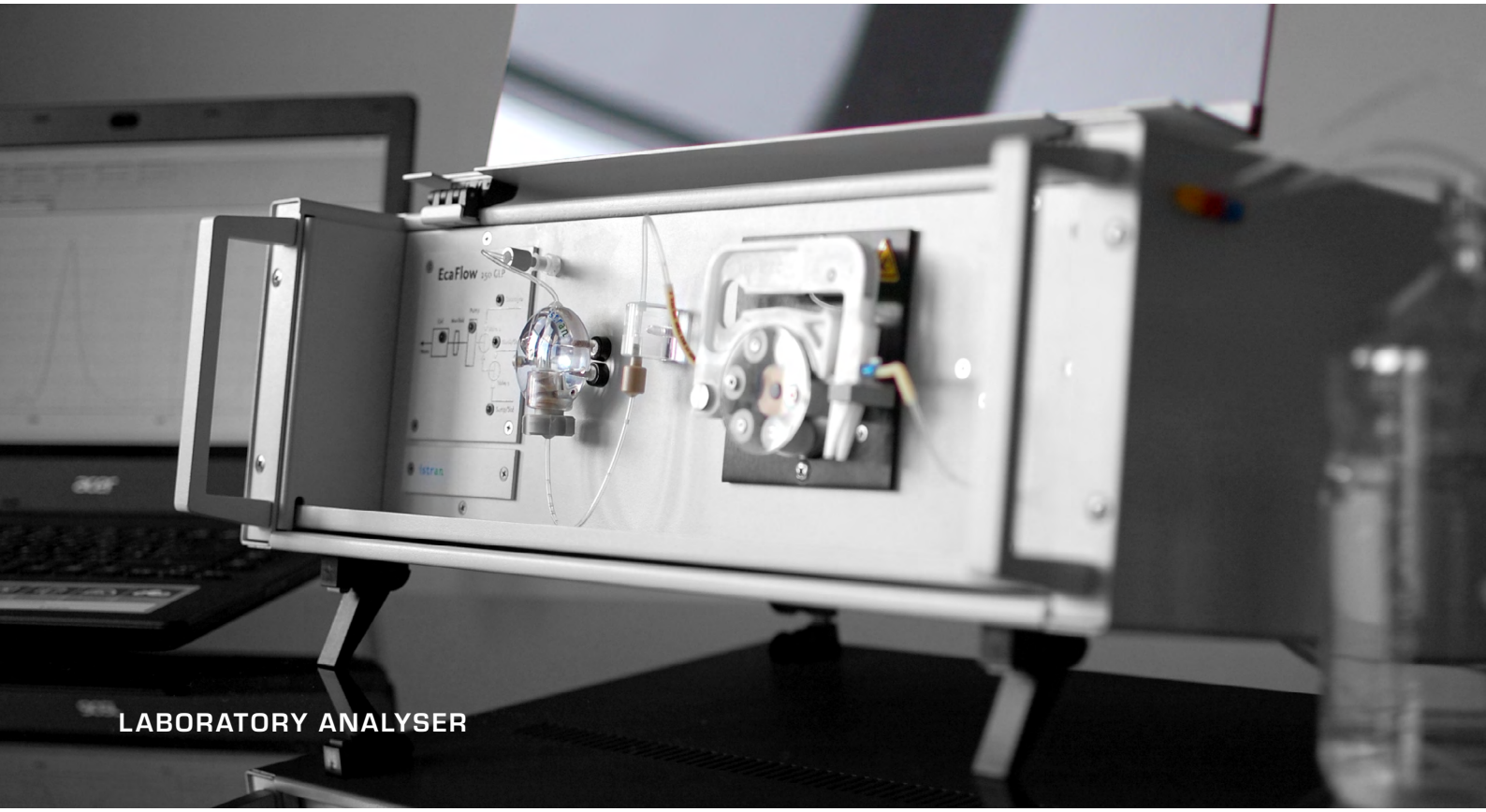
ECAFLOW 150 GLP



EcaFlow Model 150 GLP is a PC controlled automatic laboratory analyser for the determination of trace and high concentrations of metals, semi-metals and numerous non-metals in various samples. By making use of the autosampler AS-150 up to 42 samples can be analysed in full automatic mode. The system supports the standardless, calibration curve and standard additions techniques. Over 70 validated applications are available for numerous sample types such as waters, foods, industrial liquids, wastes, etc. EcaFlow is a compact laboratory instrument controlled by a PC.

The control unit contains the power support unit, control processor with a channel analyser, fast A/D and D/A converters and a high performance generic potentiostat/galvanostat. The compact flow system is controlled by the control unit and operates full automatically. It contains computer controlled electromagnetic valves for switching either to the sample solution or to an electrolyte solution or to a standard solution for the standard addition. Solutions are driven by a peristaltic pump. The heart of the system is the patented compact electrochemical cell.

The cell uses disposable flow-through working electrodes made of suitable inert material. The counter and reference electrodes are separated from the flowing solutions hydrodynamically, so the reaction products at the counter electrode cannot interfere at the working electrode. The working electrode can be easily changed simply by loosening a screw. The cell is fixed to the panel of the instrument by a special connector which serves as an electrical contact to the electrodes. The connections of the tubes are made of Luer-type fitting, which facilitates fast manipulation when the electrode or cell is changed.

TECHNICAL DATA

POTENTIOSTAT/GALVANOSTAT:
12 V / 20 mA

MEASURING CELL:
EcaCell 353c or EcaCell 104 with three electrodes

FLOW SYSTEM:
Full computer control with peristaltic pumping

WEIGHT: 7 kg

DIMENSIONS:
500 x 450 x 140 mm

SOFTWARE:
Chronopotentiometry, coulometry, voltammetry

COMPUTER (OPTION):
Any PC with Windows XP and higher

AUTOSAMPLER (OPTION):
42 positions + blank + standard

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AVAILABLE APPLICATIONS
ALL INCLUDED

1 Flow-through analyser test
3 Simultaneous determination of Cd, Pb and Cu
4 Determination of Pb
5 Simultaneous determination of Sn and Pb
6 Simultaneous determination of Pb, Cd and Hg
7 Determination of EDTA
8 Simultaneous determination of Zn, Cd, Pb, and Cu
9 Simultaneous determination of Cd, Pb, a Cu in wines
10 Determination of Ag
11 Determination of As(III) and total As in urine
12 Determination of As(III) and total As in fertilisers
13 Determination of Se in waters
14 Determination of Mn
15 Determination of Hg
16 Determination of Fe in waters
17 Determination of Sn
18 Determination of Bi
19 Determination of As in drugs
20 Determination of chlorides in waters
21 Simultaneous determination of Zn, Cd, Pb, and Cu in wines
22 Simultaneous determination of Zn, Cd, Pb, and Cu in spirits
23 Simultaneous determination of Cd, Pb, and Cu in beers
24 Determination of Fe (higher concentrations) in waters
25 Determination of Cd, Pb, and Cu in soil extracts
26 Determination of Sb
27 Simultaneous determination of Zn, Cd, Pb, and Cu in waters
28 Determination of As(III) and total As in waters
29 Determination of Zn, Cd, Pb, and Cu in pectines
30 Determination of iodides in urine
31 Determination of Au in water samples
32 Determination of low Ni contents
33 Determination of iodides in foods and beverages
34 Determination of Cr(VI) and total Cr in waters
35 Determination of nitrates in waters
36 Determination of Ascorbic Acid
37 Determination of chlorites in waters
38 Determination of bromates in waters
39 Boric acid in nickel plating baths
40 Determination of total As in waters
41 Acidimetry determination of strong and weak acids
42 Determination of Fe in concentrated sulphuric acid
43 Determination of Cu in waste waters
44 Alkalimetry determination of strong bases
45 Simultaneous determination of total As and Hg
46 Determination of Zn in galvanic baths
47 Determination of Ni in galvanic baths
48 Chlorides in galvanic baths
49 Cr(III) in passivating galvanic baths
50 Determination of phosphates with microporous electrodes
51 Determination of sub-ppb Hg concentrations
52 Determination of Zn in waste waters
53 Cu in wine samples
54 Determination of Fe in clear and turbid water samples
55 Determination of Au in ores
56 Determination of Sb in the presence of As and Cu
57 Determination of low Se concentrations
58 Sulphites in wines
59 Sulphites in beers
60 Titanium in TiO2
61 Determination of phosphates in clear as well as turbid water samples
62 Determination of total ammonia in underground and tap waters
63 Determination of total ammonia in waste waters
64 Determination of Cr(VI) in clear as well as turbid water samples
65 Determination of Ni in clear as well as turbid water samples 2-
66 Determination of sulphides (S) in waste waters
67 Simultaneous determination of Zn, Cd, Pb, and Cu in turbid samples
68 Coulometric determination of sulphides in waters
69 Acid content in wines
70 Ethanol in beverages
71 Sulphites (SO3) in foods
72 Chlorides (Cl) in foods
73 Chlorites (ClO2) in disinfected water
74 Manganese (Mn) in aquatic samples
75 Bromides (Br) in water
76 Cd, Pb and Cu in concentrated zinc sulphate
77 Simultaneous determination of Pb, Cu and Hg in waters