

DATASHEET

Air conditioner | DRAGON 3

DRAGON 3 applications:

For 24h / 7-day test environments

Fast precise and repeatable temperature control on:
components printed circuit boards electronic devices,
modules, plastic or ceramic

Aerospace simulation

Specifications:

Temperature range from -78°C up to 250°C ($\pm 2^{\circ}\text{C}$)

Air flow control: 2,2 to 8,4l/s (8Nm³/h up to 30 Nm³/h)

Typical temperature transition rate measured at 8,4l/s,
cycling from -80° to $+225^{\circ}\text{C}$

-55°C to 125°C : approximately 7 seconds

$+125^{\circ}\text{C}$ to -55°C : approximately 14 seconds

Control:

Control panel specially designed to ease the operation
User Control at Color Touchscreen at front panel
or via remote interface RS 232 (IEEE 488 remote
interface optional)
easy maintenance help permanently displayed

Modes of operation:

Operator Mode ensures quick set-up for testing at up
to three temperatures

Cycling Mode: Utilize up to 45 thermal cycling
sequences

User-defined "At Temperature" Windows, airflow, Air or
DUT Temperature Control

Thermal Cycling Sequences: Set up to 45 cycling
routines



Regulation:

air or DUT temperature control

Temperature set, display and resolution: $\pm 0.1^{\circ}\text{C}$

Accuracy $\pm 1^{\circ}\text{C}$ (air control)

Frigorific system:

Cooling ensured by double cascade compressors with
air cooled condenser with filter and safety pressure
switch

HCFC and HFC free, non-flammable refrigerant gases
according to international regulation

Dimensions:

Size (H x W x D): 1040 x 900 x 700 mm

Weight: 250 Kg

Electric arm:

Arm rotation: 270°

Head rotation: 180°

Thermal head raising and lowering: Pneumatic control;
also, electrically adjustable

Included:

glass cylinder
standard nozzle N°7 and silicon foam sheet
Air dryer unit (dewpoint -80°C)

Requirements:

Power supply: 230 V - 50 Hz - 32A
Compressed air supply: flow 35 Nm³/h - 6 bar
<pressure <10 bar - Temperature 25°C - Dewpoint <2°C
Ambient air < 30°C - Humidity < 70%

Aftersales insured by FROILABO in and out of
warranty period

Device designed and made in France (Meyzieu 69)