

# RAYPA

Leading  
Lab Technologies

 Incubation and drying

## **FORCED AIR DRYING OVENS** DAF SERIES

UNIFORMITY AND PRECISE  
TEMPERATURE CONTROL  
FOR A WIDE RANGE  
OF APPLICATIONS



# Forced air drying ovens

## Incubation, heating, drying, sterilization and scientific experiments.

The brand new DAF Series are precisely regulated by a digital PID microprocessor and controlled by a 3.5" touchscreen. These forced air ovens have a user friendly design, easy maintenance and great temperature uniformity to cover a wide range of applications in all types of environments.



## INTENDED USE

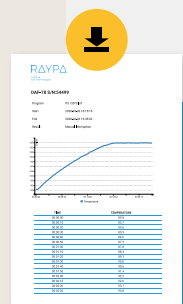
- + DRYING AND STERILIZATION OF SAMPLES IN INDUSTRIAL AND RESEARCH ENVIRONMENTS OF THE CHEMICAL AND TECHNOLOGY SECTOR
- + DRYING OF VARNISHES AND COATINGS WITH SOLVENTS
- + AGEING TESTS
- + SCIENTIFIC RESEARCH

## FEATURES

- Forced air drying and sterilization.
- Temperature range from room temperature +5°C to 250°C.
- Heating by electric elements mounted in an independent chamber for optimum temperature homogeneity and stability, air circulation by a self-cooled tropicalized electric motor with a stainless steel turbine.
- Temperature and time controlled by digital PID microprocessor, with 10 editable programs of customizable name, programmable with up to 10 temperature/time segments.
- Timer start and Timer stop adjustable by date, hour and minute.
- Intuitive alphanumeric 3,5" LCD touchscreen user interface user interface that displays time, temperature and cycles in graphs, has audiovisual alarms and advanced cycle and timer programming.
- Ethernet connection that allows the use of the online **RAYPanet** platform to view and export cycles, generate reports and simultaneously manage different equipment.
- Double insulated walls and door with low conductivity glass wool.
- Temperature probe Pt100 class A.
- Standard rear adjustable aeration device plus lateral in DAF-43/78/135 or superior in DAF-250/425/635 for moisture evacuation and external probe access.
- Easy to clean external metallic frame with epoxy resin coating.
- Inner frame, second chamber, inner side of door and perforated trays made of stainless steel AISI-304
- Elastic silicone gasket.
- Only for DAF-425 and DAF-635: Two-leaf door and 4 swiveling casters with brakes.
- Available under special orders the adaptation with bacteriological filter in the inlet and/or outlet air for clean rooms or biohazardous applications.



## RAYPAnet NEW ONLINE DATA PROCESSING PLATFORM



All incubation and drying equipment have a Ethernet connection that allows the use of the **RAYPAnet** online platform on a PC to view and export all the information of the cycles with graphs and all the relevant data, with the ability to export data reports.



All cycle data can be viewed on the platform in real time or through the cycle history registry. Furthermore, all data can be exported in .csv and .pdf file formats for later consultation, study and storage.



The platform is compatible with all web browsers and multiple equipment can be connected and controlled simultaneously.



**Touchscreen microprocessor detail.**

## NEW MICROPROCESSOR FOR ALL INCUBATION AND DRYING EQUIPMENT



Intuitive alphanumeric user interface through a 3,5" LCD touchscreen that allows the display of time, temperature and cycle evolution in graphic format in real time.



Compatible with Celsius or Fahrenheit scales with a resolution of 0.1°C/°F.



Capable of advanced cycle and timer programming, with up to 10 preset programs editable in parameters and name, programmable at a fixed temperature during an infinite time or with up to 10 time and temperature segments. Timer start and timer stop customizable by date and time.



Audiovisual security alarms for cycle finalization, probe failure, heating error, overheating and temperature out of range.

# Forced air drying ovens

## Internal air circulation and moisture removal scheme

**Air flow path.**

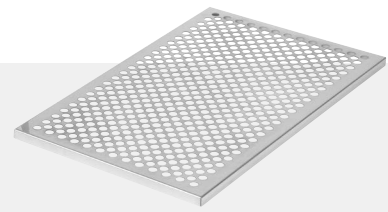
**Moisture evacuation scheme**

Holes for the evacuation of the moisture produced in the chamber and as an access port for external probes.

DAF-43, DAF-78 and DAF-135 models:  
Posterior and lateral holes.

DAF-250, DAF-425 and DAF-635 models: Single top hole.

## Accessories



### PERFORATED TRAYS MADE OF STAINLESS STEEL AISI-304

Reference	BE-43	BE-78	BE-135	BE-250	BE-425	BE-635
Oven model	DAF-43	DAF-78	DAF-135	DAF-250	DAF-425	DAF-635
Maximum number of trays	6	9	9	15	19	23
Number of trays supplied	2	2	2	2	2	2
Dimensions L x D mm	443 x 270	425 x 345	575 x 450	574 x 520	775 x 510	975 x 510



**BACTERIOLOGICAL FILTER**  
Bacteriological filter of 0.22µm for inlet and exhaust air.  
Reference: FIL-DAF



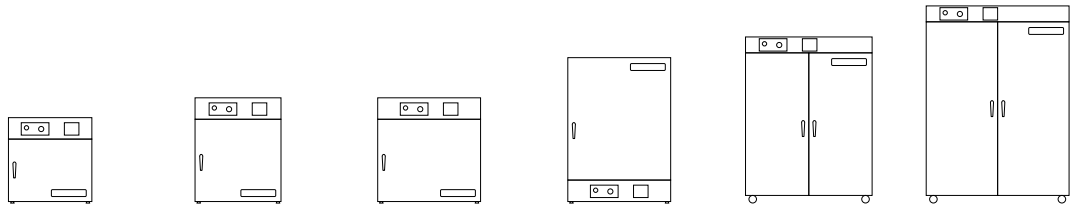
**LOCKABLE HANDLE**  
Lockable door protects samples from unauthorized access.  
Reference: MCLL



**DOUBLE GLASS EXTERIOR DOOR**  
Double tempered glass door under request.

## TECHNICAL DATA

### Dimensions and performance



Reference	DAF-43	DAF-78	DAF-135	DAF-250	DAF-425	DAF-635
Capacity L	43	78	135	250	425	635
Stability %	±0,1	±0,1	±0,1	±0,1	±0,2	±0,2
Homogeneity %	±1,5	±1,5	±1,5	±1,5	±2,5	±2,5
Resolution °C	0,1	0,1	0,1	0,1	0,1	0,1
Internal dimensions L x D x H mm	450 x 290 x 330	430 x 354 x 500	580 x 450 x 500	600 x 600 x 800	800 x 600 x 1000	980 x 600 x 1200
External dimensions L x D x H mm	660 x 420 x 620	640 x 550 x 790	790 x 600 x 790	740 x 750 x 1100	950 x 792 x 1270	1150 x 792 x 1470
Power W	1500	1500	1500	3000	3000	3000
Voltage* V	230	230	230	230	230	230
Weight Kg	45	58	85	115	203	258

\* Also available with a voltage of 115 V.

### Specifications

Reference	DAF-43	DAF-78	DAF-135	DAF-250	DAF-425	DAF-635
Braked wheels	-	-	-	-	✓	✓
Externals doors	1	1	1	1	2	2
Usb and ethernet connection	✓	✓	✓	✓	✓	✓

✓: Included

### Supplied with

- 2 perforated trays made of stainless steel AISI-304 adjustable in height, with anti-tilting system.
- Access to the online platform **RAYPanet**.

### Safety

- Audiovisual security alarms: end of cycle, probe failure, heating error, overheating and temperature out of range.
- Manual push-button that governs all the oven circuits and lights up when activated.
- Manually adjustable class 2 hydraulic safety thermostat that interrupts heating in case of failure of the main regulator. Thermostat is accompanied by a push-button to reset the thermostat and a immobilization device that immobilizes the thermostat knob to avoid involuntary displacement. Thermostat's correct operation is displayed by a warning light that lights up after proper rearming.
- Stainless steel interior and corrosion-resistant easy-to-clean metallic exterior that remains at safe temperature without overheating.
- Door lock protects samples from unauthorized access (optional accessory: MCLL).
- Homogeneity and temperature stability according to DIN 12880 regulation.
- Safety according to EN 61010-1 and EN 61010-2-010 regulations.
- **Warning:** equipment not adapted to ATEX directive. Not compatible with samples that release flammable gases or vapors that may be explosive.

+ info



Find out more about our **DAF Series** ovens on our **Youtube Channel**



**CLICK!**  
ACCESS  
THE DAF  
SERIES  
VIDEO



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