Eberspächer

EN/INSTRUCTION MANUAL

FALKON EHV
FALKON EHVAC

8300 40100211 0H / EN / 04.2024

MARKET SEGMENTS

CONSTRUCTION

AGRICULTURE/
FORESTRY

RV

PUBLIC SAFETY

UTILITY/CARGO

PERSONAL
TRANSPORT

AMBULANCE

Refer to the safety information sheet supplied with the product, and to the risks and preventive measures indicated in the form of pictograms.

1 Prior information

1.1 Instructions for use

This document contains information necessary to operate your equipment.
Please print and keep this documentation in a safe place for future reference.

1.1.1 Intended Use

Eberspaecher Kalori equipment is designed to ventilate, pressurize, heat and/or cool passenger compartments and cabs, or to defrost the windscreen and windows of the vehicle.
The equipment is intended for professional use in L, M, N, O, T, C, R and S vehicles and in machines such as construction engineering machines, forestry machines, handling machines, tower cranes, mining machines or airport vehicles.
For all other professional uses, the installation must be carried out by a professional installer, who verifies that the equipment corresponds to the application.

1.1.2 Unauthorised use

Modifications to the equipment are strictly prohibited. Any unintended use and any other use of the equipment beyond or different from the intended use is considered to be misuse. The warranty becomes null and void and Eberspaecher Kalori is no longer liable.

This product is not intended for domestic use.

Eberspaecher Kalori equipment is not intended for the following applications:

- Long-term operation, for example for air conditioning or heating in homes, garages or containers

1.2 Installation instructions

Failure to comply with the warnings and safety instructions invalidates the warranty and means that Eberspaecher Kalori cannot be held liable.

The equipment must not be installed and used:

- in extremely dusty environments
- in an aggressive environment
- in the event of excessive vibrations of the machine or the vehicle
- in a way that does not comply with the regulations in force
- without full or partial compliance with the operating or assembly instructions
- without maintenance and/or use of original spare parts
- in such a way as to damage its environment
- so as not to be damaged by the environment.

The equipment should only be installed in the position indicated in the instruction manual.

The installation of this equipment in the vehicle or machine must ensure that it is protected against reasonably foreseeable impacts (e.g. kicking, etc.).

The installation, use and maintenance of the equipment must comply with the regulations in force in the country of use.

This equipment cannot be operated alone and must be supplemented by other components such as a diffuser , a control panel.

The equipment should be stored in a dry place.

Electrical parts that are not sealed must be protected against water and dust.

The equipment must be installed with an air filter upstream.

Ensure that all electrical components involved in the installation of the equipment are correctly sized.
Complete the electrical connections necessary for the wiring of the equipment, carefully following the instructions in the manual.
Provide electrical protection upstream of the equipment.

Electrical protections (disconnecting device, fuses) are not supplied with the equipment.

When integrating, ensure that no objects can be inserted into the equipment.

When integrating, check that the new air supply complies with the applicable regulations.

Dual voltage equipment must be powered by 2 different power sources. The 12Vdc and 24Vdc products must be powered by batteries.

A means of disconnection from the mains supply must be provided on the vehicle or machine wiring harness in accordance with the installation regulations. This sectioning equipment shall comply with an IEC product standard specific to this equipment, which meets the appropriate sectioning and use category and/or specified endurance requirements as defined in the product standard.

Power cables upstream of the equipment should be clamped.

This equipment is intended for indoor mounting and must not be subjected to weather or dust.

For >60VDC or >50Vac equipment:
Equipotential bonding cables with a cross-section of less than 4 mm 2 must be mechanically protected during product integration.

When integrating the equipment, ensure that the user cannot block all of the dispensing and suction vents.

When using an EHV or EHVAC with Multifluks face or a remote air distribution via throttle flaps, ensure that the blowing temperature does not exceed 80°C.

1.3 Legal regulation

Legal regulations are mandatory and must also be complied with in countries where there are no special regulations.

The manufacturer follows a policy of continuous development and, in this respect, reserves the right to make changes and improvements to the documentation and equipment without prior notice.

Compliance with legal provisions and all instructions and instructions contained in this document, as well as with the safety information supplied with the product, is a prerequisite to any warranty and liability claim.

Repairs by unauthorized third parties and/or with non-original spare parts are not permitted. This will result in the expiration of the equipment approval and may result in the expiration of the vehicle or machine operating license.

1.4 Type approval

For some components, the Centre National de Réception des Véhicules (National Vehicle Approval Centre) has issued a type approval according to ECE-R10 for installation in motor vehicles, with an official type approval marking noted on the component's nameplate.
Eberspaecher Kalori products should only be used in vehicles fully approved by the manufacturer.

1.5 CE declaration of conformity

We hereby declare that the version of the product we are placing on the market complies with the applicable provisions of the following European directives:

- CEM Directive 2014/30/EU

CE

- Machinery Directive 2006/42/CE

1.6 UKCA declaration of conformity

We hereby declare that the version of the product we are placing on the market complies with the applicable provisions of the following UKCA directives:

- The Electromagnetic Compatibility Regulations 2016
- The Supply of Machinery (Safety) Regulations 2008

UK CA

1.7 Cleaning and maintenance instructions

Wash with a damp cloth.

1.8 Note on environmental protection

WEEE Directive 2012/19/EU

Electrical and electronic devices should not be disposed of with household waste. Consumers are required by law to return electrical and electronic equipment at the end of its life to the public collection points provided for this purpose or to the point of sale. The details of this obligation are defined by the national legislation of the country concerned. The symbol on the product, the instruction manual or the packaging indicates that a product is subject to these regulations.

1.9 Technical support

If you have any technical questions or problems with the equipment, please contact your dealer.

2 Glossary

HV	Fan/Radiator
HVAC	Fan/Radiator/Evaporator
VAC	Fan/Evaporator
EHV	Fan/PTC elements
EHVAC	Fan/PTC elements/Evaporator
EHHV	Fan/PTC elements/Radiator
EHHVAC	Fan/PTC elements/Radiator/Evaporator
E	Equipment without diffuser side
G	Equipment with diffuser grille
ED2	Equipment with 2-outlet diffuser side
ED4	Equipment with 4-outlet diffuser side
ED6	Equipment with 6-outlet diffuser side
KC	Equipment with adjustable and closable outlets
KG	Equipment with adjustable outlets
FAI	Equipment with control
Multifluks	Equipment with flap diffusion

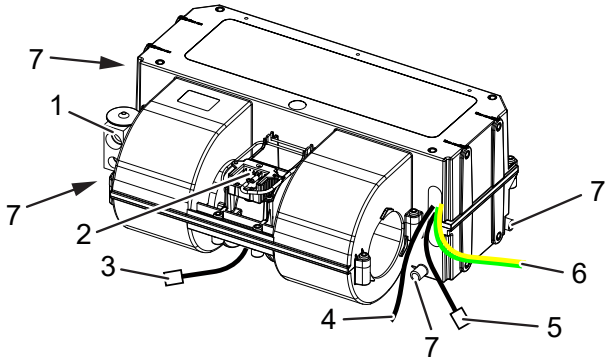
3 List of equipment concerned

If your equipment is not described in the table below, please contact your dealer for specific documentation.
The attached installation manual is for the following part numbers:

Part number	Description	Type		Ventilation voltage		PTC voltage		Diffuser		
		EHVAC	EHV	12V	24V	300-800Vdc	400-480Vac 3 ~ 50/60Hz	E	ED6	Multifluks
8300 12028016	FALKON EHV ED6 12V /300-800VDC 6000		●	●		●			●	
8300 12028160	FALKON EHV ED6 24V /300-800VDC 6000		●		●	●			●	
8300 12037000	FALKON EHV ED6 24V /400-480VAC 50/60Hz 3000		●		●		●		●	
8300 12219181	FALKON EHVAC E 24V /300-800VDC 6000	●			●	●		●		
8300 12219177	FALKON EHVAC Multifluks 12V /300-800VDC 6000	●		●		●				●

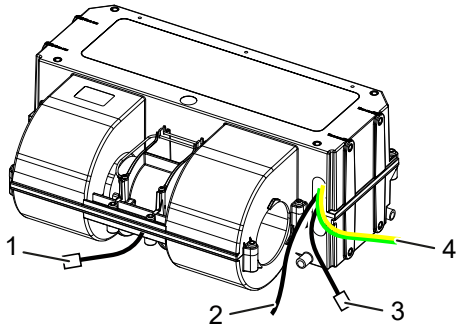
4 Product information

4.1 Overview FALKON EHVAC VDC current



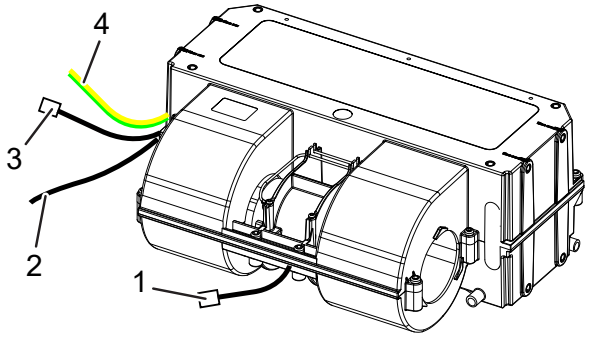
No	Description
1	Regulator
2	Anti-freeze thermostat
3	Fan connector
4	Electric heater cable
5	Thermal switch connector
6	equipotential bonding
7	Condensate connection

4.2 Overview FALKON EHV VDC current



No	Description
1	Fan connector
2	Electric heater cable
3	Thermal switch connector
4	equipotential bonding

4.3 Overview FALKON EHV VAC current



No	Description
1	Fan connector
2	Electric heater cable
3	Thermal switch connector
4	equipotential bonding

4.4 Typical technical data EHVAC

MODEL	FALKON	
Heating capacity	3000 W - 10236 BTU/hr to 6000 W - 20472 BTU/hr	
Cooling capacity	7.7 kW - 26273 BTU/hr	
Refrigerant	R134a / R1234yf	
Air flow	725m³/hr - 426 CFM	
Nominal voltage - fan (+/-10%)	12V	24V
Max. Fan consumption (1)	360W	
Rated voltage - PTC (2)	300-800VDC	
Max. Consumption PTC (+/-20%) (1) (2)	3000 W to 6000 W	
Operating temperature range (3)	-20 / +40°C [-4 / +104°F]	
Storage temperature range	-30 / +70°C [-22 / +158°F]	
Maximum allowable pressure low pressure circuit	15 bar	
Maximum permissible pressure high pressure circuit	30 bar	
Fuse fan (4)	20A	15A
Weight	7 kg - 15.4 lbs	

4.5 Typical technical data EHV

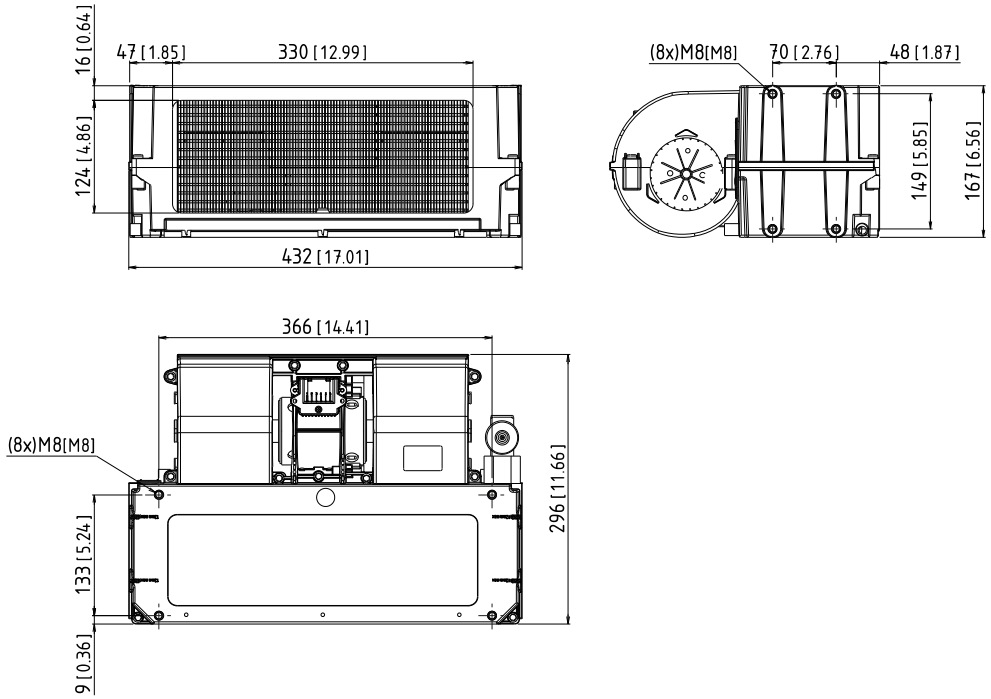
MODEL	FALKON	
Heating capacity	3000 W - 10236 BTU/hr to 6000 W - 20472 BTU/hr	
Air flow	725m³/hr - 426 CFM	
Nominal voltage - fan (+/-10%)	12V	24V
Max. Fan consumption (1)	360W	
Rated voltage - PTC (2)	300-800VDC or 400-480VAC 3~ 50/60Hz	
Max. Consumption PTC (+/-20%) (1) (2)	3000 W to 6000 W	
Operating temperature range	-20 / +40°C [-4 / +104°F]	
Storage temperature range	-30 / +70°C [-22 / +158°F]	
Fuse fan (4)	20A	15A
Weight	7 kg - 15.4 lbs	

(1) Inrush current can vary from 1 to 10 times the rated current of the product depending on integration and operating conditions. To be checked on the vehicle.
(2) refer to the product identification label for specific technical data for your equipment.
(3) the maximum operating temperature of the equipment depends on its location in the vehicle, as well as on the complete loop of the air conditioning (condenser / compressor, etc.). A suction temperature of 40°C will result in a blowing temperature >150°C.
(4) Must be checked following vehicle installation.

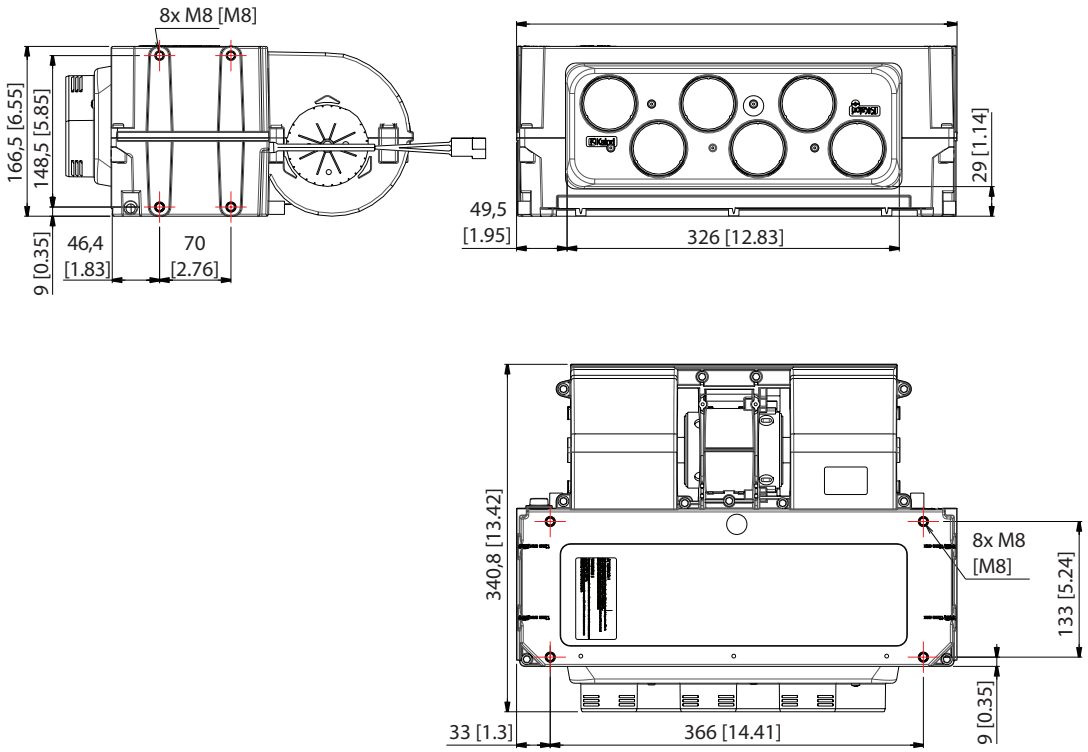
Use of the equipment outside the specified technical data may result in malfunctions.
The technical data must be observed at all times.

4.6 Main Dimensions

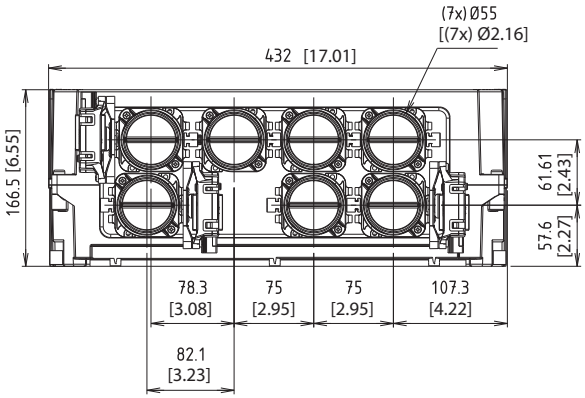
4.6.1 FALKON E

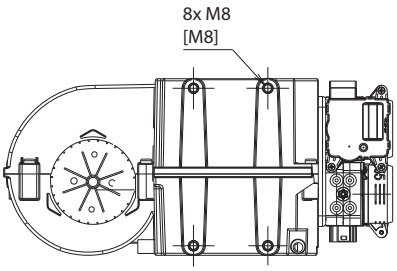


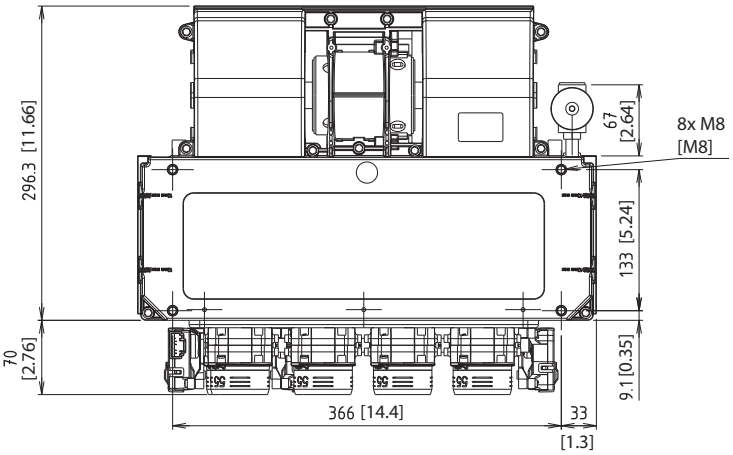
4.6.2 FALKON ED6



4.6.3 FALKON Multifluks



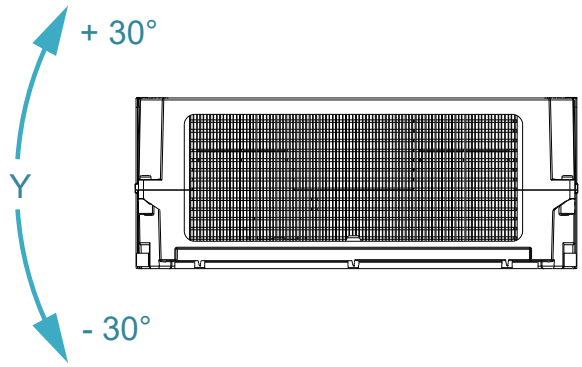


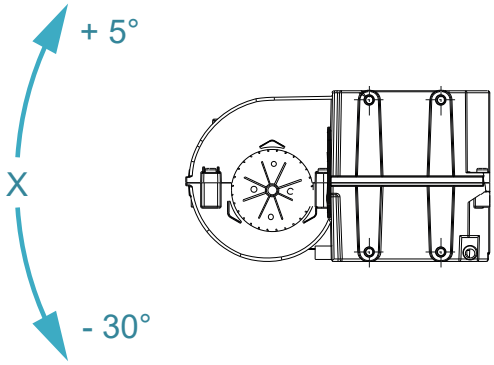


5 Installation

Installation equipment is not included in the scope of supply.
Mounting accessories can be ordered separately.
Provide sufficient intake area so as not to impair the equipment's airflow.

5.1 Operating position

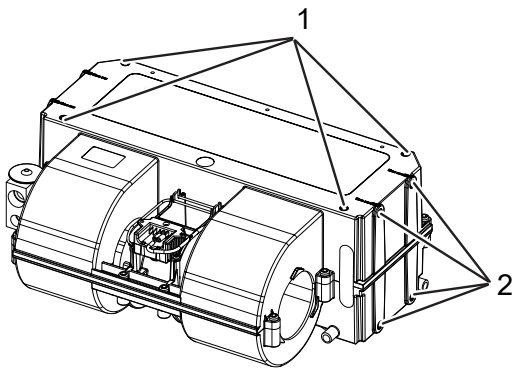




Maximum angle of use	
X-axis	+/-5°
Y-axis	+/-5°
Z-axis	360°

5.2 Attachment of equipment

- 8 inserts **(1)** for attaching (4 on each side).
- 8 inserts **(2)** for attaching (4 on each side).

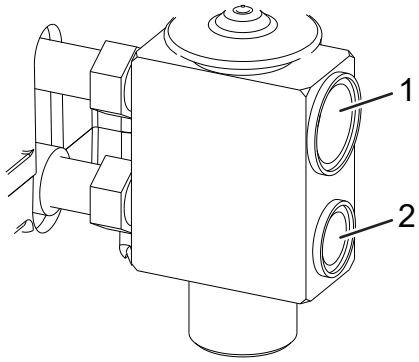


Type of attachment	Torque (Nm)
M8 bolts	5

Insufficient bolt quality or too low or too high a torque can have a negative effect on the equipment.
The number of attachment points to be used depends on the conditions under which the equipment will be used.

5.3 Connection to expansion valve (for EHVAC)

Lubricate the seals before assembly with the same oil as the compressor.
Hold the regulator in position while tightening the fittings.
Apply butyl tape to prevent condensation.



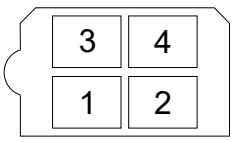
No	Description	Tightening torque (Nm)
1	M10 – 7/8"-18UNS	33
2	M06 – 5/8"-18UNF	16

5.4 Connection to condensate connections (for EHVAC)

Only use an inner hose with Ø12 with spring clamps (to be determined according to the hose used).

5.5 Electrical connection

5.5.1 Fan



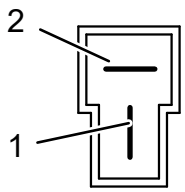
Wire side view
Stocko opposite connector VV2026.200

No	Description
1	Ground
2	Low speed
3	High speed
4	Medium speed

5.5.2 Equipment with antifreeze thermostat (for EHVAC)

See assembly instructions ref 8300 40100050 0.

5.5.3 Thermal switch



Wire side view
Opposite connector Stocko VV2041.200

No	Description
1	Thermal switch input
2	Thermal switch output

5.5.4 PTC

The equipment is supplied with bare wires.
Before installation, an electrical connector must be installed on the equipment.

400-480VAC 3~ 50/60Hz

Description	Wire color	Section
PTC connection	Brown	2.5^2
	Black	2.5^2
	Grey	2.5^2
Equipotential bonding	Green/yellow	2.5^2

300-800VDC

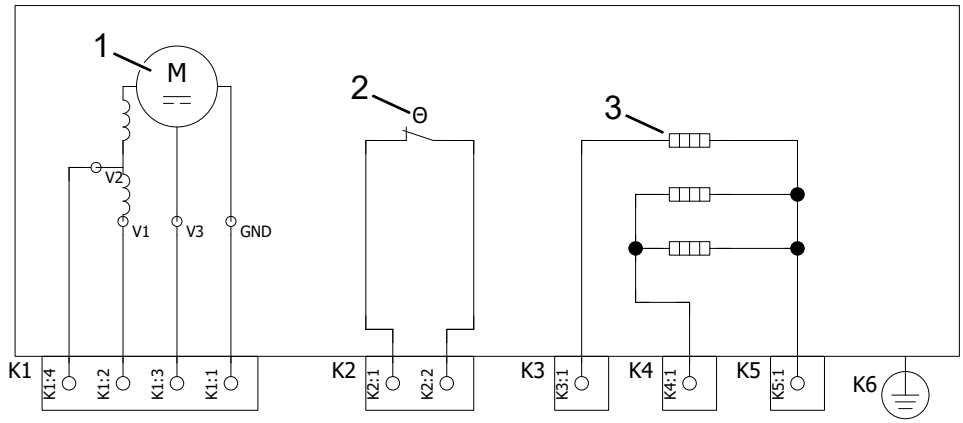
Description	Wire color	Section
PTC connection (1/3)	Green	2.5^2
PTC connection (2/3)	Red	2.5^2
Ground	Black	4^2
Equipotential bonding	Green/yellow	6^2

5.5.5 Electrical installation

The PTC resistor must not be activated without ventilation.

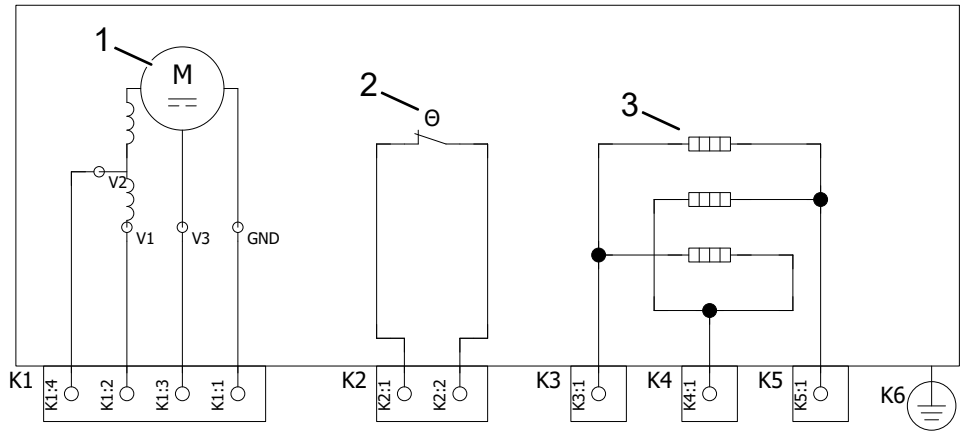
The equipotential bonding cable to be connected to the insulation Monitoring Device (IMD) is not included in the supply.

5.5.6 Electrical schematic for EHV 300-800Vdc



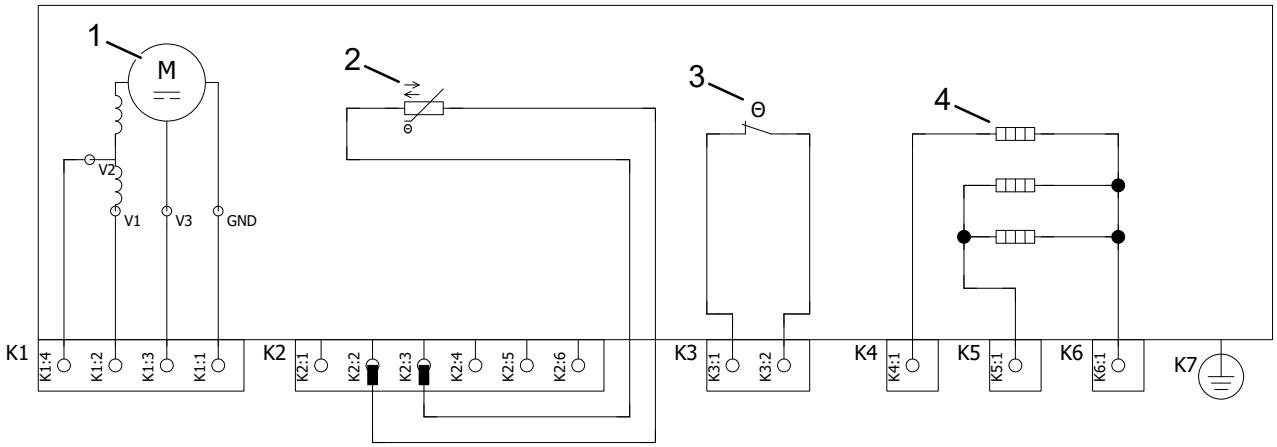
No	Description	No	Description
K1	Fan connector	K6	Equipotential bonding - yellow green wire
K2	Thermal switch connector	1	Fan
K3	PTC connection - green wire	2	Thermal switch
K4	PTC connection - red wire	3	PTC elements
K5	PTC connection - black wire		

5.5.7 Electrical schematic for EHV 400-480VAC 3~50/60Hz



No	Description	No	Description
K1	Fan connector	K6	Equipotential bonding - yellow green wire
K2	Thermal switch connector	1	Fan
K3	PTC connection - brown wire	2	Thermal switch
K4	PTC connection - Black wire	3	PTC elements
K5	PTC connection - gray wire		

5.5.8 Electrical schematic for EHVAC 300-800Vdc



No	Description	No	Description
K1	Fan connector	K7	Equipotential bonding - yellow green wire
K2	Anti-freeze thermostat connector	1	Fan
K3	Thermal switch connector	2	Antifreeze probe
K4	PTC connection - Green wire	3	Thermal switch
K5	PTC connection - Red wire	4	PTC elements
K6	PTC connection - Black wire		

5.5.9 Electrical diagram (with diffuser Multifluks)

See assembly instructions ref. 8300 40100232 0.

6 Maintenance

The following maintenance checklist should be carried out by qualified personnel. The frequencies indicated are indicative and must be adapted according to the environment.
Contact your dealer in case of a failure detected during maintenance.

Every month

	EHV	EHVAC
Clean and/or replace the air filter(s)	●	●
Check that the condensate drains are not blocked.		●

Every six months

	EHV	EHVAC
Check that the fan(s) is (are) still able to operate.	●	●
Check the tightness of the various screws and fittings.	●	●
Check for corrosion of metal parts, housings, screws and inserts. Change these parts if necessary.	●	●
Check the integrity/tightness of all electrical parts: power cables, ground cable, grommets, connectors, lugs, fan, motor resistor, protective equipment such as fan thermal fuses, etc. (non-exhaustive list).	●	●
Check the electrical continuity of the equipotential connection	●	●
Check that the PTC thermostat is working properly. Change if necessary.	●	●
Check that the antifreeze sensor is working properly. Change if necessary.		●
Check that the anti-freeze thermostat (if there is one) is working properly. Change if necessary.		●
Check that the heat exchangers are not susceptible to clogging by dusty/polluted air.	●	●
Check that the PTCs are not susceptible to clogging by dusty/polluted air.	●	●

Every 5000 hours:

	EHV	EHVAC
Evaporator to be replaced if used with R1234yf gas		●

7 Repair

Malfunction	Possible cause	Solution	EHV	EHVAC
Poor ventilation	Clogged air intake	Check the heat exchanger for dirt and clean if necessary	●	●
		Check the air filter for dirt and replace if necessary	●	●
	Blowing out clogged air	Check air diffusion for dirt and clean if necessary	●	●
	Fan off	Check the electrical connections and replace if necessary	●	●
		Check the fuse and replace if necessary	●	●
	End of life of the fan	Contact your dealer, see the spare parts list for the part number to order	●	●
	Faulty fan resistor	Check the fan resistor and replace if necessary	●	●
	Faulty instrumentation and control	Check the instrumentation and control and replace if necessary	●	●
	Faulty power supply	Check the fuse and replace if necessary	●	●
Low cooling capacity	Faulty anti-icing sensor	Check the sensor and replace if necessary		●
	Faulty anti-freeze thermostat	Check the thermostat and replace if necessary		●
	Faulty regulator	Contact your dealer		●
	Faulty ventilation	See "Poor ventilation" malfunction		●
	Dirty exchanger(s)	Check the heat exchanger(s) for dirt and clean if necessary		●
	Lack of refrigerant	Check the refrigerant content of the system Carry out a leak test, repair if necessary and re-charge.		●
	Faulty instrumentation and control	Check the instrumentation and control and replace if necessary		●
	Faulty power supply	Check the fuse and replace if necessary		●
Low heating capacity	Faulty PTC elements	Contact your dealer	●	●
	Faulty ventilation	See "Poor ventilation" malfunction	●	●
	Faulty instrumentation and control	Check the instrumentation and control and replace if necessary	●	●
	Faulty power supply	Check the fuse and replace if necessary	●	●
Abnormal noise and/ or vibration		Turn off the equipment and contact your dealer	●	●

8 CE - Declaration of conformity & Declaration of incorporation of a quasi-machine

8.1 FALKON EHV

Eberspächer

Pusignan, **28/11/22**

PART NUMBER 8300 40130004 0E / EN / 11.2022

CE - Declaration of conformity & Declaration of incorporation of a quasi-machine

The products of the family FALKON HV / FALKON EHV

- **are compliant with the directive** CEM 2014/30/UE **:**
  ISO 13766, EN 50498, EN 13309, EN 14982

  The products are delivered with A CE marking for this purpose.

- **Comply with the Machinery Directive** 2006/42/CE **Annex I paragraphs 1.1.5, 1.3.1, 1.3.2, 1.3.4, 01/05/2010, 01/05/2011, 1.7 :**
  - EN 60204-1 Septembre 2018 **paragraphs 4.1, 4.2.1, 4.3, 4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5, 4.5, 4.6,6.1, 6.2, 6.3,7.1, 7.2.1, 7.2.3, 7.2.4, 7.2.8, 7.3.1, 7.4, 7.5, 7.6, 7.7,8.1, 8.2,12.1, 12.2, 12.3, 12.4, 12.6,13.1.3, 13.2.1, 13.2.2, 13.2.3, 13.5.1.14.1, 14.2, 14.3,16, 17, 18**

  Such equipment is partly completed machinery and must not be put into service until the final machinery in which it is to be incorporated has been declared to comply with the relevant provisions of the Machinery Directive 2006/42/CE

  Eberspaecher Kalori **undertakes, following a duly substantiated request from the national authorities, to transmit the relevant information concerning such partly completed machinery.**

Technical Manager: Stéphanie LE FAUCHEUR **- Engineering manager**

BONTEMPS Olivier
General Manager

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Eberspächer Kalori S.A.S. au capital de 350 015€
SIRET 443 021 522 00018
APE 2932Z No intracommunautaire FR66 443 021 522
RCS LYON 443 021 522

8.2 FALKON EHVAC

Eberspächer

Pusignan, **28/11/22**

PART NUMBER 8300 40130018 0F / EN / 11.2022

CE - Declaration of conformity & Declaration of incorporation of a quasi-machine

The products of the family FALKON VAC / FALKON HVAC / FALKON EHVAC / FALKON VAC ETXV / FALKON HVAC ETXV

- **are compliant with the directive** CEM 2014/30/UE **:**
  ISO 13766, EN 50498, EN 13309, EN 14982

  The products are delivered with A CE marking for this purpose.

- **Comply with the Machinery Directive** 2006/42/CE **Annex I paragraphs 1.1.5, 1.3.1, 1.3.2, 1.3.4, 01/05/2010, 01/05/2011, 1.7 :**
  - EN 60204-1 Septembre 2018 **paragraphs 4.1, 4.2.1, 4.3, 4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5, 4.5, 4.6,6.1, 6.2,6.3,7.1, 7.2.1, 7.2.3, 7.2.4, 7.2.8, 7.3.1, 7.4, 7.5, 7.6, 7.7,8.1, 8.2,12.1, 12.2, 12.3, 12.4, 12.6,13.1.3, 13.2.1, 13.2.2, 13.2.3, 13.5.1.14.1, 14.2, 14.3,16, 17, 18**
  - EN 378-1+A1 – octobre 2020, EN 378-2 – avril 2017

  Such equipment is partly completed machinery and must not be put into service until the final machinery in which it is to be incorporated has been declared to comply with the relevant provisions of the Machinery Directive 2006/42/CE**.**

  Eberspaecher Kalori **undertakes, following a duly substantiated request from the national authorities, to transmit the relevant information concerning such partly completed machinery.**

Technical Manager: Stéphanie LE FAUCHEUR **- Engineering manager**

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Eberspächer Kalori S.A.S. au capital de 350 015€
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APE 2932Z No intracommunautaire FR66 443 021 522
RCS LYON 443 021 522

9 UKCA Statement

9.1 FALKON EHV

Pusignan, **28/11/22**

PART NUMBER 8300 40135009 0C / EN / 11.2022

UKCA - Declaration of conformity & Declaration of incorporation of a quasi-machine

The products of the family FALKON HV / FALKON EHV

- **are compliant with the directive** "Electromagnetic Compatibility Regulations 2016" **:**
  ISO 13766, EN 50498, EN 13309, EN 14982

  The products are delivered with A UKCA marking for this purpose.

- **Comply with Annex I, paragraphs 1.1.5, 1.3.1, 1.3.2, 1.3.4, 1.5.10 , 1.5.11, 1.7 of the directive machine** "Supply of Machinery (Safety) Regulations 2008" **:**
  - EN 60204-1 Septembre 2018 **paragraphs 4.1, 4.2.1, 4.3, 4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5, 4.5, 4.6,6.1, 6.2, 6.3,7.1, 7.2.1, 7.2.3, 7.2.4, 7.2.8, 7.3.1, 7.4, 7.5, 7.6, 7.7,8.1, 8.2,12.1, 12.2, 12.3, 12.4, 12.6,13.1.3, 13.2.1, 13.2.2, 13.2.3, 13.5.1.14.1, 14.2,14.3,16, 17, 18**

  Such equipment is partly completed machinery and must not be put into service until the final machinery in which it is to be incorporated has been declared to comply with the relevant provisions of the Machinery Directive "Supply of Machinery (Safety) Regulations 2008"

  Eberspaecher Kalori **undertakes, following a duly substantiated request from the national authorities, to transmit the relevant information concerning such partly completed machinery.**

Technical Manager: Stéphanie LE FAUCHEUR **- Engineering manager**

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9.2 KALKON EHVAC

Eberspächer

Pusignan, **29/11/22**

PART NUMBER 8300 40135023 0C /EN / 11.2022

UKCA - Declaration of conformity & Declaration of incorporation of a quasi-machine

The products of the family FALKON VAC / FALKON HVAC / FALKON EHVAC / FALKON VAC ETXV / FALKON HVAC ETXV

- **are compliant with the directive** "Electromagnetic Compatibility Regulations 2016" **:**
  ISO 13766, EN 50498, EN 13309, EN 14982

  The products are delivered with A UKCA marking for this purpose.

- **Comply with Annex I, paragraphs 1.1.5, 1.3.1, 1.3.2, 1.3.4, 1.5.10 , 1.5.11, 1.7 of the directive machine** "Supply of Machinery (Safety) Regulations 2008" **:**
  - EN 60204-1 Septembre 2018 **paragraphs 4.1, 4.2.1, 4.3, 4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5, 4.5, 4.6,6.1, 6.2, 6.3,7.1, 7.2.1, 7.2.3, 7.2.4, 7.2.8, 7.3.1, 7.4, 7.5, 7.6, 7.7,8.1, 8.2,12.1, 12.2, 12.3, 12.4, 12.6,13.1.3, 13.2.1, 13.2.2, 13.2.3, 13.5.1.14.1, 14.2,14.3,16, 17, 18**
  - EN 378-1+A1 – octobre 2020, EN 378-2 – avril 2017

  Such equipment is partly completed machinery and must not be put into service until the final machinery in which it is to be incorporated has been declared to comply with the relevant provisions of the Machinery Directive "Supply of Machinery (Safety) Regulations 2008"

  Eberspaecher Kalori **undertakes, following a duly substantiated request from the national authorities, to transmit the relevant information concerning such partly completed machinery.**

Technical Manager: Stéphanie LE FAUCHEUR **- Engineering manager**

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