



Sanyo MLR-350 Instruction Manual

Versatile environmental test chamber

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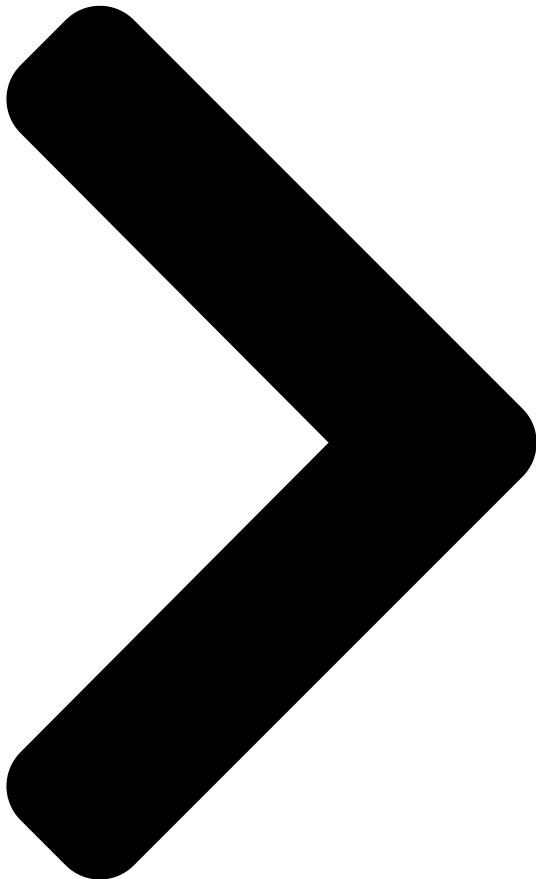
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INSTRUCTION MANUAL

- - M LR-350 /MLR-350T

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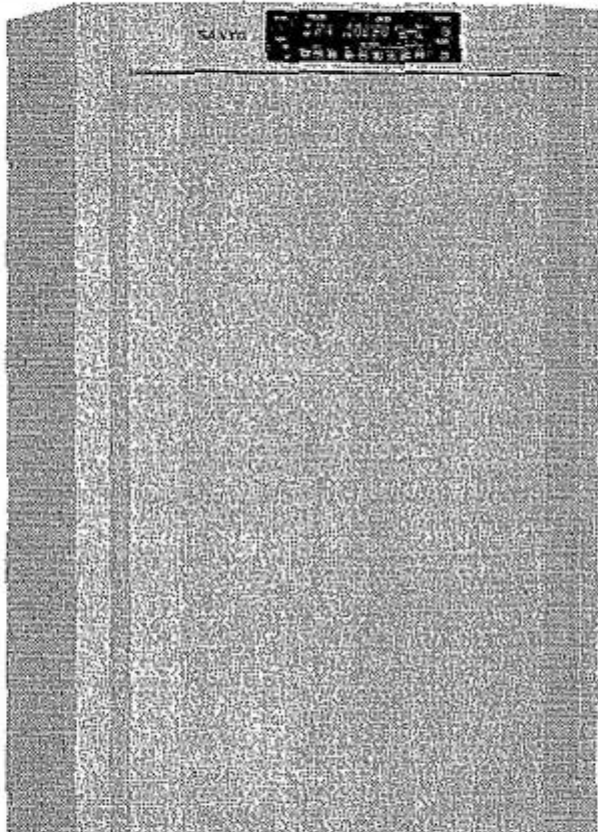
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Versatile Environmental Test Chamber

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Summary of Contents for Sanyo MLR-350

[Page 1](#) INSTRUCTION MANUAL - - M LR-350 /MLR-350T - L R-350H/MLR-350HT .I : t•H+' - so H o.ile 1e43 ',ftj, , l : M LP - -1te>1, Oite 11 i a (aJ 1 0,vtk ().v, '\$/t-j) : >II O YJD5 Mo: MLI

[Page 2](#) 1. No part of this manual may be reproduced in any form with the expressed written permission of SANYO. 2. The contents of this manual are subject to change without notice. 3. Please contact SANYO if any point in this manual is unclear or if there are any inaccuracies. SANYO Electric Co., Ltd.

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CONTENTS PRECAUTIONS FOR SAFE OPERATION P. 2 P. 6 CAUTIONS FOR USAGE P. 7 ENVIRONMENTAL CONDITIONS NAME AND FUNCTION OF PARTS P. 14 BEFORE COMMENCING OPERATION P. 15 START-UP OF UNIT OPERATING INSTRUCTIONS P. 16 Operation of control panel P.21 Program setting P.23 Defrosting...

[Page 6: Precautions For Safe Operation](#)

PRECAUTIONS FOR SAFE OPERATION [! W A R N I N G] Do not use the unit outdoors. Current leakage or electric shock may result if the unit is exposed to 1" \ Y .rain water. Only qualified engineers or service personnel should install the unit. The installation by unqualified personnel may cause electric shock or fire.

[Page 7](#) PRECAUTIONS FOR SAFE OPERATION [- ! W A R N I N G] • Make sure that the power supply to the unit is disconnected when the fluorescent light is replaced as this will prevent electric shock. •...

[Page 9: Environmental Conditions](#)

<'S. interfere with the proper lowering of temperature and lead to condensation on the outside of the hole. C (MLR-350/350T) . 17. The acceptable ambient temperature range for this chamber is -10 °...

[Page 10: Name And Function Of Parts](#)

NAME AND FUNCTION OF PARTS 1. Door When the door is closed, it 5 fluorescent lamps and 5 glow starters are incorporated inside the door. forms a perfect seal with the aid of a magnetic gasket. 2. Control panel The control panel has setting for temperature, humidity (MLR-350H and MLR-350HT only), light program and alarm.

[Page 12](#) NAME AND FUNCTION OF PARTS 6. Inner door This glass inner door minimizes the outflow of air when the cabinet door is opened. 7. Door switch When the door is opened, the chilled air circulation fan stops, minimizing the outflow of chilled air. 8.

[Page 14](#) NAM: ANU r-UNI, I IUN Ur- t'AK I 8. Unit indicator: The indicator shows the unit for displayed value. The indicator is shifted by pressing unit key. 9. Programmed operation start/stop key (START/STOP): To start or stop the displayed programmed pattern, press t his key.

[Page 15: Before Commencing Operation](#)

BEFORE COMMENCING OPERATION Installation site To operate this unit properly and to obtain maximum performance, install the unit in a location with the following conditions: 1. A location not subjected to direct sunlight Installation in a location subjected to direct sunlight may lead to inadequate cooling. 2.

[Page 17: Operation Of Control Panel](#)

■ ■ oc □ ■ ■ oc ■ ■ ■ □ ■ ■ oc Ut't:KA I INu IN I KU\, I IUN Operation of control panel In this section, temperature setting for the chamber, high/low limit temperature settings, temperature program, lighting program setting, and start/stop for programmed operation is explained. This unit's alarm function is also described.

[Page 19](#) 3. Brightness setting To maintain a constant brightness within the chamber, perform

the following setting using the keys on the control conditions External temperature: 20°C panel. Internal temperature: 25°C New fluorescent lamps (FL40SS-W/37) When the unit is in PV status (the display shows the present Measuring point...

[Page 20](#) UI""CKA I IN\;J IN I KU\, I IUNI:» ___ __,;__ 5. Setting high and low limit temperature (LIMIT) This chamber's temperature controller incorporates an automatic temperature alarm. The setting method for high and low limit temperature is shown in the table below. Adjust the setting knob with a small screw driver: Note: The high limit temperature should be set at a minimum of 5...

[Page 21](#) 6. Check mode function In SV mode, when this key and the display it e m selection key (PTN) are simultaneously pressed, this unit changes to the self diagnostic function (Check mode). See the check mode functions listed below. Function of Specific Display and Setting Function...

[Page 22](#) OPI:KA I ING INSTRUCTION5 !!-- -----:;..... L_I_P_r_o
ra_m_s_et_t_in ___ '----'---- _J 1. Programmed temperature setting First
predetermine the following figures before setting the program:...

[Page 23: Program Setting](#)

OPERATING INSTRUCTIONS 2. Lighting program setting This unit allows programmed operation for 6 lighting steps. The lighting program can be set The table below is a sample case to demonstrate the lighting independently of the temperature program. program. PTN=L Light step Turn off light o--=-,-,--,...,-,--"c----- 72 nme...

[Page 25: Remote Alarm](#)

- Alarm and security functions 1. Alarm function The alarm functions incorporated in this unit include automatic alarm functions other than over high and over low temperature settings described in 2.2 (page 12). This function operates when the temperature °...

[Page 26](#) U_M_A_11_c;_T_E ... M_P_E_RA_ _T_U_R_E_R_E_C_O_R_O_E_R
__A_U_I Name and function of parts 1.

[Page 27: Data Communication](#)

,- - ----- - DATA COMMUNICATION The data in this chamber can be transmitted as the signal from input/output port terminal located at rear upper part of the unit. REMOTE I/F (RS485) ALARM AC125V 0.4A DC 30V 2A 50Hz ...

[Page 29: Trouble Shooting](#)

TROUBLE.SHOOTING If the unit malfunctions, check out the following before calling for service. If nothing operates even when switched on Is there a power failure? Is the fuse blown or the circuit breaker inactivated? Is unit connected to the power supply? 2.

[Page 30: Specifications](#)

SPECIFICATIONS. •,! - - - - - Versatile Environmental Test Chff __, Name ✓
MLR-350/MLR-350T {lv1LR-350H/MLR-350HT J Model External dimensions W760 x D700 x
H1835 (mm) W520 x D490 x H1135 (mm) Internal dimensions Effective capacitf l29 4 Q Acrylic
finish baked on zinc galvanized st, e l...

[Page 31: Performance](#)

PERFORMANCE -.; MLR-350/MLR-350T (MLR-350H/MLR-350HT Model ° ° C to +50 C (light ON)
C to +50°C (light ON) Temperature control range ° ° ° C to +50 C /light OFF) C to +50 C /light
OFF) ----- °...

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Japan...

This manual is also suitable for:

Mir-350tMir-350hMir-350ht