Wap SC 702

Wap SC 720

Wap SC 730

Operating Instructions
Your Wap SC.

Congratulations on your purchase of a hot-water high-pressure cleaner of the SC generation.

Do not use the unit without reading these operating instructions:

- You will find all necessary information here.
- You will become familiar with the technical details.
- You will learn how to use your unit efficiently and optimise its performance.
- Care and maintenance in accordance with the operating instructions increase safety and retain the value of your Wap SC.
- Please read and follow the safety precautions.

Our contribution to the environment:

- Constant research and further development under intensive observance of environmental protection
  - for energy, costs and water-saving, low-emission cleaning technology.
  - to ensure the recyclability.
- The plastics use are recyclable and provided with a material marking.
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1 Description

1.1 General information

Before putting the machine into operation, please read these operating instructions and the safety precautions, and keep the operating instructions close at hand for later reference.

1.2 Application

In the following we provide a few examples of applications for the high-pressure cleaner and the suitable Wap cleaning and care agents:

<table>
<thead>
<tr>
<th>Vehicles/utility vehicles</th>
<th>Passenger cars, lorries, tarpaulins, buses, motorcycles, mopeds, bicycles, cleaning wheel rims</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car dealers, petrol stations, car wash facilities</td>
<td>Vehicle cleaning, new car preservation, pre-washing before running through a car wash</td>
</tr>
<tr>
<td>Construction</td>
<td>Construction vehicles, machines, facades</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Machine pool, stables, silos, disinfection</td>
</tr>
<tr>
<td>Food industry</td>
<td>Halls and facilities of slaughter houses, butcher shops, bakeries, dairies, breweries, disinfection</td>
</tr>
<tr>
<td>Industry, handicrafts</td>
<td>machine parts, halls, motors</td>
</tr>
<tr>
<td>Sanitary facilities</td>
<td>Swimming pools, toilets, wash rooms, disinfection</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsuitable cleaning agents lead to poor cleaning results and cause damage to the unit. Pre-dilute concentrate as described.</th>
<th>Contain</th>
<th>No.</th>
<th>Pure or pre-dilute</th>
<th>pH value in 1 % solution approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WapClean Car Shampoo Intensive-action concentrate against dust, soot, grease, oil and insect residues. For delicate surfaces.</td>
<td>30 kg</td>
<td>80856</td>
<td>1:5</td>
<td>8,6</td>
</tr>
<tr>
<td>WapClean Intensive Cleaner Concentrate can be used universally for heavy dirt on motors/engines, machine parts, in halls, on lorries and tarpaulins.</td>
<td>30 kg</td>
<td>80857</td>
<td>1:5</td>
<td>8,8</td>
</tr>
<tr>
<td>WapClean Gloss Wax Fast drying free of mineral oil after washing a vehicle. For a weather-proof protective coating.</td>
<td>10 kg</td>
<td>80925</td>
<td>1:10</td>
<td>7,0</td>
</tr>
</tbody>
</table>

See the brochure „Wap Cleaning and Care Agents” for other highly effective cleaning and care agents.
1.3 Unit Design

1. Power cable
2. Tap water supply connection
3. Swivel castor with locking brake
4. Cleaning-agent metering unit
5. High-pressure hose connection
6. Cleaning agent tank
7. Spray gun
8. Spray-lance storage slot
9. Exhaust outlet
10. SuperClean H-I/HL-I Nozzle
11. Control panel
12. Fuel tank
13. High-pressure hose

Diagram:

1. Unit switch
2. Temperature control
3. Fuel shortage alarm
4. Rotating direction monitor (SC 730 only)
5. Calcification alarm

⚠️ This symbol means: not available on all models (special equipment, model versions).
1.4 Technical data

<table>
<thead>
<tr>
<th></th>
<th>SC 702</th>
<th>SC 720</th>
<th>SC 730</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume flow l/min</td>
<td>8,3-5,8</td>
<td>9,2-4,7</td>
<td>10,2-4,7</td>
</tr>
<tr>
<td>Working pressure bar</td>
<td>105-50</td>
<td>130-25</td>
<td>140-25</td>
</tr>
<tr>
<td>Permissible gauge pressure bar</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Permissible temperature °C</td>
<td>80/99</td>
<td>80/140</td>
<td>75/140</td>
</tr>
<tr>
<td>Max. supply temperature °C</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Max. water feed pressure bar</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Ave. fuel consumption (at 50 °C) kg/h</td>
<td>2,7</td>
<td>2,8</td>
<td>3,0</td>
</tr>
<tr>
<td>Voltage V</td>
<td>230/1-ph.</td>
<td>230/1-ph.</td>
<td>400/3-ph.</td>
</tr>
<tr>
<td>Frequency Hz</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Electrical connection kW</td>
<td>2,6</td>
<td>3,6</td>
<td>4,3</td>
</tr>
<tr>
<td>Fuse A</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Protection class</td>
<td>I</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Protection type IP</td>
<td>45</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Water content of heating coil l</td>
<td>2,65</td>
<td>2,65</td>
<td>2,65</td>
</tr>
<tr>
<td>Fuel tank capacity l</td>
<td>11,5</td>
<td>11,5</td>
<td>11,5</td>
</tr>
<tr>
<td>Additive tank capacity l</td>
<td>5,5</td>
<td>5,5</td>
<td>5,5</td>
</tr>
<tr>
<td>Sound level at 1 m distance dB(A)</td>
<td>83,2</td>
<td>83,0</td>
<td>82,7</td>
</tr>
<tr>
<td>Length mm</td>
<td>1020</td>
<td>1020</td>
<td>1020</td>
</tr>
<tr>
<td>Width mm</td>
<td>590</td>
<td>590</td>
<td>590</td>
</tr>
<tr>
<td>Height mm</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Weight kg</td>
<td>77</td>
<td>79</td>
<td>79</td>
</tr>
</tbody>
</table>

1.5 Unit operation

Main subassembly I - Drive motor with high-pressure pump, safety control block with automatic pressure switch-off feature, flow monitor and high-pressure blower burner with fuel pump

- The float valve controls the water supply.
- The high-pressure pump sucks water out of the water box and transports the water under pressure to the high-pressure nozzle.
- The safety control block with automatic pressure switch-off feature and safety valve ensures pressure monitoring and limitation.
- The automatic calcification alarm meters the anti-calcification concentrate.
- The metering valve is used to add cleaning and care agents and to rinse the intake system.

Main subassembly II - Heat exchanger with temperature monitor

- The heat exchanger with high-pressure blower burner produces hot water.
- The fuel is supplied via a fuel pump driven by the pump motor.
- The thermostat monitors the working temperature.
- The flow monitor switches the oil burner off in the case of a water shortage.
- The thermal fuse acts as an additional safety element against overheating.

Water quantity, pressure and temperature are steplessly adjustable.
Mode of operation of the safety equipment:

The **safety control block** returns impermissibly high gauge pressure to the suction line of the pump via a bypass line without residual pressure.

The **safety valve** is responsible for preventing impermissibly high gauge pressure. When actuated, the exiting liquid is channelled off harmlessly.

The **flow monitor** switches the fuel supply of the oil burner off with a solenoid valve in the case of a water shortage. This prevents the heat exchanger from overheating.

The **thermal fuse** switches off the machine if an existing safety device fails and a water shortage occurs simultaneously. In order to restart the machine after the thermal fuse has been actuated, the fuse must be replaced.

The safety equipment are lead-sealed and may not be adjusted.

2 Control and Operation

2.1 Important note on work safety

**IMPORTANT!**

Materials containing asbestos and other hazardous substances may not be sprayed.

Use only tested Wap high-pressure safety hoses approved for use with the machine. These correspond to the German „Richtlinien für Flüssigkeitsstrahler“ (Guidelines for Liquid Sprayers) and are marked accordingly.

Do not kink, pull, twist, crush or run over high-pressure hoses. Never work with a damaged high-pressure hose. Replace damaged hose immediately with a genuine Wap spare part.

Hoses may only be connected by the manufacturer, supplier or an expert.

Set the machine as far as possible from the object to be cleaned.

When using cleaning and care agents, the manufacturer’s warnings must be observed.

In accordance with the Guidelines for Liquid Sprayers, only cleaning and care agents may be used for which the manufacturer has no reservations. Unsuitable cleaning agents may endanger your health and cause damage to the machine and the object to be cleaned. Therefore, use only the Wap cleaning and care agents recommended in these operating instructions and matched to the machine. Observe the manufacturer’s safety data sheets.

Specific reference is made here to the dangers resulting from the use of highly flammable, combustible, toxic, health-endangering, caustic or irritating substances.

Please observe the German „Guidelines for Liquid Sprayers“ and the generally applicable local regulations and ordinances (see 2.1.1).

Do not reach into the opening of the exhaust outlet when closing the unit shroud.

Use only genuine Wap accessories and spare parts.

**Heat Exchanger**

Only fill with fuel when machine is cold.

Do not touch the heat exchanger or metal parts of the spraying device when working with hot water.

**DANGER OF BURNS!**

Do not bend over exhaust outlet when using hot-water mode.

**DANGER OF BURNS AND EXPLOSION!**

Due to the danger of explosion from the burner, machines operated at petrol stations or in other hazardous areas may only be used outside the areas specified as hazardous in the German TRbF (Technical Rules for Flammable Liquids).
When setting up in rooms, the local building regulations for channelling exhaust gas into the open must be observed. Provide sufficient ventilation.

The machine must be constantly supervised so that the operating personnel is able to notice if the flame goes out.

**CAUTION!** If the machine runs dry, the fuel pump will be destroyed.

### Electrical System

Check the mains voltage of the machine before connecting it to the power supply. Make sure that the voltage indicated on the rating plate corresponds to the local mains voltage.

It is strongly recommended that the power supply for this unit be connected via a residual-current-operated circuit-breaker. This device cuts off the power supply if the leakage current to earth exceeds 30 mA for 30 ms, or contains an earth testing-current circuit.

When using an extension cable, all current-carrying parts (plug, line, electrical sockets) must be arranged so that the protection type “water-tight” is fulfilled. This can also be achieved with protected routing.

**CAUTION!** If the machine runs dry, the fuel pump will be destroyed.

Always handle the power cable with caution. Make sure that you
- never kink the power cable
- do not set anything on it
- never pinch or crush it anywhere
- never touch the plug or power cable with wet hands. Always hold the power cable by the plug when plugging in and pulling out.

Do not use the machine in the immediate vicinity of heat sources (fire, radiators, heater blowers or other heat-radiating devices) and never cover the machine.

Set up the unit in a dry location.

Never attempt to continue operating, to dismantle or to make any changes on the machine yourself if
- the power cable or the plug of the machine are damaged.
- a foreign object of liquid has reached the inside of the machine.
- the machine is not operating normally.
- unusual changes in the operating condition occur.

Please contact the Wap Customer Service or an authorised specialised workshop!

The electrical connection must be carried out by a qualified electrician. The latest edition of the IEC regulations must be observed.

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**CAUTION! Always disconnect power plug before working on the machine!**

### 2.1.1 Inspections and Approvals

The machine corresponds to the German "Guidelines for Liquid Sprayers". The high-pressure cleaner must be inspected by an expert for operating safety as described in these guidelines and the "UVV - Working with Liquid Sprayers (VBG 87)" as required, however at least every 12 months.

The company owner must ensure that the major parts (e.g. safety equipment, pump, hoses, spraying device and power cable) of the liquid sprayer are checked for proper condition each time before operating.

The German standard VDE 0701 (IEC 335) specifies that the insulation resistance and the leakage current must be measured on electrical devices each time servicing or changes to the protective-conductor resistance are carried out. In addition, a visual inspection of the power cable, a voltage and current measurement and a functional check must be carried out. Our Customer Service technicians are available to you for expert help.

You can conclude maintenance and repeat inspection contracts with us. We will confirm the inspection results in writing.

The water capacity is less than 10 l. The design and test pressure correspond to the German steam boiler ordinance. No design approval, permit application or approval testing is required.

The complete “Richtlinien für Flüssigkeitsstrahler” (Guidelines for Liquid Sprayers) can be ordered from Carl Heymanns-Verlag KG, Luxemburger Straße 449, 50939 Köln, Germany or the responsible employer’s liability insurance association.
2.2 Before initial start-up

2.2.1 Machine

Fill fuel tank with fuel (EL heating oil or diesel oil DIN 51 603) with machine cold. The fuel must be free of impurities. The tank capacity is 11.5 l. CAUTION! Incorrect fuels may not be used, as they may present a hazard. If the tank runs dry, the fuel pump will be destroyed.

At temperatures below 8 °C, the heating oil begins to solidify (paraffin precipitation). This may result in burner starting difficulties. Add solidification-point and flow improver (available from heating-oil trade) to the heating oil in due time or use diesel oil.

Fill reservoir for Wap automatic calcification alarm. „Wap AntiKalk“ prevents lime deposits and acts as corrosion protection at the same time. To fill, please use the original-equipment bottle provided with the machine. Then order the jumbo pack (6 x 1,000 ml - No. 8466) well before the reservoir runs dry.

The anti-calcification concentrate must not impair the deemulsifying property of the cleaning and care agent used. Therefore, use only tested „Wap AntiKalk“.

Screw spray lance onto spray gun and connect high-pressure hose to machine.

2.2.2 Water connection

Connect machine to water tap with 1/2" or 3/4" water hose and open water tap.

The water supply tank fills with water.

Use only filtered water. Dirt particles contained in water may damage the machine and the object to be cleaned.
2.2.3 Electrical connection

Check the mains voltage of the machine before connecting it to the power supply. Make sure that the voltage indicated on the rating plate agrees with the local mains voltage.

Only connect the machine with an approved plug. In the case of direct connection (without plug and socket), a main switch must be installed by a qualified electrician.

**On SC 730:** If the display on the control panel is constantly lit up, the electrical socket must be connected by an electrician in accordance with the local standards for the purpose of changing the rotational direction.

See rating plate for protection with fusible link or circuit breaker.

Avoid extension cables. When using extension cables, the cross-section may not be smaller than 2.5 mm² and the cable not longer than 50 m. Due to the danger of overheating, always unroll the cable drum completely.

2.3 Operation

2.3.1 Initial start-up

During the winter months, the water system is filled with antifreeze for shipping. Catch the first liquid which exits (approx. 5 l) in a container for reuse.

2.3.2 Functional check

**Cold-water operation:**

★ Unlock spray gun and pull trigger.
★ Set unit switch to \[\text{position}\].

**Hot-water operation:**

★ Select temperature.
★ Unlock spray gun and pull trigger.
★ Set unit switch to \[\text{position}\].
★ When an even stream flows out of the high-pressure nozzle, set unit switch to position \[\text{position}\].

**Steam mode (above 100 °C):**

Replace standard spraying device with steam jet spray lance (No. 14786). Set thermostat to temperature above 100 °C. Open shroud. Open pressure and quantity control (black rotary knob) on safety control block of high-pressure pump by turning anti-clockwise.

Unlock spray gun and pull trigger. Set unit switch to \[\text{position}\] position. When an even stream flows out of the wide-angle nozzle, set unit switch to \[\text{position}\].

**Pressure control:**

The pressure and water quantity can be steplessly adjusted with the Variopress thumbwheel.
2.3.3 Using SuperClean HL-I Nozzle

1. Simply turn SuperClean HL-I Nozzle to adjust from spot stream to wide stream.

2. Select high or low pressure. Pressure selection should only take place with spray gun closed.

2.3.4 Working with cleaning and care agents

SC 702

★ Additives can only be sucked in through standard-equipment injector in low-pressure mode.

★ Turn adjustment wheel on spray gun to stop (max. flow rate).

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★ Adjust concentration at metering valve as required.

★ After completing work with cleaning agent, set the metering valve to the 0 position and allow the machine to run for approx. 1 min. with the spray gun open. The cleaning-agent system will be flushed and deposits prevented.

If the machine is not to be used for a longer period, clean water must be sucked in through the cleaning-agent suction hose. This rinses out cleaning agent residues which would otherwise deposit in the unit and cause malfunctions. To do this, set the metering valve to the maximum flow rate.

2.3.5 Monitoring operation

The following displays on the control panel are active with the machine switched on:

- Add „Wap AntiKalk“ anti-calcification concentrate (No. 8466)!
- Motor is rotating in wrong direction - have electrical socket connected by an electrician in accordance with local standards!
- Fuel shortage!
2.4 Shut-down

★ Set metering valve to 0 position.
★ Set unit switch to position.
★ Continue to run machine for approx. 1 minute, then set unit switch to 0 position.
★ Operate spray gun until machine is depressurised.
★ Lock operating lever. This lock must be engaged even when interrupting work for short periods.
★ Close water tap.
★ Open shroud and briefly press float in water box so that pressure in water supply hose can dissipate. Hose can then be separated from unit more easily.
★ Store machine in frost-free room.

If it is not possible to store the machine frost-free, proceed as follows:
★ Close water tap.
★ Set unit switch to position and operate spray gun.
★ Gradually fill water box with anti-freeze (approx. 3 l).
★ The machine is protected against frost when anti-freeze exits at spray lance.
★ Catch liquid during next start-up for reuse.
3 Care and Maintenance

3.1. Important safety information

| CAUTION! |
| Always pull power plug before working on machine! |

Your high-pressure cleaning machine will remain operable for years to come if you treat it with care.
Use only genuine Wap accessories and spare parts.
The maintenance work marked with ⚠ may only be carried out by Wap Service Technicians.

3.2 Maintenance work

3.2.1 Checking oil level, oil change
★ Check oil level of high-pressure pump on dip stick of oil filler plug at regular intervals and add oil if necessary.
★ Change oil when it has a greyish or whitish colour. Open oil drain plug on pump housing and dispose of oil in accordance with local regulations.
★ Replace seal and fit plug again.
★ Pour in oil and close oil filler plug.
Oil type: SAE 15 W 40
Oil quantity: 0.25 ltr.

3.2.2 Pump system
★ Clean screens and filters in water supply system (float valve, high-pressure pump inlet).
★ Grease hand-tightened screw connections on jet pipe and high-pressure hose.

3.2.3 Heat exchanger
★ Remove and clean.
★ Drain and dispose of cleaning liquid in accordance with local regulations.

3.2.4 Ignition system
★ Clean ignition transformer, ignition cable and ignition electrodes, replace defective parts, and clean oil jet, oil filter, solenoid valve and screen.

3.2.5 Fuel system
★ Empty fuel tank. Clean tank and lines.
3.2.6 Adjusting Wap automatic calcification alarm

The automatic calcification alarm is preadjusted at the factory. However, should an adjustment be necessary, proceed as follows:

★ Measure water hardness or obtain water-hardness range from local water utility company.
★ Disconnect machine from power supply.
★ Open shroud.
★ Remove switch-box cover.
★ Adjust potentiometer on PCB to desired water-hardness range.
★ Screw cover onto switch box.
★ Close shroud and secure.

<table>
<thead>
<tr>
<th>Water hardness in °dH</th>
<th>Setting on potentiometer</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 15</td>
<td>1</td>
</tr>
<tr>
<td>16 - 30</td>
<td>2</td>
</tr>
</tbody>
</table>

3.2.7 Decalcifying

Decalcification is normally not required when Wap AntiKalk is used on a regular basis.

Due to improper handling of the machine or the use of unsuitable cleaning agents, deposits can form in the pump system. The degree of calcification depends on the respective water hardness and is indicated on the pressure gauge by a gradual increase in the water pressure.

If the working pressure is exceeded by 10 bar (with Variopress device open), the machine must be decalcified.

Procedure:

★ Screw high-pressure nozzle off spray lance and lay separately in Wap decaler.
★ SC 720/SC 730 only: Insert free end of cleaning-agent intake hose in container with decaler and set metering valve to maximum concentration.
★ Hold spray lance in separate container to catch escaping liquid.
★ Switch on high-pressure pump.
★ SC 702 only: Operate spray gun and gradually fill water box with decaler.
★ Operate spray gun: Decaler is sucked in and bubbles heavily as it exits spray lance after approx. 1 minute.
★ Switch off high-pressure pump and allow to work for approx. 15 minutes.
★ Flush out pump system thoroughly with clean water.
★ After approx. 2 minutes an even stream must exit at spray lance. If this is not the case, repeat decalcifying procedure.
★ Screw high-pressure nozzle onto spray lance.

CAUTION!
Decalifier causes acid burns. Avoid contact with skin, eyes and clothing, and wear appropriate protective clothing (e.g. gloves, face protection, apron). Only approved decalifiers may be used for decalcifying. Use Wap Decalifier, No. 8326.
3.5 Maintenance schedule

<table>
<thead>
<tr>
<th>Maintenance Task</th>
<th>Weekly or every 40 operating hours</th>
<th>Quarterly or every 200 operating hours</th>
<th>Annually or every 500 operating hours</th>
<th>As required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check oil level</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change pump oil</td>
<td></td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean screens and filters in water supply system</td>
<td></td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean heat exchanger</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Clean ignition system</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Clean fuel system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grease hand-tightened screw connections on spray lance and high-pressure hose</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Decalify</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

3.4 Fault finding

With the exception of the settings explained in the operating instructions, no repairs of any kind should be attempted by the user himself/herself. Always leave service and repair work, particularly the elimination of electrical faults, to a qualified Wap Customer Service Technician or an authorised expert.

**CAUTION!**
Always disconnect power plug before working on machine!

The information below will help in fault finding and elimination. Should it nevertheless not be possible to repair the fault, please contact the nearest Wap Customer Service office.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Machine does not start up</td>
<td>a) Power supply interrupted</td>
<td>Have power cable checked by electrician</td>
</tr>
<tr>
<td></td>
<td>b) Control fuse defective</td>
<td>Install new fuse</td>
</tr>
<tr>
<td></td>
<td>c) Overload protection has been triggered</td>
<td>Allow machine to cool for at least 3 min. Eliminate reason for overloading (e.g. high-pressure nozzle dirty, machine calcified)</td>
</tr>
<tr>
<td></td>
<td>d) Thermal fuse blown</td>
<td>Have replaced by Wap Service Technician</td>
</tr>
<tr>
<td>B Burner does not ignite during switch-on</td>
<td>a) Fuel tank empty</td>
<td>Fill fuel tank</td>
</tr>
<tr>
<td></td>
<td>b) Impurities or water in fuel</td>
<td>Clean fuel tank and lines</td>
</tr>
<tr>
<td></td>
<td>c) No ignition spark</td>
<td>Have burner adjustment checked by Wap Service Technician</td>
</tr>
<tr>
<td></td>
<td>d) Solenoid valve does not open</td>
<td>Check electrical connection and replace solenoid valve if necessary</td>
</tr>
<tr>
<td></td>
<td>e) Screen in solenoid valve dirty</td>
<td>Clean screen (see B b))</td>
</tr>
<tr>
<td>Fault</td>
<td>Cause</td>
<td>Remedy</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td></td>
<td>f) Oil jet plugged (see B b))</td>
<td>Clean nozzle and screen and replace if necessary</td>
</tr>
<tr>
<td></td>
<td>g) Oil filter dirty (see B b))</td>
<td>Clean filter</td>
</tr>
<tr>
<td></td>
<td>h) Oil pump or coupling defective (see C a), b))</td>
<td>Replace oil pump or coupling</td>
</tr>
<tr>
<td></td>
<td>i) Water quantity too low</td>
<td>See D a) - f) for cause</td>
</tr>
<tr>
<td>C</td>
<td>Burner produces soot</td>
<td>Have burner adjustment checked by Wap Service Technician</td>
</tr>
<tr>
<td></td>
<td>a) see B b), e), f), g), h)</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Burner switches off during operation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Water tap closed</td>
<td>Open water tap</td>
</tr>
<tr>
<td></td>
<td>b) Water quantity too low</td>
<td>Check water supply line (see 2.2.2)</td>
</tr>
<tr>
<td></td>
<td>c) Float valve plugged</td>
<td>Clean filter and valve</td>
</tr>
<tr>
<td></td>
<td>d) Intake filter plugged</td>
<td>Clean filter</td>
</tr>
<tr>
<td></td>
<td>e) Additive tank empty</td>
<td>Fill tank</td>
</tr>
<tr>
<td></td>
<td>f) Suction and pressure valve of high-pressure pump defective or dirty</td>
<td>Remove valve, clean and replace if necessary</td>
</tr>
<tr>
<td>E</td>
<td>Unit switches off and on continuously (with spray gun open)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) High-pressure nozzle dirty</td>
<td>Clean high-pressure nozzle and replace if necessary</td>
</tr>
<tr>
<td></td>
<td>b) Unit calcified</td>
<td>Decalcify as per instructions (see 3.2.7)</td>
</tr>
<tr>
<td></td>
<td>c) Wrong high-pressure nozzle</td>
<td>Use high-pressure nozzle as per nozzle table (see 3.5)</td>
</tr>
<tr>
<td></td>
<td>d) Automatic pressure shut-off feature incorrectly adjusted</td>
<td>Adjustment by Wap Service Technician</td>
</tr>
<tr>
<td>F</td>
<td>Unit switches off and on continuously (with spray gun closed)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Off/on trigger gun leaky</td>
<td>Check off/on trigger gun</td>
</tr>
<tr>
<td></td>
<td>b) High-pressure screw connection or pipe leaky</td>
<td>Tighten screw connection</td>
</tr>
<tr>
<td></td>
<td>c) High-pressure hose leaky</td>
<td>Replace high-pressure hose</td>
</tr>
<tr>
<td>G</td>
<td>Pressure too low</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Additive tank empty</td>
<td>Fill additive tank</td>
</tr>
<tr>
<td></td>
<td>b) High-pressure nozzle worn</td>
<td>Replace high-pressure nozzle</td>
</tr>
<tr>
<td></td>
<td>c) Filter dirty</td>
<td>Clean filter</td>
</tr>
<tr>
<td></td>
<td>d) High-pressure pump sucks in air</td>
<td>Fill additive tankRepair leaks</td>
</tr>
<tr>
<td></td>
<td>e) Suction and pressure valve of high-pressure pump defective or dirty</td>
<td>Remove valve, clean and replace if necessary</td>
</tr>
<tr>
<td></td>
<td>f) Pressure and quantity control valve open</td>
<td>Close valve</td>
</tr>
<tr>
<td>H</td>
<td>Additives are not added</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Additive tank empty</td>
<td>Fill additive tank</td>
</tr>
<tr>
<td></td>
<td>b) Sludge in additive tank</td>
<td>Clean additive tank</td>
</tr>
<tr>
<td></td>
<td>c) Suction valve in additive supply line dirty</td>
<td>Remove suction valve, clean and replace if necessary</td>
</tr>
<tr>
<td></td>
<td>d) SC 702: Injector plugged</td>
<td>Clean injector</td>
</tr>
<tr>
<td></td>
<td>e) SC 702: SuperClean HL Nozzle not open Low-pressure flat stream</td>
<td>Switch over to low-pressure flat stream</td>
</tr>
</tbody>
</table>
3.5 Accessories, spare parts

Depending on the type of dirt and cleaning task, the corresponding nozzles can be used. The working pressure depends on the high-pressure nozzle. The required nozzle can be found in the following nozzle table.

For high-pressure hose over 50 m in length, use the next largest high-pressure nozzle.

<table>
<thead>
<tr>
<th>Pressure bar</th>
<th>SC 702 Ref.-No.</th>
<th>SC 702 Backlash force N</th>
<th>SC 720 Ref.-No.</th>
<th>SC 720 Backlash force N</th>
<th>SC 730 Ref.-No.</th>
<th>SC 730 Backlash force N</th>
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</thead>
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<td>105</td>
<td>49509*</td>
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</tr>
</tbody>
</table>

* Standard nozzles

Please see our general catalogue for additional accessories.

3.6 Warranty

Our General Standard Terms and Conditions apply for the warranty and warranty services.
EU Declaration of Conformity

as defined by the EU Machine Directive 89/392/EWG, Appendix II-A

We herewith declare that the design of the

High-Pressure Cleaner

Wap SC 702, Item No. 49128   Wap SC 730, Item No. 49130
Wap SC 720, Item No. 49129

corresponds to the following pertinent regulations:

- EU Machine Directive 91/368/EWG
- EU Low-Voltage Directive 73/23/EWG
- Electromagnetic Compatibility 89/336/EWG
- Hazards Due to Noise at the Workplace 86/188/EWG

Applied harmonised standards:

- DIN VDE 0700, Part 1 / 11/90 and IEC 335-1 / 4/91
  and the draft of
- IEC 61 J (Sec) 16

Applied national technical specifications:

- VBG 1   - VBG 48
- VBG 4   - VBG 87
- VBG 5   - VBG 119
- VBG 23   - VBG 121

Wap Cleaning Systems

Rau
Head of Research and Development