Reliability, efficiency, performance

FRANCE ETUVES



www.france-etuves.com

XFM RANGE

VACUUM OVENS up to 10^{-2} mbar (absolute)

VACUUM OVENS XFM up to 200/250 °C and 10^{-2} mbar

XFM vacuum ovens are suitable for sensitive product drying applications, outgassing, thermal treatments of oxidizable materials, quick drying of powders and granulates...

Robust construction for lasting performances.

Exterior made of steel coated with blue and white epoxy paints.
Inner casing made of stainless steel, corrosion resistant.
Rounded corners and removable racks allow easy cleaning. Low surface temperature, low energy consumption.

One device, complete management !

The oven is controlled by a 5.7 "color touch screen controller. Very intuitive and easy to use. Automatic control and real-time monitoring of temperature and vacuum level.
Several modes of vacuum regulation (set value, max vacuum, ...).
The oven can be controlled via a PC with an RJ45 cable.

Reliable temperature on your products.

Heating is ensured by heating elements located on outer faces of the inner casing for best homogeneity. 1 probe fixed on the side, 1 other is mobile to be integrated on your product. The controller automatically adjusts the temperature of the walls for a perfect precision on your products.



Work safely.

Adjustable safety thermostat. Protection class 3.1. Visual and audible alarm. It cuts heating and it supports the temperature control in case of failures.



Easy temperature measurements !

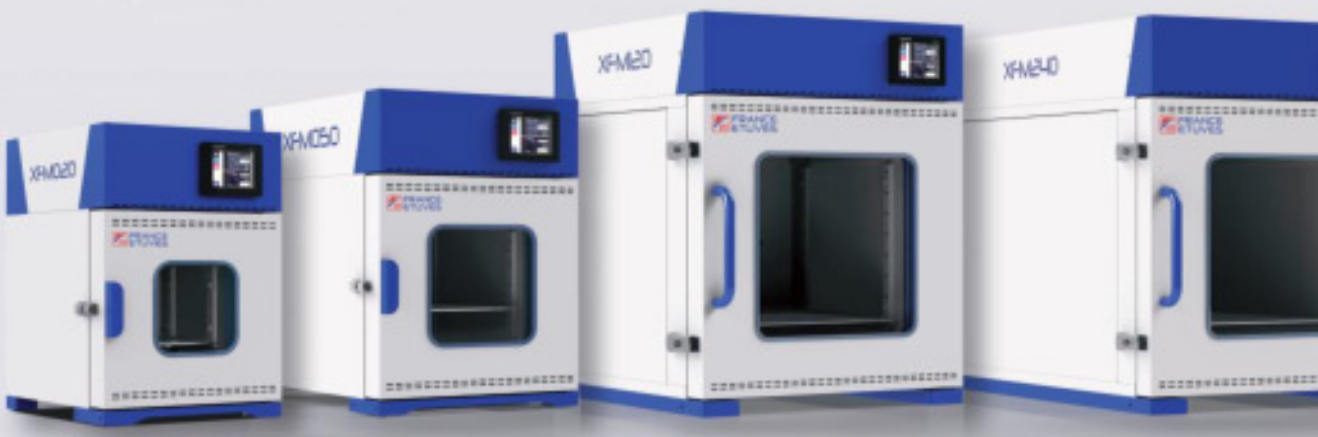
An entry port allows to insert up to 4 probes.

Easy loading and unloading.

1 tray provided. Aluminium tray with anti-tilting guide bars.
Multiple load levels.

A reliable connection of your vacuum pump.

The electrical connection of the vacuum pump is made directly to the back of the oven.
A KF-type connector allows the air to be pumped and a nipple ensures air release.



XFM020 XFM050 XFM120 XFM240

OPTIONS



2 Temperature + vacuum profiler



3 Door gasket made of Viton

1 Temperature extension max. 250°C

2 Temperature + vacuum profiler
4 programs with 16 steps each.
Allows the creation of temperature and vacuum programs.

3 Door gasket made of Viton
Replacement of the silicone door gasket by a gasket made of Viton (limited to 200°C).

ACCESSORIES



1 Tray with guide bars



2 Vacuum kit



3 Subframe



4 Data logger with 2 channels



5 Portable paperless recorder with graphical screen



6 Probe shutter



7 Thermocouple J probe

1 Aluminium tray with guide bars
Max distributed loading 30 kg. With 2 anti-tilting guide bars.

2 Vacuum kit
Oil sealed vacuum pump with 1 m flexible hose and oil filter.

3 Subframe (except XFM320 and XFM512)
Elevates the oven for a better loading comfort. Safety glass in the front. Clever storage of the vacuum pump inside.
- subframe with height adjustable feet
- subframe with castors (2 with brakes)
- subframe with height adjustable feet (especially for XFM320 and XFM512).

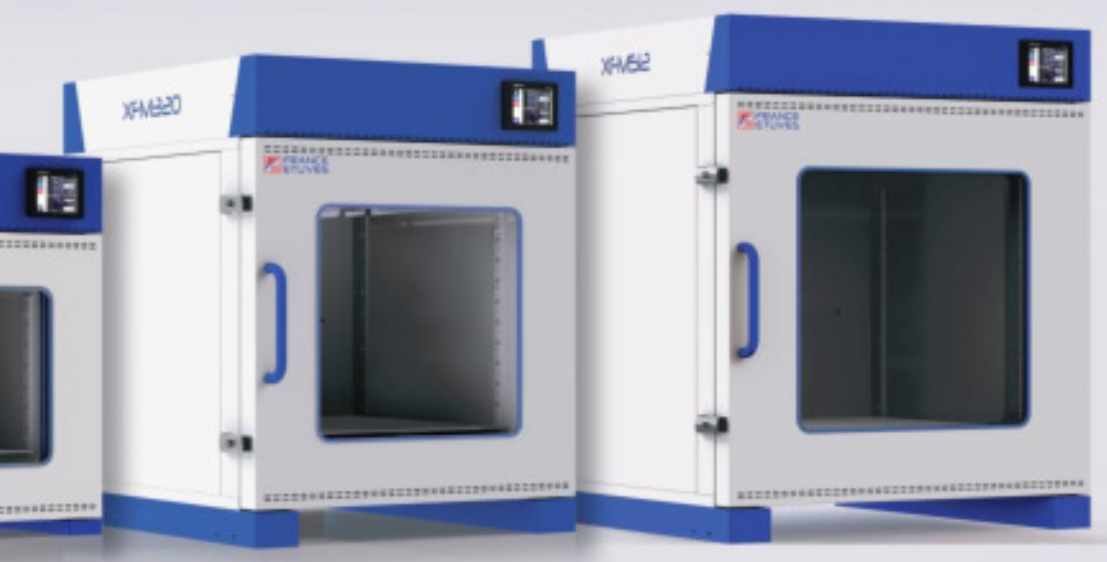
4 Data logger with 2 channel
Saves the temperatures measured by 2 mobile sensors.

Software for data logger with 2 channels
Can set data logger and retrieve stored data on a PC.

5 Portable paperless recorder
Color graphical display for real monitoring of temperature changes. With USB and RJ45 plugs, and 4 connectors for mobile sensors.

6 Probe shutter
To be placed in the DN16 entry port to insert up to 4 probes (not included).

7 Thermocouple J probe
Stainless steel. Length of 2m. With plug. To be placed in entry port DN16.



XFM320 XFM512

TECHNICAL DATA

	XFM020	XFM050	XFM120	XFM240	XFM320	XFM512
Working volume (L)	20	51	110	220	316	512
SIZES						
Internal width (mm)	250	320	470	470	650	800
Internal depth (mm)	320	500	500	1000	750	800
Internal height (mm)	250	320	470	470	650	800
External width* (mm)	510	580	800	800	992	1130
External depth* (mm)	585	765	820	1320	1095	1150
External height* (mm)	715	785	1000	1000	1230	1330
External height* with subframe (mm)	1480	1550	1765	1765		1735
Weight, empty (kg)	60	85	170	235	315	370
PERFORMANCES						
Temperature range (°C)	Ambiant + 20°C up to 200°C (250°C optional)					
Temperature fluctuation (+/- °C)	< 0.2					
Vacuum range (mbar)	up to 10^{-2} (absolute pressure)					
Sensor type	Piezo					
Vacuum control accuracy*** (%)	+/- 2					
Pumping connector	DN25 KF	DN25 KF	DN25 KF	DN25 KF	DN25 KF	DN25 KF
Vacuum breaking connection	Nipple-Hose Ø4	Nipple-Hose Ø4	Nipple-Hose Ø7	Nipple-Hose Ø7	Nipple-Hose Ø13	Nipple-Hose Ø13
ELECTRICAL DATA						
Heating power (W)	800	1200	2400	3600	6000	9000
Electrical supply	230V ~1P 50Hz				400V ~3P +N 50Hz	
Amperage connection (A)	16	16	16	20	16	20
LOADING TRAYS						
Number of trays provided / max. in the oven	1 / 4	1 / 5	1 / 8	1 / 8	1 / 11	1 / 15
Trays sizes (LxP) (mm)	224x280	294x460	444x460	444x960	624x710	772x760
Trays sizes (working surface) (LxP) (mm)	216x280	285x460	436x460	436x960	614x710	768x760
Max. weight on a tray / max. in the oven (kg)	30 / 60	30 / 60	30 / 90	30 / 90	30 / 120	30 / 200

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