

Esco Products and Services Guide

Delivering innovative solutions for clinical, life sciences, research, industrial, laboratory, pharmaceutical, and IVF communities.

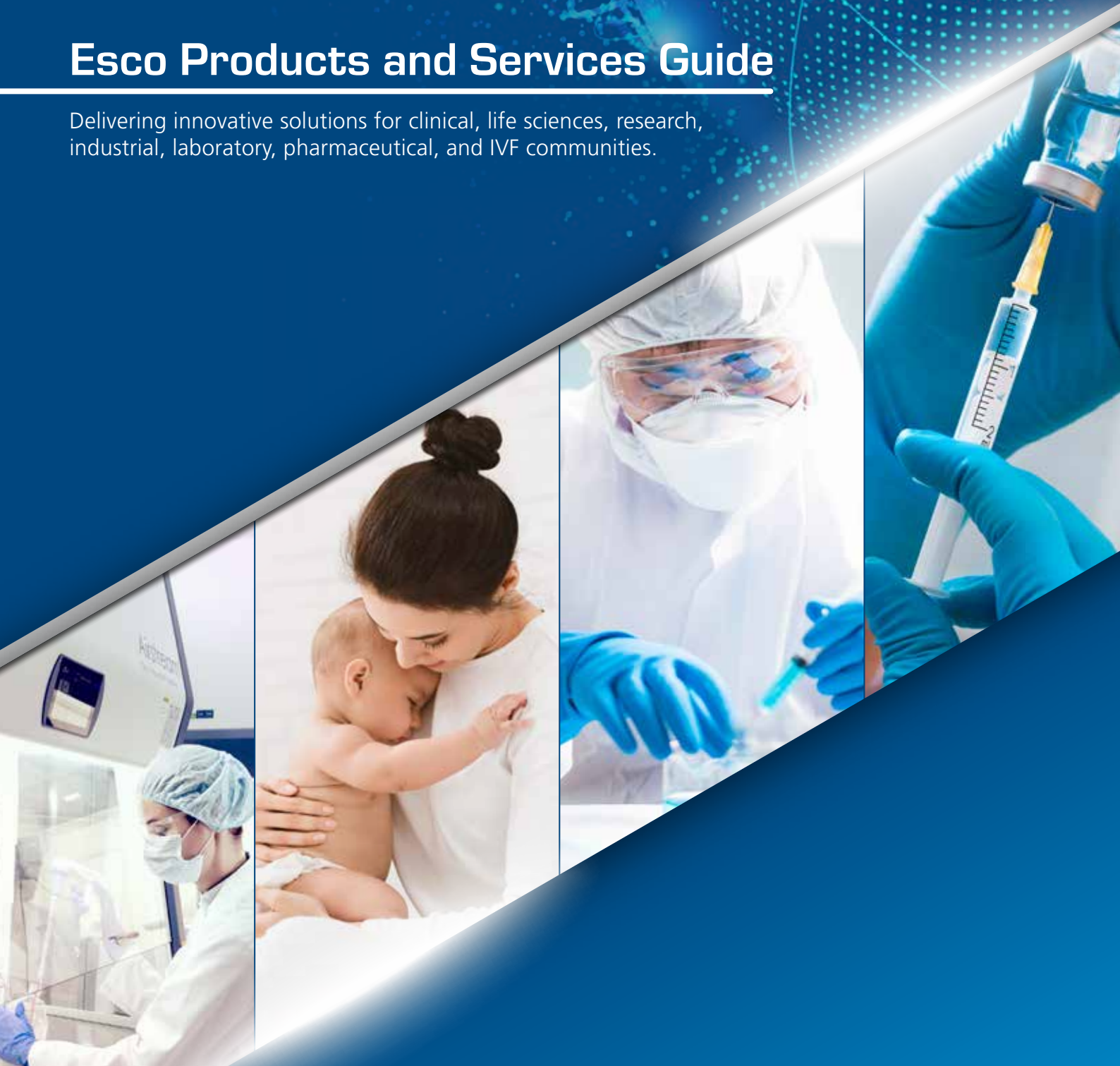




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Welcome to Esco Lifesciences

Esco Lifesciences' vision is to provide enabling technologies for scientific discoveries to make human lives healthier and safer.

Esco Lifesciences is committed to delivering innovative solutions for the clinical, life sciences, research, industrial, laboratory, pharmaceutical, and IVF communities. With the most extensive product line in the industry, Esco has passed a number of international standards and certifications. Esco Lifesciences represents innovation and forward-thinking designs, that are of the highest standard quality since 1978.

Availability and Accessibility. Esco Lifesciences has headquarters in Singapore, Indonesia, and Philippines, with manufacturing facilities located in Asia and Europe. Research and Development (R&D) is conducted worldwide spanning the US, Europe and Asia. Sales, services, and marketing subsidiaries are located in 42 major markets including US, UK, Japan, China and India. Esco regional distribution centers are located in Singapore, Malaysia, Thailand, Vietnam, Myanmar, Indonesia, Philippines, Bangladesh, Hong Kong, Taiwan, South Korea, China, Japan, India, UAE, Central and South Africa, Denmark, Germany, Italy, Lithuania, Russia, United Kingdom, and USA. Because of our worldwide presence, you can be sure that Esco is within your reach.

High Quality, Reliable, and Dependable. Esco Lifesciences products are of high quality, reliable, and dependable. Cross-functional teams from Esco Production, R&D, Quality Assurance, and Senior Management, are regularly assembled to review and implement areas for improvement.

Esco Lifesciences Cares for Your Safety. Esco Lifesciences focuses on providing safety not just for your samples, but also for you and the environment.

Esco Lifesciences Cares for Your Comfort. Building ergonomic designs and reducing noise levels of the units ensure comfort for our users.

Esco Lifesciences Cares for the Environment. Esco Lifesciences incorporates the latest proven technologically advanced components available. One in every four of Esco's employees is involved in Research and Development and are evaluating new components or designs for better efficiency. Whenever a new technology is available, Esco Lifesciences redesigns technology into our new products that will use lesser energy.

Customer Service and Support. Our service does not stop once purchase has been done. Esco Lifesciences gives on-time customer service such as service training, preventive maintenance, and re-certification, to respond to your equipment needs. Esco Lifesciences also offers free end-user seminars and provides educational materials and informative videos.

As Esco Lifesciences takes the opportunity to respond to the world's needs, we aim not only to contribute to the advancement of scientific discoveries but also in making the world a safer, healthier, and better place to live in.





Tradition of Quality and Innovation

Since the establishment of Esco in 1978, we have never stopped developing, providing, and delivering innovative solutions. From one, we have progressed into three business units with a worldwide presence, namely Esco Scientific, Esco Healthcare, and Esco Medical.

1978

Esco manufactures the first laminar flow cabinet; designs and builds its first microelectronics Class 10,000 cleanroom for Siemens Corporation.

1984

Esco designs and builds Class 100 laundry and becomes the first company in the region to enter the cleanroom laundry business.

1990

Esco expands distribution to pharmaceutical, life science, biotechnology and medical research markets.

2000

Esco begins transformation into a life sciences tools company.

2001

Esco earns first EN 12469 certification for biological safety cabinet.

2004

Esco earns first NSF / ANSI certification for biological safety cabinet.

2005

The Chinese Food and Drug Administration invites Esco to participate in a joint committee to develop the National Standard for Biological Safety Cabinets.

Esco launches its first line of Ductless Fume Hoods.



2006

Esco earns on-site UL accreditation.

2007

Esco became member of NSF Joint Committee and JACA Committee.

Esco launches VIVA® Animal Containment Workstations.

Worldwide expansion of sales and services through the establishment of offices in USA, UK, China, and Bahrain.



2008

Esco introduces Isoclean®
- new compounding pharmacy isolators.



Esco launches Frontier® Acela
- the world's first ergonomically designed, angled front, high performance low flow fume hood.



Esco presents Labculture® Class II (Low Noise Series)
- introduced as the industry's lowest noise (~50dBA per EN) biological safety cabinet.



Esco unveils Infinity®
- the world's first biological safety cabinet designed with a redundant dual fan system that guarantees operator protection even in case of a single fan failure.



2009

Esco launches Isotherm®
- new Laboratory Ovens and Incubators.



Esco offers Pharmacon™
- new Downflow Booths.



Esco introduces Swift® MaxPro and MiniPro new generation PCR thermal cyclers.



Esco presents Labculture® *In Vitro* Fertilization Workstations.



2010

Esco launches CelCulture® CO₂ incubator.



2011

Esco launches Lexicon® range of Ultra-low Temperature Freezers.



Esco introduces CelCulture® CO₂ incubator with Suppressed O₂ feature.



2012

Esco manufactured the lowest noise (45 dBA) BSC in the world for a large installation in Karolinska Institute, Sweden.



Esco launches the Esco Medical Division, providing world class ART/IVF solutions worldwide, with a focus on the new MIRI® Multiroom Embryo Incubator.



Esco Pharma equipment was launched at PMEC China exhibition.

2013

Esco presents Airstream® G3 Class II, the greenest low noise biological safety cabinet in the world.



Esco offers eSafe®, the technologically and ergonomically advanced TÜV-NORD certified BSC.



Esco introduces MIRI® GA Gas and Temperature Validation Unit.



Esco launches Anti-Vibration Table (AVT)



Esco unveils Multi-Zone ART Workstation.



Esco presents MIRI® Time-Lapse incubator



2014

Singapore Prestige Brand Award (SPBA) recognized and honoured Esco as the overall winner in the Maybank Regional Brands category.



Esco unveils CelCulture® CO₂ Incubator (Direct Heat Air-Jacketed, Water Jacketed and with Cooling System)



2014

Esco launches Biostream® Biosafety Cabinets Class II Type A2 cabinet for Japan market.



Esco unveils AgriSafe® Food Safety Cabinets for the Food Industry.



Esco introduces OrbiCult™ Shakers.



Esco presents NSF version of Airstream® Class II Cabinets, the leading energy-efficient biosafety cabinet in the world.



Esco offers Gen 2 VIVA® Dual Access Animal Containment Workstations, the quietest animal containment workstation in the world.



Esco launches Airstream® Reliant Biosafety Cabinets with simple switches, and UL and NSF certified (4 ft. model).



2015

For the second time in a row, Singapore Prestige Brand Award (SPBA) recognized Esco as the overall winner in the Maybank Regional Brands category.



Esco launches Versati™ centrifuges - equipped with maintenance-free motors, robust mechanism, and intelligent Versati™ microprocessor control system that offers extreme reliability and safety.



2016

Introduced Esco Healthcare as part of the group in the Esco Group of companies, with the following Divisions:

1. Esco Pharma - provides specialist services, equipment packages and process solutions leading to improved protection of operators, reduction of cross-contamination and more efficient processing, thereby advancing occupational health and human healthcare.
2. Esco VacciXcell - specializes in adherent bioprocessing, provides design & manufacture of single-use, multiple-use and hybrid bioreactor solutions for the vaccine, cell therapy, and biologics industry.
3. Esco TaPestle Rx - specializes in healthcare & laboratory design and construction.

Esco receives the Hall of Fame Award from Singapore Prestige Brand Award for winning 3 consecutive years.



Esco launches Streamline® Compounding Isolator - Total Exhaust Model (SCI-TE) Compounding Aseptic Containment Isolator.



Esco presents Isoclean® Healthcare Platform Isolator (HPI-G3)



Esco offers Containment Barrier Isolator (CBI)



Esco unveils BioNOC™ II - Cell Culture Matrix / Carrier



Esco launches GlucCell™ - Glucose Monitoring System



2016

Esco presents CelCradle™
- Upstream Process / Bioreactor



Esco launches VXL™ Hybrid
-A 4-in-1 Bioreactor



Esco unveils TideCell™
- Adherent Tide Motion Bioreactor
(Pilot/Production Scale)



Esco presents StirCradle™ PRO
- Fermenter / Stirred Tank
Bioreactor (Production Scale)



Esco offers CradlePro Isolator
(CPI)



Esco begins Sampling Rigid
Isolator.



Esco presents Ventilated Balance
Enclosure (VBE)



Esco launches Advanced
Processing Platform Isolator
(APPI)



2016

Esco unveils EDVC / EDHC
Evidence Drying Cabinet.



Esco presents BioVap™
Biodecontamination System.



Esco launches Mini MIRI® Humidity
Incubator



Esco begins Multi-Zone ART
Workstation with MIRI® Chambers.



Esco offers SCE
- Semi Closed Environment



2017



Esco launches Esco Aster™ - an independent Contract Development and Manufacturing Organization (CDMO) in the Esco Group of companies, specializing in contractual development and manufacturing of services from upstream to downstream processing.

Esco launches Specialized Ductless
Fume Hoods
- ForMax™ and TitraMax™



Esco presents CelCulture®
CO₂ Incubator with High Heat
Sterilization.



2018

Esco was named and recognized as one of 2018 Singapore's Top Employer Brands at Influential Brands® 2018 CEO Asia Summit.



Esco acquired the AT Medical UAB, which was renamed as Esco Medical Technologies UAB and continue operations as a separate legal entity within Esco Lifesciences Group ecosystem.



Esco launches Bio Booth, a Class II Walk-In Containment Enclosure.



Esco presents Sputum Booth.



Esco offers BioPass™ Pass Through

Esco introduces upgraded Turbulent Flow Aseptic Isolator (TFAI™) with Pod Flange™ a flexible and detachable worktop.



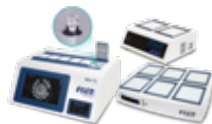
Esco unveils Cell Processing Isolator (CPI)



Esco offers Ascent™ Storage Cabinet



Esco launches MIRI® Time Lapse Incubator with 6 Chambers or 12 Chambers



Esco begins SAFE Sens integration to MIRI®, Mini MIRI® and MIRI® TL

2019

Esco launches CelXrocker™ - Laboratory Shaker with Tide Motion Parameters



Esco offers CelCradle X® - cGMP Adherent Bioreactor for Autologous Cell Therapy



2020



Esco Aster launches its range of COVID-19 products for a Trace, Test, and Treat Platform



The company shifted from Esco Group of Companies to Esco Lifesciences Group carrying a new tagline "Improving lives through science." and launched the Laboratory Division as Esco Scientific.

Esco presents Isoclean® Healthcare Platform Isolator - Inflatable Seal Model



2021

Esco offers its first filtration platform tool, AsterFlow™



Esco launches BioMESH® - A New Generation of Macroporous Carriers



Esco introduces new website (www.escolifesciences.com) and the Disinfection and Air Purification Technology products.



2022

Esco Lifesciences acquires Evidence Solutions and launches the Healthcare business unit in China.



2023

Esco launches the new generation of control system for Biological Safety Cabinets, Animal Workstations, and CO₂ Incubators.



Esco offers pipettes and liquid nitrogen biological container.



NEW PRODUCTS

Esco Lifesciences proudly launches cutting-edge solutions to expand its product line. From a new generation of control system to a new line of consumables, Esco aims to revolutionize the life sciences industry.

TOUCHSCREEN CONTROLLER FOR NEW GENERATION OF ESCO SCIENTIFIC PRODUCTS

BIOLOGICAL SAFETY CABINETS



ANIMAL RESEARCH WORKSTATIONS



CO₂ INCUBATORS



CONTAINMENT VENTILATED BALANCE ENCLOSURE

Class I Ventilated Enclosure for Non-Hazardous Drug Handling



LABORATORY PIPETTES

For a precise, accurate, and easy liquid handling with a compact and lightweight design



LIQUID NITROGEN BIOLOGICAL CONTAINER

Ensures long-term storage for samples in liquid nitrogen



Biological Safety Cabinets



Introduction

Esco is a world leader in biological safety cabinets, offering the industry's widest product range, with thousands of installations in leading laboratories in more than 100 countries around the globe. Esco's biological safety cabinets have earned more independent certifications, in more countries, in more languages, than any other product, demonstrating our commitment to the industry's best safety and quality.

Features

- Energy saving DC ECM blower*
- Isocide™ antimicrobial powder coating
- H14 filter or ULPA filter with 99.999% efficiency at 0.1 – 0.3 µm selection.
- Large performance envelope
- Ergonomic design
- Low noise
- Easy to clean

*Most models

Product Lines

- Class I Biological Safety Cabinets
Brand Available: Airstream®
- Class II Type A2 Biological Safety Cabinets
Brands Available: Airstream®, Airstream® Reliant, Labculture®, Labculture® Reliant
- Class II Type B1 Biological Safety Cabinets
Brand Available: Labculture®
- Class II Type B2 Biological Safety Cabinets
Brands Available: Labculture®, Airstream®
- Class II Biological Safety Cabinets
Brands Available: Airstream®, Airstream® Plus, Labculture® Plus
- Class III Biological Safety Cabinets
Brand Available: Airstream®
- Lead-Shielded Class II Biological Safety Cabinets
Brand Available: Airstream®, Cytoculture®, Labculture®
- Floor-Mounted Class II, Type A2 Biological Safety Cabinets
Brand Available: BioBooth®
- Floor-Mounted Class II, Type B2 Biological Safety Cabinets
Brand Available: BioBooth®

Certifications and Compliances



Laminar Flow Cabinets



Horizontal Laminar Flow Cabinets



LHG-4_G-F_



LHS-4_G-F_



LHG-4DS-F_

Vertical Laminar Flow Cabinets



LVS-4_G-S_



LVS-4_G-F_



LVG-4_G-F_



LVS-4A_

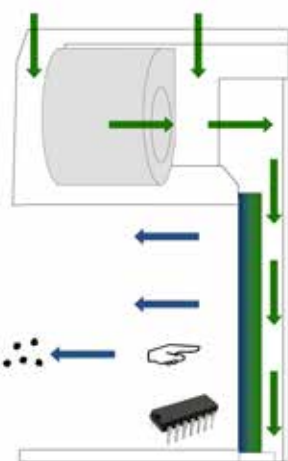


ACB-4E_

Introduction

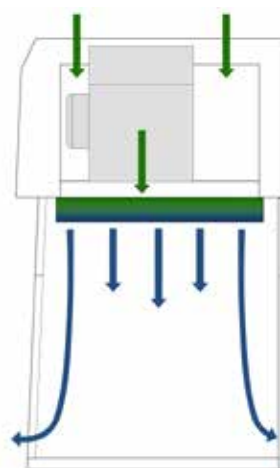
A laminar flow cabinet keeps a controlled work surface for applications requiring a sterile work space whereas contaminant access is being prevented by a constant filtered airflow across the surface.

Esco's laminar flow cabinet is a product of robust engineering combined with strategic ergonomic design. It provides long-term reliability and ultimate user comfort making it ideal for use in electronics assembly, plant tissue culture, culture media preparation, and other non-hazardous applications that need sterile environment.



Horizontal Laminar Flow Cabinet

- Easier to put sensitive material near clean air source
- Contaminant is not blown towards sensitive material



Vertical Laminar Flow Cabinet

- Air does not blow straight to user's face
- Air curtain is not disrupted by large object

Product Lines

- Horizontal Laminar Flow Cabinets
- Horizontal Laminar Flow Cabinets for Plant Tissue Culture
- Vertical Laminar Flow Cabinets (sliding or fixed sash window)
- Vertical Laminar Flow Cabinets with Black Interior, suitable for optical industries

Brands Available: Airstream®, OptiMair™

Certification and Compliance



UL 61010



CE

Animal Research Workstations

Universal Animal Containment Workstations



VA2-4S_G4

Bedding Disposal Animal Containment Workstations



VBD-4A_

Dual Access Animal Containment Workstations



VDA-4A_

Introduction

Animal research, cage changing and bedding disposal procedures are now simpler, safer, and more productive with the Esco range of VIVA® Animal Research Workstations. Esco's experience in clean air and containment technologies extends to lab animal research products to help protect the investigator, animal technicians, animals, and the environment during research, cage changing and bedding disposal procedures.

VIVA® Animal Research Workstations help laboratories comply with NIOSH recommendations to create a safer, healthier, more productive work environment and to ensure that this is achieved, operator and environment protection of each VIVA® workstation evaluated through the ELISA analysis.

Actual cage changing and bedding disposal operations were performed to simulate how the workstations are used, and allergen concentration at designated areas was sampled. The allergen concentration was quantified using sandwich ELISA method.

The result: VIVA® Workstations offer high levels of operator and environment protection that can substantially help to minimize allergen exposure.

Product Lines

- Universal Animal Containment Workstations
 - Dual Access Animal Containment Workstations
 - Bedding Disposal Animal Containment Workstations
- Brand Available: VIVA®

Certification and Compliance



UL 61010



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Laboratory Centrifuges



Micro Centrifuges



MCV-88-_{_}

MCR-88-_{_}

Tabletop Centrifuges



TCR-1500-_{_}

TCV-1500-_{_}

Introduction

Esco offers the best choice for high performance and superior quality centrifuge—Versati™ centrifuges. It is equipped with maintenance-free motors, durable mechanism, and intelligent Versati™ microprocessor control system that offers extreme reliability and safety. Versati™ has a robust versatility covering micro centrifuge and low-to-high speed general-purpose centrifuge with variety of rotors, adapters, and accessories to fit all your application needs and suit various consumable tubes, strips, and plates.

Features

- Distinct control panel and intelligent Versati™ microprocessor control system
- Genuine-Protect™ safety lid lock
- V-balance™ weight imbalance protection
- Smartdrive™ rotor auto recognition
- Isocide™ antimicrobial powder coating
- Diverse choices of rotor (swing-out and fixed-angle rotors)
- Integrated design of interior centrifuge chamber
- Temperature range from -20°C to 40°C with 1°C increments (for refrigerated models only)
- Maintenance-free, brushless motor
- CFC-free refrigeration system
- Emergency switch
- Polished and practical appearance
- Maximum speed up to 16,000 rpm (RCF = 24,320 x g)
- Storage of up to 99 programs
- Noise level ≤ 68 dBA (depends on the rotor)

Product Lines

- Micro Centrifuge Ventilated (MCV)
Max sample capacity: 88 ml
 - Micro Centrifuge Refrigerated (MCR)
Max sample capacity: 88 ml
 - Tabletop Centrifuge Ventilated (TCV)
Max sample capacity: 1500 ml
 - Tabletop Centrifuge Refrigerated (TCR)
Max sample capacity: 1500 ml
- Brand Available: Versati™

Compliance



CE

CO₂ and CO₂ / O₂ Incubators



Introduction

Esco CO₂ Incubators offer the best temperature and CO₂ / O₂ control for the optimum growth and development of cells. It is designed for high-quality incubation performance through the precise control of heating and gas injections combined with multiple contamination control and ergonomic features appropriate for safe incubation of many types of cells and tissues.

Features

- Precise Parameter Control**
 - Best uniformity and control among competition, which means samples are evenly heated.
 - Fast CO₂, temperature and humidity recovery without overshoot.
 - Direct heat and air jacket for rapid temperature recovery and provide isolation from ambient temperature fluctuations.
 - Forced convection system accelerates recovery of chamber air after door closing to prevent contamination.
 - All Esco CO₂ incubators are now equipped with heat-resistant infrared CO₂ sensor for enhanced precision and stability.
- Robust Contamination Control for Optimum Protection**
 - SteriSafe™ ULPA Filtration System
 - Validated SwiftCon™ 90°C Moist Heat Decontamination Cycle (CelMate® and CelCulture®)
 - 180°C High Heat Sterilization Cycle (CelCulture® HHS)
 - Filtered Gas Injection Lines
 - Isocide™ Antimicrobial Coating
 - Optional Copper Interior
 - Optional UV Lamp
- User-friendly Controller Software Interface**
 - Comprehensive, user-configurable alarms.
 - CelAlert™ alarm system reminds user to replace parts.
 - Intelligent data and event logger records all incubator parameters for on screen recall. A ~2 Mb built-in flash memory guarantees long-term storage of data.

Product Lines

- CO₂ Incubators
Brand Available: CelMate®
- CO₂ and CO₂ / O₂ Incubators
 - Direct Heat Air-Jacketed
 - With Cooling System
 - With Stainless Steel Exterior
 - With Copper Interior
 - With High-Temperature CO₂ Sensor
 - With High Heat Sterilization
 - For *In Vitro* Fertilization
 Brand Available: CelCulture®

Certifications and Compliance



Laboratory Shakers

Benchtop Ambient Shaker



AS1-NC-19

Benchtop Incubator Shaker



IBS-R-19-__

Introduction

An orbital shaker is ideal for a variety of general-purpose shaking applications in cell culture, bacterial growth and suspension, staining and washing procedures. This type has a circular shaking motion with low to high speed with less vibrations, ideal for culturing microbes.

Esco OrbiCult™ Shaker offers versatile models and outstanding features such as a unique triple-eccentric counterbalance drive and brushless DC motor for long term-reliability. Also, OrbiCult™ shakers are known for their flexibility, user-friendly control system, and safety features which provides user comfort and reliable results

Features

- **TriDrive™:** Esco's unique triple-eccentric counterbalanced drive supports heavy-duty and high-speed applications.
- **RobustDrive™** mechanism eliminates the need for lubrication as the Brushless DC Motor saves maintenance worries.
- **SmartRun™:** Excellent out-of-balance sensor & proprietary imbalance compensation algorithm ensures smooth operation without any vibration.
- Microprocessor P.I.D. controller enables accurate temperature, gas, speed, and running time settings to deliver reproducible results.
- Unparalleled design provides a broader temperature and speed control range.
- **Programmable Design:** Unit's memory can store up to 15 (for IBS) and 25 (for AS1) steps program with various time, temperature and speed settings.
- **Built for Safety:**
 - Audible and visible alarms alert any speed and temperature deviations.
 - Shaker automatically restarts after power interruption for the non-volatile program saved in the memory.
- Multiple accessories choices allow you to customize the most suitable solution for your applications.

Product Lines

- Ambient Shaker (AS1-NC-__)
 - Ambient Shaker - CO₂ Resistant (AS1-C-__)
 - Incubator Benchtop Shaker - Non-refrigerated (IBS-NR-__-__)
Temperature range: 5 °C (above ambient) - 80°C
 - Incubator Benchtop Shaker -Refrigerated (IBS-R-__-__)
Temperature range: 10°C (below ambient) - 80°C
- Brand Available: OrbiCult™*

Compliance



CE

Laboratory Refrigerators and Freezers

Laboratory Refrigerators



HR1-140S-₋

HR1-400T-₋

Laboratory Freezers



HF2-400T-₋

HF2-1500S-₋

Laboratory Combination Refrigerators and Freezers



HC6-400S-₋

HC6-700S-₋

Introduction

HP Series Laboratory Refrigerators and Freezers are high-performance models designed to provide a high level of protection to samples used in life science research and clinical applications.

When superior levels of cold storage performance, reliability, and flexibility are needed, the Esco HP series of Laboratory Refrigerators and Freezers are the best choice.

Features

• High-performance

- Forced-air design instead of regular cold wall for both refrigerators and freezers
- Rapid cool down and fast recovery due to fan assistance
- Fast temperature equilibration
- Intelligent automatic defrost

• Sample Safety

- Door lock provides additional security for expensive samples and reagents from unauthorized users
- External surfaces are powder-coated with Isocide™ to eliminate 99.9% of surface bacteria within 24 hours of exposure
- Triple-pane glass doors provide superior insulation compared to any other glass door technology and enables easy location of needed samples with the door closed
- Door will automatically close under 90° when released to maintain temperature and protect samples
- Audible and visual alarms during door opening, high/low temperature, power failure, and clogged condenser filter

• User Friendly

- Comfortable, ergonomic handle
- Internal LED lighting
- Wheels with integral brakes are included on every model

Product Lines

- Laboratory Refrigerator (+2°C to +15°C)
- Laboratory Freezer (-10°C to -25°C)
- Deep Freezer (-20°C to -40°C)
- Laboratory Combined Refrigerator (+2°C to +15°C) and Freezer (-10°C to -24°C)

Brand Available: HP Series

Compliance



CE

Upright Ultra-low Temperature Freezers



Silver Controller



UUS-597A-_-SS

Gold Controller



UUS-597B-_-SS

Introduction

The Lexicon® II series ULT freezer incorporates the best and most complete sample protection and sample organization system of any ULT freezer manufacturer. Ultra-low temperature (ULT) freezers are widely used in scientific research for long-term storage of samples. As ULT freezers are often operated at -80°C continuously for years, reliability is of paramount importance to researchers. Esco has used industry-accepted Highly Accelerated Life Testing (HALT) to stress test a large number of Esco ULT Freezers at extreme conditions. All Esco ULT Freezers passed these extreme stress tests ensuring a design that is optimized to protect your precious samples.

In accordance with ANSI/ASHRAE 72-2005 and ARI 1200-2006/2008 guidelines and as tested by a UL-validated third-party test lab, DNS USA, the Esco ULT Freezers surpassed the performance of 5 major competitors with lower energy consumption, superior cabinet performance (as measured by warm-up time), and demonstrated a larger BTU refrigeration reserve capacity to ensure the highest level of performance and protection of your samples.

Features

• Sample Safety and Integrity

- Excellent vial capacity with a minimal footprint.
- All controllers are available in every size to meet customer capacity requirements. Available in 363, 480, 597, and 714 liters.
- Built with triple gasket seal to provide protection against thermal intrusion.
- Environment-friendly CFC- and HCFC-free- refrigerants are used.

• Performance

- Low-noise operation that ensures a quiet and pleasant working environment for laboratory users.
- Pressure Equalization Port (PEP) to facilitate fast door reopening times.
- User-friendly display which shows the actual temperature and ambient temperature with clear indication of alarms.
- USB interface that allows transfer of temperature data (for Gold controller only).

• Complete Event Monitoring and Logging System

- Compatible with **Voyager** Software that allows easy, unified local freezer control and monitoring for proper operation from a central location via user established or local network.
- **PROtect Gen2** Redundant Wireless Sample Monitoring System.
- **GSM Modem**: a device that alerts the user through SMS in case of sample threatening alarms (for Gold controller only).

Product Lines

- Ultra-low Temperature Freezer with Silver Controller (UUS-A)
- Ultra-low Temperature Freezer with Gold Controller (UUS-B)

Brand Available: Lexicon® II

Certification and Compliance



UL 61010



CE



Remote Monitoring, Datalogging, Programming Software

Voyager

Introduction

Esco Voyager is a PC-based software package developed for the remote monitoring, data-logging and programming/device configuration of Esco controlled environment laboratory equipment. This software has the capability to push updates to Esco equipment connected to the software. In any event of equipment failure, the software is able to send out remote alarm notification through e-mail. It is also compliant to 21 CFR Part 11 standard for traceability.

Features

• Remote Monitoring and Data Logging

- Automatic, continuous monitoring of device parameters (Temp, CO₂, RH, etc.)
- Viewing and graphing device parameters in real-time
- Saving and exporting log data in various formats
- Automatic emailing of log data at user-defined intervals
- Download of data logs from equipment memory (only for devices with built-in data logging memory, i.e. CO₂ Incubators)

• Alarm

- Alarms when exceeding a user-defined parameter limit
- Automatic email alerts
- Documentation of all alarms with time/date stamp

• Remote Programming and Equipment Configuration

- Development of programs using a graphical interface, for subsequent download to device memory (only for equipment with program functions, i.e. Forced Convection Laboratory Ovens and Incubators)
- Configure devices remotely (set points, local alarm limits, etc.)

Minimum System Requirements

- Operation system: 32-bit or 64-bit Windows 2000, 2003 Server, XP, 7 Pro, 10 Pro, and 11 Pro
- Memory: 4 GB
- Hard disk space: 10 GB
- Interface: USB/RS232/ RS485
- Prerequisite Software: .NET framework 2.0, 3.1, 3.5, 4.0 (included) and Windows Installer 3.1 (included)

**Internet connection required for email alert feature.*

- Ability to generate reports and graph of different device parameters.
- Protect the samples by providing alarms when exceeding a user-defined parameter limit via automatic email alerts.



• Easy PC interface using USB, LAN cables or via Wi-Fi.

- Ability to save and report log data in various formats.

• Allows all Esco thermostatic products to be connected and monitored for proper operation from a central location.



Compatible Equipment

- Lexicon® II Ultra-low Temperature Freezers (UUS-A/B)
- Isotherm® Laboratory Incubators (INA, IFA, IFC)
- Isotherm® Forced Convection Laboratory Oven (OFA)
- CO₂ Incubators (CCL, CLM)

Wireless Monitoring System

PROtect Gen 2

Introduction

Esco PROtect Generation 2 monitoring system includes radio frequency recorders that can be connected to any brand of temperature-controlled equipment. These recorders automatically send data to a central server to monitor temperature and other parameters and send real-time alerts to users. Esco PROtect Generation 2 complies with ISO 17025, GMP, and GLP requirements.



Features

- PROtect Gen 2 has no dependency on the freezer electronics so, in the event of a catastrophic failure that would prevent all other systems from notifying the user, PROtect can provide the necessary alerts to protect your irreplaceable samples.
- Multiple installations in remote buildings can be monitored and multiple users can access the system simultaneously.
- The PROtect sensors measure, record, and transmit data measurements via the Esco operator network or a private Esco gateway. Very low power consumption (battery life up to 4 years).
- Can be used in ULT freezers (-86°C), cryogenic applications (-196°C), and standard lab refrigerators (4°C) and freezers (-30 to -40°C).
- The sensors are equipped with an internal memory that is able to record up to 10,000 data points.

Operating system:

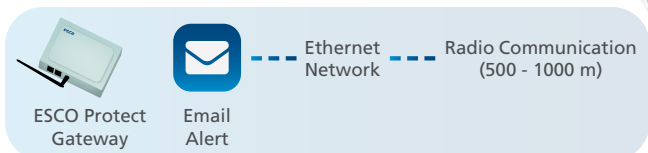
- Windows Server 2012 R2 / Windows Server 2016 / Windows 10 / Windows Server 2019
- IIS Web Server version 8 minimum
- SQL Server Express 2014 or higher version
- Microsoft Framework.NET 4.7.2 or higher version
- Access to SMTP server for email alerts
- Access to a MultiTech GSM Router for text messages alerts

Server configuration:

- Processor: 2 cores minimum 2,6GHz
- RAM: 8 GB (4 GB is the minimum required for a small installation, ex: 10 units)
- Hard disk: 4 GB for the installation + 10 GB maximum for stored data. (Microsoft SQL Server Express manages 1 physical processor, 1 GB RAM and 10 GB DATA storage)

Customer's Network:

- Allow TCP/IP communications on Port 13251 (Incoming traffic) in case of single server installation (can be changed in MySirius Configuration)
- Incoming/Outgoing traffic: in case of multi-server installation. The Services and the IIS Web server should have access to the Dispatcher.
- Allow TCP/IP communications on Port 13252 (Incoming traffic) for configurations with LoRa devices (can be changed in MySirius Configuration)
- Allow customer SMTP server access for email alerts sending
- Allow communication with a Multitech GSM router for text message alerts sending



LEGEND

- PROtect G2 T0, T1, T2, T3
- PROtect G2 Digital
- PROtect G2 U
- PROtect G2

Ductless Fume Hoods



Ascent® Opti Ductless Fume Hoods



SPD-4A_

Ascent® Max Ductless Fume Hoods



ADC-4B_-PP



ADC-4D_



ADC-4C_

Ascent® Max Ductless Fume Hoods



SPF-4A_



PW1-3A_



SPT-4A_

Introduction

The Esco Ductless Fume Hoods provide protection to both laboratory personnel and the environment from toxic fumes. Unlike conventional fume hoods, these hoods filter out chemical fumes and recycle directly back to the laboratory, providing energy savings, personnel and environmental protection, mobility, and convenience. Esco Ductless fume hoods' fume containment and airflow uniformity meet the requirements of ASHRAE 110, BS 7258, EN 14175-3 and AFNOR NFX 15-203.

Key Benefits

- **"GREEN" solution**
 - Environment-friendly
 - Does not discharge toxic gases to the environment
 - Saves energy, and reduces total carbon footprint
- **Safe carbon filtration**
 - Compliance to international standards
 - Proprietary Nanocarb™ activated carbon technology
 - Optional VOC sensor system to detect filter saturation
 - FiltraCheck™ service to qualify your application's suitability for a ductless solution
- **Low cost**
 - No ductwork required
 - No exhaust system required
- **Convenience**
 - No installation hassle
 - Mobile and flexible

Product Lines

- Ductless Fume Hoods
Brand Available: Ascent® Opti
- Standard Ductless Fume Hoods
Brand Available: Ascent® Max (B-Series)
- Ductless Fume Hoods - with Secondary Back Up Carbon Exhaust Filter
Brand Available: Ascent® Max (C-Series)
- Ductless Fume Hoods - with Transparent Back Wall
Brand Available: Ascent® Max (D-Series)
- Ductless Fume Hoods - with Secondary HEPA Filter
Brand Available: Ascent® Max (E-Series)
- Ductless Fume Hoods - with dual HEPA Filter
Brand Available: Ascent® Max (F-Series)
- Ductless Fume Hoods - with Tri-Filter
Brand Available: Ascent® Max (G-Series)
- Specialized Ductless Fume Hoods
Brands Available: PowderMax™ for Powder Weighing Applications
ForMax™ specialized as a Formalin Dispensing Unit
TitraMax™ for Titration Applications

Certifications and Compliance



ASHRAE 110



AFNOR NF X 15-203



EN 14175-3

BS 7258

BS 7989



CE

Ducted Fume Hoods



General Purpose Ducted Fume Hoods



EFH



EFD

High Performance Ducted Fume Hood



EFA

Full Polypropylene Ducted Fume Hood



PPH

Specialized High Performance Ducted Fume Hoods



EFQ



EFP



EFI



EFA-M



EFF

Introduction

Esco Ducted Fume Hoods guarantees superior fume containment and durability as it complies with international standards ASHRAE 110-2016 and EN 14175.

Features

- Durable construction made of industrial grade electro-galvanized steel with corrosion and abrasion resistant, oven-baked, powder-coated finish.
- Precisely tuned aerodynamic design eliminates air turbulence, minimizes noise levels and static pressure losses.
- Constant volume/high performance concept eliminates the need for complex VAV systems.
- Ensured maximum containment through computational fluid dynamics design.
- Isocide™ antimicrobial coating prevents surface contamination and inhibits bacterial growth.

Product Lines

- General Purpose Fume Hoods
Brands Available: Frontier® Mono, Frontier® Duo
- High Performance Fume Hood
Brand Available: Frontier® Acela
- Specialized High Performance Fume Hood
Brands Available: Frontier® Acid Digestion, Frontier® Perchloric Acid, Frontier® Radioisotope, Frontier® Acela™ M, Frontier® Floor Mounted
- Full Polypropylene Fume Hood – Trace Metal Applications
Brand Available: Frontier® PPH
- Chemical Fume Scrubbers
Brand Available: Envirosafe
- Exhaust Blowers
- Fume Hood Airflow Monitors
Brand Available: Sentinel™ XL

Certifications and Compliance



UL 1805

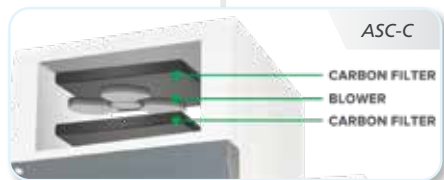
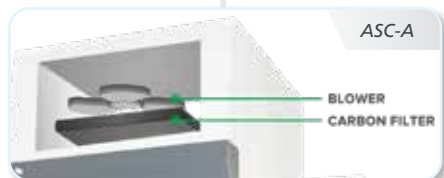


CE

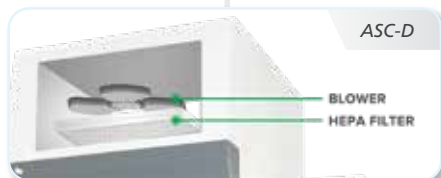
Filtered Storage Cabinets



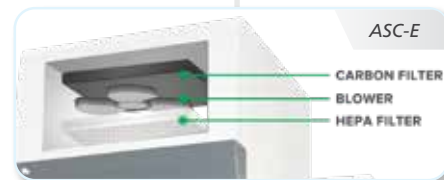
For Liquid Chemicals



For Powdered Chemicals



For Both Liquid and Powdered Chemicals



Introduction

Fumes from chemical containers may result to the corrosion of the storage cabinet and contamination of the air in the laboratory. Escos offers a filtered storage cabinet that is equipped with carbon and HEPA filters that remove toxic chemical fumes and particles to provide operator and environment protection. It is also constructed from corrosion-resistant materials to guarantee a long-lasting performance.

Features

- Acrylic doors with lock and alarms
- Polypropylene trays with a maximum load of 40 kg
- Multiple filter configurations to suit your chemical storage needs
- VOC sensor to detect filter saturation

Product Line

Brand Available: Ascent®

Compliance



CE



Laboratory Thermostatic Products



Laboratory Oven

Forced Convection Laboratory Incubator

Natural Convection Laboratory Incubator

Refrigerated Incubator



OFA-110-__



IFA-110-__



INA-110-__



IFC-110-__

Introduction

Esco Isotherm® world-class laboratory ovens and incubators— great choice for high-forced volume thermal convection applications and temperature-controlled environment. With ergonomic design, microprocessor PID controls, 4-zone heated air jacket and precisely tuned and tested ventilation and insulation package, Esco Isotherm® is your reliable equipment for universal applications.

Features

- Wide range of programming options
- Multiple over-temperature protection systems guarantee maximum sample and user protection
- Access port for temperature validation and mapping
- Isocide™ antimicrobial coating prevents surface contamination and inhibits bacterial growth

For Forced Convection Ovens, Incubators and Refrigerated Incubators

- Pre-heat chamber technology
- Forced convection design provides faster temperature response rates, improved uniformity, and reduced fluctuation
- Fan speed and air exchange rates are adjustable
- Ergonomic door handle with keylock
- Optional stainless steel main body meets pharmaceutical and clinical laboratory requirements

For Natural Convection Incubators

- Natural convection design best suits for gentle ventilated incubation requirement
- Ergonomic door handle

Product Lines

- Laboratory Ovens
- Forced Convection Laboratory Incubators
- Natural Convection Laboratory Incubators
- Refrigerated Incubators

Brand Available: Isotherm®

Compliance



CE

PCR Thermal Cyclers



Swift™
MiniPro®

Aeris™ Thermal
Cyclers

Swift™ ProGene

PCR Thermal Cyclers

Introduction

Esco offers a choice of conventional and real-time thermal cycler models designed to meet critical requirements for almost all kinds of PCR variants such as Gradient PCR, Touchdown PCR, High-throughput PCR, in situ PCR, quantitative PCR, relative quantification, and so on. Block configurations are available for a number of sample formats of PCR tubes, strips, plates, and slides.

Features

- Excellent temperature uniformity and stability
- Suitable for various sample formats, which can simplify experiments
- User-friendly controls and operation
- Long warranty period wipes your worries away
- High heating and cooling rates

Product Lines

- Conventional PCR Thermal Cycler
Brands Available: Aeris™, Swift™
- Real-time PCR Thermal Cycler
Brand Available: Swift™ ProGene

Automated Nucleic Acid Extraction System



Swift™ Extract

Automated Nucleic Acid Extraction System

Introduction

The Esco Swift™ Extract Automated Nucleic Acid Extraction System can be used to extract from variety of samples, cells, and viruses coupled with extraction kits that offer a simple, fast, and cost-effective techniques to isolate DNA/RNA.

Features

- High extraction efficiency
- Standard programs
- Safe for use
- High temperature accuracy

Product Line

- Automated Nucleic Acid Extraction System
Brand Available: Swift™ Extract

Compliance



CE

Microplate Shakers

Microplate Shakers

Introduction

The Esco ProvoCell™ Shaking Micro Incubator is designed for a wide variety of mixing applications for accurate incubation of reactions and denaturation of nucleic acids and proteins. ProvoCell™ combines an advanced microprocessor-based controller with Peltier heating and cooling to deliver outstanding reliability, safety and overall performance.

Features

- 7 easily interchangeable blocks designed to suit most of your laboratory applications.
- Digitally controlled
- Advanced Peltier heating and cooling technology

Product Line

- Microplate Shaker/Incubator
Brand Available: ProvoCell™



ProvoCell™ Shaking
Micro Incubator

ProvoCell™ II

Compliance



CE

PCR Cabinets



Streamline® SCR-2A_



Airstream® PCR-4A_

PCR Cabinets

Introduction

Polymerase Chain Reaction (PCR) is a process where millions of copies of DNA are amplified from a single copy or low copy number template. Because of the high copy number generated during PCR, it is also essential to prevent possible contamination of the PCR samples.

Features

- Greater protection against contamination from the ambient environment and cross-contamination within the main chamber.
- High quality polyester pre-filter and main HEPA filter with a typical efficiency of >99.99% at 0.3 microns.
- Built-in UV lamp with timer to facilitate decontamination between PCR cycles.
- Available in 0.6, 0.9 and 1.2 meter models (2', 3' and 4').

Product Line

- Polymerase Chain Reaction Cabinets
Brands Available: Airstream®, Streamline®

Compliance



CE

Disinfection Technologies



ASD-S
Automatic Hand Sanitizer
Dispenser



Automatic Temperature
Measurement and Disinfection
Machine

Air Purification Technologies



PS-501T1
Ceiling Air Purifier



AP-1300
Airstream® PURE Air Purifier

Disinfection Technologies

Introduction

Esco offers disinfection devices that dispense liquid sanitizer with a contactless mechanism. These dispensers are great additions to laboratories, offices, malls, and homes to help promote a cleaner and safer environment.

Features

- Refillable 1000mL container
- Automatic induction
- Can be wall-mounted or stand-mounted

For Automatic Temperature Measurement and Disinfection Machines

- Quick and accurate temperature measurements
- Alarm function
- °C/°F unit available

Air Purification Technologies

Introduction

The Esco Ceiling Air Purifier and Airstream® PURE Air Purifier are designed to remove unwanted odors and indoor pollutants such as pollens, volatile compounds, dust, and mold spores in the air. Equipped with an effective filtration system, these air purifiers are more than capable of providing clean and fresh indoor air.

Features

- Low noise operation
- Effective filter system
- Removes indoor pollutants and odors
- Disinfects and sterilizes air
- Provides clean air

Esco Healthcare enables a complete translational discovery to delivery within the Healthcare Industry from research and development to clinical trials, final commercial production, and pharmacy compounding/stem cell therapy.



Esco Pharma is a leading manufacturer of containment and isolation systems with a global footprint spanning US, Europe, and Asia. We provide standardized platforms with built-in configurations while ensuring operational parameters are not compromised. This enables the manufacture of internationally compliant pharmaceuticals, nutraceuticals, and cosmeceuticals.

Esco Pharma's largest global network of localized application specialists and service offices, provide faster service response than others; translating into more competitive maintenance costs and shorter project life cycles.

Esco Pharma provides specialist services, equipment packages, and process solutions from our core platform products. This leads to improved operator protection, reduction of cross contamination, and a more efficient processing; thus, directly and indirectly advancing occupational health and human healthcare.

Esco Pharma Products

Airflow Containment

- BioBooth®
- Ceiling Laminar Airflow
- Cytoculture® Cytotoxic Safety Cabinet
- Pharmacon™ Downflow Booth
- Evidence Drying Cabinet
- Esco Garment Storage Cabinet
- Esco Glassware Hoods
- Laminar Flow Horizontal/Vertical Trolley
- Laminar Flow Straddle Unit

Cross Contamination Facility Integrated Barrier

- Cleanroom Air Showers
- Infinity® Air Shower Pass Box
- Infinity® Cleanroom Transfer Hatch
- Infinity® Pass Boxes
- Soft Capsule® Soft Wall Cleanroom
- Dynamic Passboxes and Dynamic Floor Label Hatches
- Esco BioVap™ Biodecontamination System
- BioPass™ Pass Through
- Esco Sputum Booth

Isolation Containment

- Streamline® Compounding Isolators (SCI)
- Isoclean® Healthcare Platform Isolator (HPI)
- Containment Barrier Isolator (CBI)
- General Processing Platform Isolator (GPPI)
- Weighing and Dispensing Containment Isolator (WDCI)
- Aseptic Containment Isolator (ACTI)
- Turbulent Flow Aseptic (Grade A) Isolator (TFAI)
- Technetium Dispensing Isolators
- Blood Cell Labeling Isolators
- Open and Closed Restricted Barrier Access Systems (RABS)
- Cell Processing Isolator (CPI)
- Filling Line Isolator

Ventilation Containment

- Ventilated Balance Enclosure

Certification



UL 61010 (for HPI)



DFB G2



TFAI™



BioPass™



VBE



Biovap™
Biodecon System

GPPI



Esco TaPestle Rx is the division of Esco Healthcare that specializes in pharmacy compounding, providing world class facility brought in line with international cGMP standards.

Esco TaPestle Rx is built on the legacy of two pharmacists whose oath is to consider the welfare of humanity and the relief of human suffering. Our primary concern is always fundamental in shaping our vision of elevating healthcare by providing access to life sciences tools in developing countries.

PRODUCTS

Pharmacy Compounding Equipment

- Cytoculture® Cytotoxic Safety Cabinet
- Streamline® Compounding Isolator
- Isoclean® Healthcare Platform Isolator
- Containment Barrier Isolator - Unidirectional Model
- Ventilated Balance Enclosure

Radiopharmaceuticals Handling

- Frontier® Radioisotope Fume Hood
- Lead-shielded Class II Biological Safety Cabinet
- Streamline® Shielded Isolator
- GMP-compliant Radioisotope Dispensing Isolator



CYT



SCI



HPI



CBI-U



VBE



Frontier® Radioisotope
Fume Hood



Technetium Dispensing
Isolator



GMP-compliant Radioisotope Dispensing
Isolator



Lead-shielded Class II
Biological Safety Cabinet



Esco VaccixCell has a wide range of bioprocessing tools from adherent bioreactors, stirred tank bioreactors, consumables, cell-line specific culture medium, and more. These products are perfect for research and development up to commercial or manufacturing scale for several applications such as vaccine production, cell/gene therapy, cellular agriculture, and more. As part of the bioprocess equipment manufacturers worldwide, Esco Vaccixcell aims to provide solutions for easy access to advanced therapeutics and high-quality biologics for all nations.

The division's core technology, "Tide Motion", works as a linearly scalable bioreactor system that provides 3D adherent cell culture environment for high cell and/or product yield.

Esco VaccixCell Products

Bioreactors and Fermenters

- CelXrocker® (CXR)
- CelCradle® (CC)
- CelCradle X® (CCX)
- TideXcell® (TXL)

Harvesting System

- CelShaker®
- CelCradle X® Harvesting System (CCXHS)
- TideXcell® Harvesting System (TXLHS)

Cell Culture Monitoring, Media and Consumables

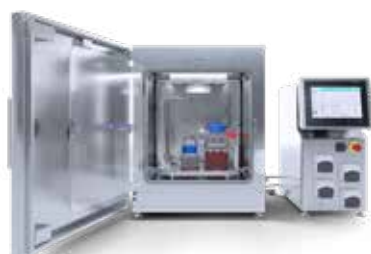
- BioNOC II® macrocarriers
- BioMESH® macrocarriers
- GlucCell™ Glucose Monitoring System

Filling Line Equipment

- Traditional Filling Line

Integrated Solutions

- Cell Processing Isolator (CPI)
- Cell Processing Center



CelCradle X®



CelCradle® G2



CelCradle®



CelXrocker®



CelShaker™



Plus™ MDCK



GlucCell™



Plus™ Vero



Super Plus™



Cell Processing Isolator



TideXcell®



TXLHS



Assisted Reproductive Technology (ART) Equipment

Embryo Culture



MIRI® II



MIRI® Dry and Humidity Multiroom Incubator



Mini MIRI® Dry and Humidity



CultureCoin®



MIRI® TL



CCL-IVF

Sample Handling



MAW



MIRI® Laminar Flow



TCV



MIRI® AVT

Traceability Tool



Sample Handling



MIRI® GA



SAFE Sens

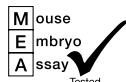
Introduction

Esco Medical is one of the business units of the Esco Lifesciences Group, which provides innovative technological solutions for fertility clinics and laboratories. Esco Medical is the leading manufacturer and innovator of high quality IVF equipment that are designed in Denmark and mostly made in the EU.

Embryo Incubators

- Time-Lapse Embryo Incubator
Brand Available: MIRI® TL Time-Lapse Incubator
- Multiroom Incubator
Brand Available: MIRI® Multiroom Incubator
MIRI® Humidity Multiroom Incubator
MIRI® II-12 Multiroom Incubator
- Compact Benchtop Incubators
Brand Available: Mini MIRI® Dry Incubator
Mini MIRI® Humidity Incubator
- CO₂ Incubator
Brand Available: CelCulture® CO₂ Incubator

Certifications



Sample Handling

- Workstations
Brand Available: Multi-Zone ART Workstations (MAW), MIRI® Laminar Flow Cabinet
- Anti-Vibration Table
Brand Available: MIRI® AVT
- Tabletop Centrifuge Refrigerated
Brand Available: Versati™

Other IVF accessories

- CO₂ / O₂ and Temperature Validation unit
Brand Available: MIRI® GA
- Stereo Zoom Microscope
Brand Available: Esco Stereomicroscope MS-1
- Continuous pH monitoring tool
Brand Available: SAFE Sens*
*SAFE Sens is a trademark brand of Blood Cell Storage, Inc. (BCSI)

WE PROVIDE A ONE-STOP SOLUTION FROM INSTALLATION TO DECOMMISSIONING OF YOUR EQUIPMENT!

Esco Services takes professional pride in ensuring compliance with legal guidelines and ISO standards while helping your company minimize disruption or downtime of equipment; thus improving your company's productivity.



ACCREDITATION

Our Field Service Representatives have extensive annual up-to-date safety training. Our list of credentials includes NSF (for Biosafety cabinets) TÜV NORD (for microbiological & cytotoxic cabinets), NEBB (for clean room), IFBA (for biorisk management), and CETA-CNBT (for fume hoods).



STRONG GLOBAL NETWORK

We offer comprehensive and reliable services through our extensive global network of Field Service Representative to our clients that include a dependable inventory of ready parts, technical support, field-based engineering, factory engineers, and after-sales representatives.



FAST RESPONSE

On-site response within 24 hours for priority cases/ clients. Easy to reach customer service, through email and phone call.



GOOD GLOBAL REPUTATION

Our Service Team is dedicated to providing service of the highest standards. We provide timely, responsive service while meeting or even exceeding customer's expectations.

OUR WIDE RANGE OF QUALITY SERVICES



Installation and Operational Qualification

Esco Service Team provides installation services and ensures that the unit is operational upon installation.



Annual Recertification Testing and Calibration

Esco Field Service Representatives credentials include NSF (for Biosafety Cabinets), TÜV NORD (for Microbiological & Cytotoxic Cabinets), NEBB (for Clean Room), IFBA (for Biorisk Management), and CETA-CNBT (for Fume Hoods). Rest assured that your equipment will be properly certified according to international standards.



Decontamination

Esco offers safe and reliable decontamination services to ensure that your equipment is ready and safe to use.



Contract Manufacturing and Development Organization (CDMO)

Esco Aster, as a full-range services partner, supports its global clients from early stage discovery to market approval of clients' products. We provide process development (PD) and contract manufacturing (from upstream to downstream, formulation and filling), consultation, clinical research services bridging the translation gap from bench to bedside.



Repair, Maintenance and Replacement

Esco Service Engineers are the best in providing service for Esco products and other brands. Esco provides authentic parts for replacement and any components that might fail while the product is in service.

OTHER SERVICES OFFERED

With Esco service, customers can expect that breakdown calls are attended promptly and technical issues can be resolved faster than any other service provider.



Cleanroom Certification

Esco cleanroom services experts will verify your manufacturing environment ensuring performance requirement and the compliance of related industry standards.



BSL Validation

Esco is qualified to validate your laboratory according to your appropriate biosafety level. Facility design and operational parameters must meet the predetermined requirements by the WHO Biosafety manual prior to operation.



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- Factories
- R&D Centers
- Regional Distribution Centers

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2024-2025 Esco-Product-and-Services-Guide-Brochure_A4_vA_082223

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