

Operating instructions

Hydraulic rescue equipment

POWER UNITS



E/V 70 W-SAH 20, E/V 70 W-SAH 20 COAX, V 400 S, E/V 50 S, V 40 S,
V 50S TURBO PLUS, V 400 ECO, V-ECOCOMPACT 3600, E-COMPACT, V-ECOSILENT, S-COM-
PACT XL, AKKUPAC ECO, B-COMPACT ECO, B-COMPACT XL, DPH/DPF 4018 SA, DPH 4018 S

8142459

Tested according to
EN 13204 and NFPA 1960



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SYSTEMS

Content:

1 General	4
1.1 Information regarding the operating instructions	4
1.2 Explanation of symbols	5
1.3 Limitations of liability	6
1.4 Copyright	6
1.5 Guarantee conditions	7
1.6 Customer service	7
2 Safety	8
2.1 Proper use	8
2.2 Responsibility of the customer	9
2.3 Operating personnel	10
2.4 Personal protective gear	11
2.5 Specific hazards	12
2.6 Behaviour in the event of danger or accidents	14
2.7 Symbols	14
3 Technical data	15
3.1 Standard power units	15
3.2 Compact power units	16
3.2 Battery-powered units & hand pumps	18
3.4 Operating conditions	19
3.5 Type plate	19
4 Structure and function	20
4.1 Standard power units	20
4.1 Brief description	20
4.2 Compact power unit	21
4.3 Battery-powered units	21
4.4 Hydraulic supply	22
4.5 Electrical supply	23
4.6 Equipment connections	24
4.7 Communication module and radio connection	26
4.8 Operating SFORCE equipment	28
4.9 S-FORCE tool accessories	28
5 Operation	30
5.1 General	30
5.2 E/V 50 T-SAH 20, E/V 50 T-SAH 15 COAX, V 40 S, E/V 50 S, V 50 ECO, V-ECOCOMPACT, V-ECOCOMPACT 3600	30
5.3 E/V 70 W-SAH 20, E/V 70 W-SAH 20 COAX	31
5.4 E/V 400 S	32
5.5 BATTERY PAC ECO	32
5.6 V-ECOSILENT	33
5.7 E-COMPACT	34

5.8	B-COMPACT ECO, B-COMPACT XL	34
5.9	S-COMPACT	35
5.10	DPH/DPF 4018 SA (Hand pump)	35
6	Battery and charger	
6.1	Charger technical data	36
6.2	Special safety instructions	36
6.3	Intended use	38
6.4	Power line connection	38
6.5	Li-Ion battery	38
6.6	Charging process	39
6.7	Maintenance	40
6.8	Charging cycles	40
7	Transport, packaging and storage	41
7.1	Safety information	41
7.2	Transport inspection	41
7.3	Symbols on the packaging	42
7.4	Disposal of packaging	42
7.5	Storage	42
8	Installation and commissioning	43
8.1	Safety information	43
8.2	Checks	44
8.3	Installation	44
8.4	Shutting down (end of work)	45
8.5	Advantage of device registration	46
9	Servicing	46
9.1	Safety information	46
9.2	Care and maintenance	46
9.3	Maintenance schedule	47
10	Faults	48
11	Decommissioning / recycling	49
12	EC Declaration of Conformity	50

1 General

1.1 Information regarding the operating instructions

These operating instructions provide important information for using the hydraulic power units and hand pumps. Compliance with all of the safety and handling instructions specified is a condition for safe work.

Furthermore, adhere to the local accident prevention guidelines and general safety regulations for the region in which the devices are used.

The instruction manual should be read carefully before starting work! It is part of the product and must be kept in a place that is known and accessible to personnel at all times.

This documentation contains information for operating your equipment, irrespective of the equipment type. For this reason you will also find explanations which do not refer directly to your equipment.

All information, technical data, graphics and diagrams contained in these operating instructions are based on the most up-to-date data available at the time of writing.

In addition to read through the operating instructions we also recommend that you be trained and instructed on handling the rescue equipment (possible applications, application tactics etc.) by our qualified trainers.



NOTE!

The current version of the operating instructions can be found on our website
<https://www.weber-rescue.com/>
or by scanning the QR code.



1.2 Explanation of symbols

Warning instructions

Warning instructions are marked by symbols in this operating manual. The individual instructions are introduced by signal words that express the degree of hazard.

It is essential to comply with the instructions in order to prevent accidents, injuries and damage to property.



DANGER!

...indicates an immediate dangerous situation that can result in death or serious injury if it is not avoided.



WARNING!

...indicates a potentially dangerous situation that can result in death or serious injury if it is not avoided.



CAUTION!

...indicates a potentially dangerous situation that can result in minor or light injuries if it is not avoided.



ATTENTION!

...indicates a potentially dangerous situation that can result in material damage if it is not avoided.

Tips and recommendations



NOTE!

...indicates useful tips and recommendations as well as information for efficient and trouble-free operation.

1.3 Limitations of liability

All information and instructions in this operating manual have been provided under due consideration of applicable standards and guidelines, the current state of technology, as well as our many years of knowledge and experience.

The manufacturer assumes no liability for damage due to:

- Failure to follow the operation instructions
- Improper use
- Use by untrained personnel
- Unauthorized modifications
- Technical changes
- Use of non-approved spare parts
- Use of non-original accessories

The actual scope of delivery can vary from the explanations and graphic representations provided in this manual in the case of special versions, or due to technical changes.

1.4 Copyright

All text, diagrams, drawings and images in this operating manual may be used without restriction and without any prior approval.

**NOTE!**

Further information, images and drawings can be found on our homepage.
www.weber-rescue.com

1.5 Guarantee conditions

The guarantee conditions can be found as a separate document in the sales documentation.

1.6 Customer service

Our customer service department is available to you for technical information.

Germany

DEG Service Center

Phone: +49 (0)7135 71 10112

E-mail: servicecenter@weber-rescue.com

Austria

ATL Service Center

Phone: +43 (0) 7255 6237-12473

E-mail: ATL.Servicecenter@weber-rescue.com

International:

For questions regarding spare parts, service and repair, please contact our certified local service partners. Scan this QR code for an overview of our worldwide service and sales network.

**NOTE!**

When contacting our customer service department please provide the designation, type and year of manufacture of your equipment. This information can be found on the equipment type plate.



2 Safety

This section of the operating manual provides a comprehensive overview of all the important safety aspects for optimal protection of operating personnel, as well as for safe and trouble-free operation.

Significant hazards can occur if the handling and safety instructions in this manual are not complied with.



WARNING!

Danger when operating equipment with different operating pressures!

Do not use pump power units with a higher operating pressure than the pressure that the rescue equipment is designed for (this can be seen on the type plate and in the operating instructions).

2.1 Proper use

The hydraulic power units are designed and tested exclusively for the appropriate designated purposes described here. All other activities are fundamentally prohibited.

Power units

E/V 70 W-SAH 20, E/V 70 W-SAH 20 COAX, E/V 400 S, E/V 50 S, V 40 S, V 50 ECO, V 50S TURBO PLUS, V 400 ECO, V-ECOCOMPACT, V-ECOCOMPACT 3600, E-COMPACT, V-ECOSILENT, AKKUPAC ECO, S-COMPACT, B-COMPACT ECO, B-COMPACT ECO XL, DPH/DPF 4018 SA, DPH 4018 S

All of the power units are designed as one-man devices and may therefore be operated by one person only.

- These devices are designed exclusively for operating hydraulic rescue equipment from WEBER-HYDRAULIK.
- Simultaneous operation of multiple pieces of equipment only if it is possible to exclude mutual risk.



WARNING!

Danger due to improper use!

Any use of the equipment that exceeds the intended use or deviates from it can lead to dangerous situations!

Therefore it is imperative that:

- » The equipment is used only for the purposes listed above.
- » Observe all other instructions in chapter 5 (operation) regarding appropriate use of the equipment.

**NOTE!**

All power units are intended for use in the professional or industrial sector and not for private use!

**NOTE!**

S-FORCE devices contain a communication module, which is required for the WLAN, LTE and GPS for communication and location determination. communication and location determination.

More detailed information on the communication module and the radio connections and channels used can be found in section 4.7.

2.2 Responsibility of the customer

In addition to the working safety instructions in this operating manual, observe safety and accident protection guidelines and environmental protection guidelines applicable to the area of application of the equipment. Particularly applicable in this regard:

- The customer must inform himself of applicable industrial safety regulations and, within the framework of a hazard analysis, identify other hazards that may exist at the equipment's installation site due to the specific working conditions.
- The customer must clearly regulate and specify responsibilities for installation, operation, maintenance, and cleaning.
- The customer must ensure that all personnel who handle the equipment have fully read and understood the operating manual.
- In addition, the operator must train personnel and inform them of the dangers of working with the machinery at regular intervals.

Moreover, the customer is responsible for ensuring that the equipment is always in technically faultless condition. Consequently the following applies:

- After every usage, at least once per year, the device must undergo a visual inspection by trained personnel (per DGUV Grundsatz 305-002 or country-specific directive).
- Every three years, or in the event of doubts about the safety or reliability of the equipment, an additional functional and load test is to be carried out (per DGUV Grundsatz 305-002 or country-specific directive).

2.3 Operating personnel

The following qualifications are cited in the operating manual for the various activity areas:

- **Trained person**
Is informed about the tasks assigned to them and the possible dangers in the event of improper behaviour through customer training.
- **Specialist**
Is an individual who, due to their specialized training, skills, and experience, as well as knowledge of the applicable manufacturer's regulations is capable of executing the tasks assigned to them and of recognizing possible hazards on their own.



WARNING!
Danger of injury due to insufficient training!

Improper handling of the equipment can lead to serious injury or material damage. Therefore it is imperative that:

- » Particular tasks are only carried out by the personnel listed in the appropriate chapter of this instruction manual.
- » In case of doubt call in specialists immediately.



NOTE!
The equipment may not be used by personnel who have consumed alcohol, taken medication or drugs!



NOTE!
Maintenance work can be carried out by instructed persons. Maintenance measures and repairs may only be carried out by the appliance manufacturer, or by specialist personnel trained by the appliance manufacturer and the authorised service partners. Continuous training and instruction by the appliance manufacturer is mandatory for a valid training certificate.

2.4 Personal protective gear

Wearing personal protective equipment (PPE) is essential to minimize the risks to operating personnel when working with the power units.

It is essential to wear the following protective clothing for all work:



Protective work clothing

Tight-fitting work clothing with tight sleeves and without projecting parts should be worn for work. It is primarily used to protect against entanglement by moving equipment parts.



Safety footwear

Safety footwear with steel toecaps must always be worn as protection against heavy falling parts and from slipping on slippery ground.



Work gloves

Work gloves must be worn when working with the equipment for protection against sharp edges and glass fragments.



Helmet with face shield

A helmet with face shield must be worn for protection against flying or falling parts and glass fragments.



Protective goggles

Protective goggles must also be worn in addition to the face shield in order to protect the eyes from slivers.

With certain work the following must also be worn in addition:



Ear protectors

In addition to the basic protective equipment, ear protectors should also be worn for protection against hearing damage.

2.5 Specific hazards

The hazards that arise within the framework of the risk evaluation are listed in the following section.

Follow the safety instructions listed here and the warning instructions in the other sections of this manual to minimise potential health hazards and avoid dangerous situations.

Electric shock



DANGER!

Life-threatening danger due to electric shock!

There is an imminent life-threatening danger if live parts are touched. Damage to insulation or to specific components can pose a life-threatening danger.

Therefore:

- » Disconnect the power supply immediately if there is damage to the insulation and have it repaired.
- » Only a qualified electrician should perform work on the electrical equipment.
- » All electrical work on the system must be carried out with the system disconnected from the mains power supply and the system must be checked to confirm that it is de-energised.
- » Prior to any maintenance, cleaning or repair works the power supply must be switched off and secured against being unintentionally switched back on.
- » Do not bypass fuses or render them inoperable. Always use the correct amperage when changing fuses.
- » Keep moisture away from live parts. Moisture can lead to a short circuit.



WARNING!

The use in potentially explosive atmospheres is prohibited.

Noise



WARNING!
Hearing damage due to noise!

The noise occurring in the work area can cause severe hearing damage.

Therefore:

- » Also wear ear protectors when carrying out particularly noise-intensive works.
- » Do not stay in the hazardous area longer than necessary.

Hydraulic energy



WARNING!
Danger due to hydraulic energy!

Serious injuries can be caused by discharged hydraulic force and the emergence of hydraulic oil.

Therefore:

- » Always keep your eyes on the hydraulic equipment throughout the working process and set down if necessary.
- » Check the hoses and the equipment for damage after every usage.
- » Avoid skin contact with the hydraulic oil (wear protective gloves).
- » Remove hydraulic oil from wounds without delay and seek medical attention immediately.

2.6 Behaviour in the event of danger or accidents

Preventative measures

- Always be prepared for accidents
- Keep first aid equipment (first-aid box, blankets etc.) to hand
- Familiarize personnel with accident alarms, first-aid kits, and rescue equipment
- Keep entry ways clear for rescue vehicles

In the event of an accident

- Shut down the equipment immediately
- Initiate first-aid measures
- Get people out of the danger zone
- Inform the responsible parties at the implementation site
- Notify a physician and/or the fire department
- Keep entry ways clear for rescue vehicles

2.7 Symbols

The following symbols and instruction signs are found on the equipment. These symbols and instructions refer to the immediate vicinity in which they are affixed.



Comply with the instructions in the operating manual

Do not use the marked equipment until after you have read the operating manual.

Warning of hot surface

The power unit's engine can become very hot during operation. Therefore, do not touch it and wear protective gloves.



WARNING!

Danger of injury due to illegible symbols!

Over time, stickers and symbols on the equipment can become fouled or can become illegible in some other manner.

Therefore it is imperative that:

- » Keep all safety, warning, and operating instructions that are affixed to the device in good, legible condition.
- » Replace damaged signs and stickers immediately.

3 Technical data

3.1 Standard power units



E/V 70 W-SAH 20 (COAX)

	E 70 W-SAH 20	V 70 W-SAH 20	E 70 W-SAH 20 COAX	V 70 W-SAH 20 COAX
Length	720 mm	820 mm	720 mm	820 mm
Width	440 mm	440 mm	440 mm	440 mm
Height	500 mm	500 mm	500 mm	500 mm
Weight	74,2 kg	75,9 kg	73,0 kg	76,5 kg
Engine	Electrical engine 230 V, 50 Hz, 2 kW	4-stroke petrol engine, 4 kW	Electrical engine 230 V, 50 Hz, 2 kW	4-stroke petrol engine, 4 kW
Operating pressure	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar
Oil volume	6,5 l	6,5 l	6,5 l	6,5 l
Flow rate ATO (LP/ HP)	4,0 / 1,6 [l/min]	5,6 / 2,0 [l/min]	4,5 / 1,6 [l/min]	5,6 / 2,0 [l/min]
Flow rate MTO (LP/HP)	2,1 / 0,9 [l/min]	2,9 / 1,0 [l/min]	2,4 / 0,9 [l/min]	2,9 / 1,0 [l/min]
Max. noise emission	-	102,9 dB(A)	-	102,9 dB(A)
EN class	ATO / MTO	ATO / MTO	ATO / MTO	ATO / MTO
Part no.	1078718	1078719	1069283	1058332

3.2 Compact power units



E/V 50 S / V 40 S



V-ECOCOMPACT 3600



V-ECOSILENT



E/V 400 S (ECO)



E-COMPACT



V 50S TUBRO PLUS

	V400 S	V 400 ECO	E-Compact	V-ECOCOMPACT 3600		
Length	382 mm	382 mm	415 mm	462 mm		
Width	290 mm	290 mm	195 mm	324 mm		
Height	406 mm	406 mm	214 mm	441 mm		
Weight	17,4 kg	17,5 kg	12,2 kg	23,7 kg		
Engine	Electrical engine 50 Hz, 0,5 kW	4-stroke petrol engine, 1,5 kW	4-stroke petrol engine, 1,5 kW	Electrical engine, 50 Hz, 1,5 kW	4-stroke petrol engine, 2,2 kW	4-stroke petrol engine, 2,3 kW
Operating pressure	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar		
Oil volume	2,5 l	2,5 l	2,8 l	3,8 kg		
Flow rate ATO (LP/ HP)	2,6 / 0,6 [l/min] 96,0 dB(A)	2,6 / 0,6 [l/min] 96,0 dB(A)	2,5 / 0,6 [l/min]	2,6 - 0,65 5,3 - 1,2		
EN class	STO	STO	STO	ATO/MTO		
Part no.	5934753	5936853	1050354	1102567		

	E 50 S	V 40 S	V 50 S	V 50 ECO	V 50S TURBO PLUS	V-ECOSILENT PLUS
Length	435 mm	444 mm	464 mm	424 mm	442 mm	590 mm
Width	320 mm	362 mm	369 mm	333 mm	361 mm	295 mm
Height	448 mm	471 mm	461 mm	467 mm	469 mm	445 mm
Weight	31,0 kg	32,1 kg	31,4 kg	29,9 kg	35,4 kg	24,9 kg
Engine	Electrical engine 50 Hz, 1,3 kW	4-stroke petrol engine, 2,6 kW	4-stroke petrol engine, 3,4 kW	4-stroke petrol engine, 2,2 kW	4-stroke petrol engine, 3,6 kW	4-stroke petrol engine, 2,2 kW
Operating pressure	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar
Oil volume	4,0 l	4,0 l	4,0 l	4,0 l	4,0 l	2,7 l
Flow rate ATO (LP/HP)	4,2 / 1,0 [l/min]	-	5,0 / 1,9 [l/min]	5,4 / 1,4 [l/min]	5,6 - 1,8[l/min]	5,5 - 1,3 [l/min]
Flow rate ATO MTO (LP/HP)	2,1 / 0,5 [l/min]	2,9 / 0,8 [l/min]	2,7 / 1,0 [l/min]	2,7 / 0,7 [l/min]	2,8 - 0,9 [l/min]	2,7 - 0,7 [l/min]
Max. noise emission	-	-	101,6 dB(A)	84,3 dB(A)	101,2 dB(A)	79,6 dB(A)
EN class	ATO / MTO	MTO	ATO / MTO	ATO / MTO	ATO / MTO	ATO/MTO
Part no.	1070365	1081842	5934460	5935717	5935156	5935318

3.2 Battery-powered units & hand pumps



S-COMPACT XL



**B-COMPACT ECO
B-COMPACT XL**



AKKUPAC ECO BLK



DPH/F 4018-SA (S)

	S-COMPACT XL	AKKUPAC ECO BLK	B-COMPACT ECO	B-COMPACT XL	DPH/DPF 4018 SA	DPH 4018 S
Length	511 mm	335 mm	515 mm	517 mm	650 mm	511 mm
Width	210 mm	250 mm	200 mm	210 mm	200 mm	210 mm
Height	335 mm	315 mm	314 mm	335 mm	183 mm	335 mm
Weight	15.0 kg**	11,2 kg **	12,0 kg **	15,6 kg **	13,5 kg	15.0 kg
Engine	Electrical engine 18 V	Electrical engine 28 V	Electrical engine 28 V	Electrical engine 28 V	-	-
Operating pressure	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar	630 / 700 bar
Oil volume	6,1 l	2,5 l	2,8 l	6,1 l	2,5 l	2,5 l
Flow rate ATO (LP/HP)	3,0 - 0,6 [l/min]	3,0 - 0,5 [l/min]	2,8 - 0,6 [l/min]	2,8 - 0,6 [l/min]	0,040 / 0,0031*	0,040 / 0,0031*
EN class	STO	STO	STO	STO	STO	STO
Part no.	1103640	1081828BLK	1081742	1100371	1051174	1069440

* litres per pump stroke

** including battery

3.4 Operating conditions

The permissible operating temperature range for the power units lies between -20°C and $+55^{\circ}\text{C}$. Reliable functioning of the equipment cannot be guaranteed outside this range.

Ensure that an inclination angle of 20° in every direction is not exceeded whilst the pump is operating. Otherwise there is a risk that the air filter of the engine could be contaminated by engine oil.

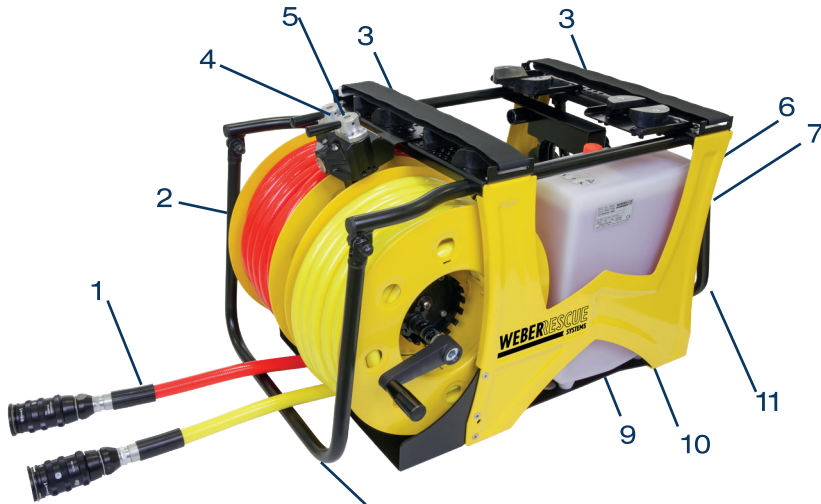
3.5 Type plate

The type plate for all appliances is located on the bottom of the drive. It provides the serial number, production date, nominal pressure, appliance designation and TIN number.

The TIN - "Tool Identification Number" is a 15-digit number and is assigned once. This is made up of the product ID and the serial number, and as such enables unique identification.

4 Structure and function

4.1 Standard power units



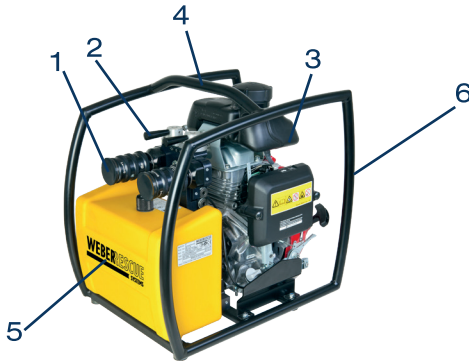
- | | | | |
|---|-----------------------------|----|-----------------------------|
| 1 | Coupling | 7 | Electrical power connection |
| 2 | Hose reel | 8 | Carry handle (front) |
| 3 | Equipment brackets | 9 | Hydraulic oil tank |
| 4 | Control lever (red hose) | 10 | Frame |
| 5 | Control lever (yellow hose) | 11 | Carry handle (rear) |
| 6 | Engine | | |

Brief description

Hydraulic power units serve the operation of the associated hydraulic rescue devices. They are available with an electrical engine and with a combustion engine. Furthermore, one differentiates between equipment with and without integrated rapid deployment reels and compact power units.

With almost all units, two devices can be operated at the same time, or one device in turbo mode. On the hose reel, there are two hoses (available as a pair or as a COAX hose), one 15 m and the other 20 m long, that can be unrolled effortlessly even under pressure.

4.2 Compact power unit



- 1 Coupling
- 2 Gear lever
- 3 Engine
- 4 Carry handle
- 5 Hydraulic oil tank
- 6 Housing

Brief description:

Hydraulic compact units are used to operate the associated hydraulic rescue equipment. They are available with both an electric motor and a combustion engine. Furthermore, a distinction is made between units with one outlet and those with two outlets. The latter can be used to operate two devices simultaneously or one device in turbo mode.

4.3 Battery-powered units



- 1 Coupling
- 2 Gear lever
- 3 Engine
- 4 Carry handle
- 5 Hydraulic oil tank
- 6 Housing
- 7 Power connection

Brief description:

Hydraulic battery-powered units are used to operate the associated hydraulic rescue equipment. They are available with either an 18V or a 28V battery.

4.4 Hydraulic supply

Hoses

The connection of the device with the power unit is carried out via high pressure hoses. Hoses are available in lengths of 5 m, 10 m, 15 m and 20 m. As the length of the lines increases so too does the associated pressure loss. With a line length of 50 metres this pressure loss remains acceptable and has no significant effect.



CAUTION!

Do not use damaged hoses!

With damaged hoses there is a danger of escaping hydraulic medium under pressure, or of the hoses whipping around.

Therefore:

- » The hoses should be subjected to a visual inspection (leak-tightness, surface damage such as kinks) after every use and at least once per year.
- » Every three years, or in the event of doubts about the safety or reliability, carry out an additional functional and load test (as per DGVV Grundsatz 305-002 or specific national directive).
- » Replace hoses every 10 years! The date (code letters or quarter/year) is specified on the hose bonding.
- » Ensure that the hoses are not exposed to tension or torsion (turning).
- » Do not kink the hoses or draw them over edges (smallest bend radius 40 mm).
- » Do not subject the hoses to high temperatures.
- » Protect hoses from contact with materials that can cause damage to the outer covering e.g. acids, alkalis, or solvents.

Hydraulic oil

All power units are designed and tested for WEBER hydraulic oil Part no. 804932. This oil possesses a particularly high purity level and also works flawlessly at temperatures below zero, down to -20° C.

With limitations in the low temperature range (lower output), however, a standard oil (mineral based) of viscosity class HLP 10 or HVLP 10 can be used in keeping with DIN 51502.



NOTE!

We recommend the following hydraulic oils for trouble-free operation of WEBER RESCUE devices:

- » AERO Fluid 41 (Shell)
- » Univis HVI-13 (Esso)
- » Aero-hydraulic 520 (Total)
- » Hydraulik DB (Castrol)
- » Renolin/MR310 (Fuchs)
- » HVI Extra 380 (Maier & Korduletsch)
- » Hydrex Arctic 15 (Petro Canada)
- » Naturelle HFE 15 (Shell)

Oil level indicator

There is a sight glass located on the side of the oil tank, with which the oil level can be monitored. This must be checked regularly after every use. The oil must be topped up if required.

4.5 Electrical supply



Inserting/removing the battery:

Connect the battery to the rescue tool by sliding the battery into the battery holder of the tool. Make sure that the Click On/Click Off of the battery is correctly seated and locked.

To remove, press the push-buttons on both sides of the battery simultaneously and then pull the battery upwards out of the battery holder.

4.6 Equipment connections

SINGLE coupling

Connecting:

Remove the protective cap from the coupling male and the coupling female (Fig. 1). Conflate Single coupling male and female in the bayonet catch (Fig. 2). Hold coupling female on the black slew ring and turn clockwise until the coupling snaps in (Fig. 3). Put protective caps together (Fig. 4). You don't have to switch the power unit to position 0 to connect or disconnect the coupling!

Disconnecting:

Remove the protective caps. Hold coupling female on the black slew ring and turn anticlockwise direction. Turn the black slew ring until you can release the coupling easily. Put protective caps to coupling male and the coupling female.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



NOTE !

When using the SINGLE coupling, pressure relief connectors are no longer required.

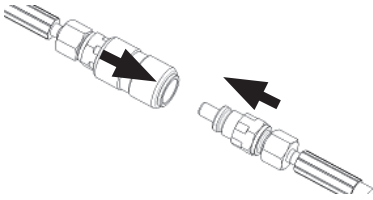
Plug-in coupling (SKS)

Connecting:

Remove the protective cap from the coupling male. Take hold of the coupling female by the knurled sleeve cover and pull out the protective plug. With one hand take hold of sleeve cover of the coupling female, with the other grasp the coupling male (black) by the hex nut, and press the sleeve cover slightly against the coupling male until the ball bearings engage. Twisting the male coupling slightly when pressing together eases the coupling process.

Disconnecting:

Grasp the coupling male (black) by the hex nut with one hand and with the other take hold of the sleeve cover and draw it back. The disconnecting will cause a few drops of hydraulic oil to escape. Plug in the protective caps immediately.



CAUTION!

When coupling SKS connections the power unit operating lever must be in the „0“ position.



NOTE !

A pressure relief connector is fitted to the hydraulic power units and the hand pump, with which a few drops of oil can be discharged from the hoses. This permits re-coupling following pressure increases in de-coupled equipment.

In this case simply insert the pressure relief connector into the coupling sleeve and turn the knurled screw to the right until oil leaks out.

4.7 Communication module and radio connection

The communication module is installed in the rear housing component. This transmits data from the tool to an external output device via WLAN or an LTE connection - depending on the user's choice and the active operating mode. The basic hydraulic functions are always guaranteed by component separation.

To use the SMART-FEATURES and for registration, follow the instructions in Chapter 4,9.



NOTE!

The range of the radio connection can be influenced by environmental factors and is therefore dependent on many aspects such as weather, buildings, vegetation, terrain, etc. Underwater radio communication is not possible!

4.7.1 Standards and data sheets

Confirmed standards concerning electromagnetic compatibility:

- EN IEC 61000-6-1:2019
- EN IEC 61000-6-2:2019
- EN IEC 61000-6-3:2006 + A1:2010
- EN IEC 61000-6-4:2019
- ETSI EN 301 489-1 V2.2.3
- ETSI EN 301 489-17 V3.2.4
- ETSI EN 301 489-19 V2.1.1
- ETSI EN 301 489-52 V1.1.0

Confirmed standards concerning radio communication:

- ETSI EN 301 511 V12.5.1 (2017-03)
- ETSI EN 301 908-1 V13.1.1 (2019-1)
- ETSI EN 300 328 V2.2.2 (2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05)
- ETSI EN 303 413 V1.1.1 (2017-06)

4.7.2 Information regarding radio channels used

WIFI range:

Frequencies:	Frequency range:	Channel width: Broadband	4G range:	2G range
3b	2400Mhz-2483.5Mhz	Number of RF channels:	B1 (2100), B2 (1900),	B2 (1900)
Ae1	5150MHz-5350MHz	WIFI 2.4GHz: 13	B3 (1800), B4 (AWS 1700),	B3 (1800)
Ae2	5470MHz-5725MHz	WIFI 5GHz: 9	B5 (850), B8 (900)	B5 (850)
L1			B12 (700), B13 (700),	B8 (900)
			B18 (800), B19 (800)	
			B20 (800), B26 (850),	
			B28 (700)	

GNSS:

GNSS Constellation	GNSS Signal Designations	RNSS Frequency Band (MHz)
BDS	B1I	1 559 to 1 610
	B2C	1 559 to 1 610
Galileo	E1	1 599 to 1 610
	E5a	1 164 to 1 215
	E5b	1 164 to 1 215
	E6	1 215 to 1 300
GLONASS	G1	1 559 to 1 610
	G2	1 215 to 1 300
GPS	L1 C/A	1 559 to 1 610
	L1C	1 559 to 1 610
	L2C	1 215 to 1 300
	L5	1 164 to 1 215
SBAS	L1	1 559 to 1 610
	L5	1 164 to 1 215

All exceptions: E5 - E6 - G2 - L2C - L5

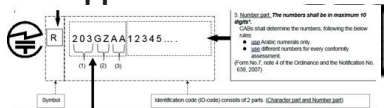
4.7.3 Transmission power

- 2G LB max. 32dBm 2G HB max. 28dBm
- 4G FDD max. 23dBm @1RB

4.7.4 Receiving sensitivity

- 2G -> sensitivity of -107dBm
- 4G FDD (BW=5MHz) -> sensitivity of -102dBm

4.7.5 Labels country-specific radio approvals



Complies with
IMDA Standards
[Dealer's Licence No.]



Contains FCC ID: XXXXXXXXXXXXXXXXX



TAXXXX.YYYY
APPROVED

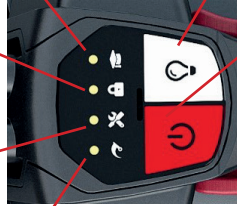
4.8 Operating SMART-COMPACT power units

LED - Training mode:
Lights up as soon as training mode has been activated and set via the app.

LED - Theft mode:
Lights up when anti-theft protection is activated.

LED - Service & maintenance:
Lights up if a service interval has been reached or the tool is being accessed externally.

LED - Maximum pressure display:
Lights up as soon as the tool has built up maximum pressure.



LIGHT CONTROL button:
Individual adjustment of the light mode in 5 steps at the touch of a button.

ON/OFF button:
When this button is pressed, the motor starts to rotate at idle speed. If the rocker switch is not pressed for 30 seconds, the tool switches off automatically.

4.9 SMART-COMPACT accessories Units

	ID no.
Replacement battery M18 5.5HB Milwaukee	1101254
Replacement battery M18 8.0HB Milwaukee	1099928
Replacement battery M18 12.0HB Milwaukee	1099929
Battery case	1056921
Strap for battery case	1056920
Mains charger M12-18 FC - 110V RAPIDCHARGER	1102000
Mains charger M12-18 FC - 230V RAPIDCHARGER	1101257
Mains charger M18 DBSC - 230V double SUPERCHARGER	1106594
Mains charger M18 DFC - 230V double charger for 2 batteries	1101263
Mains charger M18 PC6 - 230V multi charger for 6 batteries	1106437
Automotive charger M12-18 AC - 12V	1101262
Continuous power supply - power adapter 110 V	1099998
Continuous power supply - power adapter 230 V	1099997

4.10 Device registration for S-COMPACT Units

An account in the WEBER RESCUE hub is required for device registration. An existing account can also be used for this purpose.

Who should register the SMART-COMPACT power unit?

To ensure a person-independent and transparent registration of your SMART-FORCE device, an internal concept for the main account as well as the individual subprofiles and the respective assigned authorizations in the digital world of WEBER RESCUE is necessary. It is important to avoid creating a separate account for each device.

Our recommendation: Create a main account for the fire department or for your organization, to which all tools are registered. These can then be additionally assigned to different stations and vehicles from this account. Afterwards, special personal profiles with sub-authorizations can be assigned again for each device.

1. Scan the QR code below or open our device registration website in your browser:
hub.weber-rescue.com/geraeteregistration
2. If you already have an account for another WEBER RESCUE digital solution or app, you can log in with your existing credentials and add the new SMART-COMPACT power unit by providing its unique TIN number.
3. If you do not yet have an account in the WEBER RESCUE digital world, then you can quickly and easily create your SMART-COMPACT power unit by clicking on the „Register“ button in the top right corner. A user account will then be created automatically.
4. The TIN number required for registration can be found on the type plate of your SMART-COMPACT power unit. The activation code in the separate flyer "Device registration".



4.11 Operating SMART-FORCE equipment

Die Betriebsanleitung für die SMART-features ist online abrufbar unter folgendem link:
hub.weber-rescue.com/manual/

5 Operation

5.1 General

To start the unit with an electric motor, the device must be connected to a power source. Then set the main switch (if present) to position 1 or press the corresponding knob until it lights up white.

For starting units with combustion engines, please read the accompanying operating manual from the engine manufacturer.

Special steps for starting the individual units are discussed separately below.



CAUTION!

When using SKS couplings the engine must never be started before the control lever is out of the „0“ position and the work equipment is connected! With single couplings this is not necessary.

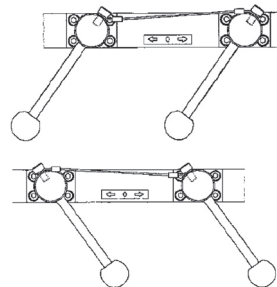
5.2 E/V 50 T-SAH 20, E/V 50 T-SAH 15 COAX, V 40 S, E/V 50 S, V-ECO-COMPACT 3600

The power unit is operated by the two control levers (between the equipment brackets). The oil flow in the two hose sets is controlled by these. The middle position of the control levers represents the „0“ position.

Two-way operation (with turbo function):

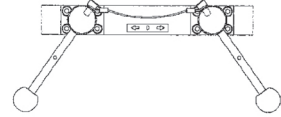
In order to feed the entire oil flow into the left hose pair, both control levers must be turned to the left.

In order to feed the whole oil flow into the right hose pair, both control levers must be turned to the right.



Simultaneous operation:

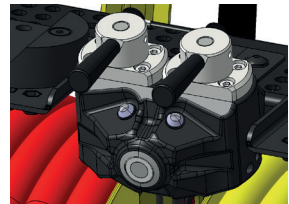
In order to supply both hose pairs simultaneously (with split oil flow), the left control lever must be turned to the left and the right control lever must be turned to the right.

**NOTE!**

The oil flow is likewise split if one lever is operated and the other remains in the „0“ position. It is therefore necessary to operate both control levers for the turbo function.

5.3 E/V 70 W-SAH 20, E/V 70 W-SAH 20 COAX

To start the electrical version of the device, actuate the ON/OFF switch (knob) located between the two reels. The signal light on the ON/OFF switch then lights up in white and the motor starts automatically.

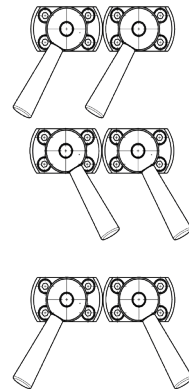
**Two-way operation (with turbo function):**

In order to feed the entire oil flow into the left hose pair, both control levers must be turned to the left.

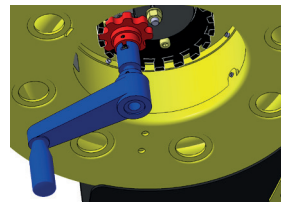
In order to feed the whole oil flow into the right hose pair, both control levers must be turned to the right.

Simultaneous operation:

In order to supply both hose pairs simultaneously (with split oil flow), the left control lever must be turned to the left and the right control lever must be turned to the right.

**Reel wind-up device:**

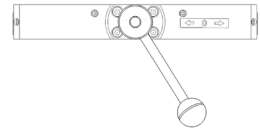
Due to their design, the electrical units are all equipped with an integrated wind-up device (optional on the combustion engine version). To use it, insert the separately stored crank into the reel's ring gear, lock it, and turn it.



5.4 V 400 S

The power unit is operated by the control lever (adjacent to the connection for the high pressure hose). The oil flow in the hose pair is controlled by this. The control lever position perpendicular to the equipment (on „0“) represents the „0“ position.

To operate, simply turn the control lever in the direction of the arrow. This initiates the oil flow in the hose pair.



5.5 BATTERY PAC ECO

The BATTERY PAC can be carried on the shoulder or used as an independent stand-alone battery powered power unit.



In order to start the device it is necessary to actuate the on/off button on the top of the housing (Fig. 1). The signal light on the on/off switch subsequently lights up in white and the BATTERY PACK starts automatically in ECO mode (idle speed). Only after pressing the pushbutton on the connected work tool does the speed increase automatically and then decrease again. This saves energy (runtime in ECO mode of 5 hours per battery) and avoids unnecessary noise.



Fig. 1

You can operate the unit with one battery or with two batteries operating in parallel (batteries are then drained parallel as well). The battery is inserted into the battery compartment. Simultaneously pressing the unlocking mechanism releases the battery from the unit.

The coupling can be stored in the side pocket (Fig. 2).

After use the hydraulic fluid level should always be between Min. and Max. so that all of the units can be operated, as the nominal pressure and tank content are designed to operate all WEBER rescue equipment. The oil tank can be filled / drained very easily by retracting or expanding a rescue tool (Fig. 3).

Fig. 2



Fig. 3



5.6 V-ECOSILENT

To start the power unit the yellow ECO lever must first be set to the start position („S“). Then turn the the ignition switch (rotary switch) to the right to „Choke“ and start the engine with the pull-chord. After warming up turn the ignition switch to position „1“ and set the ECO lever to „ECO“.

Control

In order to control the outputs, two control levers are fitted directly above the couplings. It is possible to control the oil flow with these (by sliding to the side; similar to E/V 50-T).

Fuel tap

When transporting the power unit for an extended period the fuel feed can be shut off. In order to do so it is necessary to close the fuel tap (red). This is located under the maintenance cover on the pull-chord side.

Petrol tank

The petrol tank can be filled via the filling port under the black cover flap on the top side of the device. The fuel level can be seen on the display on the operator panel.



5.7 E-COMPACT

Operation

Before starting the electric engine, check that all electrical connections and cables are in proper order. Insert the plug into a 230 V socket. Press the ON/OFF switch on the top of the unit. The unit starts automatically and a green LED lights up. Connect the hose and set the control lever to position 1. The unit is now ready to operate.

Service instruction

The "Attention" LED (RED) will light up under load after about 200 operating hours. After that, the unit can be used for another 10 to 20 operating hours before the electric motor's carbon brushes need to be changed. This must be done by a qualified person.



- 1 ON/OFF button
- 2 LED attention (red)
- 3 LED operation (green)
- 4 Oil filling plug (Weber hydraulic oil)
- 5 Control lever

5.8 B-COMPACT ECO, B-COMPACT XL

Operation

One battery as a minimum, or a 230V power supply, must be connected for the purpose of operation. Press the on/off button on top of the unit to switch it on (button lights up in white and the motor starts in ECO-mode). Subsequently connect the hose and set the control lever to position 1 (see page 30). The unit is now ready for operation.

When the unit is switched on the LEDs mounted on both sides are also simultaneously activated, so that the unit can also be used as a portable spotlight en route to the installation site.

Only after pressing the pushbutton on the connected work tool does the speed increase automatically and then decrease again. This saves energy (runtime in ECO mode of 5 hours per battery) and avoids unnecessary noise.

Battery operation

The B-COMPACT can be optionally operated using one battery, two batteries or a power supply. Both power sources are always drained in parallel here, whilst the speed or capacity of the unit is not affected by this.

It is possible to remove the battery from the device again by simultaneously pressing the two lock releases.

5.9 S-COMPACT

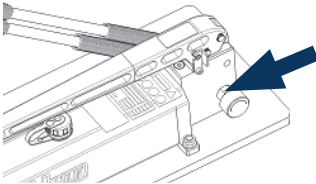
Operation

A rechargeable battery or a 230 V power supply unit must be connected for commissioning. The unit is switched on by pressing the red control element on the membrane keypad on the top of the unit. Connect the hose in the front area and the unit is now ready for operation.

When the power pack is switched on, the LEDs on both sides are also activated, so that the power pack can also be used as a hand-held spotlight on the way to the work site. The speed increases automatically and then decreases again only after the push buttons on the connected implement have been pressed. This saves energy and avoids unnecessary noise.

5.10 DPH/DPF 4018 SA (Hand pump)

To start the hand pump, first turn the pressure release valve anticlockwise and operate the pump lever a few times. This will vent the pump. Then turn the pressure release valve fully clockwise and do not open it again during the following work with the device! Now the oil flow to the rescue device can be built up by operating the pump lever.



6 Battery and charger (BATTERY PAC ECO, B-COMPACT ECO, B-COMPACT XL)

6.1 Charger technical data

6.1.1 Technical data: 28 V charger

technical data	Charger MCLI
Voltage range	28 V
Charging current, quick charging	3,5 A
Charging time	ca. 1 h
Weight w/o power cable	700 g



Inputvoltage	ID-No.
220/240V AC 50/60Hz (Europe)	1054097
240V AC (Australia)	1054098
110V AC (USA)	1054099

6.1.2 Technical data: 18 V charger



	ID no.	5,5 Ah	8,0 Ah	12 Ah
M12-18 FC - 110V RAPIDCHARGER	1102000	60 min	87 min	130 min
M12-18 FC - 230V RAPIDCHARGER	1101257	60 min	87 min	130 min
M12-18 AC - 12V car charger	1101262	130 min	190 min	285 min
M12-18 SC - 230V double SUPERCHARGER	1106594	35 min	45 min	60 min
M18 DFC - 230V double charger for 2 batteries	1101263	60 min	87 min	130 min
M18 PC6 - 230V multi charger for 6 batteries	1106437	60 min	87 min	130 min

6.2 Special safety instructions



WARNING!

Do not throw used rechargeable batteries into a fire or into household waste. Your dealer can dispose of batteries in an environmentally sound manner.

The following batteries can be charged with the chargers and are intended for use in combination with our rescue equipment:

Voltage	Battery type	Nominal capacity
28 V	M 28 BX	3,0 Ah
28 V	Li 28 V	3,0 Ah
28 V	Li-Ion 71NR	5,0 Ah
18 V	M18 HB5.5	5,5 Ah
18 V	M18 HB8	8,0 Ah
18 V	M18 HB12	12,0 Ah



WARNING!

Important safety information concerning the battery and charger.

- » Do not use the charger to charge non-rechargeable batteries.
- » Do not store batteries together with metal objects (danger of short circuit).
- » Do not allow metal parts to enter the charger's battery insertion slot (danger of short circuit).
- » Do not open batteries and chargers, and store only in dry rooms. Protect from moisture.
- » The charger carries voltage from the power grid. Do not reach into the device with conductive objects.
- » Do not load a damaged battery — replace it immediately instead.
- » Before every use, check the device, connection cable, battery pack, extension cable and plug for damage and ageing. Allow only qualified personnel to repair damaged parts.
- » This device is not designed for use by persons (including children) with limited physical, sensory or mental abilities, or lacking experience, and/or lacking expertise, unless they are supervised by a person responsible for their safety or have received

6.3 Intended use

This charger charges the 28V Li-ion battery of the M 28/V28 system delivered with the battery-powered devices. This device must be used only as specified and intended.

6.4 Power line connection

Only connect to single-phase AC current and only to the line voltage specified on the type plate. Connection to power sockets without an earthing contact is possible, because this is a protection class II design.

6.5 Li-ion battery

For safety reasons (air transport regulations), the batteries are delivered uncharged. Before first use, the battery must be completely charged.

LED charge status display



Figure 1

If the battery is not used for a prolonged period of time, the battery switches to standby mode. To use again, the battery must be reactivated (recharged).

The charge status can be called up by pressing the button on the battery (see Fig 1). To do this, the battery can remain in the battery-powered device, but it must be switched off at least 1 minute beforehand (otherwise the display will not be accurate). The number of glowing LEDs indicates the charge status.

The basic principle is: If the battery-powered device does not function after the battery is inserted, put the battery onto the charger for testing. The displays on the battery and charger give information about the battery charge status.

At low temperatures, the work can be still be carried out with lower performance. For best operational readiness, the batteries must be fully charged after use.

6.6 Charging process

6.6.1 Charging process 28 V

After inserting the battery into the charger's insertion slot, the battery is charged automatically (red LED glows continuously).



If too warm or cold a battery is inserted into the charger (red LED flashes), the charging process starts automatically as soon as the battery has reached the correct charging temperature (0°C to 65°C). The maximum charging current flows if the temperature of the Li-ion battery is between 0°C and 65°C.



The charging time is between 1 min. and 60 min., depending on how much the battery has drained (at 3.0 Ah). The charge time for the 5.0 Ah rechargeable battery lies between 1 min and 90 min. If the battery is fully charged, the LED on the charger switches from red to green.

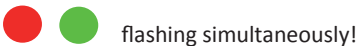


The battery does not need to be removed from the charger after charging. The battery can continue to stay in the charger. This cannot overload the battery, and it keeps the battery ready to use.

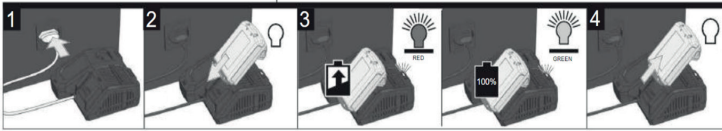
If both LEDs flash alternately, the battery is either not correctly placed or a malfunction of either the battery or charger has occurred. For safety reasons, remove the charger and battery from service immediately and have it checked by an authorized customer service centre.



If the power adapter is overloaded, all LEDs flash 4 times. To be able to continue charging, unplug the power adapter and plug it back in.



6.6.2 Charging process 18 V



LIGHT INDICATORS



Continuous red Charging



Slow flashing green Approaching full charge



Continuous green Charging is complete



Fast flashing red Battery is too hot/cold - Charging will begin when battery reaches correct charging temperature



Slow flashing red Battery charge is pending - Charging will begin when the first pack is fully charged



Flashing red/green Damaged or faulty battery pack

Milwaukee, 2022

6.7 Maintenance

If the power cable is damaged, it must be replaced by a customer service centre.

Use only approved accessories and replacement parts. Parts whose replacement has not been described must be replaced by an authorised customer service centre.

7 Transport, packaging and storage

7.1 Safety information

**CAUTION!****Incorrect transportation can cause damage!**

Significant material damage can occur due to incorrect transportation.

Therefore:

- » Proceed with caution when unloading packages and observe the symbols on the packaging.
- » Do not open fully or dispose of packaging until at the intended storage location.

7.2 Transport inspection

The delivery should be checked immediately upon receipt for completeness and any possible transportation damage, so that a quick remedy can be instigated if necessary.

In the event of visible external damage proceed as follows:

- Do not accept the delivery, or only accept it with reservation.
- Note the extent of transport damage on the transport documents or on the transport company's delivery note.
- Submit a complaint.

**NOTE!**

Report any defect as soon as it is detected.

Claims for damages can be directed to our customer service department (see chapter 1.6).

7.3 Symbols on the packaging



Caution fragile!

Handle the package carefully, do not drop, throw, strike or tie up.



This way up!

The package must be transported and stored strictly such that the arrows point upwards. Do not roll or tilt.

7.4 Disposal of packaging



All packaging materials and disassembled parts (transportation protection) must be disposed of properly in accordance with applicable local regulations.

7.5 Storage

The equipment should be stored in a dry and dust-free environment where possible. Avoid direct UV radiation on the hoses.



CAUTION!

The equipment must be stowed securely in the mountings intended for this, in order to avoid it being damaged whilst in transit etc.

Do not tilt or recline the power units as oil will leak from the container vent.

8 Installation and commissioning

8.1 Safety information



WARNING!
Danger of injury due to improper operation!

Improper operation can cause serious injury or material damage.

Therefore it is imperative that:

- » Execute all operating steps in accordance with the information in this operating manual.
- » Prior to starting work ensure that all covers and protective devices are installed and functioning properly.

Personal protective gear

Wear the protective gear detailed in chapter 2.4 with all work!



NOTE!
 Special reference has been made where it is necessary to wear additional protective equipment for certain work with or on the device.

8.2 Checks

Check the power unit for damage. If the equipment should be found not to be in flawless condition then it must not be used! In this event, inform your supplier immediately.

- Check the frame (damage)
- Check the control lever (function)
- Check the couplings (damage, dirt)
- Check the reels and carry handles (securely fastened)
- Check the protective covers (damage)

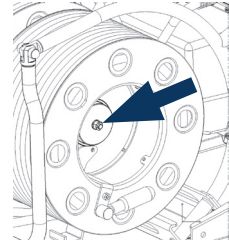
8.3 Installation

Reel brake

Each rapid deployment reel is equipped with a separate reel brake. The brake force can be set by the nut (SW 13) in the middle of the reel mount.

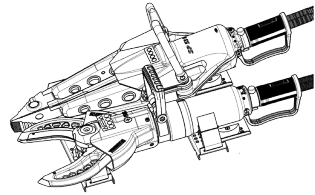
Turn clockwise = increase brake force

Turn anti-clockwise = decrease brake force



Filling with petrol

In the case of power units that have a combustion engine (V power units), it is first necessary to fill the petrol tank. Observe the manufacturer's operating instructions for this!



Adjusting the device holder (E/V 70 W-SAH 20, E/V 70 W-SAH 20 COAX)

These units are delivered with a directly integrated device holder. To optimally adjust this for the tools used, the supports must be shifted accordingly.

For all other tools, the setting of the supports may vary slightly or can be adjusted to the conditions on site.

To move the supports, each one's screw must be removed and installed in a different fastening hole. For long tools, extension plates are also available, which can simply be left off for short devices.

8.4 Shutting down (end of work)

Once the work is complete return the control lever to the „0“ position and switch the machine off via the main switch.

8.4 Advantages of device registration

What are the advantages of device registration for SMART-COMPACT rescue equipment?

With the new SMART-COMPACT battery-powered Power unit series, Weber Rescue SYSTEMS is heralding a digital revolution in the rescue tool market.

More speed, a powerful and Milwaukee compatible 18V battery, intuitive design as well as numerous smart features packed into a robust and submersible housing. To be able to use the smart features of your SMART-COMPACT power unit without restrictions via web interface and app, it is necessary that you register your device online.

The registration process activates the SIM card in the device, which enables data transfer. At the same time, you can store settings for the device and the respective authorization profiles via the app or the web interface. Explicit consent to the privacy policy of the device owner is required for device registration.



WLAN und LTE



GPS



Devicemanagement



Authorization profiles



SMART-FORCE App



Device status and telemetry



Service information



Telemetry



Safety Stop



Quicktest



Theft protection



Training mode



More information on the smart functions and features of the SMART-COMPACT power unit can be found at www.weber-rescue.com/en/smart-force

More Information

9 Servicing

9.1 Safety information



WARNING!

Injury hazard due to improperly executed maintenance tasks!

Improper maintenance can cause serious injury or material damage.

Therefore it is imperative that:

- » Maintenance work is carried out only by specialist personnel.
- » Order and cleanliness are assured at the installation site!
Parts and tools that are lying loose are a source of hazards.
- » Protective gloves are worn during all work!

9.2 Care and maintenance

The following measures are imperative in the interest of maintaining a state of constant operational readiness:

- After each use and at least once per year, the device and the accessory parts must undergo a visual inspection. You should pay particular attention to the oil level, engine, hoses and coupling halves.
- Every three years, or in the event of doubts about the safety or reliability of the equipment, an additional functional and load test is to be carried out (per DGUV Grundsatz 305-002 or country-specific directive).
- From time to time, the moving parts must be sprayed with a suitable grease.
- The hydraulic oil in the power unit must be completely replaced every three years.
- Every three years the hydraulic oil of the power units must be replaced.
- The power units must be dried after each use in wetness.



ATTENTION!

The equipment must be cleaned of all contaminants before any maintenance work so that no dirt can enter the hydraulic system. The cleaning can be carried out with a standard citrus cleaning agent.

9.3 Maintenance schedule

A more precise maintenance schedule with test intervals, test regulations and test results can be taken from DGUV Grundsatz 305-002 item 18 (hydraulically actuated rescue equipment).



NOTE !

Our customer service department is available for you if there should be problems with the maintenance of the equipment (see chapter 1.6).

10 Faults

Fault	Possible cause	Remedial measures
No pressure created	<ul style="list-style-type: none"> - Switching valve in „0“ position, incorrect side or not fully controlled to the limit stop - Too little oil in the power unit - Power unit not bled after oil change 	<ul style="list-style-type: none"> - Control the requisite, correct side - Top up oil - Bleed, see repair instructions
Rescue equipment cannot be coupled	<ul style="list-style-type: none"> - Switching valve in not in „0“ position with running engine (SKS) - Coupling halves damaged 	<ul style="list-style-type: none"> - Move switching valve to „0“ position (SKS) - Replace coupling halves
Oil discharge on the hoses and their bonding	Leaks, possible damage	Repair by authorised customer service
Degradation of the surfaces of the hydraulic hoses	Contact with aggressive chemical fluids	Repair by authorised customer service
Oil escaping at the coupling halves	Leaks	Replace coupling halves

11 Decommissioning / recycling

After the service life has expired the equipment must be disposed of correctly. Individual parts can however certainly be reused.

The hydraulic oil must be completely drained off and collected. Please note that the hydraulic oil must be disposed of separately!

The local disposal regulations apply to the disposal of all equipment parts and packaging materials.

Do not discard electric tools with household waste! According to European directive 2002/96/EC for used electric and electronic devices and its implementation in national regulations, used electric tools must be collected separately and recycled in an environmentally sound manner.



NOTE !

Please consult your supplier regarding the disposal of the equipment.

12 EC Declaration of Conformity



WEBER-HYDRAULIK GMBH
Emil Weber Platz 1, A-4460 Losenstein, Austria



DECLARATION OF CONFORMITY

according to Directive 2006/42/EC

Herewith we declare, that our "Hydraulic rescue Equipment"

POWER UNIT S-COMPACT XL

ACCESSORIES und Zubehör zu allen Geräten

meets the relevant basic safety and health requirements of the Directive
EC-MACHINE DIRECTIVE 2006/42/EC
EC-LOW VOLTAGE DIRECTIVE 2014/35/EC
EC-ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2014/30/EU
EC-DIRECTIVE RoHS 2011/65/EU
EC-RADIO EQUIPMENT DIRECTIVE 2014/53/EU

For the relevant implementation of the safety and health requirements mentioned in the directives, the following standards and or technical specifications has been respected:

EN 13204 : 2016	EN 61000-6-1: 2019	EN ISO 13857 : 2019
NFPA 1960 : 2024	EN 61000-6-2: 2019	EN ISO 12100 : 2010
DIN 14751-4: 2011-04	EN 61000-6-3: 2006 + A1:2010	EN ISO 13849-1 : 2008
EN 61508-1: 2011	EN 61000-6-4: 2019	IEC 82079-1 : 2021
IEC 62443: 2020	EN60529 : 1991 + A1:2000 + A2:2014	ETSI EN 301 489-1 V2.2.3
ETSI EN 301 489-17 V3.2.4	ETSI EN 301 489-19 V2.1.1	ETSI EN 301 489-52 V1.1.0
ETSI EN 301 893 V2.1.1:2017-05	ETSI EN 301 511 V12.5.1:2017-03	EN 301 908-1 V15.1.1
EN 300 328 V2.2.2:2019-07	EN 303 413 V1.2.1	EN 301 908-13 V13.2.1
EN 62311:2008	ETSI EN 300 440 v 2.2.1 : 2018-07	


The tools are tested according to EN 13204:2016 and NFPA 1960:2024

The notified body TÜV SÜD Product Service GmbH, identification number: 0123, has carried out an EU type examination for RED 2014/53/EU Article 3.1a, 3.1b and 3.2 and issued the type examination certificate
 Authorised person to compile the technical file(s): Josef Eder Head of Development

Losenstein, 15.10.2024

WEBER-HYDRAULIK GMBH
A-4460 Losenstein - Emil Weber Platz 1


i.A. Hannes Buchner
(Produkt Manager)


i. V. Josef Eder
(Entwicklungsleiter)

**WEBER-HYDRAULIK GMBH**
Emil Weber Platz 1, A-4460 Losenstein, Austria**DECLARATION OF CONFORMITY**

according to Directive 2006/42/EC

Herewith we declare, that our "Hydraulic rescue Equipment"

SPREADERS	SP 35 AS, SP 40 EN, SP 40 C, SP 44 AS, SP 49, SP 50 BS, SP 54 AS, SP 53 BS, SP 60, SP 64 BS, SP 80, SP 84 BS
CUTTERS/COMBI-TOOLS	S 25-20, S 33-14, S 50 (-14), S 140-26 (LIGHT), S 220-54, S 270-71, C 100-31, RS 130-49, RS 170-105, RSU 180 PLUS, RSU 210 PLUS, RSX 105-29, RSX 160 (-50), RSX 165-65, RSX 180-80 (PLUS), RSX 185 (-105), RSX 200-107 (PLUS), SPS 270 (LIGHT), SPS 270 (MK2), SPS 360 (L) (MK2), SPS 370 (MK2), SPS 400 (MK2), SPS 480 (MK2), RSC 170 (PLUS), RSC 190 (PLUS), RSC 200 (PLUS), RSC F7
RAMS	RZ 1-755, RZ 1-800, RZ 1-850, RZ 1-955 L, RZ 1-465 LIGHT, RZ 1-580 LIGHT, RZ 1-1810 CROSSRAMMER, RZ 2-1290, RZ 2-1415 L, RZ 3-1640, RZD 2-1200, RZT 2-600 (RC7), RZT 2-775, RZT 2-1170, RZT 2-1500, RZT 2-610 XL, RZT 2-1120 XL, RZT 2-1250 XL, RZT 2-1275 XL, RZT 2-1500 XL, RZT 3-1310 XL
SPECIAL TOOLS	BC 250, C 45-9, SPK 250, DO 105, DO 120, DO 140 (MK2), SBH 15-255, HANDVARIO RIT TOOL, MSE 15-255, SPS 270 H, RSX 145-29 H
POWER-UNITS	E/V 50..., E/V 70..., E/V 400 (S)..., V 400 ECO, B-COMPACT (ECO/ XL), E-COMPACT, V 50 ECO, AKKUPAC (ECO), V-ECOCOMPACT(*3600U/min), V-ECOSILENT, V 50S TURBO PLUS
HANDPUMPS/ACCESSORIES	DPH 0705..., DPH 3215..., DPH 4018..., DPF 4018, EPH 0203 and accessories to all tools

meets the relevant basic safety and health requirements of the Directive


EC-MACHINE DIRECTIVE 2006/42/EC**EC-LOW VOLTAGE DIRECTIVE 2014/35/EC****EC-DIRECTIVE RoHS 2011/65/EU**

For the relevant implementation of the safety and health requirements mentioned in the directives, the following standards and or technical specifications has been respected:

EN 13204 : 2016**EN ISO 13857 : 2019****NFPA 1936 : 2020****EN ISO 12100 : 2010**

The tools are tested according to EN 13204:2016 and NFPA 1936:2020 through TÜV-Süd and SGS

Authorised person to compile the technical file(s): Josef Eder - Head of Development

WEBER-HYDRAULIK GMBH
A-4460 Losenstein - Emil Weber Platz 1
Losenstein, 05.07.2023
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