Edition: 1.1.2010 · BA 701-EN

Original Operating Instructions
F-CEV-S / F-CEV-D

F-CEV 3709-S2 → S5 / F-CEV 3718-S2 → S4
F-CEV 3709-D2 → D5 / F-CEV 3718-D2 → D4

Elmo Rietschle
A Gardner Denver Product

F-Serie
F-Series

Radial
Radial

Table of contents

1 Foreword

1.1 Principles

These operating instructions:

- are a part of the following radial blower models F-CEV 3709-S2 to F-CEV 3718-D4.
- describe how to use them safely and properly in all life phases.
- must be available where the equipment is used.

1.2 Target group

The target group for these instructions is technically trained specialists.

1.3 Supplier documentation and accompanying documents

Document	Contents	No.
Supplier documentation	Operating Instructions	BA 701-EN
	Declaration of Conformit	C 0003-EN
	Declaration of harmlessness	7.7025.003.17
Spare parts' list	Spare parts' document	E 702 (F-CEV-S)
Data sheet	Technical data and graphs	D 701 (F-CEV-D), D 702 (F-CEV-S)
Manufacturer's declaration	EU Directive 2002/95/EG (RoHS)	—

1.4 Abbreviations

Fig.	Figure
F-CEV-S, F-CEV-D	Radial blower
m^3/min	Volume flow, capacity
mbar	Pressure difference

1.5 Directives, standards, laws

See Conformity Declaration

1.6 Symbols and meaning

Symbol	Explanation
▷	Condition, pre-requisite
####	Instructions, action
a), b),...	Instructions in several steps
⇨	Results
[-> 14]	Cross reference with page number
	Information, note
	Safety symbol Warns of potential risk of injury Obey all the safety instructions with this symbol in order to avoid injury and death.

1.7 Technical terms and meaning

Term	Explanation
Machine	Blower and motor combination ready to be connected
Motor	Blower drive motor
Radial blower	Machine for both suction and pressure operation, high volume flow at small differential pressures
Radial	Machine's design or active principle
Volume flow	The volume flow names how much air or gas volume is conveyed per time unit of a blower or streams through a pipeline
Pressure difference	Pressure difference in opposite to the atmospheric pressure at 1 bar (abs.) and 20°C
Noise emission	The noise emitted at a specific loading given as a figure, sound pressure level dB(A) as per EN ISO 3744.

1.8 Copyright

2 Safety

The manufacturer is not responsible for damage if you do not follow all of this documentation.

2.1 Warning instruction markings

Warning	Danger level	Consequences if not obeyed
DANGER	immediately imminent danger	Death, severe bodily injury
WARNING	possible imminent danger	Death, severe bodily injury
CAUTION	possible hazardous situation	Slight bodily injury
NOTICE	possible hazardous situation	Material damage

2.2 General

These operating instructions contain basic instructions for installation, commissioning, maintenance and inspection work which must be obeyed to ensure the safe operation of the machine and prevent physical and material damage.
The safety instructions in all sections must be taken into consideration.
The operating instructions must be read by the responsible technical personnel/ operator before installing and commissioning and must be fully understood. The contents of the operating instructions must always be available on site for the technical personnel/operator. Instructions fixed directly onto the machine must be obeyed and must always remain legible. This applies for example to:

- Symbols for connections
- Data and motor data plate
- Instruction and warning plates

The operator is responsible for observing local regulations.

2.3 Designated use

The machine must only be operated in such areas as are described in the operating instructions:

- only operate the machine in a technically perfect condition
- do not operate the machine when it is only partially assembled
- the machine must only be operated at an ambient temperature of between 5 and 40°C, the temperatures of the media handled may not exceed 50°C
  Please contact us for temperatures outside this range.
- the machine may convey, compress or extract the following media:
  - convey air with a relative humidity up to 90%
  - all non-explosive, non-inflammable, non-aggressive and non-poisonous dry gases and gas air mixtures
- the machine must only be operated under a throttled condition to avoid motor overload, when not connected to a system the machine should not be used

2.4 Unacceptable operating modes

- extracting, conveying and compressing explosive, inflammable, aggressive or poisonous media, e.g. dust as per ATEX zone 20-22, solvents as well as gaseous oxygen and other oxidants, water vapour, traces of oil, liquids or solid materials
- using the machine in non-commercial plants if the necessary precautions and protective measures have not been taken in the plant
- installing in environments that are at risk of explosions
- using the machine in areas with ionising radiation
- modifications to the machine and accessories

2.5 Personal qualifications and training

- Ensure that people entrusted with working on the machine have read and understood these operating instructions before starting work, particularly the safety instructions for installation, commissioning, maintenance and inspection work.
- Manage the responsibilities, competence and monitoring of staff
- all work must only be carried out be technical specialists:
  - Installation, commissioning, maintenance and inspection work
  - Working with electricity
- personnel being trained to work on the machine must be supervised by technical specialists only

2.6 Safety-conscious work

The following safety regulations apply in addition to the safety instructions and intended use listed in these instructions:

- Accident prevention regulations, safety and operating regulations
- the standards and laws in force

2.7 Safety notes for the operator

- hot parts of the machine must not be accessible during operation or must be fitted with a guard
- eople must not be endangered by the free extraction or discharge of pumped media
- Risks arising from electrical energy must be eliminated.

2.8 Safety instructions for installing, commissioning and maintenance

- The operator will ensure that any installation, commissioning and maintenance work is carried out by authorised, qualified specialists who have gained sufficient information by an in-depth study of the operating instructions.
- Only work on the machine when it is idle and cannot be switched on again
- Ensure that you follow the procedure for decommissioning the machine described in the operating instructions.
- Fit or start up safety and protective devices again immediately after finishing work. Vor Wiederinbetriebnahme die aufgeführten Punkte für die Inbetriebnahme beachten
- Conversion work or modifications to the machine are only permissible with the manufacturer's consent.
- Only use original parts or parts approved by the manufacturer. The use of other parts may invalidate liability for any consequences arising.
- Keep unauthorised people away from the machine

2.9 Guarantee conditions

The manufacturer's guarantee or warranty will no longer apply in the following cases:

- Improper use
- Not complying with these instructions
- Operation by insufficiently qualified staff
- Using spare parts that have not been approved by **Gardner Denver Schopfheim GmbH**
- Unauthorised modifications to the machine or the accessories supplied by **Gardner Denver Schopfheim GmbH**

3 Transport, storage and disposal

3.1 Transportation

3.1.1 Unpack and check the delivery condition

a) Unpack the machine on receipt and check for transport damage.
b) Notify the manufacturer of transport damage immediately
c) Dispose of the packaging in accordance with the local regulations in force.

3.1.2 Lifting and transporting

⚠ WARNING

Hurt or limbs crushed as a result of the items being transported falling or tipping over.

▷ When transporting ensure:
a) that the machine is secured against tipping and falling.
b) Put the goods to be conveyed on a horizontal base.
c) he blowers are equipped with rubber feet.

Fig. 1 Lifting and transporting

1 Rubber feet

3.2 Storage

NOTICE

Material damage caused by improper storage.

▷ Ensure that the storage area meets the following conditions:

a) dust free

b) vibration free

3.2.1 Ambient conditions for storage

Ambient conditions	Value
Relative humidity	0 % to 80 %
Lagertemperatur	-10°C to +60°C

The machine must be stored in a dry environment with normal air humidity. It should not be stored for more than 6 months.

3.3 Disposal

WARNING

Danger from inflammable, corrosive or poisonous substances.
Machines that come into contact with hazardous substances must be decontaminated before disposal.

▷ When disposing ensure the following::

a) Collect oils and grease separately and dispose of in accordance with the local regulations in force.

b) Do not mix solvents, limescale removers and paint residues

c) Remove components and dispose of them in accordance with the local regulations in force.

d) Dispose of the machine in accordance with the national and local regulations in force.

e) Parts subject to wear and tear (marked as such in the spare parts list) are special waste and must be disposed of in accordance with the national and local waste laws.

4 Set up and operation

4.1 Setup

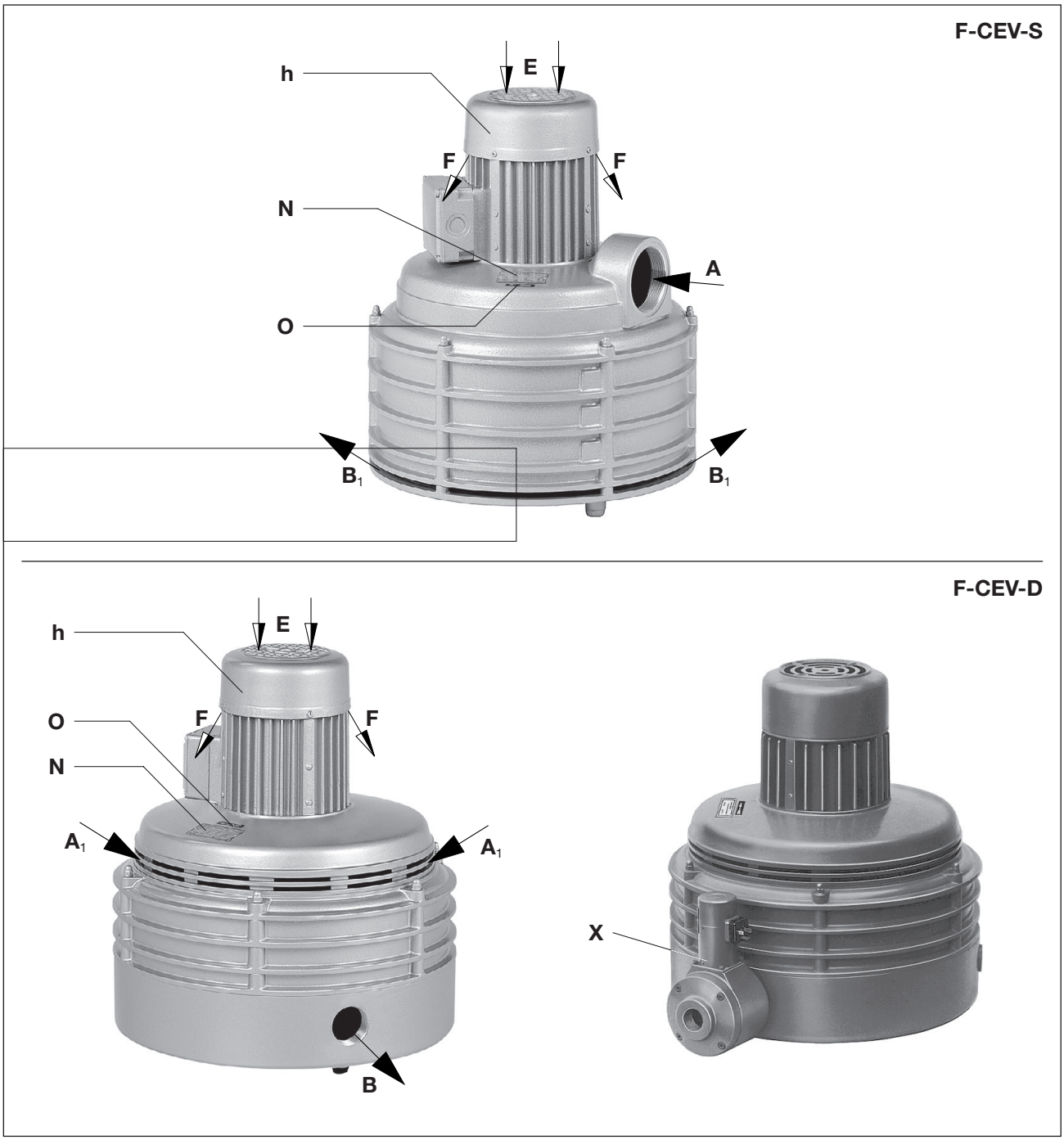

Fig. 2 Radial blower F-CEV-S (Vacuum version) / F-CEV-D (Pressure version)

A	Vacuum connection	**F**	Cooling air exit
A_1	Suction	**N**	Data plate
B	Pressure connection	**O**	Direction of rotation
B_1	Exhaust air exit	**X**	Solenoid valve
E	Cooling air entry	**h**	Motor cover

4.1.1 Data plate

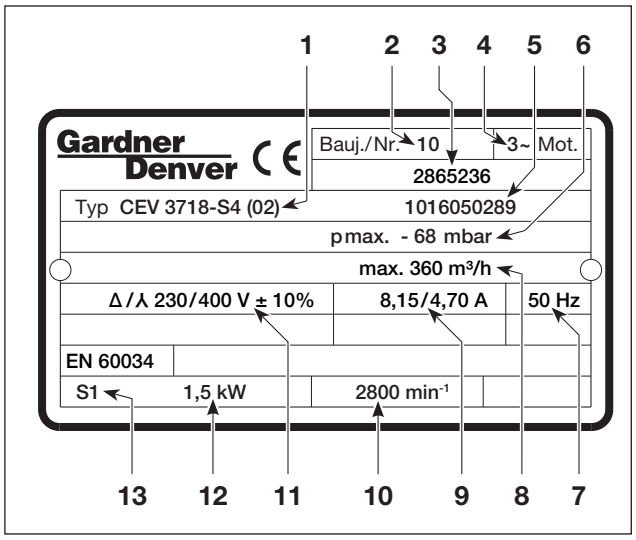

Fig. 3 Data plate

1	Type/ Size (mechanical version)
2	Year of construction
3	Serial number
4	Motor design
5	Item no.
6	Pressure difference
7	Frequency
8	Capacity
9	Current drawn
10	Speed
11	Voltage
12	Motor rating
13	Operating mode

4.2 Description

The multistage radial blowers F-CEV-S and F-CEV-D work according to the dynamic compressing principle utilising non contact rotating impellors and are maintenance-free.
Model F-CEV-S is equipped with a vacuum connection (Fig. 2/A) and the F-CEV-D (Fig. 2/B) with a pressure connection). The motor and blower form a very compact unit. A shaft seal is fitted between the bearing and pumping chamber. The impellors are fixed onto an extended vertical motorshaft.
All F-CEV-D can be equipped with a solenoid valve (Fig. 2/X).
The F-CEV 3718-S3 (08) is equipped with a motor starter by default.

4.3 Areas of application

Model F-CEV-S can be operated as vacuum pump and F-CEV-D as compressor.
They have capacities upto 9,3 m^3/min and obtain a pressure difference of up to 125 mbar. The pressure and vacuum limits are indicated on the data plate (Fig. 2/N). The performance curves showing capacity against vacuum or pressure can be seen in data sheets D 701 (F-CEV-D) and D 702 (F-CEV-S).

If the unit is switched on more frequently (at regular intervals of about 10 times per hour or at higher ambient temperatures and intake temperatures, the excess temperature limit of the motor winding and the bearings may be exceeded.Please contact the manufacturer should the unit be used under such conditions.

If it is installed in the open air the unit must be protected from environmental influences, (e.g. by a protective roof).

5 Installation

5.1 Preparing for installation

Check the following points:

- Machine freely accessible from all sides
- Do not close ventilation grids and holes
- Sufficient room for installing and removing pipes and for maintenance work, particularly for installing and dismantling the machine
- No external vibration effects
- Do not suck any hot exhaust air from other machines into the cooling system.

The cooling air inlets (Fig. 2/E) and the cooling air outlets (Fig. 2/F) must be at least 10 cm away from adjacent walls. Cooling air coming out must not be sucked in again.
Additionally care should be taken that the suction air entry (Fig. 2/A_1) and the exhaust air exit (Fig. 2/B_1) are not obscured.

5.2 Installation

NOTICE

We would recommend placing the units on rubber feet for trouble free operation.

Material damage resulting from the machine tipping over and falling.

When installed at more than 1000 m above sea level a reduction in power is noticeable. In this case we would ask you to contact us.

Ensure that the foundation complies with the following conditions:

- Even and level
- The bearing surface must be designed to be able to take the weight of the machine

It is possible to install the machine on a firm base without anchoring. When installing on a substructure we recommend fixing with flexible buffers.

5.3 Connecting pipes

a) When on vacuum operation (F-CEV-S) connect the suction pipe at (Fig. 2/A) and when on pressure operation (F-CEV-D) connect the pressure pipe at (Fig. 2/B).

NOTICE

Long and/or small bore pipework should be avoided as this tends to reduce the capacity of the blower.

Radial blowers must only be operated under a throttled condition to avoid motor overload. The units should not be used when not connected to a system.

b) Check to ensure the intake line and pressure connection are connected correctly.

5.4 Connecting the motor

DANGER

Danger of death if the electrical installation has not been done professionally.
The electrical installation must only be done by a qualified electrician observing EN 60204. The operating company has to provide the main switch.

a) The motor‘s electrical data is given on the data plate (Fig. 2/N) or on the motor data plate. The motors comply with DIN EN 60034 and are in protection class IP 54 and insulation class F. The appropriate connection diagram is located in the motor‘s terminal box (not for the plug connection version). The motor data must be compared with the data of the existing mains network (current type, voltage, network frequency, permitted current value).

b) Connect the motor via the plug connection or a motor protection switch (for safety reasons a motor protection switch is required and cable fitting must be provided to provide strain relief for the connection cable). We recommend using motor protection switches with delayed switch off, depending on possible excess current. Temporary excess current may occur when the machine is started cold.

c) When using a solenoid valve (Fig. 2/X) this must also be connected. The information concerning the voltage for the solenoid should also be considered.

NOTICE

Power supply
The conditions at the installation location must match the information on the motor data plate. Without derating the following is permissible:
- ± 5% Voltage deviation
- ± 2% Frequency deviation

6 Commissioning and decommissioning

6.1 Commissioning

WARNING

Improper use
May lead to severe or fatal injuries. Therefore be sure to obey the safety instructions.

CAUTION

Noise emission
The highest noise pressure levels measured as per EN ISO 3744 are given in Section 9.
When spending a long time in the vicinity of the running machine use ear protectors to avoid permanent damage to your hearing.

6.1.1 Checking the rotation direction

▷ The intended direction of rotation of the drive shaft is shown by the rotary direction arrow (Fig. 2/O).

a) Start the motor briefly (max. two seconds) to check the direction of rotation. The direction of rotation can be seen by looking through the slots of the motor fan cover (Fig. 2/h). When looking at the motor fan, it must rotate clockwise.

NOTICE

Incorrect direction of rotation
Running in reverse for a long time may damage the machine.
Use a phase sequence indicator to check the direction of rotation (**anti-clockwise rotating field**).

6.2 Decommissioning/ storing

Stop the machine

a) Switch the machine off.

b) If available close the cut off device in the suction and pressure pipe.

c) Disconnect the machine from the electricity source.

d) Depressurise the machine: Open the pipes slowly.
   ⇨ The pressure reduces slowly.

e) Remove the pipes and hoses.

f) Seal the connections for suction and pressure nozzles using adhesive foil.

see also Section 3.2.1, Page 11

6.3 Re-commissioning

a) Check the condition of the machine (cleanliness, cabling etc.).

For installation see Section 5 Page 14

For commissioning see Section 6.1 Page 17

7 Maintenance and repair

DANGER

Danger of death from touching live parts.
Before maintenance work disconnect the machine by pressing the main switch or unplugging it and ensure that it cannot be turned on again.

7.1 Ensuring operational safety

Regular maintenance work must be carried out in order to ensure operational safety.

Maintenance intervals also depend on the operational demands on the machine.

With any work observe the safety instructions described in Section 2.8 “Safety notes for installation, commissioning and maintenance”.

The whole unit should always be kept in a clean condition.

7.2 Maintenance work

Interval	Maintenance to be carried out	Section
monthly	Check the pipes and screws for leaks and to ensure they are seated properly and if necessary seal again or tighten up.	—
monthly	Check the terminal box and cable inlet holes for leaks and if necessary re-seal.	—
monthly	Clean the ventilation slots on the machine and the motor cooling ribs.	—
depending on how dirty the discharged medium is	Clean suction and exhaust air slots (Fig. 2/A_1, 2/B_1) and if existing solenoid valve (Fig. 2/X).	—

7.3 Repair/ Service

a) For on site repair work the motor must be disconnected from the mains by a qualified electrician so that it cannot be started up again accidentally. For repairs use the manufacturer, its branch offices or authorised dealers. Please contact the manufacturer for the address of the service centre responsible for you (see Manufacturer's address).

NOTICE

For each machine that is sent to an Elmo Rietschle Service centre for inspection, maintenance or repair, a fully completed, signed declaration of harmlessness must be enclosed.
The declaration of harmlessness is part of the supplier's documentation.

b) After a repair or re-commissioning, the actions listed under „Installation" and „Commissioning" must be carried out as for initial commissioning.

Gardner Denver | Formular Unbedenklichkeitserklärung für Vakuumpumpen und Komponenten | 7.7025.003.17 GS Seite 1 von 1

Gardner Denver Schopfheim GmbH
Roggenbachstr. 58, 79650 Schopfheim Telefon: +49/(0)7622/392-0 Fax: +49/(0)7622/392-300

Die Reparatur und/oder die Wartung von Vakuumpumpen und Komponenten wird nur durchgeführt, wenn eine korrekt und vollständig ausgefüllte Erklärung vorliegt. Ist das nicht der Fall, kann nicht mit den Reparaturarbeiten begonnen werden und Verzögerungen sind die Folge.
Diese Erklärung darf nur von autorisiertem Fachpersonal ausgefüllt und unterschrieben werden.

1. Art der Vakuumpumpen / Komponenten
Typenbezeichnung:
Maschinen-Nummer:
Auftrags-Nummer:
Lieferdatum:

2. Grund für die Einsendung

3. Zustand der Vakuumpumpe / Komponente
Wurde diese betrieben? JA ❑ NEIN ❑
Welches Schmiermittel wurde verwendet?
Wurde die Pumpe/Komponente entleert? (Produkt/Betriebsstoffe) JA ❑ NEIN ❑
Ist die Pumpe/Komponente gereinigt, dekontaminiert, öl- und fettfrei sowie frei von gesundheitsgefährdeten Schadstoffen? JA ❑

4. Einsatzbedingte Kontaminierung der Vakuumpumpen / Komponenten
Toxisch JA ❑ NEIN ❑
Ätzend JA ❑ NEIN ❑
Mikrobiologisch*) JA ❑ NEIN ❑
Explosiv*) JA ❑ NEIN ❑
Radioaktiv*) JA ❑ NEIN ❑
sonstiges JA ❑ NEIN ❑

Reinigungsmittel:
Reinigungsmethode:

*) Mikrobiologisch, expolsiv oder radioaktiv kontaminierte Vakuumpumpen / Komponenten werden nur bei Nachweis einer vorschriftsmäßigen Reinigung entgegengenommen!

Art der Schadstoffe oder prozeßbedingter, gefährlicher Reaktionsprodukte, mit denen die Vakuumpumpen / Komponenten in Kontakt kamen:

Handelsname, Produktname Hersteller	Chemische Bezeichnung	Gefahren-klasse	Maßnahmen bei Freiwerden der Schadstoffe	Erste Hilfe bei Unfällen
1.				
2.				
3.				
4.				

Persönliche Schutzmaßnahmen:
Gefährliche Zersetzungsprodukte bei thermischer Belastung JA ❑ NEIN ❑
Welche:

5. Rechtsverbindliche Erklärung
Wir versichern, dass die Angaben in dieser Erklärung wahrheitsgemäß und vollständig sind, und ich als Unterzeichner in der Lage bin, dies zu beurteilen. Uns ist bekannt, daß wir gegenüber dem Auftragnehmer für Schäden, die durch unvollständige und unrichtige Angaben entstehen, haften. Wir verpflichten uns, den Auftragnehmer von durch unvollständige oder unrichtige Angaben entstehenden Schadensersatzansprüchen Dritter freizustellen. Uns ist bekannt, dass wir unabhängig von dieser Erklärung gegenüber Dritten - wozu insbesondere die mit der Handhabung/Reparatur des Produkts betrauten Mitarbeiter des Auftragsnehmers gehören - direkt haften.

Firma:
Strasse: PLZ, Ort:
Telefon: Telefax:
Name (in Druckbuchstaben) Position:
Datum: Firmenstempel:
Rechtsverbindliche Unterschrift:

TOS-Nr. / Index: 7.7025.003.17 / 0 | Zuständige Stelle: G | Dateiverwaltung: ..\7702500317.xl
Gardner Denver Schopfheim GmbH Postfach 1260 D-79642 Schopfheim

Fig. 4 Clearance certificate 7.7025.003.17

7.4 Spare parts

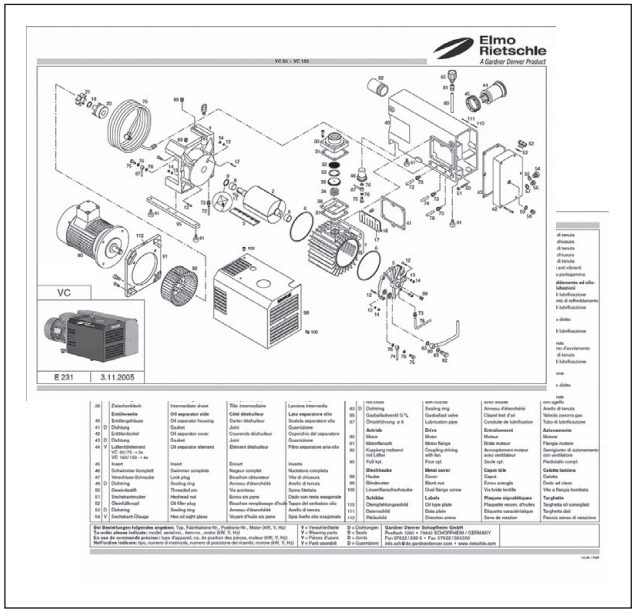

Fig. 5 Spare parts list (example)

Fig. 6 Web site
http://www.service-er.de

Order spare parts in accordance with the:

- **Spare parts list:**
  E 702 → F-CEV-S
  E 706 → F-CEV 3718-S3 (08)
  - Download the PDF file
  http://www.gd-elmorietschle.com
  → Downloads
  → Product Documents
  → F-Series → Spare Parts
  - Parts subject to wear and gaskets are indicated separately on the list.
- **Web site:**
  http://www.service-er.de
  - Select the type, size and design.

NOTICE

Only use original spare parts or parts approved by the manufacturer. The use of other parts may lead to malfunctions and invalidate liability or the guarantee for any consequences arising.

8 Malfunctions: Causes and elimination

Fault	Cause	Troubleshooting	Important
Machine is switched off by the motor protection switch	Mains voltage/ Frequency does not correspond with the motor data	Check by qualified electrician	Section 5.5
	Connection to motor terminal board is not correct		
	Motor protection switch is not set correctly		
	Motor protection switch is triggered too quickly	Use a motor protection switch with an overload-dependent delayed switch off that takes into consideration the short term excess current at start up (version with short circuit and overload trigger as per VDE 0660 Part 2 orIEC 947-4)	
	Blower operates without connection to a system	Connect system	Section 5.3
Insufficient suction or pressure capacity	Blower selected was too small	If available use a bigger blower	Data sheets D 701 / D 702
	Lines are too long or too narrow	Check the hose or the pipe	Section 5.3
	Machine or system leaking	Check the pipework and screw connections for leaks and to ensure that they are firmly seated	Section 7.2
Machine gets too hot	Ambient or intake temperature is too high	Ensure it is being used properly	Section 2.3
	Blower sucks too little air	Check the rotation direction resp. cross sections of the pipes	Section 6.1.1 Section 5.3
	Cooling air supply is obstructed	Check environmental conditions	Section 5.1
		Clean ventilation slots	Section 7.2
Solenoid valve does not work	The incoming voltage and frequency does not correspond with the information on the solenoid valve	Check the incoming voltage and frequency	Section 5.4
	Valve is contaminated	Dismantle and clean	Section 7.2
Please contact Elmo Rietschle Service for other malfunctions or those that cannot be eliminated.			

9 Technical Data

F-CEV			3709-2		3709-3		3709-4		3709-5	
			S	D	S	D	S	D	S	D
Sound pressure level (max.) EN ISO 3744 Tolerance± 3 dB(A)	dB(A)	50 Hz	72	72	72	72	73	73	73	73
		60 Hz	72	73	73	73	74	74	74	74
Weight *	kg		25	25	30	32	38	38	42	42
Diameter	mm		426		426		426		426	
Height *	mm		387	455	420	488	453	521	508	576

F-CEV			3718-2		3718-3		3718-4	
			S	D	S	D	S	D
Sound pressure level (max.) EN ISO 3744 Tolerance± 3 dB(A)	dB(A)	50 Hz	74	74	75	75	75	75
		60 Hz	75	75	76	76	76	76
Weight *	kg		35	35	38	38	42	45
Diameter	mm		446		446		446	
Height *	mm		443	538	491	586	541	636

* The Height and the weight may differ from the information listed here depending on the motor manufacturer.

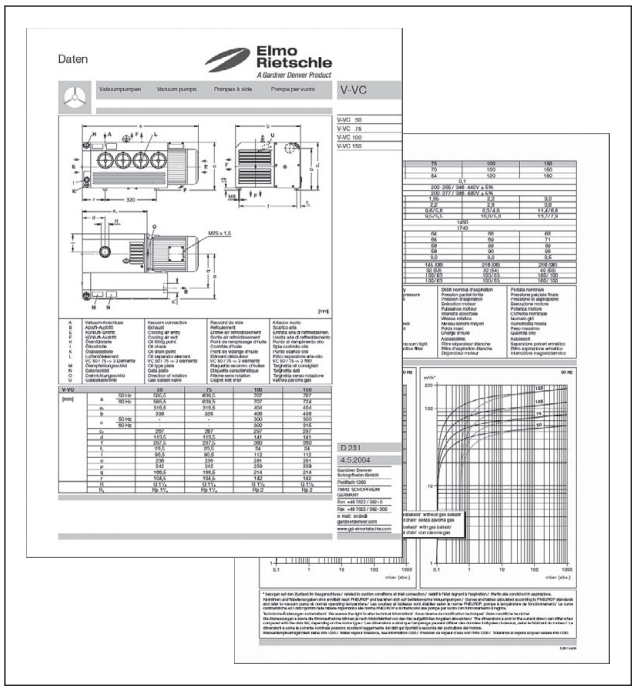

Fig. 7 Data sheet (example)

You will find more technical data on the data sheets **D 701** and **D 702**

- Download the pdf file:

  Pressure version:
  D 701 → F-CEV 3709-D2, F-CEV 3709-D3
  F-CEV 3709-D4, F-CEV 3709-D5
  F-CEV 3718-D2, F-CEV 3718-D3
  F-CEV 3718-D4

  Vacuum version:
  D 702 → F-CEV 3709-S2, F-CEV 3709-S3
  F-CEV 3709-S4, F-CEV 3709-S5
  F-CEV 3718-S2, F-CEV 3718-S3
  F-CEV 3718-S4

- Download the pdf file:
  http://www.gd-elmorietschle.com
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  → Product Documents
  → F-Series → Data Sheets

ACHTUNG

Subject to technical changes.

Elmo Rietschle
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Gardner Denver

EC - declaration of conformity 2006/42/EC

Hereby the manufacturer confirms:	Gardner Denver Schopfheim GmbH Postfach 1260 D-79642 Schopfheim
that the machine:	Radial blower
of the:	Series: F-CEV
	Type: F-CEV 3709-D3, F-CEV 3709-D4, F-CEV 3709-D5 F-CEV 3709-S3, F-CEV 3709-S4, F-CEV 3709-S5 F-CEV 3709-DS3, F-CEV 3709-DS4, F-CEV 3709-DS5 F-CEV 3718-D4 F-CEV 3718-S3, F-CEV 3718-S4 F-CEV 3718-DS2, F-CEV 3718-DS3, F-CEV 3718-DS4

is conform to the regulations of the guideline indicated above.

The following harmonized and national standards and specifications are applied:

EN 1012-1:2010	Compressors and vacuum pumps — Safety requirements — Part 1: Compressors
EN 1012-2:1996+A1:2009	Compressors and vacuum pumps — Safety requirements — Part 2: Vacuum pumps

These declarations of conformity are invalid when the machine has been modified without prior approval by us and the approval has been documented in writing.

Name and address of the EC person in charge for documentation	Gardner Denver Schopfheim GmbH Postfach 1260 D-79642 Schopfheim

Gardner Denver Schopfheim GmbH

Schopfheim, 1.8.2011

Dr. Friedrich Justen, Director Engineering

C_0003_EN

Gardner Denver	**Safety declaration form for vacuum pumps and components**	7.7025.003.17 Page 1 of 1

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Repairs and/or maintenance of vacuum pumps and components will only be carried out if a declaration has been filled in correctly and completely.
If not, the repair work cannot be started and delays will result.
This declaration must only be filled in and signed by authorised qualified staff.

1. Type of vacuum pumps/ components	**2. Reason for the submission**
Type description: _____ Machine number _____ Order number: _____ Delivery date: _____	_____ _____ _____ _____

3. Condition of vacuum pumps/ components	**4. Contamination of the vacuum pumps/ components when in use**
Was this being operated? YES ❑ NO ❑ Which lubrication was used?	Toxic YES ❑ NO ❑ Corrosive YES ❑ NO ❑ Microbiological*) YES ❑ NO ❑ Explosive*) YES ❑ NO ❑ Radioactive*) YES ❑ NO ❑ other YES ❑ NO ❑
Was the pump/ component emptied? (Product/Consumables) YES ❑ NO ❑	
Has the pump/ component been cleaned and decontamina YES ❑	
Cleaning agent:	
Cleaning method:	

*) Microbiological, explosive or radioactively contaminated vacuum pumps/ components will only be accepted with proof that they have been cleaned properly.

Type of toxic substance or process-related, dangerous reaction products with which the vacuum pumps/ components came into contact:

Trade name, manufacturer's product name	Chemical name	Hazard class	Action to be taken if toxic substances are released	First aid in the event of accidents
1				
2				
3				
4				

Personal protection measures: _____

Hazardous decomposition products when subjected to thermal load YES ❑ NO ❑

Which? _____

5. Legally binding declaration

We swear that the information in this declaration is accurate and complete and that I, the undersigned, am in a position to judge this. We are aware that we are liable to the contractor for damage caused by incomplete and inaccurate information. We undertake to release the contractor from any damage claims from third parties arising from incomplete or incorrect information. We are aware that, regardless of this declaration, we are directly liable to third parties including in particular the contractor's staff entrusted with handling or repairing the product.

Company: _____

Street: _____ Post code/ Town: _____

Phone: _____ Fax: _____

Name (in capitals) _____ Position: _____

Date: _____ Company stamp:

Legally binding signature: