains to the bottom of the unit.

DIMENSIONS

Fan powered Filter Box:	500 x 500 x 500mm
Extract Collar:	400 Dia Min (Photo above is 700 Dia)
Stand:	Variable to suit client's requirements.

NOTE: Due to most clients unique and varied systems we understand that many dimensions indicated above may have to be altered to suit their exact requirements and as such we will always demonstrate a flexible approach.

Bearing this in mind we manufacture all Extract Pods and Extract Collars to suit

EC-POD-SS EXTRACT POD WITH FAN FILTER BOX & STAND

