



Thermal comfort

/ Emergency and rescue vehicles

Energize the air

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Siroco

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Solutions

Supporting bodybuilders

- Ambulances
- Minibus
- People transportation
- Shuttle
- Vans
- Emergency vehicles
- Security and response vehicle

Siroco supplies manufacturers and bodybuilders for LCV with standard thermal and electrical solutions. Each solution is designed to ensure even air distribution, maximum comfort and passenger safety.





ADDITIONAL AC

For the aftermarket, integrate the additional unit with the existing heating and air conditioning system and ensures a sufficient airflow to cool the entire rear passenger compartment.



ADAPTER KITS

The best way to connect an additional evaporator to the original air conditioning circuit. Siroco Engineering develops bespoke adapter kits for ambulances and minibuses, passenger vehicles, vans and emergency vehicles.



COMPRESSORS

Siroco offers a wide range of 12V and 24V mechanical compressors and electric compressors ranging from 12V to 800V, with displacement capacities of 18cc, 28cc or 34cc.



EN1789 VALIDATION

Siroco helps you validate your heating and air-conditioning systems in accordance with standard EN 1789:2020, in the presence of an accreditation and certification body.

Custom AC kit



EN 1789 homologation



PROTOTYPING

Choosing Siroco expertise means opting for a bespoke, innovative and sustainable air-conditioning solution designed to enhance thermal comfort and performance in commercial vehicles.



TESTING

Once the unit has been installed in the ambulance, SIROCO places the vehicle in a climate chamber before positioning the sensors in accordance with EN 1789:2020 standards.



EN1789 VALIDATION

Siroco guides you through every stage of your EN1789 validation in the presence of an approval and certification body.

Design & accessories



Sensyo Roll Twin



Sensyo 92TP



Sensyo 84



Sensyo grid



Air filter cassette with grid



BUILT-IN AUSTRAL PERFORMA

Siroco enhances the front panels of its units by incorporating silver-coloured, painted vents and 'automotive-style' control knobs with chrome trim.



Y distributor



P/VP air pipe

Adapter set development

Siroco develops complete custom adapter kits with flange, gasket and screws to add an evaporator to an existing air-conditioning system.



Crafter Euro 6



Jumper II



Amarok



RENAULT MASTER XDD

Brand	Model	Pipe	Reference
Citroen	Berlingo	M06-M12	0401 0013
	Jumper II (not predisposed)	M06-M12	0401 0002
	Jumper II	M06-M10	0401 0005
	Jumpy III	M06-M10	0401 0016
Ford	Custom V362	M06-M12	0401 0012
	Custom Connect	M06-M12	0401 0012
	E-Transit Custom	M06-M10	0401 0042KIT
	Ranger	M06-M10	0401 0033
Fiat	Transit V363	M06-M12	0401 0012
	Doblo II	M06-M12	0401 0014
	Ducato III (not predisposed)	M06-M12	0401 0002
	Ducato III	M06-M10	0401 0005
Iveco	Daily	M06-M10	0401 0041
	Citan	M06-M10	0401 0017
Mercedes	Sprinter III	M06-M10	0401 0020KIT
	Sprinter Euro 6	M06-M10	0401 0020KIT
	Vito 4cyl.	M06-M10	0401 0018
	NV200	M06-M10	0401 0019
Nissan	NV300	M06-M12	0401 0015
	NV400 (not predisposed)	M06-M12	0401 0002
	Combo	M06-M12	0401 0014
	Movano II (not predisposed)	M06-M12	0401 0002
Opel	Vivaro II	M06-M12	0401 0015
	Vivaro III	M06-M10	0401 0016
	Boxer II (not predisposed)	M06-M12	0401 0002
	Boxer II	M06-M10	0401 0005
Peugeot	Expert III	M06-M10	0401 0016
	Partner	M06-M12	0401 0013
Ram	ProMaster	M06-M10	0401 0020KIT
	Kangoo II	M06-M10	0401 0017
Renaut	Master XDD	M06-M10	0401 0038KIT
	Master III (not predisposed)	M06-M12	0401 0002
	Trafic III	M06-M12	0401 0015
	Land Cruiser	M06-M10	0401 0022
Toyota	ProAce II	M06-M10	0401 0016
	Amarok	M06-M10	0401 0033
Volkswagen	Crafter Euro 6	M06-M10	0401 0021
	Caddy 1.4-1.6	M06-M10	0401 0004
	Man TGE	M06-M10	0401 0021
	T5 - T6	M06-M10	0401 0004

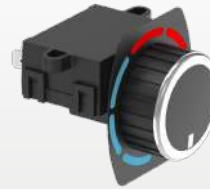
Precise temperature control



CP1



CP2S



With thermostat



Thermal sensor



Discover our full range of essential control accessories for adjusting the cabin air temperature: electronic control panels, with cable control / proportional valves / electronic thermostat, potentiometer, temperature sensors, switches and buttons.

- Compact
- Intuitive
- Backlit buttons
- Up to 4 speed blower
- Air recycling function
- Automatic, manual and defogging modes

Standard units



Arizona 4DS



Arizona S



Sahara



Tenere II
E-Tenere II



Austral Performa



Sanoa / E-Sanoa



Boreal / E-Boreal



Adapter set



Stand Up II



Condenser 360



Mechanical compressor



Accessories



A3003



A3003 Sensyo



Obturator



Eole



E-Duo



E-Duo Top



Solano Top / E-Solano Top

Electrification

Siroco makes it easy to convert your heating and air-conditioning systems into electrical ones with a comprehensive range of standard electric HVAC, AC and HV units. Find the electric equivalent of your thermal unit to electrify your system in no time at all.

From thermal to electric

Mechanical
compressor



E-compressor

Boreal Performa
HVAC-AC-HV



E-Boreal Performa
EHVAC - EHV

Solano Top
HVAC-AC



E-Solano Top
EHVAC

Electrical solutions



By your side



CFD SIMULATION

Simulation is used to optimise your HVAC solutions during the development phase and to reduce the number of prototypes, the overall project cost and the development time.



ELECTRONIC

Design, development, integrated industrialisation of micromechanical and / or microelectronic modules and microsystems.



PLASTIC INJECTION

Thermoplastic injection moulding, dual-material moulding, overmoulding of metal and composite inserts.



SUPPLY CHAIN

Siroco keeps all kit components available to ensure short lead times for customers and maintain fast delivery times.

for a successful project



Siroco assists you with the validation of your thermal system, in accordance with standard EN 1789.



Siroco,
your thermal expert



Siroco France



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subsidiaries:
Germany, Morocco, India

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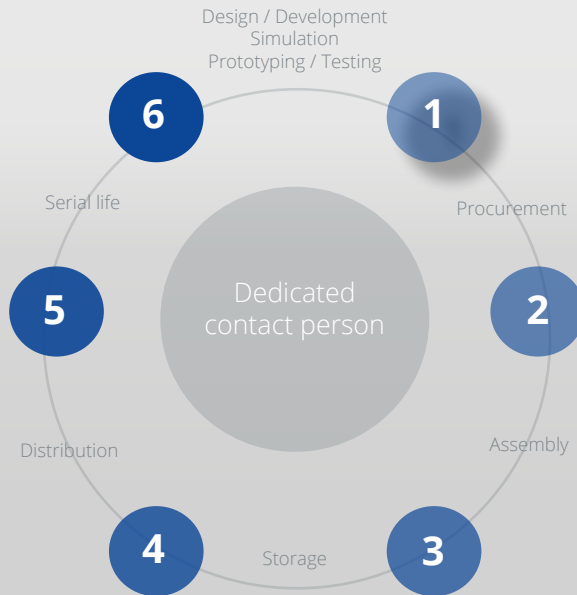
production sites: France,
Morocco, India

9001 & 14001

ISO certified

Housed in 5,000 m² of fully refurbished premises, Siroco brings together all its development, testing, production and storage departments under one roof, thereby improving working conditions for its staff and enhancing its ability to meet customer needs.

Siroco, an international supplier of thermal and electrical solutions for industrial vehicles, devises, designs and manages cabin comfort for the world's leading manufacturers through turnkey HVAC solutions.



Your Partner

-  High-performance, reliable solutions tested in a climatic chamber
-  A wide range of thermal and electrical products from 24 to 850V
-  Quality and responsive, professional customer service
-  Meeting delivery deadlines: just-in-time production
-  Personalised support throughout the project management process

Expertises

Siroco provides you with all the necessary resources and expertise:

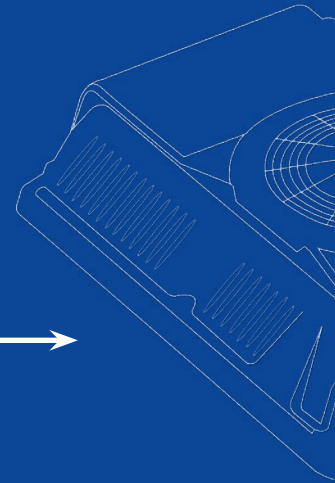
- **Technical Expertise:** design, development, optimal solutions
- **Simulation Expertise:** CFD simulation, 3D metrology
- **Testing Expertise:** prototyping, climate chamber, measurement and endurance test benches, reliability testing
- **Project Expertise:** custom project management from specifications to series production
- **R&D Expertise:** e-mobility and related technologies, electric conversion



Specific

The majority of our clients' projects involve bespoke developments.

We guarantee that our solutions will meet budget, deadlines, quality and performance standards, thanks in particular to our technological and human resources.



Standard

HVAC-AC-EHVAC

- / Vertical or horizontal unit*
- / Roof-mounted unit*
- / Modular unit*
- / Heat pump*
- / Condenser*
- / Compressor*
- / Accessories*
- / 12–400 V*

HV-EHV

- / Electric heating*
- / Wall-mounted or built-in*
- / PTC heater*
- / 24–120 V*

CONTROL

- / Control panels*
- / Electronics*
- / Mechanics*
- / CAN Bus 2.0*
- / Software package*
- / Diagnostic tools*

VENTILATION

- / Aerator*
- / Blower*
- / Obturator*
- / Accessories*

AIR DISTRIBUTION

- / Round, rectangular*
- / Sleeve*
- / Grid*
- / Filters*
- / Front panels*
- / Ceiling air distributor*
- / Accessories*

R&D

- / Heat pump*
- / Thermal management*



Resources



CLIMATE CHAMBER

- Measurement of power
- Efficiency of defrosting and defogging
- Temperature changes in the cabin
- Air distribution & temperature stability in the cabin

TEST BENCHES

- Airflow test bench
- Thermal performance test bench
- Reliability testing

SIMULATION

- 3D metrology
- CFD simulation



THE CLIMATIC CHAMBER IN DETAIL

Designed to perform tests on vehicles in operation, the climatic chamber performs tests on single cab or components.

VEHICLE DIMENSIONS

Length max: 6,00 m

Width max: 2,80 m

Height max: 2,90 m

Weight max: 7,00 t

TESTING CONDITIONS

Temp.range - 25°C / + 45°C

Temp. change speed 0,5°C/min

SOLAR RADIATION

IR lamps

Power >1000W/m²

ISO 10263-6

HYGROMETRY

Hygrometry Range 10% / 90% HR

Temperature 10°C to 45°C

Close to you

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