

PharmaScope®

KS-340

AUTOMATED IV CHEMOTHERAPY COMPOUNDING SYSTEM



**KS-340**

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Advanced Technology for Hazardous Drug Compounding

PharmaScope KS-340 Automated Compounding System (ACS) provides an accurate, safe, and efficient sterile compounding process for the preparation of hazardous drugs with its state-of-art automation technology and safe closed system disposables.

Safety for Patients

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Accuracy

PharmaScope KS-340 ACS provides integrated gravimetric controls at each step of the compounding process and calculates final error ratio by comparing ordered and delivered amounts.

Verification & Traceability

PharmaScope KS-340 ACS ensures a traceable compounding process by recording and verifying drugs and final containers, using integrated image recognition and verification unit.

Elimination of Human-Based Errors

PharmaScope KS-340 ACS eliminates human based errors thanks to double stage labeling and barcode verification system and its smart software with auto-guidance and hard stops.

Safety for Users

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Safe Working Area

PharmaScope KS-340 ACS protects users and environment with its 100% exhausted ISO 5 class working area under Class II-B2 Biological Safety standard. It can also be integrated as a biosafety cabinet in USP and GMP compliant facilities to support their monitoring and qualification procedures.

Safe Disposables

PharmaScope KS-340 ACS prevents hazardous drug exposures and needle-based injuries by using closed system needle-free disposables.

Automated Waste Disposal

PharmaScope KS-340 ACS has an automated waste management unit which provides safe disposal with smart automation features and independent exhaust line.

Efficiency for Your Workflow

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Economy

PharmaScope KS-340 ACS provides optimum use of expensive drugs by micro priming volumes, residual drug purging and partially-used drugs usage priority features.

Flexibility

PharmaScope KS-340 ACS has a small footprint which is suitable for installation inside a standard clean room. Working capacity can be increased by adding new workstations.

Connectivity

PharmaScope KS-340 ACS is compatible to central network infrastructures and integrable to HIS/EMR through HL7 and other protocols.

PharmaScope®

KS-340

Automated IV Chemotherapy
Compounding System

COMPOUNDING UNIT

1

AIR TREATMENT UNIT

3



USER INTERFACE UNIT

2

WASTE MANAGEMENT UNIT

4

01

Compounding Unit

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Peristaltic and syringe pump units
for precise accuracy

Micro volumetric delivery as
low as 0.2 mL

Rapid fluid dispensing up to 150
mL/minute

Synchronous gravimetric control
and dose verification

IV bag, syringe and elastomeric
pump compatible fluid dispensing

Diluent pre-filling

Lyophilized (powder) drug
reconstitution and shaking

Needle-free closed system
disposables

02

User Interface Unit

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Touch screen panel with user-friendly interface

Instant monitoring and auto-guidance

Barcode verification and traceability with integrated barcode reader

Auto printout of user-defined labels with integrated label printer

Drug and final container inventory management

Security warnings and hard stops during the compounding process

Wireless network and barcode reader availability

Centralized network and internet connection availability

Remote technical support availability

03

Air Treatment Unit

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100% exhausted ISO 5 compounding area with negative pressure

ClassII-B2 biological safety cabinet (BSC) compliance

Environmental protection with H14 type HEPA filters

Ultraviolet (UV) light protection

Stand-by mode for energy saving

Various automation system indicators and warnings

04

Waste Management Unit

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Independent exhaust line to avoid hazardous exposure

Dual-stage safe door closing mechanism with non-contact sensor

Automated closing and pressing of waste container

Easy waste container loading and unloading

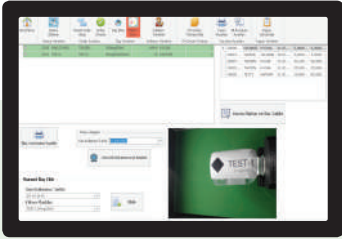
Automated load level detection

Non re-opened, auto-pressed and sealed waste containers

05

Vial Recognition and Verification Unit

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Smart image processing

Fast verification with high-resolution camera

Ideal environment with closed chamber

Compatible with all vial types

Automatic vial rotation to capture the ideal image

06

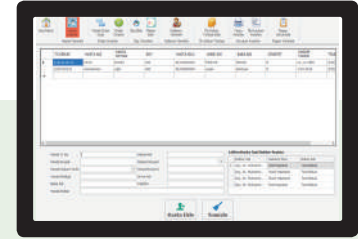


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ONCO MODULE



PharmaScope Soft provides pharmacy workflow management using a software application which is synchronous with PharmaScope KS-340 ACS and accessible from any workstation (client), enabling the user to:



Enter and search patient records and prescription orders

Review and approve pending orders (Pharmacist approval)

Reach detailed compounding activity and log reports

Assign and view automated and manual compounding queues

Configure the parameters and label design for facility needs

Monitor and manage drug and final container inventory

Printout barcodes for each vial and final container

Create multiple user accounts and assign authorization levels

Backup database either automatically or manually

Get technical support with remote connection

Automated Compounding Workflow



01

PATIENT AND ORDER ENTRY

Enter the patient and prescribed order information to PharmaScope Soft.

02

IMAGE RECOGNITION AND VERIFICATION

Record vials to database using vial recognition and verification unit.

03

LABEL PRINTOUT FOR VIALS AND FINAL CONTAINERS

Print the barcode labels of vials and final containers for tracking.

04

DILUENT PRE-FILLING OF IV BAGS

Fill the empty IV bags with needed diluent amount using compounding unit.

05

DRUG RECONSTITUTION AND SHAKING

Reconstitute and shake the powdered drugs with appropriate diluent solution using compounding unit.

06

DRUG COMPOUNDING

Transfer the needed drug dose to the assigned final container using compounding unit.

07

FINAL-LABEL PRINTOUT

Print out the final confirmation label for each final container after confirmation of successfully compounded order.

08

WASTE DISPOSAL

Dispose the vials and other waste materials safely using waste management unit.



Automated Pharmacy Compounding Solutions

- Automated TPN Compounding System
- Automated IV Chemotherapy Compounding System
- Automated Fluid Dispensing Pump
- IV Workflow Management System



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