



Industrial Heating Equipment

sat

The heat treatment expert
in forced air convection since 1953



Industrial furnaces

Industrial Ovens & Furnaces

Standard range



- 15 standard sizes from 200L to 12 m³
- From 300° to 650°C
- Heating with every kind of energy : Electricity, gas, FOD steam (...)
- **Every process**
Every industrial sector
- Temperature uniformity expertise through the **Turbo-Convection !**



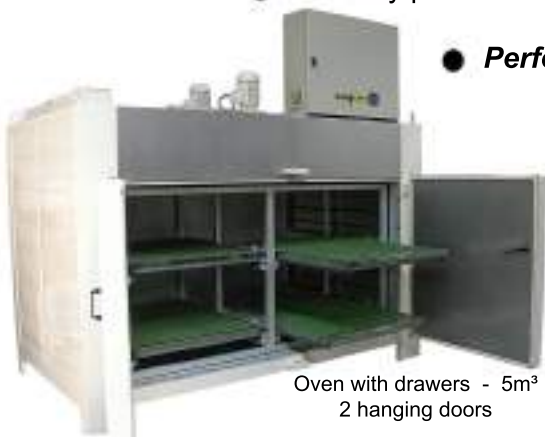
Ovens 350°C - 420L with vertical lift doors

Every process

Baking, debugging, degassing, drying, preheating, polymerization, stabilization, sterilization, sintering, tempering, testing, vulcanization (...)

Tailor-made range

- Comply with the most stringent standards ATEX, AMS 2750D, Nadcap (...)
- Maximum safety level for operators
- Friendly process control system
- **Perfect oven waterproofness !**



Oven with drawers - 5m³
2 hanging doors

They trusted us !

LIEBHERR AEROSPACE, AIR FRANCE, BOIRON, CIAT, PSA, EADS, EUROCOPTER, FREUDENBERG HUTCHINSON, LISI AEROSPACE, MICHELIN, PLASTIC OMNIUM, SAINT GOBAIN, SALOMON, SCHNEIDER, SEW USOCOME, SNC, STAUBLI FRANCE, TEFAL, THALES, TRELLEBORG, TURBOMECA, NTN SNR, SKF (...)

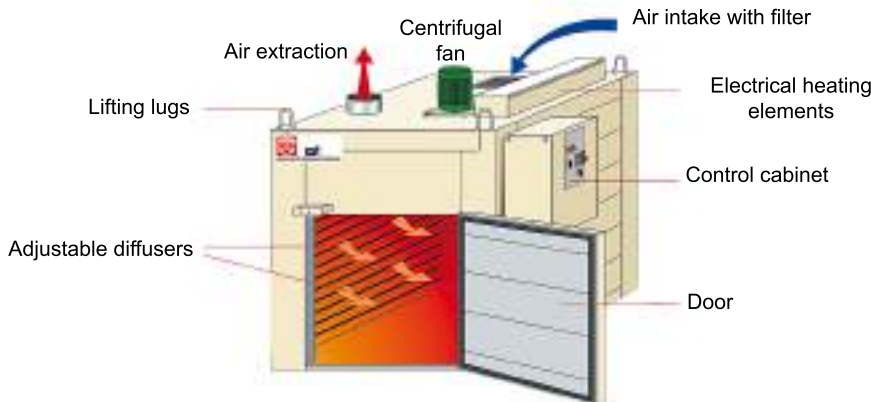
| Norma SAT's Technical characteristics | | Options |
|---------------------------------------|--|---|
| Heating | Electric | Gas, FOD (direct or exchanger), steam, thermal fluid |
| | Inside walls: | Inside walls: stainless steel |
| Construction and protection | Aluminium coated steel up to 450°C / Stainless steel up to 550°C | Inside waterproofness through wall soldering |
| | Outside walls: Electroepoxyphosphated coated steel | |
| | Colour: RAL 1013 Ivory | Other colours |
| Thermal insulation | Mineral rock wool | |
| | 250°C and 350°C: 120 mm thick / 450°C and 550°C: 250 mm thick | |
| Temperature regulation | Electronic regulator with digital display | Any other type of regulator / Safety regulator |
| Inside air flow | Forced warm air convection through centrifugal fan | In compliance with aeronautical norms (ANS 2750D, Nidcap...) |
| | Blowing in the useful volume, in horizontal flows through adjustable diffusers | Blowing in vertical flows |
| Extraction | Natural with manual adjustment | Forced with motorized adjustment |
| Process control programming | | Timer or numerical controller |
| | | Doct |
| Recording | | PLC Control |
| | | On circular diagram - On paper folder |
| | | On USB key or PC - On video |
| Rails | | Adaptable on every "on the ground" models on specific request |
| Doors | 1 or 2 hanging doors | Vertical lift doors |
| | | Lateral movement |
| Other specific adaptations | | Observation windows, inspection doors, interior arrangements, specific loading/unloading devices, explosion-proof equipments (ATEX norms), heating regulation on thyristors, air filtration ... |



Norma SAT
2 hanging doors



3 security point closing



Insulated extractor

| Volumes | 200 L | 420 L | 1 m³ | 1 m³ | 1,5 m³ H | 2 m³ | 2,3 m³ | 2,7 m³ | 3,5 m³ | 4 m³ | 5,4 m³ | 7 m³ | 8 m³ | 10 m³ | 12 m³ |
|---------------|--------------------|-------|-------|-------|----------|-----------------|--------|--------|--------|-------|--------|-------|-------|--------|--------|
| Free standing | X | X | X | | | | | | | | | | | | |
| On ground | | | | X | X | X | X | X | X | X | X | X | X | X | X |
| Width | 550 | 750 | 1000 | 1000 | 1000 | 1250 | 1500 | 1500 | 1500 | 1500 | 1750 | 1750 | 2000 | 2000 | 2000 |
| Height | 500 | 750 | 1000 | 1000 | 1500 | 1270 | 1500 | 1770 | 1500 | 1770 | 1770 | 1770 | 2020 | 2020 | 2020 |
| Depth | 750 | 750 | 1000 | 1000 | 1000 | 1250 | 1000 | 1000 | 1500 | 1500 | 1750 | 2250 | 2000 | 2500 | 3000 |
| 550°C | | | | 36 kW | 36 kW | 48 kW | 48 kW | 48 kW | 60 kW | 60 kW | 72 kW | 84 kW | 90 kW | 102 kW | 120 kW |
| 450°C | 12 kW | 24 kW | 24 kW | 24 kW | 24 kW | 36 kW | 36 kW | 42 kW | 48 kW | 48 kW | 60 kW | 66 kW | 78 kW | 90 kW | 96 kW |
| 350°C | 6 kW | 12 kW | 12 kW | 12 kW | 18 kW | 24 kW | 24 kW | 30 kW | 36 kW | 36 kW | 48 kW | 48 kW | 60 kW | 66 kW | 78 kW |
| 250°C | 6 kW | 12 kW | 12 kW | 12 kW | 18 kW | 18 kW | 18 kW | 24 kW | 24 kW | 24 kW | 36 kW | 36 kW | 48 kW | 48 kW | 54 kW |
| Doors | 1 hanging door | | | | | 2 hanging doors | | | | | | | | | |
| | Vertical lift door | | | | | | | | | | | | | | |

Power: informative indications