

# HumaStar 80

| Compact Automated  
Clinical Chemistry Analyzer

## Clinical Chemistry



- > Easy handling
- > Proven technology
- > Unique software features

# HumaStar 80

## The First Step into Automation

### EASY HANDLING

- 20-position reagent tray to maximize the number of tests/samples at one time
- Flexibility to run single- and two-reagent chemistries
- Open system

### UNIQUE SOFTWARE FEATURES

- Programmable washing cycles between samples and tests minimizes carry-over
- Analysis of up to 54 samples at a time for walkaway convenience
- Auto-rerun with pre-dilution

### ACCURATE MEASURING SYSTEM

**Proven technology ensures accurate measurement and easy maintenance**

- 18 µl flow-cell volume for economical operation
- Auto level sensing
- High-speed movement
- Peltier-controlled flow-cell temperature
- Level sensor for wash and waste bottles



*Reagent tray*



*Sample tray*

## TECHNICAL DATA

### Measuring System

- > **Operating mode** absorbance, end-point, fixed time, kinetic, multistandard, differential
- > **Throughput** up to 80 tests/hour
- > **Light source** halogen lamp 12V 20W
- > **Spectral range** 320–690 nm
- > **Filter wavelengths** 340, 405, 492, 505, 546, 578, 630 nm, one free position
- > **Measuring range** from –0.200 to 3.200 O.D.
- > **Flow cell** 18 µl
- > **Incubation temperature** 37°C ± 0.1°C
- > **Minimum reading volume** 350 µl
- > **Typical reading volume** 500 µl

### Sample Handling

- > **Sample number** 54 positions including samples, calibrators and controls/tray
- > **Sample container** cup (1.2 ml)
- > **Sample volume** 2–200 µl (1 µl steps)
- > **Automatic dilution** pre and post dilution ratio: 1:2 – 1:20

### Reagent Handling

- > **Reagent tray** 20 bottles + 1 bottle for diluent
- > **Reagent bottle** 45 ml
- > **Reagent volume** reagent 1 volume range: 30 to 1000 µl (1 µl steps)  
reagent 2 volume range: 0 to 1000 µl (1 µl steps)
- > **Liquid detection** sensor
- > **Reagent warming** pre-heated arm
- > **Reagent identification** position ID
- > **Tray exchange** possible with reagent bottles

### Reaction

- > **Number of wells** 144 wells (12 wells x 12 strips)
- > **Well volume** 1 ml
- > **Well temperature** 37°C; ± 2°C

### Diluter

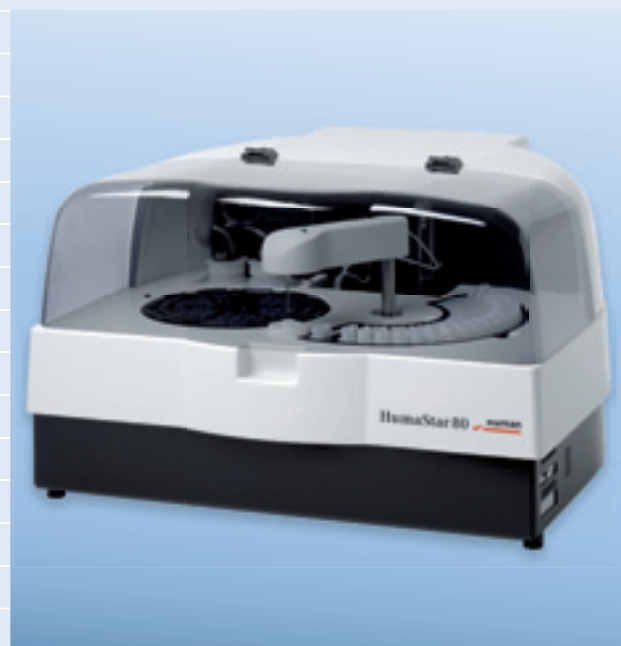
- > **Syringe** 1000 µl, 1 µl steps
- > **Accuracy** ± 1 % at 5 µl

### Software

- > **Operating system required** Microsoft Windows XP or 2000®

### General

- > **Power Supply** AC115–230 V 50–60 Hz
- > **Dimensions** 720 (W) x 680 (D) x 530 (H) mm
- > **Weight** 55 kg



HumaStar 80

Cat. No. 16880

# HumaStar 80

## ADVANTAGES OF THE HumaStar 80

- > State-of-the art technology
- > User-friendly software
- > Compact design
- > Versatile, reliable and robust

## HUMAN REAGENTS

- > Optimised for HumaStar Analyzer

