

Aseptic Containment Isolator (ACTI)



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Introduction

- Esco Aseptic Containment Isolator (ACTI) work in conjunction with advanced material transfer techniques and bio decontamination agents providing a 6 log reduction inviable contaminants.
- Esco ACTIs provide standard configurable designs able to adapt to various batch sizes and process flows. Through a fully user selectable operating system, the same Isolator can be setup to operate under recirculation or full exhaust airflow and operate in positive or negative pressure modes, allowing the system to be multifunctional and cater for all requirements of toxic or non-toxic aseptic materials. For toxic materials, the system incorporates safe change filters.

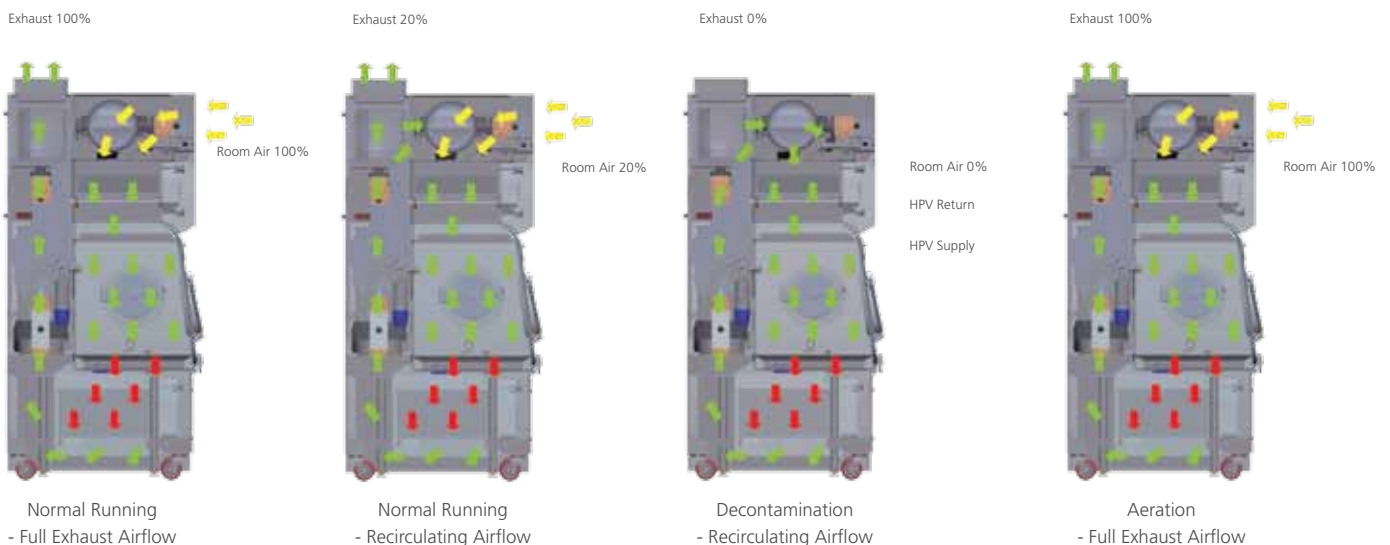
Basic principles

- Full unidirectional airflow provides superior aseptic work zones.
- Safety toughened laminated glass hinges upwards assisted with gas springs for batch loading.
- Airflow regime runs either in recirculating or full exhaust airflow. full exhaust airflow for fast purging of bio decontamination agent during aeration period and recirculation option for reduced airflow taken from the room and exhausted during normal operation and during conditioning and decontamination phases
- U15 supply and exhaust filters suitable for either toxic or non-toxic aseptic materials. Exhaust Filter directly below the isolator can be removed & a bypass tube fitted for non-potent material applications

Standard Features

- Full unidirectional airflow provides superior aseptic work zones.
- Safety toughened laminated glass hinges upwards assisted with gas springs for batch loading

Airflow Regimes



GENERAL SPECIFICATIONS

		ACTI-2G_	ACTI-3G_	ACTI-4G_
Nominal Size Main		1.2m	1.6m	2.0m
Working Chamber Dimensions		1.2m x 0.75m x 0.85	1.6m x 0.75m x 0.85	2.0m x 0.75m x 0.85
External Dimensions (W x D x H)	With Adjustable Base Stand (Min)	1.2m x 1.1m x 2.2m	1.6m x 1.1m x 2.2m	2.0m x 1.1m x 2.2m
	With Adjustable Base Stand (Max)	1.2m x 0.75m x 2.68m	1.6m x 0.75m x 2.68m	2.0m x 0.75m x 2.68m
Glove Port Height Min		1080	1080	1080
Glove Port Height Max		1360	1360	1360
Chamber Environment		ISO Class 5 all Chambers (Grade A)		
Filter Type – Isolator Inlet		ULPA U15 with Integral mesh guard and knife edge gel seal		
Filter Efficiency - Inlet		99.9998%	99.9998%	99.9998%
Filter Type – Isolator Exhaust		HEPA H14 with knife edge gel seal		
Filter Efficiency - Exhaust		99.997%	99.997%	99.997%
Lighting Level		≥600Lux	≥600Lux	≥600Lux
Sound Level		≤68dBA	≤68dBA	≤68dBA
Isolator Construction	Chamber	316L	316L	316L
	Service Housing	316L	316L	316L
	Support Frame	316L	316L	316L
Isolator Finish	Chamber Internal	≤0.4Ra	≤0.4Ra	≤0.4Ra
	Chamber External	≤0.6Ra	≤0.6Ra	≤0.6Ra
	Service Housing External	0.6Ra	0.6Ra	0.6Ra
	Support Frame	1.0Ra	1.0Ra	1.0Ra
Electrical Requirements (By Client)	220-240V, AC, 50Hz, 1Ø	✓	✓	✓
	110-120V, AC, 60Hz, 1Ø	✓	✓	✓
	220-240V, AC, 60Hz, 1Ø	✓	✓	✓
Compressed Air requirements (By Client)	6 Barg Pressure at 5ltr/sec	✓	✓	✓
Exhaust Duct requirements (By Client)		10" Duct from Isolator to Outside		
Options	Pass Chamber	✓	✓	✓
	Bio-Decontamination Steris	✓	✓	✓
	Bio-Decontamination Bioquell	✓	✓	✓
	Non-Viable Air Sampler	✓	✓	✓
	Viable Air Sampler	✓	✓	✓
	Sterility Test Pump	✓	✓	✓
	Glove Tester	✓	✓	✓
	Waste Bag Grommet	✓	✓	✓
	Sterile Continuous Liner	✓	✓	✓
	Bag-Welder with Table	✓	✓	✓
	RTP Ø270 - Alpha	✓	✓	✓
	RTP Ø270 - Beta Canister	✓	✓	✓
	RTP Ø270 - Beta Liner	✓	✓	✓

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Esco Pharma ACTI, Solihull, A4, Feb/2016
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