

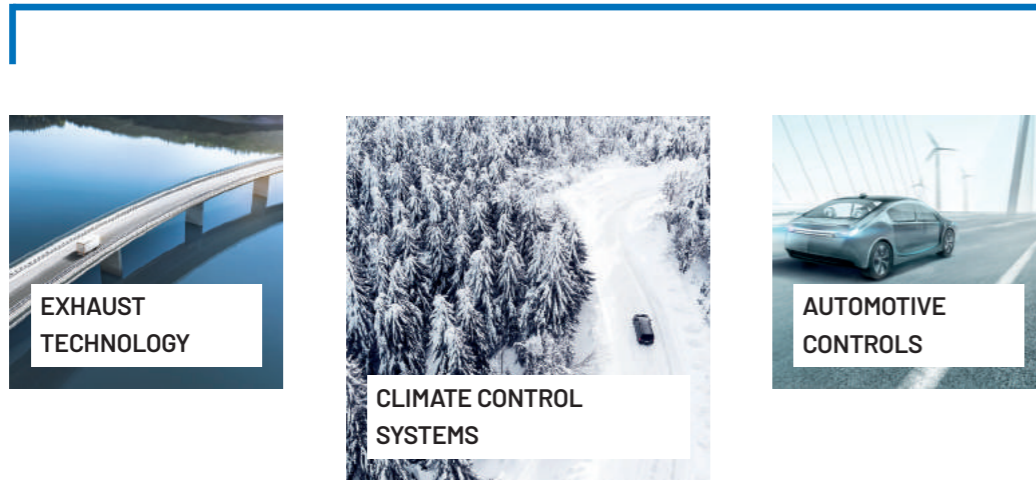


CLIMATE CONTROL SYSTEMS / UTILITY & CARGO

JUST THE RIGHT CLIMATE FOR PROFESSIONALS

Heating & Air Conditioning Solutions -
Connected with Digital Services

CLIMATE CONTROL SYSTEMS



- Enhanced application expertise for heating and cooling
- Extensive product portfolio for heating and cooling
- Accessories for a wide variety of applications
- A/C and heating specialists combined to make one powerful team

INNOVATIVE MARKET AND CUSTOMIZED SOLUTIONS



EXPERTS IN COOLING AND HEATING.

FOR SPECIAL VEHICLES

Heating, cooling and digital services – various solutions, one partner

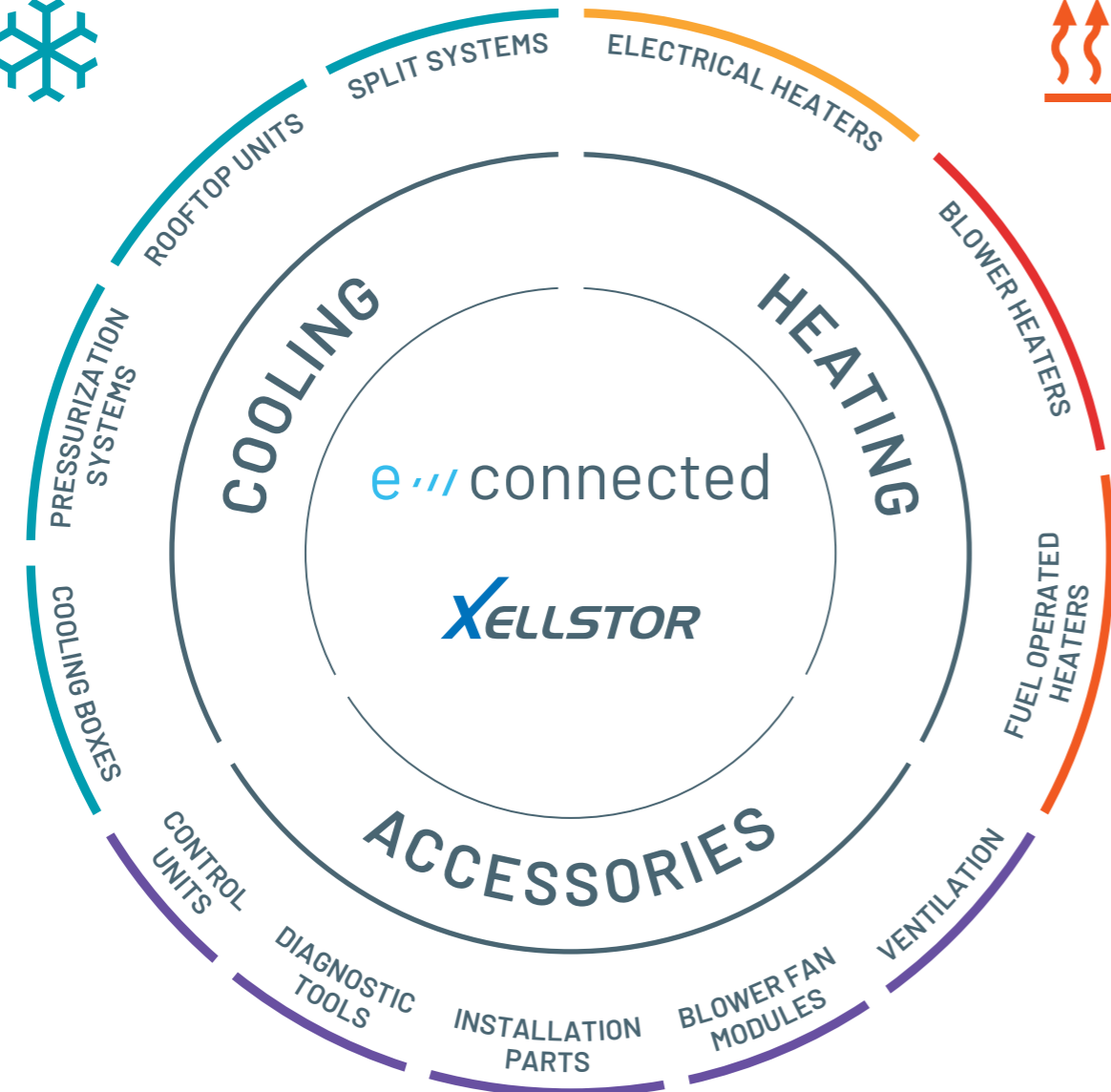
Whether it's winter or summer, the right temperature in the driver's cab and loading compartment is crucial for transporters. It provides comfortable driving and working conditions, and ensures that temperature-sensitive goods and materials can be transported safely. As a system provider of heating and cooling solutions, Eberspächer ensures the perfect climate inside the vehicle – regardless of the application or powertrain type. As experts in thermal management, we are continuously developing and improving our innovative solutions: In addition to heaters and air conditioning systems, Eberspächer also offers innovative digital services such as cold chain monitoring – **all from a single source.**

[Utility & Cargo]



OUR PRODUCT PORTFOLIO

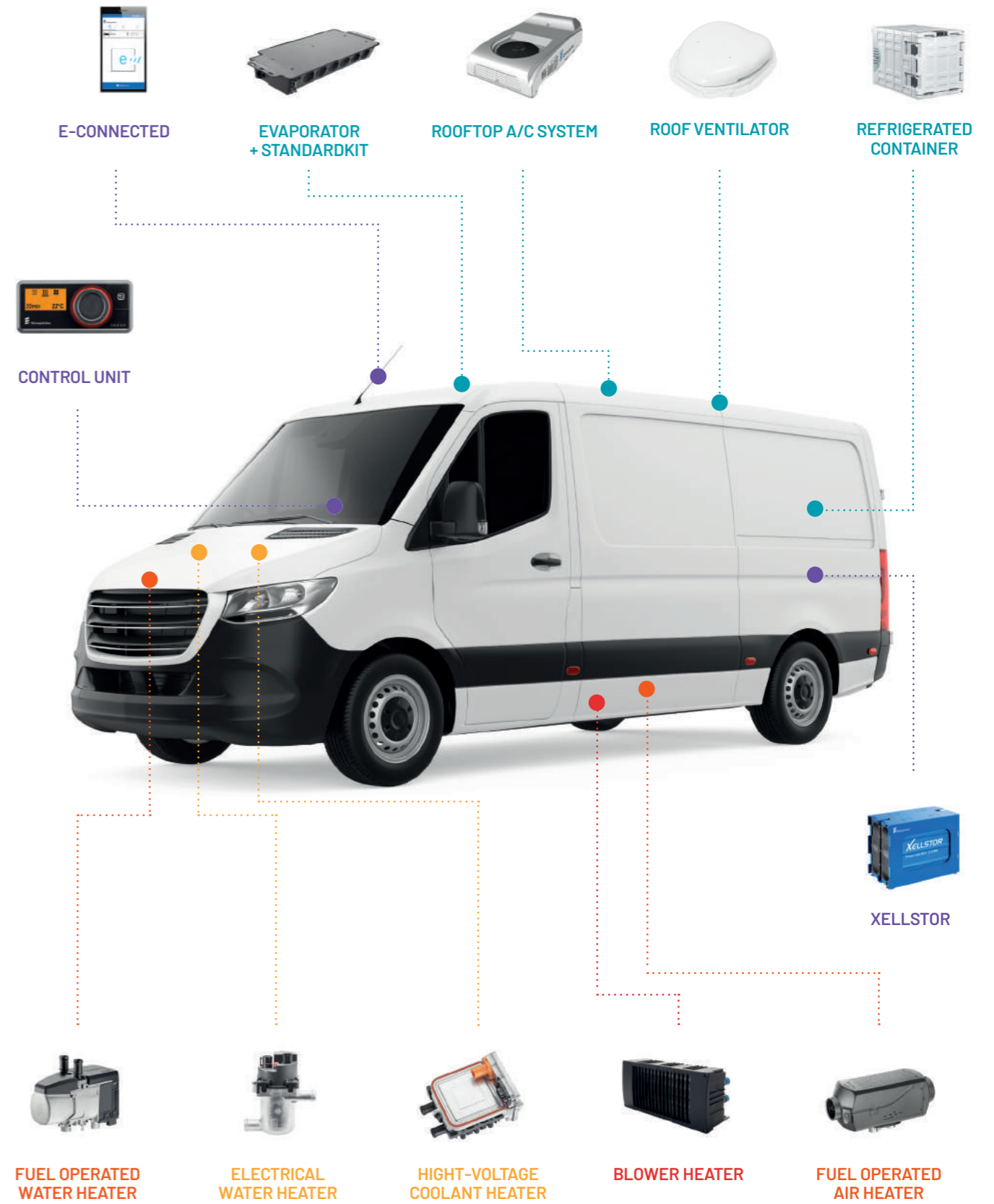
COOLING



ACCESSORIES & CONTROLS



PRODUCTS FOR UTILITY & CARGO VEHICLES



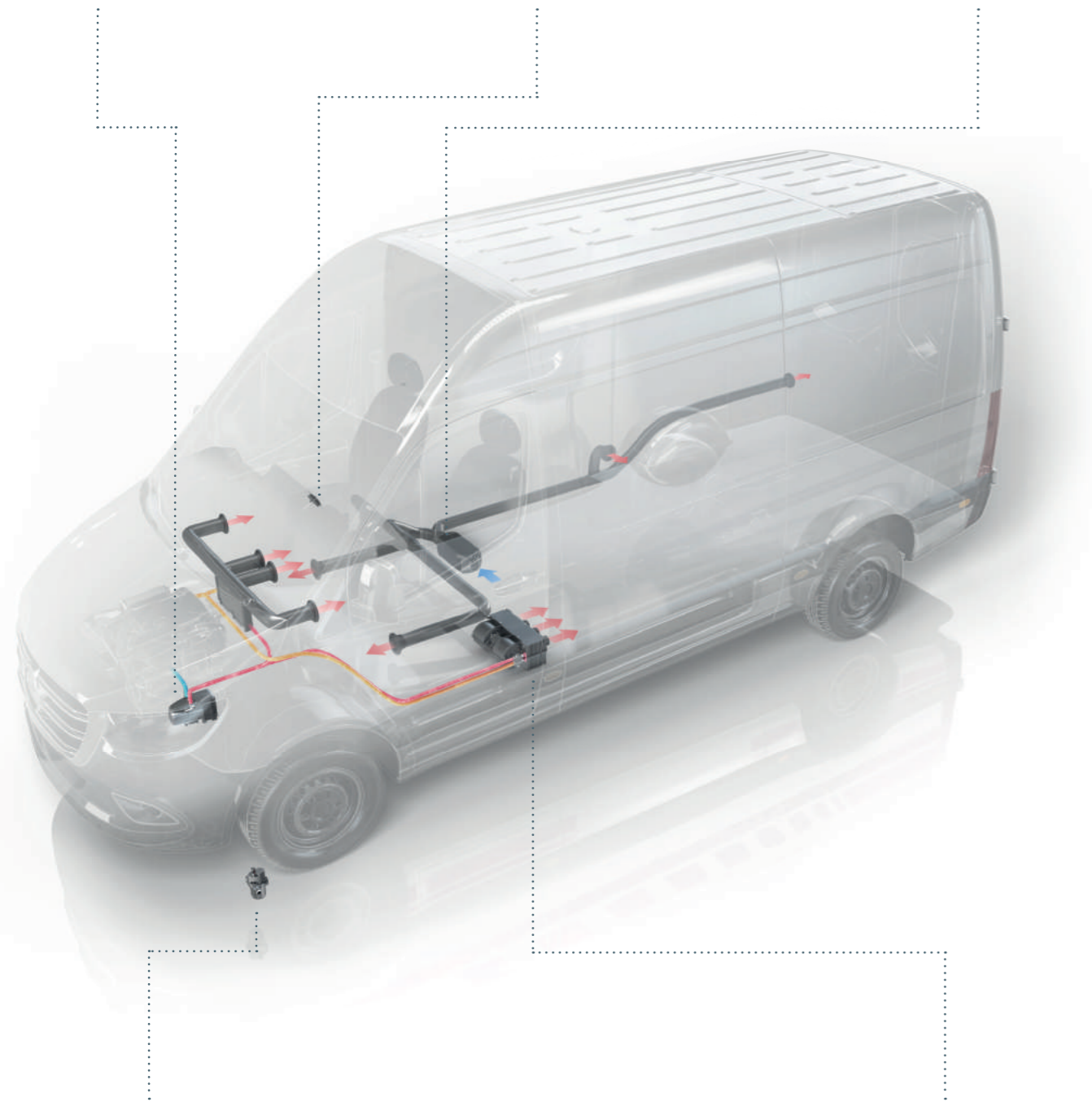
HEATING SOLUTIONS

HEATING SOLUTIONS FOR FUEL-OPERATED TRANSPORTER

FUEL OPERATED
WATER HEATER
HYDRONIC

CONTROL UNIT FOR
FUEL OPERATED
HEATERS
EASYSYSTEM PRO

FUEL OPERATED
AIR HEATER
AIRTRONIC



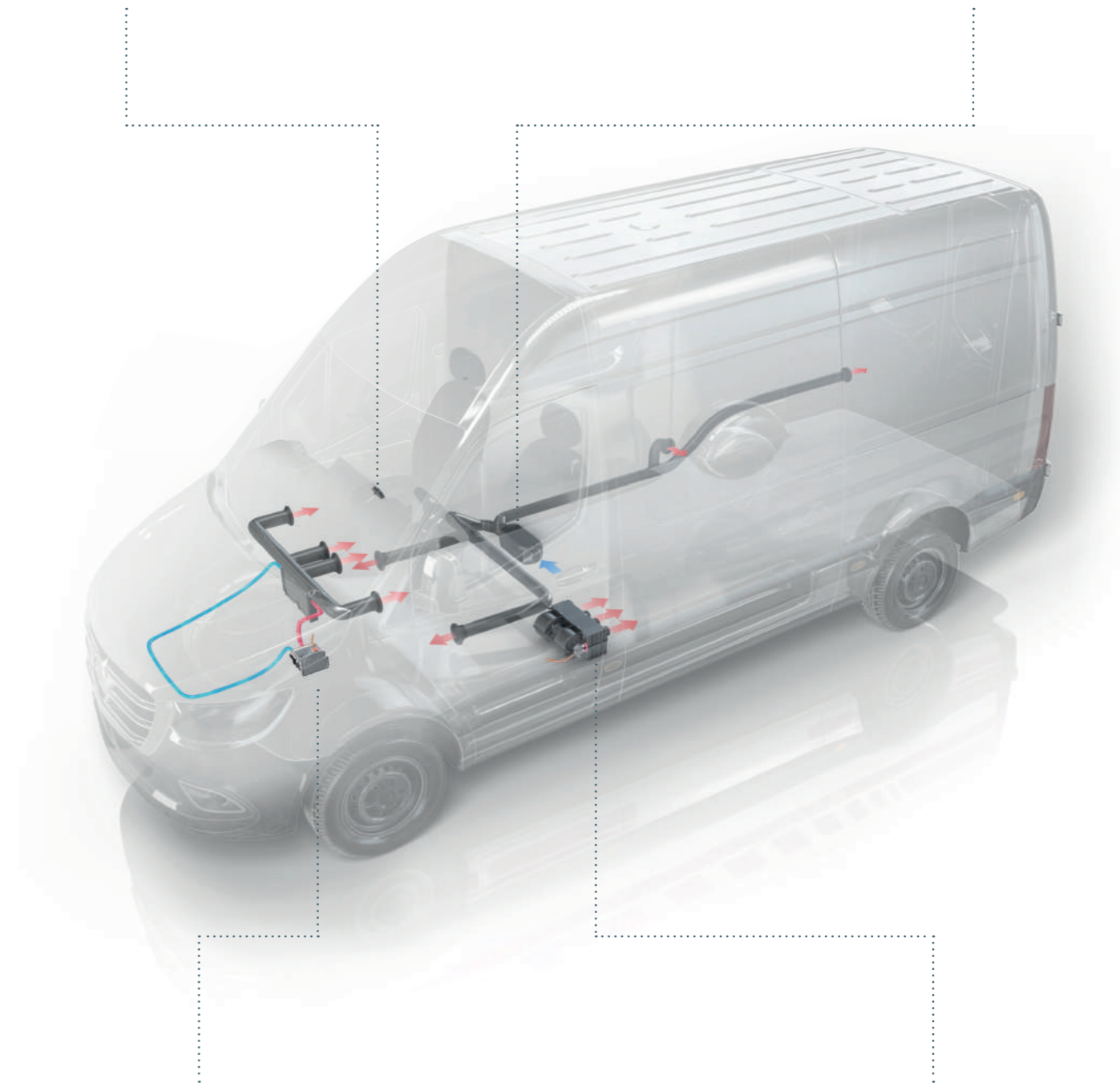
ELECTRICAL WATER HEATER
PLUGTRONIC - ALTERNATIVE
TO THE HYDRONIC

WATER BLOWER HEATER

HEATING SOLUTIONS FOR ELECTRIC TRANSPORTER

EASYSYSTEM PRO

ETHANOL OPERATED
AIR HEATER
AIRTRONIC



HIGH-VOLTAGE COOLANT HEATER
TITRONIC

ELECTRICAL BLOWER HEATER

FUEL OPERATED AIR HEATERS

AIRTRONIC S3/M3/L3



- Fast and reliable heating of the loading compartment and driver cabin
- Low energy consumption – ideal for long heating periods while the vehicle at a standstill
- Brushless motor ensures a long service life of 5,000 hrs.
- Operates quietly so loading compartment can be used as a work or resting space

Fuel	Gasoline			Diesel		
	Version [12 V]	S3 Commercial B2L	M3 Commercial B4L	S3 Commercial D2L	M3 Commercial D4L	L3 Commercial D6L
Heating performance	kW	1.0 – 2.0	1.3 – 4.0	0.85 – 2.2	1.05 – 4.0	1.5 – 6.0
Fuel consumption	l/h	0.14 – 0.26	0.17 – 0.55	0.1 – 0.27	0.1 – 0.49	0.16 – 0.74
Weight	kg	2.5	4.5	2.5	4.4	6.8
Main dimension* l x w x h	mm	310 x 115 x 122	376 x 140 x 150	310 x 115 x 122	376 x 140 x 150	438 x 160 x 170
Interfaces		CAN/ LIN/ S+				

* Air heater connection diameter ø 75 mm

AIRTRONIC 2 ETHANOL



- Fast and reliable heat for electric vehicles
- No impact on the vehicle's electric range
- Low-emission heating of the vehicle's interior
- Constant, individually adjustable temperature
- Flexible installation in the interior, trunk or underfloor

Fuel	Ethanol	
Version [12 V]	S2 Commercial E2L	
Heating performance	kW	0.9 – 2.2
Fuel consumption	l/h	0.16 – 0.49
Weight	kg	2.7
Main dimension* l x w x h	mm	310 x 115 x 122
Interfaces		CAN/LIN/ S+

* Heating air connection diameter ø 75 mm

FUEL OPERATED WATER HEATERS

HYDRONIC S3



- Preheating of the engine and the vehicle's interior
- Long service life of 5,000 hrs. and fewer spare parts due to robust components
- Cost savings and less downtime for end customers thanks to low fuel and energy consumption
- Heater operation integrated in the vehicle's control panel and integration in vehicle's own diagnostics possible

Fuel	Gasoline		Diesel		
	Version [12 V]	S3 Economy B4E	S3 Economy B5E	S3 Economy D4E	S3 Economy D5E
Heating performance	kW	1.8 – 4.3	1.8 – 5.0	1.3 – 4.3	1.3 – 5.0
Fuel consumption	l/h	0.57	0.67	0.53	0.59
Weight	kg	2.0			
Main dimension* l x w x h	mm	215 x 91 x 124			
Interfaces		CAN/S+ or CAN/LIN			

*With straight connection fittings



BLOWER HEATER SOLUTIONS

WATER BLOWER HEATER



- Ideal auxiliary heater for the interiors of vans with internal combustion engines
- Large portfolio of different sizes and power levels to fit every customer application
- Easily and quickly adapted to meet customer-specific requirements as well as existing applications
- Complete system including hoses, control units and air diffusion available

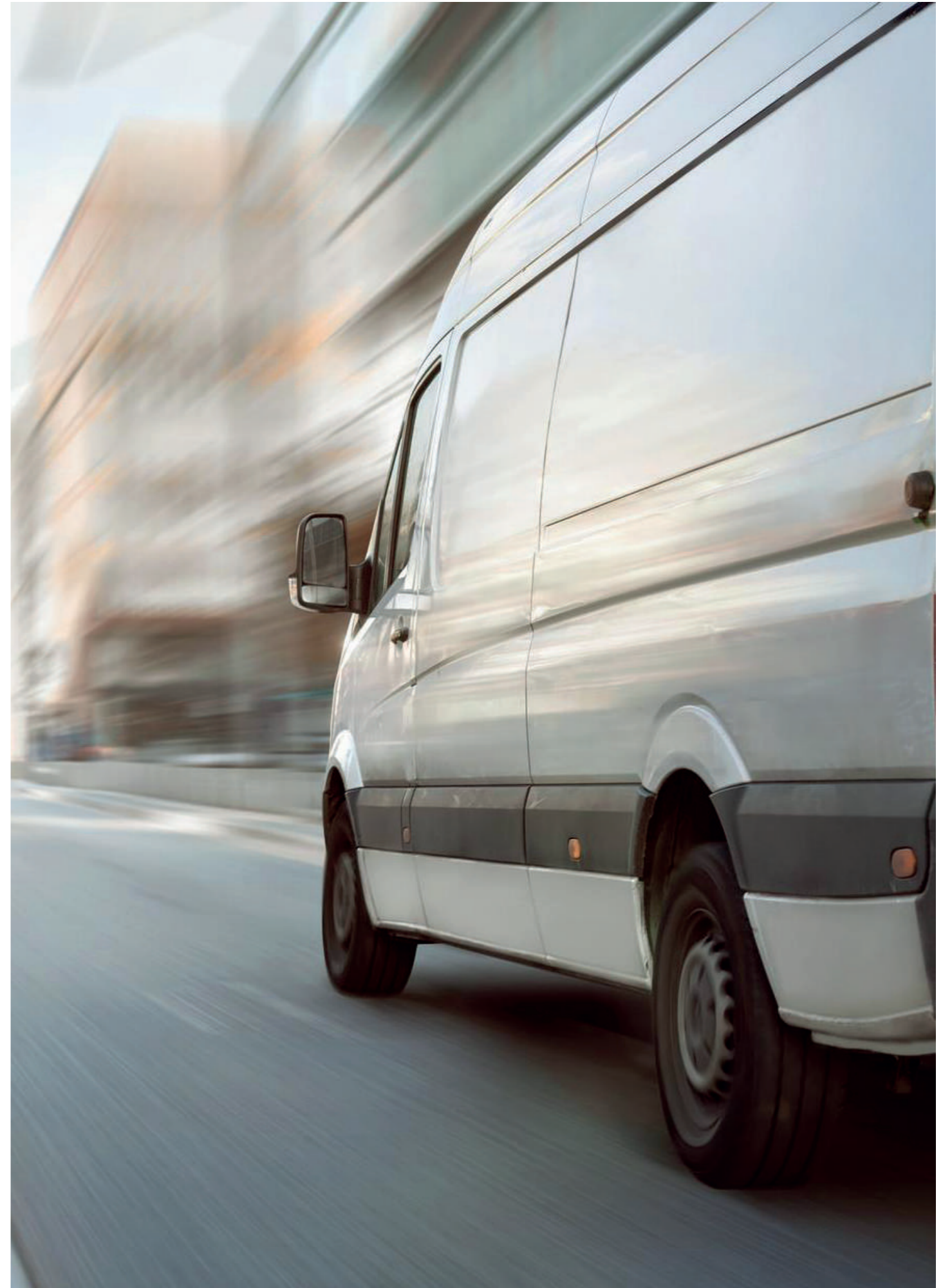
Version	[12 V]	Alizé 2 HV	Compact EV01	Compact EV02	Silencio 2 HV	Super K HV	Kool HV	Falkon HV
Heating performance	kW	3.4	4.3	5.2	5.5	7.6	10	14.8
Airflow	m ³ /h	220	230	350	250	500	520	725
Electrical consumption	W	70	70	100	16	100	180	360
Main dimensions l x w x h	mm	189 x 175 x 132	114 x 255 x 189	114 x 279 x 106	152 x 321 x 125.5	216 x 368 x 130	261 x 384 x 158	296 x 430 x 167

ELECTRICAL BLOWER HEATER



- Fast and reliable heating solution for electric transporters
- Heater is equipped with secured PTC element and safety thermal switch
- Large portfolio of different sizes and power levels to fit every customer application
- Complete system including control units and air diffusion systems available

Version	[12 V]	Alizé 2 EHV	Kelec EV01	Kelec EV02	Kool 2 EHV	Falkon EHV
Heating performance	kW	up to 2.2	up to 1.7	up to 2.2	up to 4	up to 6
Airflow	m ³ /h	210	230	350	520	411
Electrical consumption	W	from 18 to 33	from 11 to 74	from 7 to 74	depends on version	depends on version
Operating voltage range	V DC	48 - 120	24 - 80	24 - 300	48 - 750	48 - 800
Operating voltage range	V AC	230 - 480				
Main dimensions l x w x h	mm	189 x 175 x 132	114 x 255 x 114	196 x 273 x 114	261 x 384 x 158	297 x 432 x 167



ELECTRICAL HEATERS

HIGH-VOLTAGE COOLANT HEATER - TITRONIC



- Powerful and reliable PTC technology offers high heating performance
- Precise and convenient heating of the loading compartment
- Battery conditioning extends battery life, shortens charging times and increases range
- Designed with high-voltage expertise for OEM installations

Version		CHHV 50 G3
Heating performance	kW	5.0*
Operating voltage range (HV)	V	250 - 450 / 12
Weight	kg	2.0
Main dimensions l x w x h	mm	160 x 159 x 105
Interfaces		LIN 2.1

* UN = 350 V, TCO = 60 °C, QCO = 10 L/MIN, COOLANT = 50:50

ELECTRICAL WATER HEATER - PLUGTRONIC



- Quick coolant circuit heating for a pre-heated engine
- Ideal temperature in the loading compartment for more effective work
- Perfect solution for last mile application
- Several installation positions possible
- Environmentally friendly heating solution for parked vehicles
- No fossil fuels, zero emissions
- One-handed, easy power cable plug-in

Version		800	1,850
Heating performance	kW	0.8	1.85
Operating voltage range (HV)	V AC	230	
Weight	kg	0.8	
Main dimensions l x w x h	mm	151 x 131 x 81	
Interfaces	V DC	12 / 24	



COOLING SOLUTIONS

COOLING SOLUTIONS WITH INTEGRATED ADAPTER SET

SPLIT A/C UNIT

ROOF VENTILATOR



CONTROL UNIT FOR A/C SYSTEM
PCK3

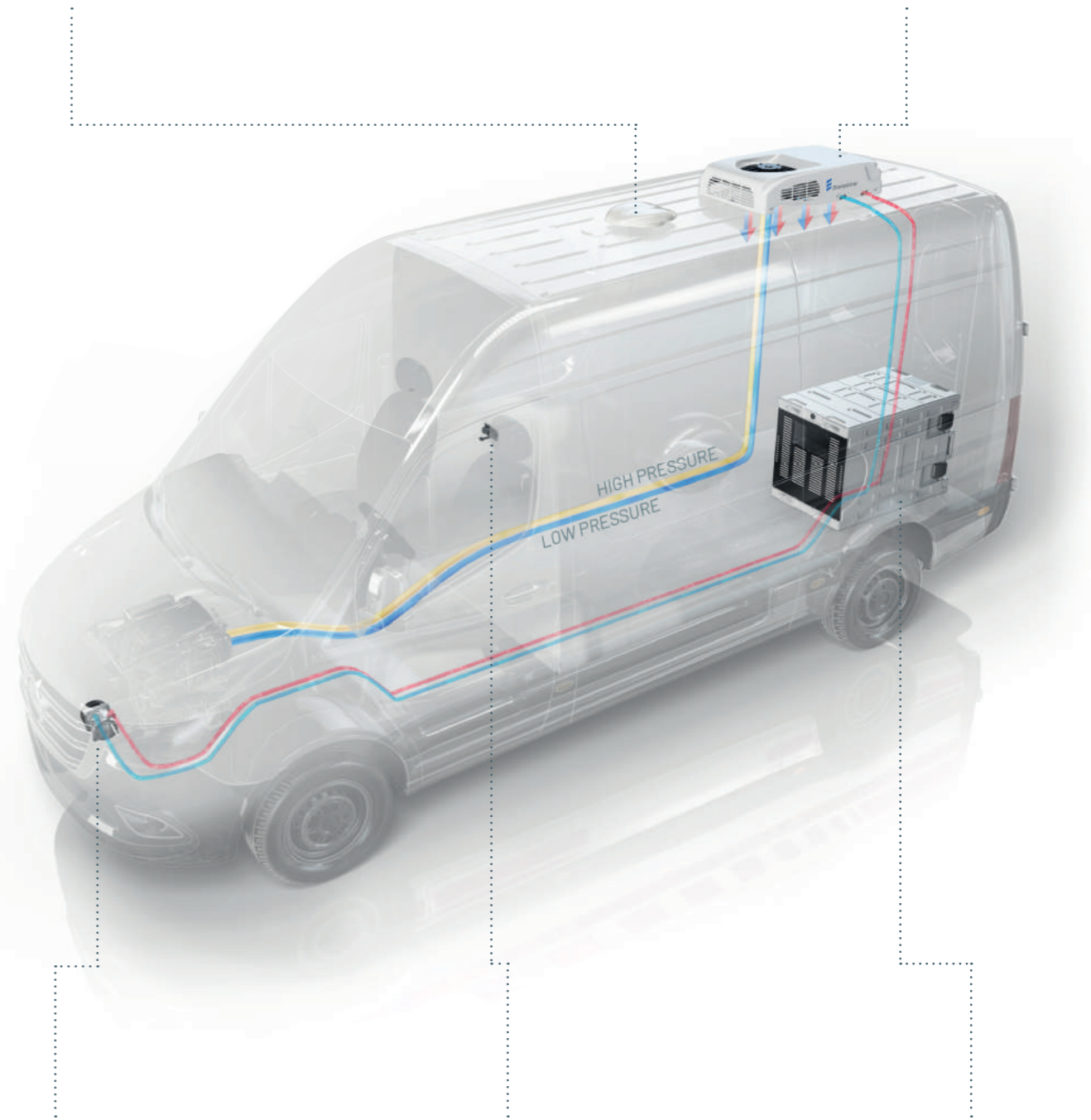
ADAPTER SET

REFRIGERATED
CONTAINER

COOLING SOLUTIONS WITH ADDITIONAL COMPRESSOR

ROOF VENTILATOR

ROOFTOP HVAC SYSTEM WITH
INTEGRATED CONDENSER



COMPRESSOR

CONTROL UNIT FOR A/C SYSTEM
PCK3

REFRIGERATED
CONTAINER

SPLIT SYSTEMS

HORIZONTAL EVAPORATORS FOR SPLIT SYSTEMS

- Powerful evaporators provide climate control for both the driver cabin and loading compartment
- Available as A/C only (VAC), HVAC or EHVAC version for electric transporter
- Large portfolio of different sizes and power levels to fit every customer application
- Complete system including hoses, control units and air diffusion systems available



VAC UNITS FOR BOTH FUEL OPERATED AND ELECTRIC TRANSPORTER



Version	[12 V]	Super K VAC	Kool 2 VAC ⁽²⁾	Falkon VAC ⁽¹⁾	HK EVO4 VAC ⁽²⁾
Cooling performance	kW	up to 4	5.7	9	10.7
Airflow	m ³ /h	440	520	660	1,300
Electrical consumption	W	100	180	360	190
Main dimensions l x w x h	mm	216 x 368 x 137	261 x 384 x 158	297 x 432 x 167	780 x 334 x 120

⁽¹⁾ Available in FA version with air diffusion included. ⁽²⁾ Available in FAI version with air diffusion and control unit included.

HVAC UNITS FOR FUEL OPERATED TRANSPORTER



Version	[12 V]	Super K HVAC	Kool 2 HVAC ⁽²⁾	Falkon HVAC ⁽¹⁾	HK EVO4 HVAC ⁽²⁾
Cooling performance	kW	3.5	4.5	7.7	8.6
Heating performance	kW	4.3	6.6	10	9.5
Airflow	m ³ /h	440	520	660	1,300
Electrical consumption	W	100	180	360	190
Main dimensions l x w x h	mm	216 x 368 x 137	261 x 384 x 158	297 x 432 x 167	780 x 334 x 120

⁽¹⁾ Available in FA version with air diffusion included. ⁽²⁾ Available in FAI version with air diffusion and control unit included.

EHVAC UNITS FOR ELECTRIC TRANSPORTER



Version	[12 V]	Super K EHVAC	Kool 2 EHVAC	Falkon EHVAC
Cooling performance	kW	3.5	4.5	7.7
Heating performance	kW	up to 4	up to 4	up to 5
Airflow	m ³ /h	440	520	660
Electrical consumption	W	100	180	360
Operating voltage range	V DC	24 - 750		
Operating voltage range	V AC	230 - 480		
Main dimensions l x w x h	mm	216 x 368 x 137	261 x 384 x 158	297 x 432 x 167

EHVACs are also available in a hybrid version: evaporator + PTC heater + water heater

VERTICAL EVAPORATORS FOR SPLIT SYSTEMS

- Directional scrolls can be positioned independently
- Integrated electrical flap on air intake for outside air circulating operation available (MK1), optional for MK0
- Available as HVAC or EHVAC version for electric transporter
- Fast application development and easy installation
- Different covers and air distribution systems available

HVAC UNITS FOR FUEL OPERATED TRANSPORTER



Version	[12 V]	MK0 HVAC	MK1 HVAC
Cooling performance	kW	4.3	7
Heating performance	kW	3.3	7.8
Airflow	m ³ /h	435	700
Electrical consumption	W	220	360
Main dimensions l x w x h	mm	160 x 315 x 378	159 x 428 x 443

EHVAC UNIT FOR ELECTRIC TRANSPORTER



Version	[12 V]	MK0 EHVAC
Cooling performance	kW	4.3
Heating performance	kW	2.2
Airflow	m ³ /h	390
Electrical consumption	W	220
Operating voltage range	V DC	24 - 750
Main dimensions l x w x h	mm	160 x 324 x 378

Picture shows optional air filters: the air section can be fit with two paper filters.

ROOFTOP EVAPORATORS FOR SPLIT SYSTEMS

- Powerful rooftop evaporator system
- Air diffusion with integrated control unit available
- Saves space in the vehicle
- Can be combined with external condenser unit Power K Reverse, which includes an electric compressor and drier filter
- Available as A/C only (VAC) or HVAC

VAC AND HVAC UNITS



Version	[12 V]	Klimatop VAC	Klimatop HVAC
Cooling performance	kW	5.5	5
Heating performance	kW	-	6
Airflow	m ³ /h	595	560
Electrical consumption	W	150	
Main dimensions l x w x h	mm	125 x 445 x 580	



ROOFTOP SYSTEMS

- Compact system, includes evaporator, condenser and drier filter
- Can be connected to a standard compressor
- Especially suited for air conditioning in loading compartments
- Available as A/C only (VAC), HVAC or EHVAC version for electric transporter

VAC AND HVAC SYSTEMS

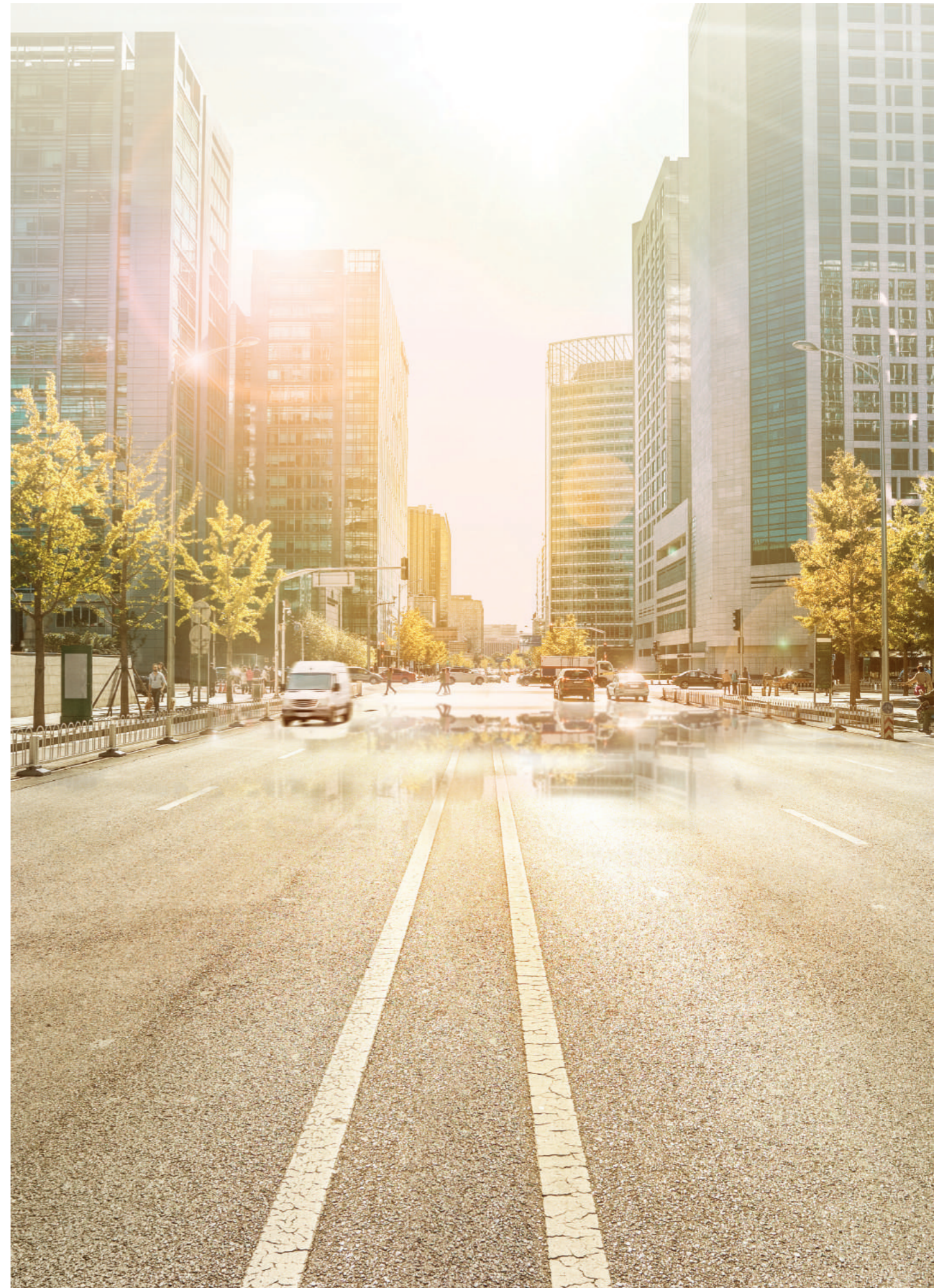


Version	[12V]	RK12 VAC	RK12 HVAC
Cooling performance	kW	11.5	11.5
Heating performance	kW	-	15
Airflow	m ³ /h	950	
Weight	kg	50	
Main dimensions l x w x h	mm	1,090 x 940 x 179	

EHVAC SYSTEM



Version	[12V]	RK12 EHVAC CPF
Cooling performance	kW	up to 11
Heating performance	kW	up to 14
Airflow	m ³ /h	up to 1,380
Weight	kg	84.5
Main dimensions l x w x h	mm	1,504 x 890 x 250



ACCESSORIES AND CONTROLS

BUILT-IN CONTROL UNIT FOR FUEL OPERATED HEATERS - EASYSTART PRO



- Intuitive timer setup
- Easy to use even while wearing work gloves
- Operation of two heaters with only one control unit possible
- Integrated temperature sensor makes installation very simple and reduces costs
- Quick servicing thanks to rapid troubleshooting

REMOTE CONTROL UNIT FOR FUEL OPERATED HEATERS - EASYSTART WEB



- State-of-the-art technology for operating multiple heaters with one account
- Central operation of heaters by fleet manager
- Responds to most common communication protocols such as CAN, LIN or S+
- Integrated antenna for time-saving installation in all vehicles
- Compatible with other operating devices (EasyStart Pro)
- Intuitive, user friendly app for iOS and Android

BUILT-IN CONTROL UNIT FOR FUEL OPERATED HEATERS AND A/C SYSTEM - PCK3 FOH



- Intuitive control of air conditioning system and Hydronic or Airtronic
- Simple and fast operation
- Robust, reliable and easily integrated
- Stepless heating performance control
- Easy to use even while wearing work gloves

DIAGNOSTIC TOOL - EASYSCAN



- Failure analysis of devices and components
- Comprehensive evaluation of current operating status
- Error code display including additional system parameters
- Easy optimization of control units such as EasyStart Pro or EasyStart Web including firmware updates

ROOF VENTILATOR



- Very flat roof ventilators
- Different designs and air outlets available
- Electric and non-electric versions
- Easy-to-fit roof adapter and air channel option

AIR OUTLETS



- Huge range of outlets with different designs, functionalities and installation options
- Developed in house, designed for modern dashboards
- Durable elements, made of high-quality plastic
- Simple and easy to install

HANDIWASH



- Ideal for clean and hygienic working conditions in the van
- Hot and cold water at any location
- Installation on any vertical surface and wired to a 12-V power source
- Powerful heating element thermostatically controls water up to 60 °C


ADAPTER SET



- Enables an additional evaporator to be connected to the original A/C system
- Simple and low-cost solution
- Designed for every brand of vehicle
- Fast installation

ADAPTER SETS ARE AVAILABLE FOR THE FOLLOWING VEHICLE MODELS, AMONG OTHERS:

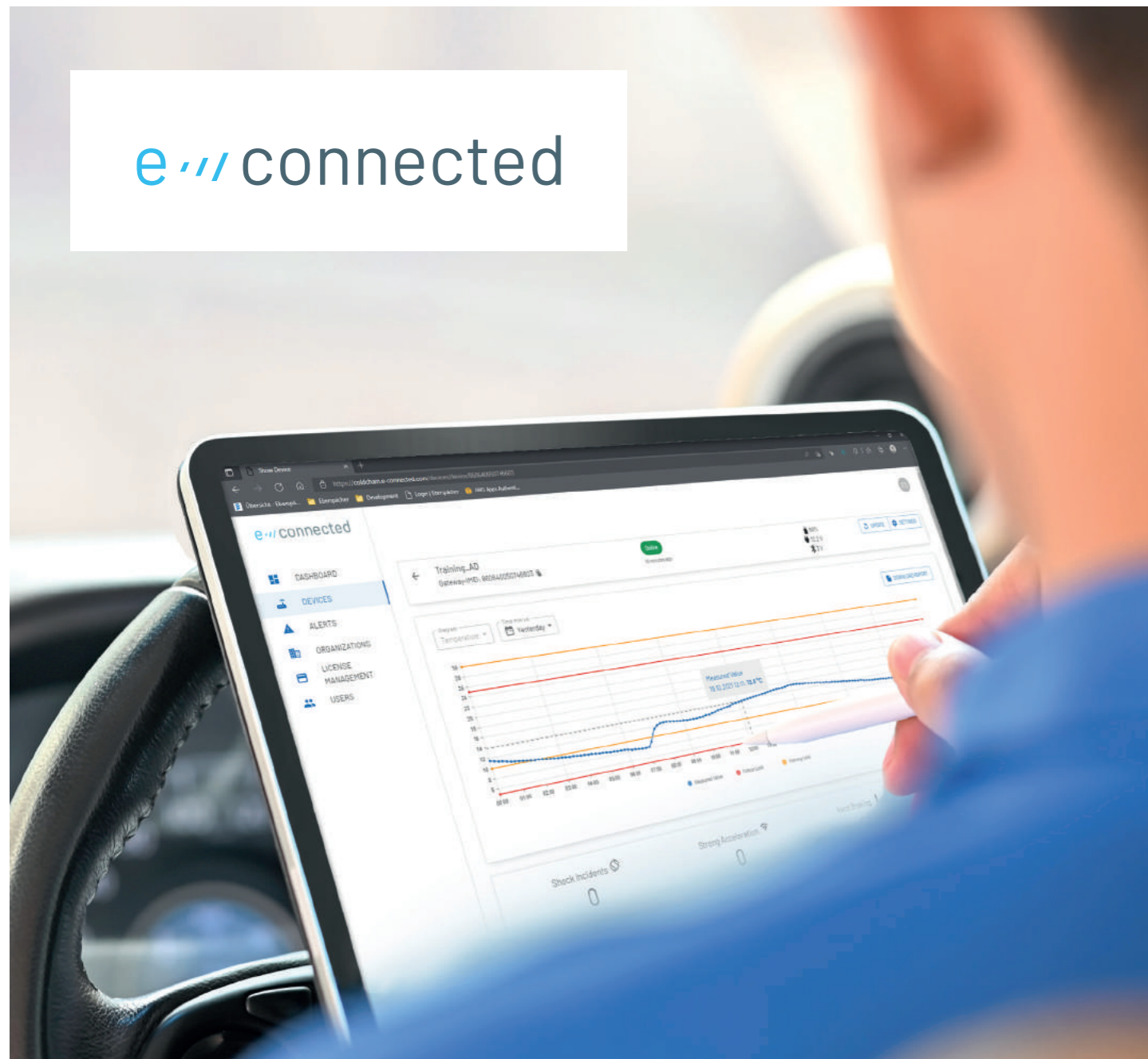
Vehicle models					
Citroën Jumpy	Mercedes Benz Sprinter	MAN TGE	Nissan Navara	Renault Master	Volkswagen Crafter
Ford Transit Custom	Mercedes Benz Vito	Iveco Daily	Peugeot Boxer	Renault Traffic	Volkswagen T6



Eberspächer offers a variety of lithium iron phosphate batteries. Xellstor batteries come with important advantages such as longer lifespan, greater safety and improved charge and discharge efficiency. Furthermore, all Xellstor batteries are equipped with a fully integrated battery management system.

E-CONNECTED AND COLD CHAIN MONITORING

The specially developed e-connected platform forms the basis for all digital services from Eberspächer. GPS trackers or sensors collect data for transfer to the cloud via a gateway in each vehicle. Diverse data-based services can be developed for various customer segments using this intelligent network. They offer enhanced efficiency, transparency and safety such as cold chain monitoring.

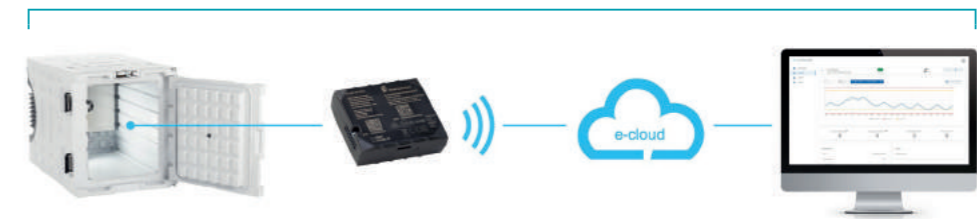


COLD CHAIN MONITORING

PERFECTLY COOLED FROM POINT A TO POINT B, AND ALWAYS UNDER CONTROL

Eberspächer refrigerated containers ensure consistent temperatures during transportation. With the Eberspächer cold chain monitoring service, they can be reliably checked at any time. The cold chain monitoring service enables seamless analysis of the temperature of the refrigerated container. Via a connected gateway and a temperature sensor installed in the refrigerated container, the system collects various data such as temperature, GPS position, battery capacity and the shock behavior of the container. The data can be monitored and evaluated in real time via the e-connected online platform. With the ability to download detailed reports on temperatures during transportation, companies can track the cold chain from start to finish.

COLD CHAIN MONITORING



COMPRESSOR REFRIGERATED CONTAINERS | COLDTAINER

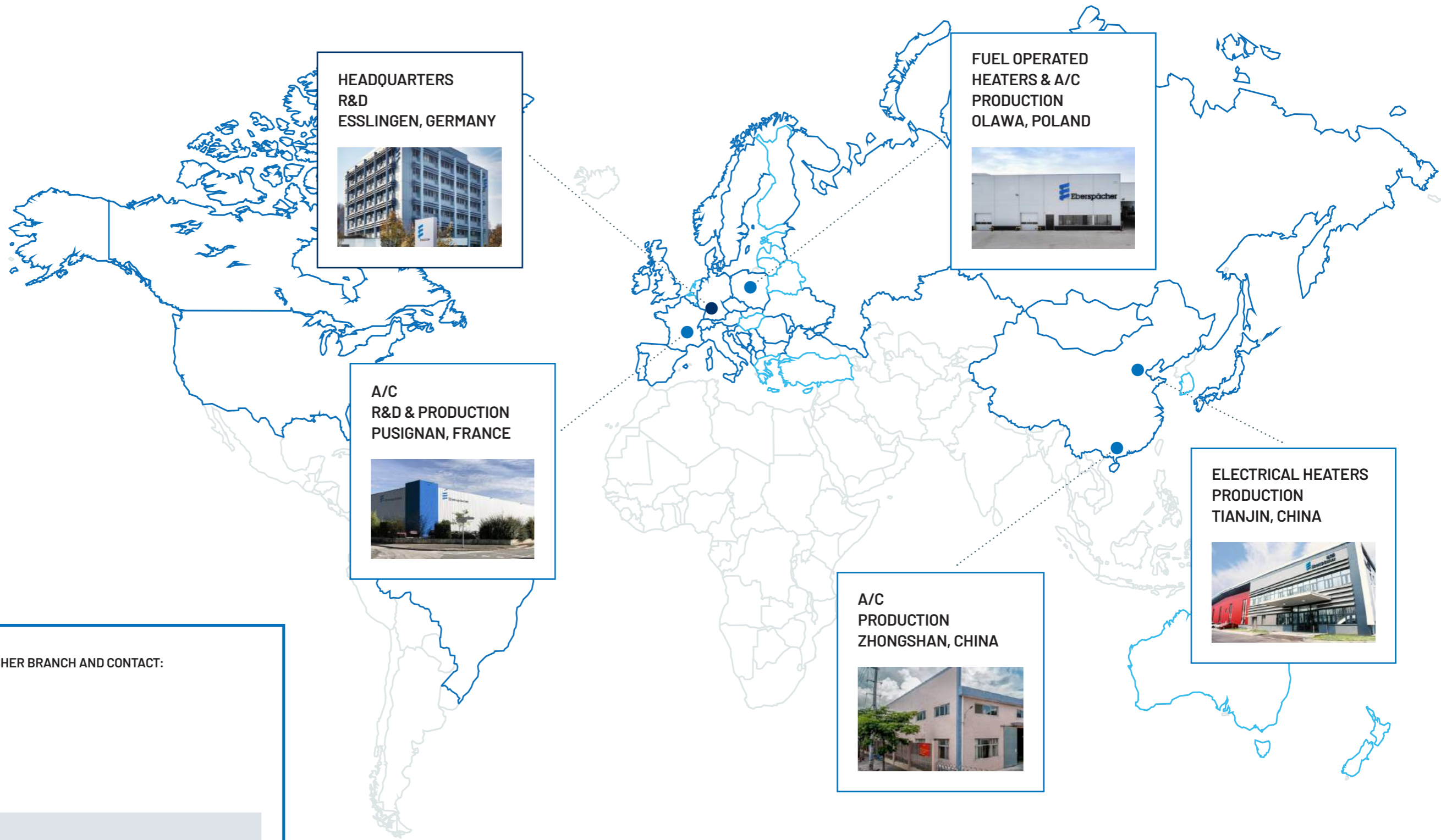


- Vehicle-independent solution for transporting temperature-sensitive goods at constant temperatures
- Easy to install and remove
- Autonomous versions with integrated battery supply available
- Single diecast body made of shock-resistant material

Version		T0056 FDH	F0140 FDH	F0720 FDH
Volume	L	56	140	720
Temperature range	°C	-24 to 40	-21 to 30	-24 to 30
Voltage range	VDC*	12 / 24	12 / 24	12
Max. current draw	A*	9	18	32
Weight	kg	33	57	153
Refrigerant		R134 a	R134 a	R404 a
Main dimensions l x w x h	mm	330 x 440 x 355	520 x 1,000 x 710	1,100 x 1,400 x 780

*At 12 V
 Sizes with other temperature ranges also available.

GLOBAL FOOTPRINT



YOUR REGIONAL EBERSPÄCHER BRANCH AND CONTACT:

BRANCHES
ESSLINGEN, GERMANY

SUBSIDIARY

GENERAL AGENTS

EBERSPÄCHER CLIMATE CONTROL SYSTEMS GMBH
EBERSPÄCHERSTRASSE 24
73730 ESSLINGEN / GERMANY

PHONE: +49 711 939-00
FAX: +49 711 939-0634
info@eberspaecher.com
www.eberspaecher-climate.com