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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

eus@nt-rt.ru || <https://escolifesciences.nt-rt.ru>

SPUTUM BOOTH

Essential for Infection Prevention During Sputum Collection

Introduction

Esco Sputum Collection Booth controls exposure risk to harmful aerosols / airborne diseases by providing containment using air flow to capture and exhaust out aerosols from sputum during expectoration, handling, or processing. We provide both operator / patient and environmental protection.

Key Features

- ISO Class 5 air cleanliness (Class 100 as per US Fed Std 209 E.)
- Negative pressure keeps aerosol contained in booth: Supplies 100% HEPA filtered / fresh air to the downflow plenum. Typical airflow is 85% total volume as downflow, 15% inflow and 100% exhausted.
- Fluorescent light fittings: T5 Lighting, 30W with diffuser for uniform lighting throughout the chamber.
- UV lamp operates on programmable timer embeded in the Sentinel™ Microprocessor System.

Construction

- Esco Sputum Collection Booth is made of either stainless steel 316 L grade or Electrogalvanized steel coated with **ISOCIDE™** antimicrobial coating finish sheetmetal.
- Stainless steel 316 L or Electrogalvanized steel coated with **ISOCIDE™** antimicrobial coating finish sheetmetal perforated grilles.
- Heavy-duty, durable stainless steel 316 L or Electrogalvanized steel coated with **ISOCIDE™** antimicrobial coating finish sheetmetal framed doors assembly with transparent glass windows.
- Reinforced stainless steel 316 L or SS304 finish sheetmetal floor
- Wall mounted stainless steel perforated work bench.
- Stainless steel leveling feet

Filtration System

- Room air is taken from the top of the booth through a washable pre-filter, air is forced evenly across the HEPA filter resulting in a clean downward airflow.
- Purified air travels downward within the interior in a vertical, downward stream with a velocity of 0.16 m/s and leaves the exhaust filter @ 0.60m/sec into the room close to front side wall.
- Supply and exhaust fan / filter systems will be individually designed for each location.

Control System Package

- Programmable UV timer.

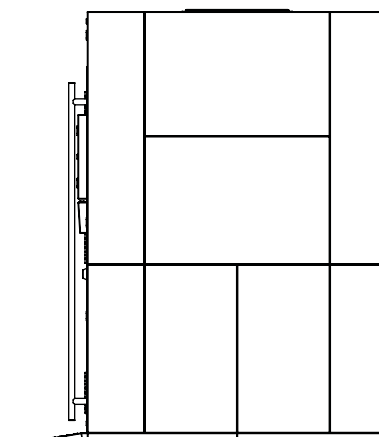
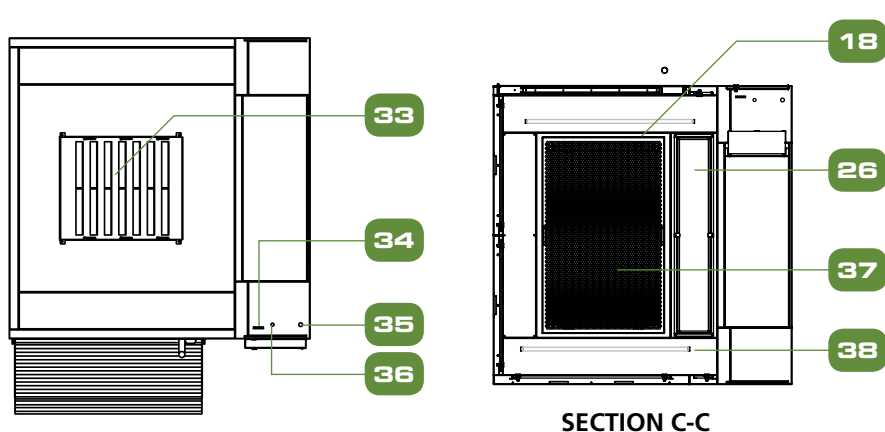
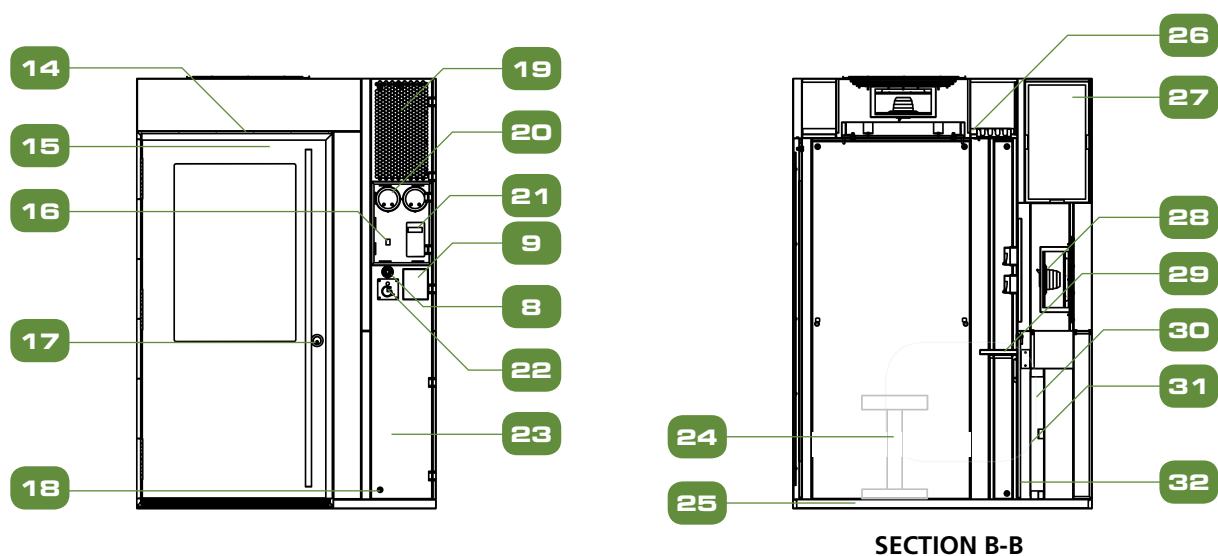
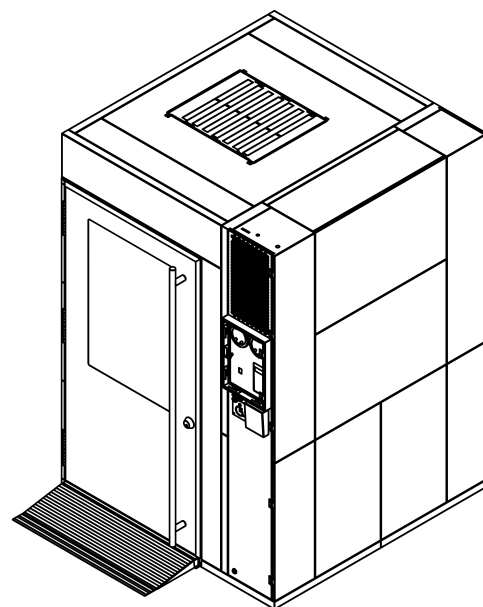
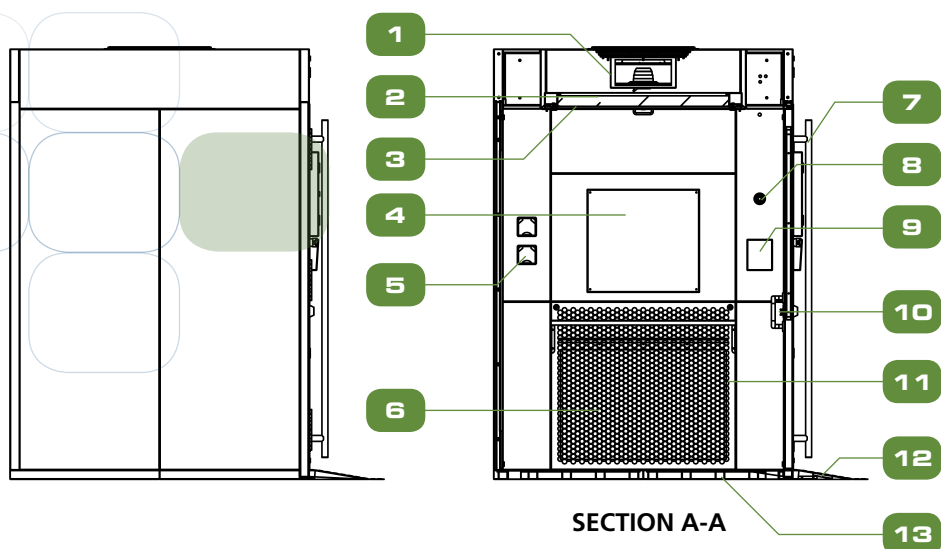
Filtration Package

- Pre-Filter: A disposable G4 pre-filter with 85% arrestance and efficiency of 20% extends the life of the main filter.
- Downflow Filter: HEPA (H10)
- Main Supply Filter: HEPA (H10)
- Pre-exhaust Filter: HEPA (H14) filter on Esco Fan Filter Unit provides 99.995% at 0.3 microns at MPPS (Most Penetrating Particle Size).

Warranty

1 year warranty (excluding consumables). Consumables are ballast, fluorescent, and filters. The warranty will cover all other parts including the blower, speed controller, electrical main board, and microprocessor.

During the period of warranty, any repair, modification, testing and commissioning performed by any unauthorized party other than Esco Service Team shall void the warranty of the unit.



1. Blower
2. H10 Gel Seal Downflow Filter
3. Blower & Filter Access
4. Blower Access
5. 13A-Gang Outlet IP Rated
6. Return Grill
7. SS Door Outside Longer Handle
8. Emergency Stop
9. Intercom
10. SS Door Inside Handle

11. Hepa Filter Access Change
12. SS Ramp
13. Hollow Section Base
14. Concealed Door Closer
15. View Panel w/ Tempered Clear Glass
16. Unit On/Off Switch
17. SS Door Lock & Key
18. SS Cam Latch
19. Exhaust Grill

20. Photohelic Gauge
21. Sentinel Control
22. Handicap Symbol
23. Electrical Panel
24. SS Chair
25. SS Flooring
26. Led Lamp
27. H14 Exhaust Filter
28. Blower
29. Perporated Table

30. H10 Gel Seal Return Grill Filter
31. Filter Clamp
32. Perforated Grill
33. Pre-filter
34. BMS Relay Signal
35. Power Chord
36. PMP Port Atmosphere.
37. Downflow Diffuser
38. UV Lamp (Optional)

SPUTUM BOOTH

• Esco Sputum Collection Booth

GUIDE TO MODELS

SB – S 115 150 193 – 1

Product Code	Material of Construction		Internal Width		Internal Dimension		Internal Height		Electrical Requirements	
Sputum Booth	Stainless Steel 304	S	1150 mm	115	1500 mm	150	1930 mm	193	220-240 V, AC, 50 HZ, 1Ø	1
	Stainless Steel 316	B	Customization	X	Customization	X	Customization	X	110-120 V, AC, 60 HZ, 1Ø	2
	Electro galvanized steel coated with ISOCIDE™ antimicrobial coating	A							220-240 V, AC, 60 HZ, 1Ø	3

GENERAL SPECIFICATION

Model		Sputum Collection Booth	
Nominal Size		1600 mm	
External Dimension (W x D x H)		1600 x 2000 x 2300 mm	
Internal Work Area Dimension (W x D x H)		1150 x 1500 x 1930 mm	
Cabinet Construction	Main Body	Stainless Steel Grade 316 L / Electro galvanized steel coated with ISOCIDE™ antimicrobial coating Sheetmetal	
	Floor	Stainless Steel Grade 316 L / SS304	
	Door	Stainless Steel Grade 316 L / Electro galvanized steel coated with ISOCIDE™ antimicrobial coating Sheetmetal	
Power Consumption		350 W, FLA 7A	
Cabinet Full Load Amps (FLA)		10 Amp	
Fluorescent Lamp Intensity		500 lux	
Net Weight		725 kilogram	
Shipping Weight		1000 kg	
Shipping Dimension, Maximum (W x D x H)		2500 x 1250 x 2000 mm	

3

ADDITIONAL SPECIFICATION

Filter	G4 Pre-Filter, H10 Downflow Hepa Filter, H10 Return Grill Hepa Filter, H14 Exhaust Hepa Filter
Lights	UV & T5 Lighting
Work Bench	Detachable Stainless Steel
Leveling Feet	Concealed
Air Flow	100% Exhausted
ACH (AIR CHANGE PER HOUR):	105
CMH	350 m³/hr

Wheelchair can go inside together with the patient
Chamber is negative pressure

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