
ISIMIX System



**AUTOMATION AND TRACKING OF THE COMPOUNDING
OF ANTINEOPLASTIC AGENTS**

by **ISITEC** Srl

ISIMIX System is composed of Compounder Modules which are compatible with the existing equipment of the Hospital Pharmacy. The ISIMIX Modules allow the preparation of multiple therapies at the time

THE ISIMIX SYSTEM UNMATCHED FEATURES



NETWORK & TRACEABILITY

ISIMIX Software allows an interface with the hospital's network and prescription software. Tracks all materials used step-wise during the preparation process and retains the data for future reference



ACCURACY

High precision in the dosage of the therapies. ISIMIX Compounder Module measures the exact quantity of drug as prescribed, through a volumetric system including a bubble detector to compensate for an equal dose of drug. A weight quality control reading on the final preparation



SAFETY

Reduces the manipulation of the Pharmacy technician minimising the exposure to antineoplastic agents. The disposable kits are equipped with fast and dry connections for the drug's vial, the diluent pouch and the patient container



REDUCED LIABILITY

ISIMIX System monitors and tracks every step in the preparation through a bar-code reader to eliminate risks of manipulation errors and reducing waste



EFFICIENCY & SAVINGS

ISIMIX System optimises the Pharmacy resources and reduces waste of drugs and medical disposable devices associated with the preparation



MODULAR

ISIMIX System being modular, the Pharmacy can tailor the configuration of number of ISIMIX Compounder Modules according to their annual preparation requirements



EASY INSTALLATION

ISIMIX System is easy to install and fits most of the existing Pharmacy clean-air hoods/cabinets thanks to its vertical design, compactness and light weight. The ISIMIX software allows a wide customisation as per the users' requirements



VERSATILITY

ISIMIX Compounder Module accepts drugs in liquid or powder and fills plastic pouches, bottles and vials, elastomeric pumps and syringes

THE ISIMIX OPERATING SOFTWARE

ISIMIX System comes with a two-level software program

Hospital Pharmacist operating software

- Defines the clean-air safety hood/cabinet of the pharmacy
- Defines the ISIMIX Compounder Modules
- Allocates each of the ISIMIX Compounder Modules to a specific clean-air safety hood/cabinet
- The programming allows assigning a single antineoplastic agent (i.e. Cyclophosphamide or 5-Fluoruracil) to a ISIMIX Compounder Module, or remain open for any prescribed drug in the worklist
- Defines the Pharmacy Technicians allowed to operate the ISIMIX System
- Defines the chemical and physical characteristics of the antineoplastic agents, their commercial drugs and diluents
- Can use vials containing the same drug type even though in different concentrations and volumes
- Defines the types of containers destined to the administration of the therapy to the patient. Especially well suited to fill elastomeric pumps

The Pharmacy Technician operating software

- All the ISIMIX Compounder Modules installed in the same clean-air safety cabinet are managed through software residing on the cabinet computer (laptop or tablet) and server, operated by the defined Pharmacy Technicians. The ISIMIX software displays the work-list of the prescribed preparations in a logical sequence which can be defined and modified by the Pharmacy Technician. The Pharmacy Technician can decide to launch a single or more preparations of different drugs at the time
- The ISIMIX Software guides the Technician in each step through a bar-code reader avoiding possible handling mistakes
- For example, after selecting a specific patient prescription from the software work-list, the Technician must associate the drug vial, diluent pouch and disposable device to a specific ISIMIX Compounder Module through the bar-code reading system to ensure that the ISIMIX Compounder Module makes the correct preparation. In the event of an error, the ISIMIX Software will not allow the preparation to proceed and will highlight an alert on the monitor of the cabinet computer



INTEGRA DISPOSABLE MEDICAL DEVICE

Ref	Description	Ref	Description
2991	Diluent set	2993	Integra Kit with 50ml syringe
2990	Integra kit with 3ml syringe	2996	Vial adapter 20mm diameter
2992	Integra Kit with 20ml syringe	2997	Vial adapter 13mm diameter



TECHNICAL DATA

- ISIMIX Compounder Module dimensions: base section 140mm x 180mm; height 450mm. Additional features adding to lateral dimensions of the ISIMIX Compounder Module: shaker +40mm (left side); weighing scale +150mm (right side)
- ISIMIX Compounder Module weight: 12Kg
- ISIMIX Compounder Module rotates on its base for easy rear access
- External Power supply unit for up to 4 ISIMIX Compounder Modules input 115/220V 50/60Hz
- Only low voltage power supply inside the clean-air cabinet to the ISIMIX Compounder Module
- Both, ISIMIX Compounder Module and Cabinet PC, connect to the Server through an Ethernet cable with a proprietary communication protocol. The cabinet PC communicates to the server through a web browser
- ISIMIX Compounder Module has a shaker motor to dilute powder into liquid with a 90° shaking stroke
- ISIMIX Compounder Module has an ultra-sound air-bubble detector as a safety feature to compensate the volume mix ratio of the antineoplastic drug
- The ISIMIX Compounder Module has a double safety reading with programmed volumetric measurements and a final control through the weighing of the final prepared solution. Both readings need to match to release the preparation

COMPLIANT TO STANDARDS & REGULATIONS

- Machinery Directive 98/37 CEE (98/392 CEE, 91/368 CEE, 93/44 CEE, 93/68 CEE)
- Low voltage Directive 72/23 CEE
- EMC Directive 89/336 CEE
- Directive 93/465/CEE in CE Mark labelling



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