

# RCW 42

## MEDICAL REFRIGERATOR & ICEPACK FREEZER FOR PHOTOVOLTAIC APPLICATIONS

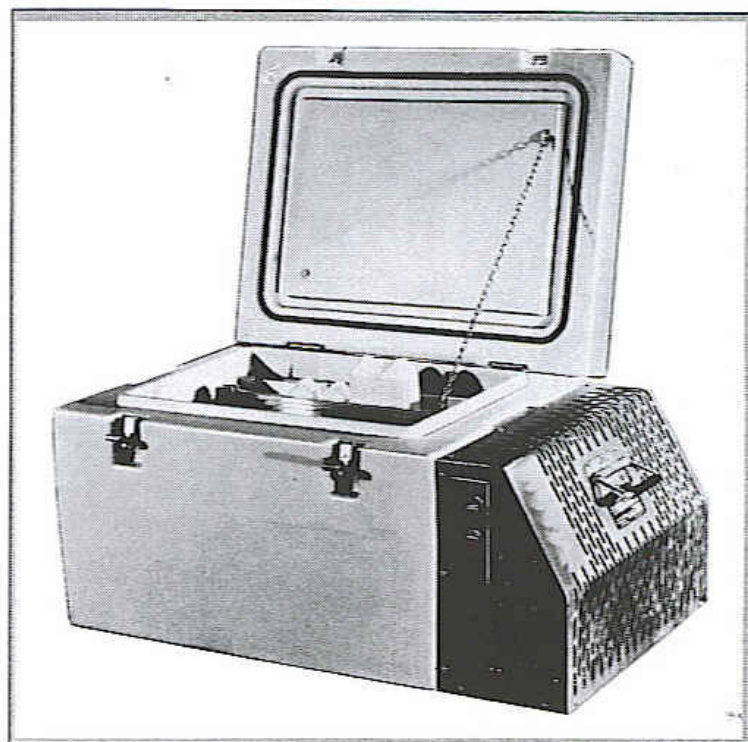
### PRESENTATION

The RCW 42 refrigerator runs exclusively on electricity and, equipped with a compressor refrigeration system, is an interesting alternative for small hospitals and health centres. The higher refrigerating capability of the compressor is especially effective in the freezing of ice-packs.

In addition to normal refrigeration there is also available a freezer compartment sufficient for 4 standard ice packs each of 0.6 litres.

An insulated partition wall is fitted between the freezing compartment and the compartment for storage of vaccines in order to prevent vaccines being cooled below 0° C.

The very low consumption of electricity due to the efficient design makes the RCW 42 highly economical to operate. It also has savings effect on investment costs on the photovoltaic generator.



### TECHNICAL DATA

◇ Operation voltage : 12, 24 V on request

◇ Outside dimensions : 97x x56 x 50 cm

◇ Weight : 40 kg

◇ Gross volume : 36 litres

◇ Net volume : 23 litres

◇ External and internal surface : polyethylene

◇ Insulation material : polyurethane foam

◇ Fittings : galvanized steel

◇ Condenser plate : steel and aluminium

◇ World Health Organisation Approved  
(EPI REF. E3/RF.4.)

◇ Energy consumption as refrigerator :

0.24 kWh/24 h at +32° C

0.32 kWh/24 h at +43° C

mini. internal temp. at + 32° C : + 2.0° C

maxi. m internal temp. at + 32° C : + 5.8° C

mini. internal temp. at + 43° C : + 2.2° C

maxi. internal temp. at + 43° C : + 7.0° C

◇ Energy consumption as freezer :

1.25 kWh/24 h at +43° C

◇ Hold over time during power cut :

8 hours at + 32° C

6 hours at + 43° C

◇ Freezing capacity : 4 ice packs of 0.6 litres each in 24 hours

### EQUIPMENT SUPPLY

A complete photovoltaic refrigerating system is composed of :

- a RCW 42 refrigerator cabinet
- a photovoltaic generator including :
  - . photovoltaic modules, with mounting structure and interconnections
  - . a charge and discharge regulator
  - . a set of specifically designed batteries for solar applications

\* Details concerning the site of operation and the climatic conditions are necessary for the sizing of the photovoltaic generator. Ask for our questionnaire.