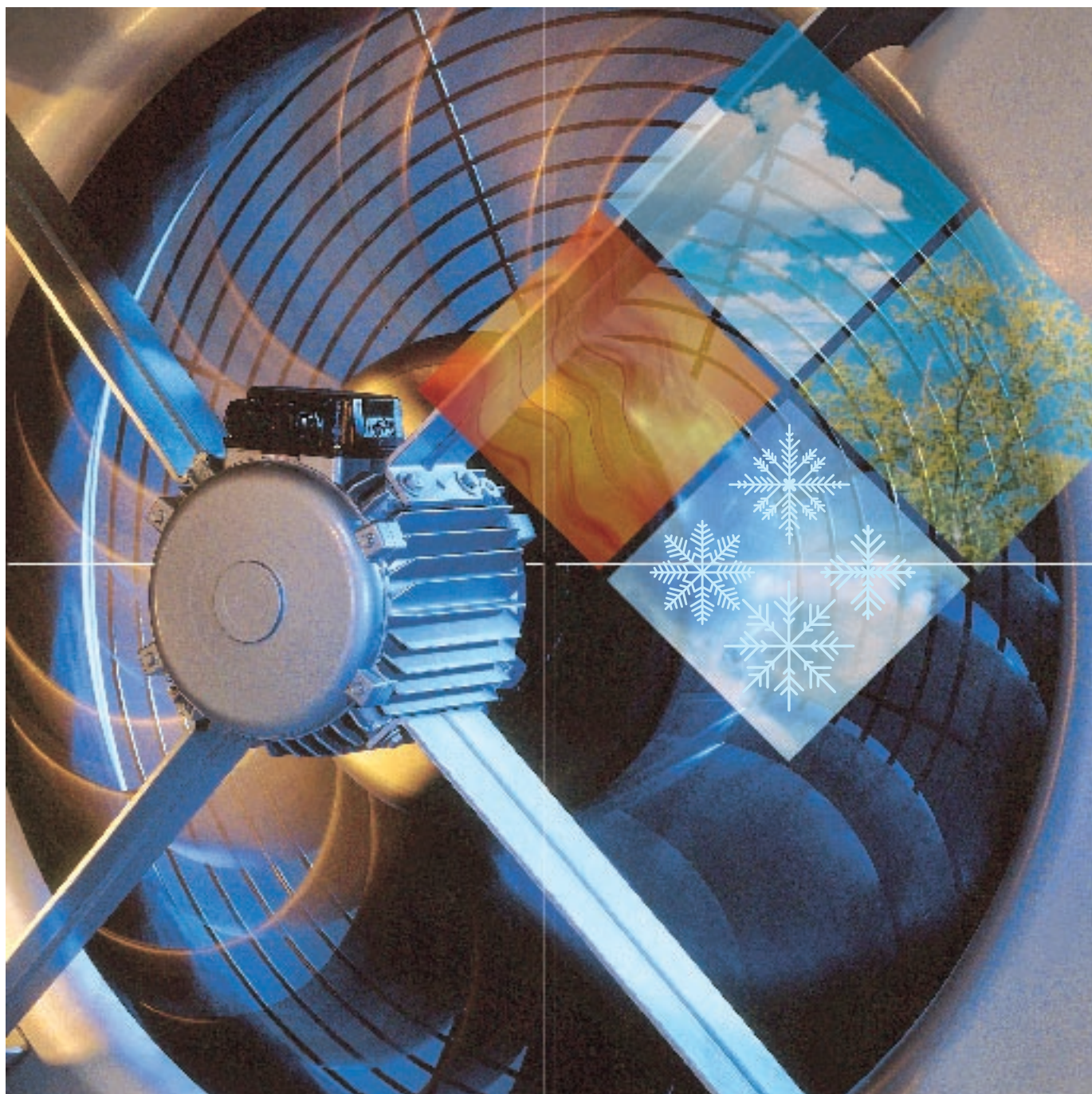




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**MOTORS FOR HEATING,  
VENTILATION, AIR CONDITIONING**



# STRENGTH OF OUR KNOW-HOW

## Motors for centrifugal and axial fans

LEROY-SOMER, the world leader in drive systems, offers a very wide range of electric motors for all centrifugal and axial fan applications.

From standard motors to special motors with fixed or variable speeds, LEROY-SOMER designs solutions sought after by specialist manufacturers for applications such as air heaters, ovens, dryers, extraction towers, air



treatment chambers, evaporators and condensers for refrigeration (static and mobile), filters, pneumatic transports, etc.

Ventilation is no simple art, but LEROY-SOMER engineers are familiar with both the techniques and the language of this domain.

As a result, your needs are quickly understood from the outset of the project and optimised solutions are put forward.

LEROY-SOMER ventilation laboratory  
AMCA\* chamber



LEROY-SOMER has worked in partnership with customers over a long period of time to optimise the combined motor and fan. In ventilation applications, the motor is actually cooled directly by the fan it is driving. The AMCA chamber is used to characterise the air movement

(flow/pressure curve) and acoustic performance for fans with flows of up to 30,000m<sup>3</sup>/hr, ie. equivalent to axial fans with a diameter of 900 mm. It can also be used to simulate the actual motor load in order to optimise it.

\* Air Movement and Control Association

# STRENGTH OF OUR SERVICE

## CHOICE OF SELECTION TOOLS



### Technical catalogues

Detailed information on selection, construction, and operation

### Catalogue for Industry on line

Selecting motors on short delivery: Guaranteed Availability

@ Internet site  
[www.leroy-somer.com](http://www.leroy-somer.com)

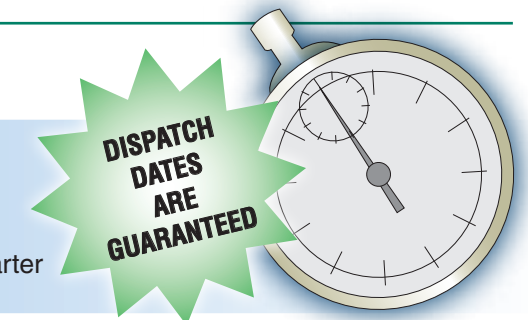


### Configurator V4 on line

- Product selection in thirteen languages
- Printing of a technical specification with dimensional drawings in all languages
- Generation of CAD file in 2 D and 3 D with viewer and dimensioning tool

## CHOICE OF DELIVERY TIMES

- For Guaranteed Availability products: 24 hours
- For products from Fast Assembly Centre: 48 hours
- For Rush products: 12 working days
- For other products: possibility of a customer-specific delivery charter

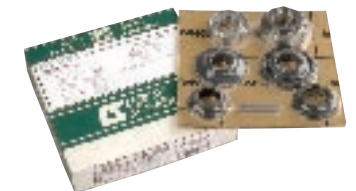


## COMPREHENSIVE REPAIR SERVICE



Our Integrated Spares Service is a comprehensive system which can supply you with design office approved spare parts kits, or train your staff in repair techniques.

LEROY-SOMER helps you prepare for the unexpected, offering emergency repair kits so that repairs can be carried out 24 hours a day, 7 days a week.



## WORLDWIDE PRESENCE

470 Sales and  
Service points





# A LEROY-SOMER SOLUTION....

## HEATING

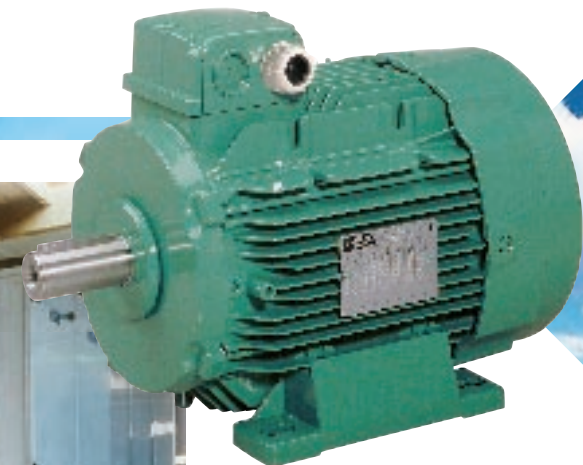
*Air heaters, etc*



- **HE compact motors**  
for axial fans  
Ventilated by the air flow  
0.06 to 1.5 kW
- **LS, FLS, LSES, FLSES motors**  
Complying with standard IEC 34.1,  
high-efficiency Eff2, Eff1
- **CF/CM pad mounting motors**

## AIR TREATMENT

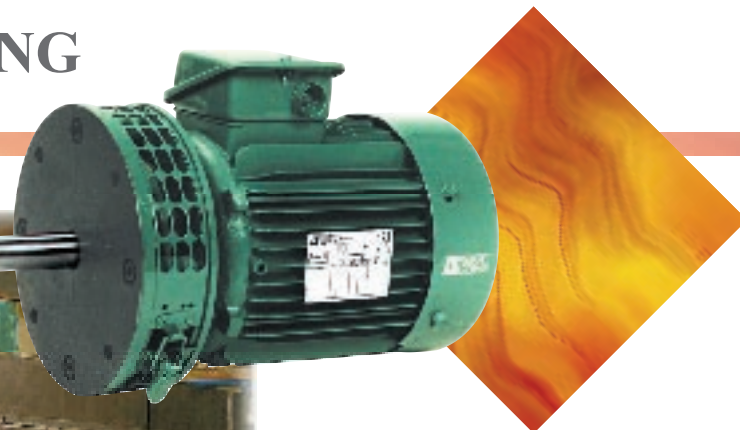
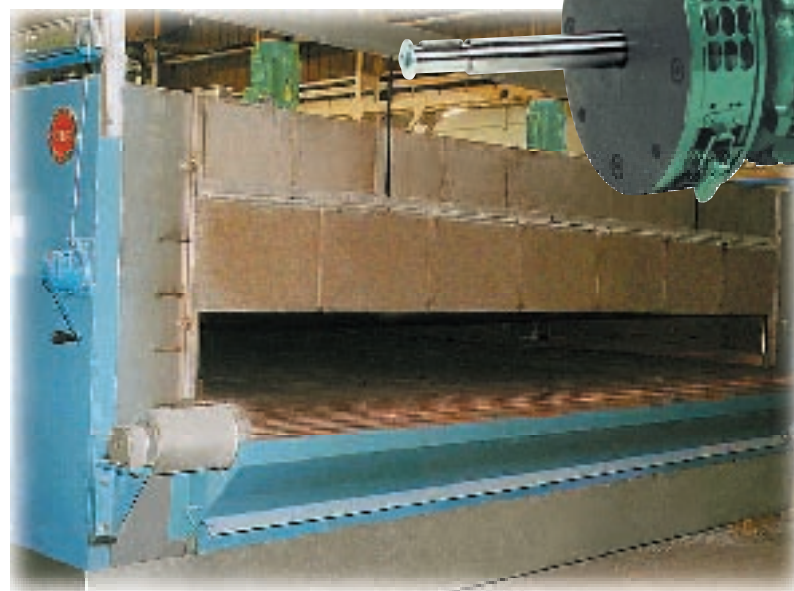
*Chambers, Extraction towers, etc*



- **LS, FLS, LSES, FLSES motors**  
Complying with standard IEC 34.1,  
high-efficiency Eff2, Eff1  
Aluminium or cast iron frame  
Ventilated or non-ventilated  
Single-speed or multi-speed  
Optional thermal protections  
0.09 to 750 kW

## DRYING and STOVING

*Ovens, Drying ovens, Dryers, etc*



- **LS high-temperature motors**  
for ovens  
Fitted with heat shields  
Mounted outside the oven  
0.12 to 15 kW
- **LS high-temperature motors**  
for dryers or drying ovens  
Mounted inside the oven  
Aluminium or cast iron frame  
Ambient temperature from 85 to 150°C  
0.55 to 55 kW

## SAFETY VENTILATION

*Fires, Explosive atmospheres, etc*



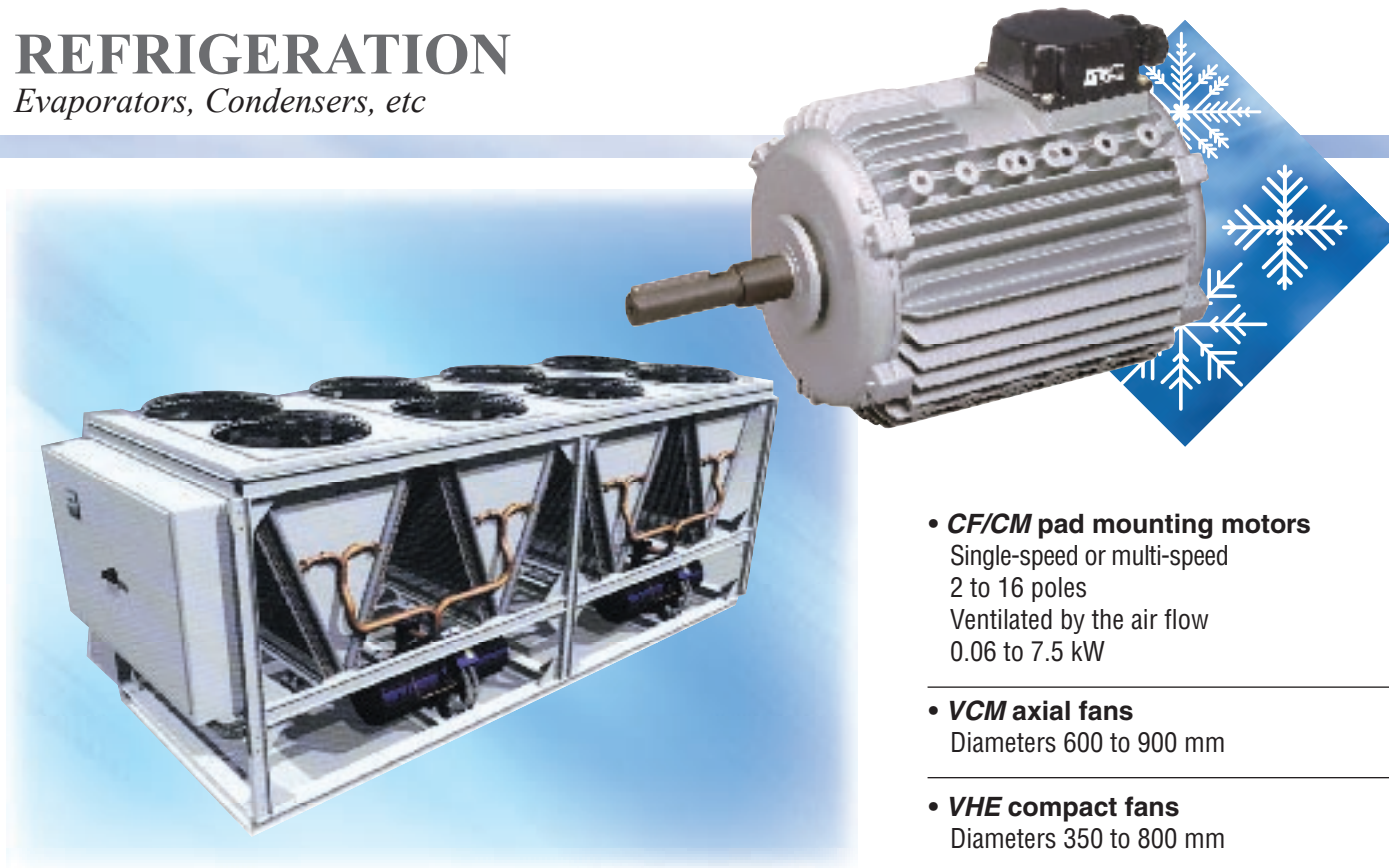
- **LSHT / FLSHT motors**  
for smoke extraction  
From 200 to 400°C, 60 to 120 minutes  
0.4 to 500 kW
- **LSPX, LSPX-FAP, FLSPX motors**  
for dusty explosive atmospheres
- **FLSD, LSE, FLSE, LSN, FLSN motors**  
for gaseous explosive atmospheres



# FOR EVERY APPLICATION

## REFRIGERATION

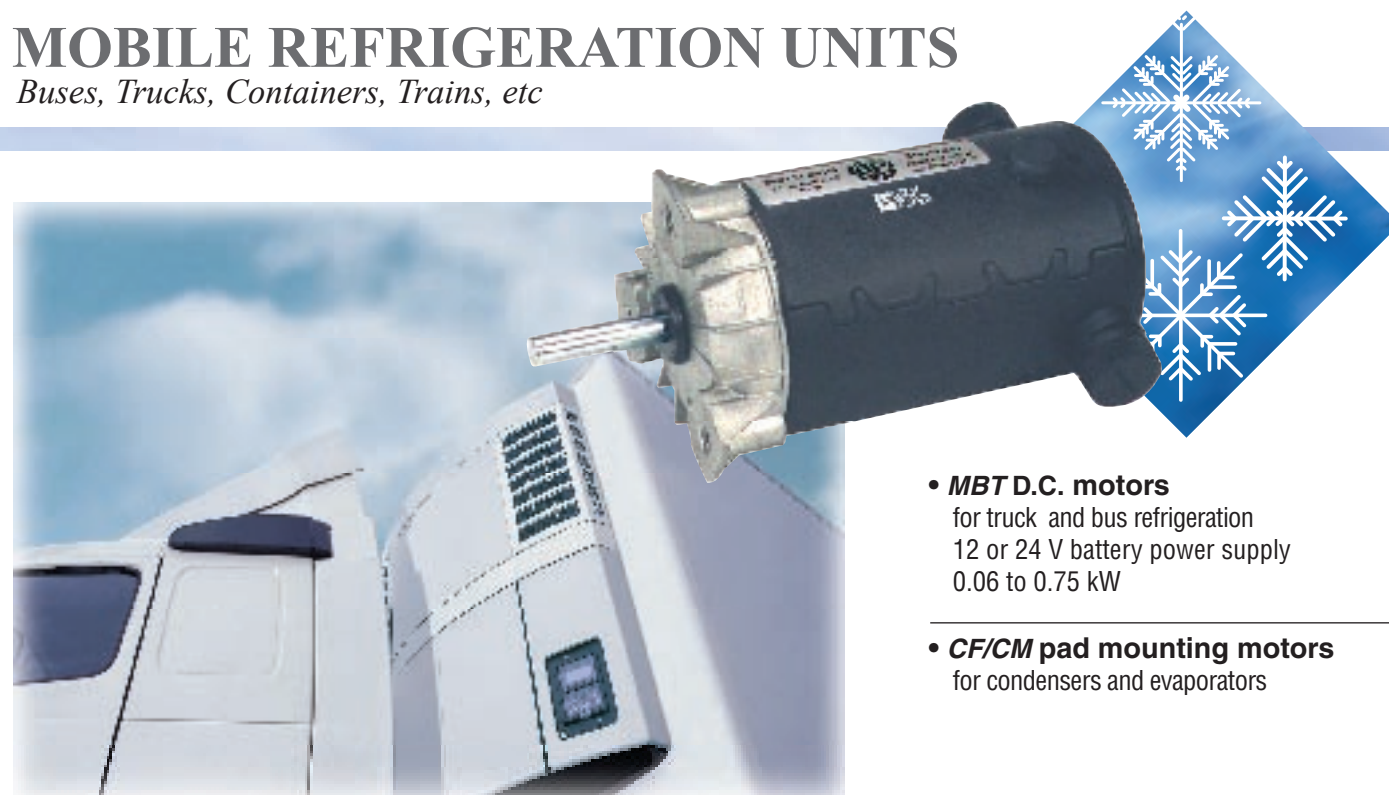
*Evaporators, Condensers, etc*



- **CF/CM pad mounting motors**  
Single-speed or multi-speed  
2 to 16 poles  
Ventilated by the air flow  
0.06 to 7.5 kW
- **VCM axial fans**  
Diameters 600 to 900 mm
- **VHE compact fans**  
Diameters 350 to 800 mm

## MOBILE REFRIGERATION UNITS

*Buses, Trucks, Containers, Trains, etc*



- **MBT D.C. motors**  
for truck and bus refrigeration  
12 or 24 V battery power supply  
0.06 to 0.75 kW
- **CF/CM pad mounting motors**  
for condensers and evaporators

## VARIABLE SPEED

LEROY-SOMER offers a complete range of frequency inverters for regulating flow, pressure or temperature, reducing operating costs, optimising processes, etc.

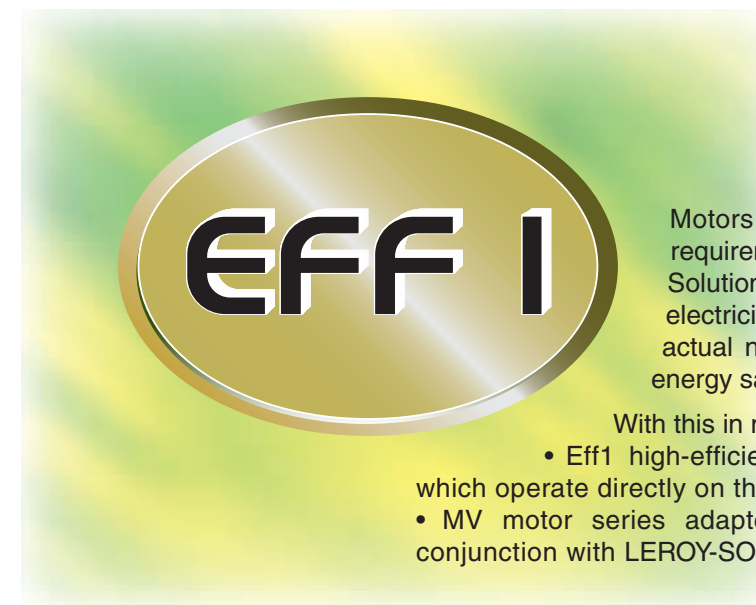
These drives protect the system, control acceleration and deceleration phases, detect clogging and prevent mechanical breakdown, etc.

DIGIDRIVE SK



VARMECA

## ENERGY SAVING PROTECTING THE ENVIRONMENT



Motors consume nearly 70% of industry's requirement for electrical energy. Solutions which are able to reduce and adapt the electricity consumption of installations to users' actual needs are essential in order to make real energy savings.

With this in mind, LEROY-SOMER offers:

- Eff1 high-efficiency motors, in aluminium or cast iron, which operate directly on the mains.
- MV motor series adapted for variable speed applications, in conjunction with LEROY-SOMER frequency inverters.



**MOTEURS LEROY-SOMER 16015 ANGOULÊME CEDEX - FRANCE**

338 567 258 RCS ANGOULÊME  
S.A. au capital de 62 779 000 €

[www.leroy-somer.com](http://www.leroy-somer.com)