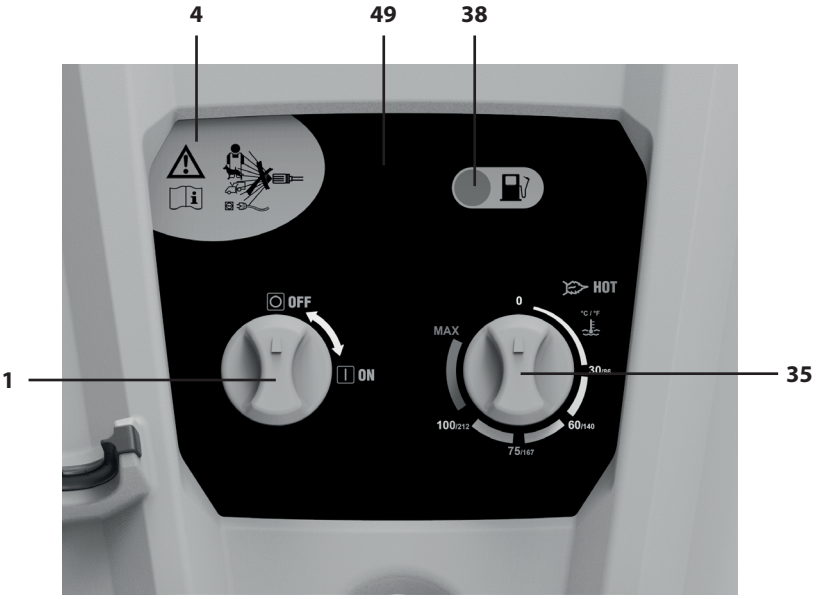

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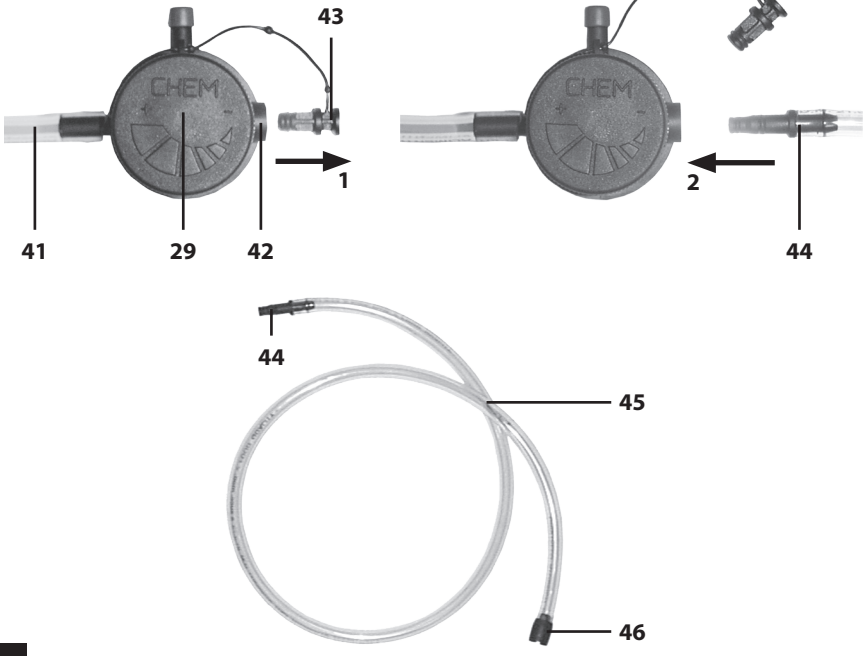

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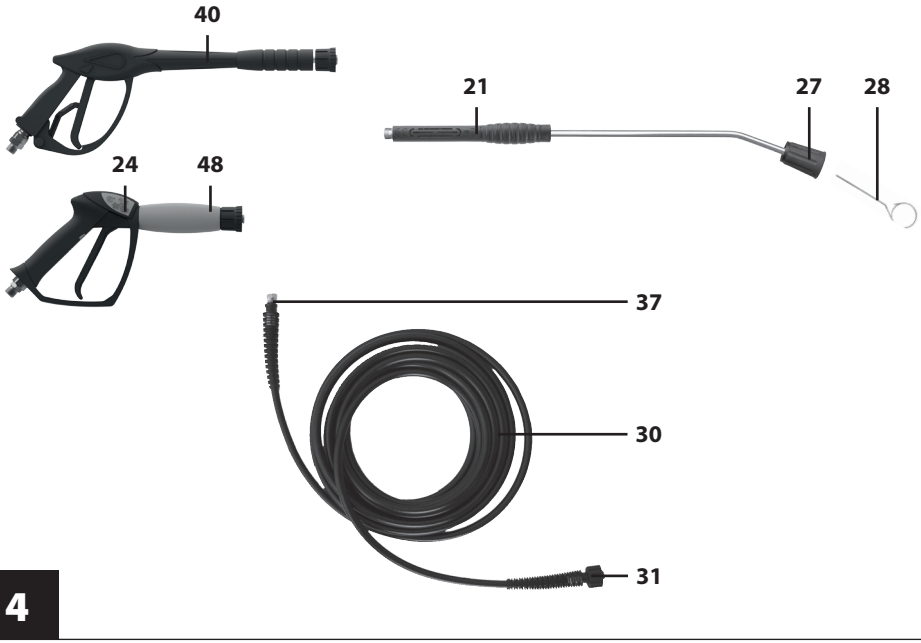
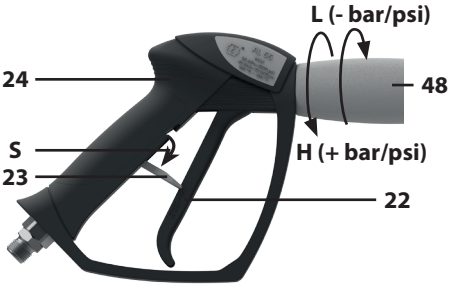
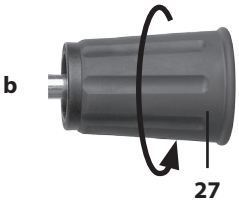


4

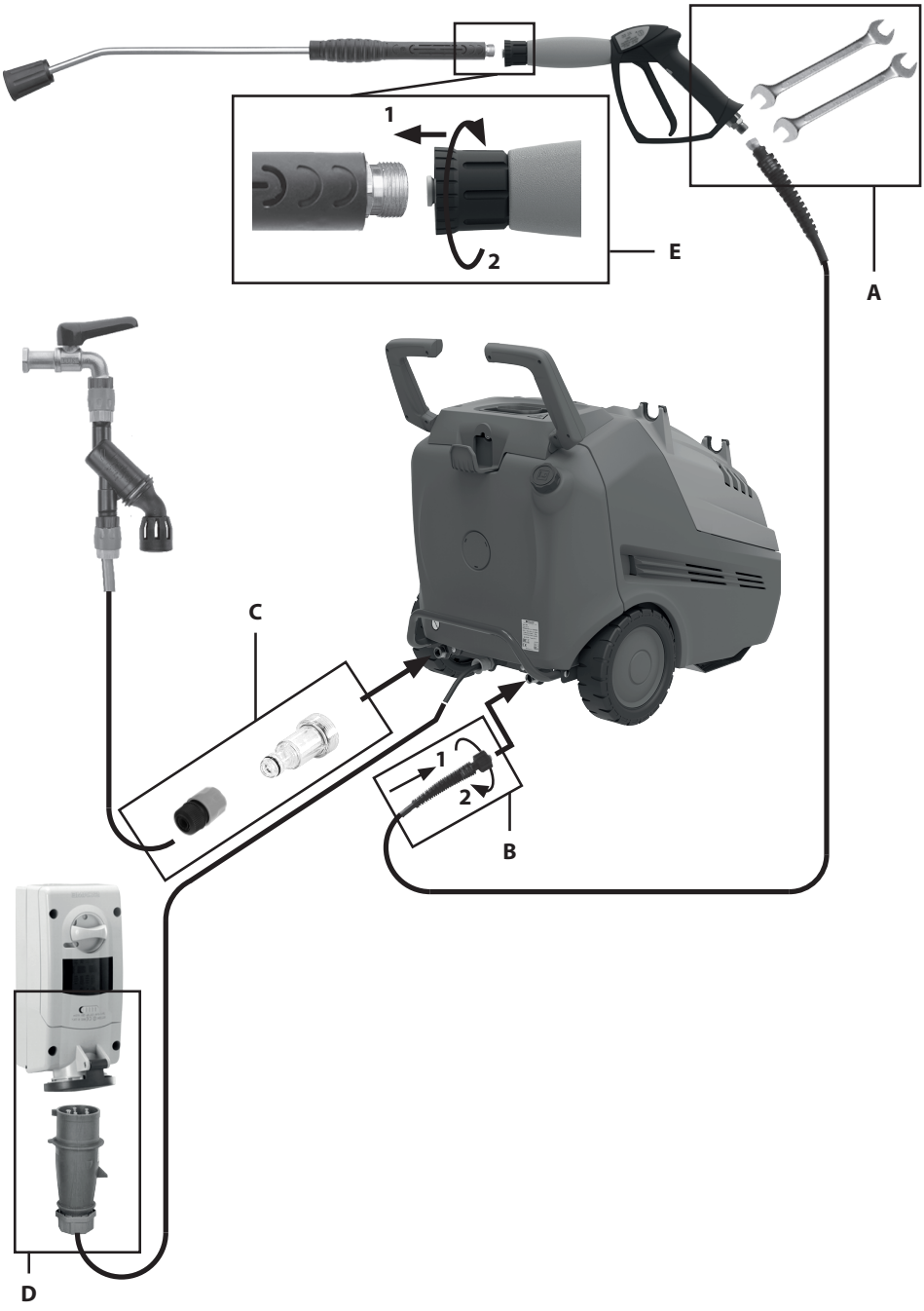


5

6



7



8

WARNING

TRANSLATION OF THE ORIGINAL INSTRUCTIONS
Read and keep in mind that indicated in the INSTRUCTION MANUAL - SAFETY WARNINGS.

TECHNICAL CHARACTERISTICS AND SPECIFICATIONS

		SIP Tempest PH600/140 Hot Electric Pressure Washer	SIP Tempest PH600/140 T4 Hot Electric Pressure Washer
		08941	**08956**
ELECTRICAL CONNECTIONS		230 V 1~ 50 Hz	230 V 1~ 50 Hz
Power supply Motor Input	(kW - HP)	3.0 - 4.1 2Pole 2800rpm	3.0 - 4.1 4 Pole 1450rpm
Fuse		13A	13A
PUMP TYPE		Axial	Crankshaft
HYDRAULIC CIRCUIT			
Maximum supply water temperature	(°C - °F)	60 - 140	60 - 140
Minimum supply water temperature	(°C - °F)	5 - 41	5 - 41
Minimum supply water flow rate	(l/min - USgpm)	12 - 3,2	12 - 3,2
Maximum supply water pressure	(bar - psi)	8 - 116	8 - 116
Maximum priming depth	(m - ft)	1.5 - 4.9	1.5 - 4.9
PERFORMANCE			
Maximum flow rate	(l/min - USgpm)	10 - 2.6	10 - 2.6
Nominal flow rate	(l/min - USgpm)	8.5 - 2.2	9 - 2.4
Maximum pressure	(bar - psi)	140 - 2030	140 - 2030
Nominal pressure	(bar - psi)	130 - 1885	130 - 1885
Maximum water outlet temperature	(°C - °F)	110 - 230	110 - 230
Maximum reaction force on the spray gun	(N)	22	24
Sound pressure level - Uncertainty	(dB(A))	78.7 - 0.7 (1)	84.9 - 0.7 (1)
Sound power level	(dB(A))	93 (1)	92 (1)
Operator hand-arm vibration - Uncertainty	(m/s^2)	0.9 - 0.24 (1)	0.9 - 0.24 (1)
PUMP OIL		ENI MULTITECH THT (2)	ENI MULTITECH THT (2)
WEIGHT AND DIMENSIONS			
Length x width x height	(mm - in)	950 x 620 x 850 - 37,4 x 24,4 x 33,5	950 x 620 x 850 - 37,4 x 24,4 x 33,5
Weight	(kg - lb)	95 - 209	100 - 220
Diesel tank	(l - USgal)	15 - 4,0	15 - 4,0
Detergent tank	(l - USgal)	3.5 - 0.9	3.5 - 0.9

(1) Measurements in agreement with 60335-2-79.
(2) Also see the corresponding oils table.
The characteristics and specifications are guidelines only. The manufacturer reserves the right to make all modifications to the equipment deemed necessary.

ENI MULTITECH THT corresponding oils:

Mobil Mobilfluid 424	Mobil Mobilfluid 426	Petronas Arbor MTF Special 10W-30
Shell Spirax S4 TXM	Total Dynatrans MPV	Elf Tractelf BF16
Castrol Agri Trans Plus 80W	Chevron Textran THD Premium	Q8 Roloil Multivariax 35 HP

PARTS IDENTIFICATION

Refer to **figures 1 to 7**.

1. Main switch
2. Foldable handle
3. Lance rest
4. Warning plates. Risks information and PPE to be used
5. Identification plate. Indicates the serial number, guaranteed sound power value (in compliance with Directive 2000/14/EC) and main technical characteristics
6. Electric power cable
7. Fuel tank cap
8. Front bumper
9. Rear bumper
10. Support for the power cord
11. Detergent tank cap
12. N/A
13. Pressure gauge
14. N/A
15. N/A
16. Water outlet connector
17. Water inlet connector
18. Water inlet filter
19. Screw for locking/releasing the handle
20. Exhaust
21. Lance
22. Pistol gun lever
23. Safety catch on pistol gun lever
24. Pistol gun with pressure regulator 08956
25. N/A
26. N/A
27. Nozzle support head
28. Nozzle cleaning pin
29. Knob for adjusting detergent
30. High pressure hose
31. High pressure hose quick fit connector
32. N/A
33. Swivel wheel
34. Swivel wheel brake
35. Knob for temperature adjustment
36. N/A
37. High pressure hose connector
38. Low fuel warning light
39. N/A
40. Pistol gun 08941
41. Detergent suction hose
42. External detergent tank suction coupling
43. External detergent tank suction cap
44. External detergent tank suction hose fitting
45. External detergent tank suction hose
46. External detergent tank suction hose filter
47. Fuel fill up filter
48. Pressure regulator 08956
49. Control panel for **single-phase models**
50. **N/A**

MEANING OF GRAPHIC SYMBOLS USED

	**"0"** position (off) of main switch (1).
	**"I"** position (on) of main switch (1).
	Wrong connection between the phases. If the warning light (36) is flashing, you need to contact a **Specialized Technician** to reverse the connection of two phases in the high pressure cleaner plug or in the socket it is connected to (**three-phase models** only).
	Low fuel level. If the warning light (38) is on, you need to supply the high pressure cleaner with fuel.

SAFETY DEVICES

- **Thermal or amperometric protector (depending on model).**
  This safety device stops the high pressure cleaner in the event of overheating and/or electrical over-current.
  If it trips, follow the instructions below:
  - turn the main switch (1) to **"0"** and take the plug out of the mains socket;
  - press the cleaner gun lever (22) to discharge any remaining pressure;
  - wait 10 to 15 minutes for the high pressure cleaner to cool down;
  - check that the requirements for the mains power connections have been followed correctly (see the **INSTRUCTIONS MANUAL – SAFETY INSTRUCTIONS**), paying particular attention to the extension lead used;
  - reconnect the plug and repeat the start-up procedure described in **"OPERATION"**.
- **Safety valve.**
  This duly calibrated maximum pressure valve discharges any excess pressure should an anomaly develop in the pressure adjustment system.
- **Boiler safety device.**
  This stops the burner working should the hydraulic circuit overheat as a result of an anomaly in the temperature adjustment system.
- **Burner Control (optional).**
  This stops the burner working should the combustion flame go out.
- **Pressure control/ adjustment valve**
  This valve, calibrated by the Manufacturer, permits to adjust the operating pressure (job pertaining to the **Specialized Technician**) and the pumped fluid to return to the pump's suction unit, avoiding dangerous pressure levels, when the gun is closed or when a pressure value is set over the maximum level allowed.
- **Dry-running control.**
  This prevents the possibility of the burner running without water.
- **Pistol Lever Blocking Device.**
  This safety device (23) allows to lock the lever (22) on the cleaner gun (24) or (40) in the closed position, preventing accidental activation **(Fig. 5, position S)**.

STANDARD EQUIPMENT

Check the following parts are included in the packaging of the purchased product:
- high pressure cleaner
- high pressure delivery hose with the quick fit connector
- Pistol 08941
- Pistol with pressure regulator 08956
- lance
- suction unit connections kit;
- hose for detergent suction from an external tank;
- Instructions manual - safety notifications;
- instructions manual - operation and maintenance
- the declaration of conformity
- nozzle cleaning pin

If you encounter any difficulties, please get in touch with your dealer or an authorized customer service centre.

OPTIONAL ACCESSORIES

The following range of accessories can be added to the standard equipment supplied with the high pressure cleaner:

- hose reel;
- cleaner gun with pressure regulator;
- ion acceleration limescale remover;
- sandblasting lance: designed for sanding surfaces, removing rust, paint and lime scale deposits, etc;
- pipe flushing probe: designed for unblocking pipes and ducts;
- rotating nozzle lance: designed for the removal of stubborn dirt;
- foaming lance: designed for a more efficient distribution of detergent;
- various types of lances and nozzles;
- back-flow preventer: designed to comply with the standards relative to connecting to the drinking water mains;
- rotating brush: conceived for delicately and effectively cleaning large surfaces such as the bodywork of vehicles;
- exhausted fumes conveyor.

INSTALLATION – FITTING THE ACCESSORIES

- Connect the quick fit connector (31) on the hose (30) to the water outlet connector (16) and secure the ring nut tightly by hand. **Step B in Fig. 8.**
- Screw the connector (37) on the high pressure hose onto the thread of the cleaner gun (24) or (40) and tighten it using two 22 mm spanners (not supplied). **Step A in Fig. 8**.
- Screw the water inlet filter (18) onto the water input connector (17). Connect water hose with quick fit type connector. **See step C figure 8.**

PRELIMINARY OPERATIONS

- Unscrew the screw (19) using an allen wrench (6 mm / 0,23") not supplied, move the handle as in **Step F in Fig. 1**, then tighten the screw again to keep the handle in place.
- Use the handles (2) to move the high pressure cleaner to the area where it is to be used.
- Engage the brake (34) on the swivel wheel (33).
- Unwind the high pressure hose completely (30).
- Using a quick type connector, secure a supply pipe to the water inlet hose filter (18) that has an inside diameter of 19 mm/0.75 in. **Step C in Fig. 8**.
- Connect the water supply hose to a tap.
- Open the water tap (if connecting to the mains water supply, you must use a backflow hydraulic device: please refer to the relative instruction manual), making sure that there is no dripping (or place the suction pipe in a draft tank).
- Check the detergent adjustment knob (29) is closed properly.
- Check the master switch (1) is set at **"0"** and connect the plug. **Step D in Fig. 8**.
- Turn the master switch (1) to **"I"**.

- Press the cleaner gun lever (22) and wait for an even stream of water to be produced.
- Turn the master switch (1) to **"0"** and connect the lance (21) to the pistol gun (24) or (40), securing it firmly. **Step E in Fig. 8**.

STANDARD OPERATION WITH COLD WATER (AT HIGH PRESSURE)

- Check if the knob for temperature adjustment (35) is in **"0"** position.
- Check the nozzle support head (27) is not set for the distribution of detergent. Also refer to **"OPERATING THE CLEANER WITH DETERGENT".**
- Turn the high pressure cleaner on again by turning the master switch (1) to **"I"**.
- Press the cleaner gun lever (22) and check the nozzle spray is even without dripping.
- The high pressure cleaner is set to operate at the maximum permissible pressure, if lower pressure values are to be used, contact a **Specialized Technician**, who will reset the pressure control/adjustment valve (**08941**)

The pressure can be adjusted by using the pressure regulator (48) of the pistol gun (24), as in **Step H in Fig. 5** to increase the pressure, or as in **Step L in Fig. 5** to decrease the pressure (**08956** only).

- You can check the pressure level on the pressure gauge (13).

NOTE: If the level of fuel in the tank is below the minimum mark, the warning light (38) will remain lit, even if you are operating the cleaner with cold water.

STANDARD OPERATION WITH HOT WATER (AT HIGH PRESSURE)

- Check if the knob for temperature adjustment (35) is in **"0"** position.
- Check the nozzle support head (27) is not set for the distribution of detergent. Also refer to **"OPERATING THE CLEANER WITH DETERGENT".**
- Unscrew the cap (7) and fill the tank with automotive gas oil, making sure the fuel does not spill over.We recommend using a funnel reserved exclusively for this purpose (maximum tank capacity 15 l / 4,0 US gal). Replace the cap.
- Turn the high pressure cleaner on again by turning the master switch (1) to **"I"**.
- Select the temperature required using the temperature adjustment knob (35).
- Press the pistol gun lever (22) and check the nozzle spray is even without dripping.
- The high pressure cleaner is set to operate at the maximum permissible pressure, if lower pressure values are to be used, contact a **Specialized Technician**, who will reset the pressure control/adjustment valve (**08941**).
  The pressure can be adjusted by using the pressure regulator (48) of the cleaner gun (24), as in **Step H in Fig. 5** to increase the pressure, or as in **Step L in Fig. 5** to decrease the pressure (**08956** only).
- You can check the pressure level on the pressure gauge (13).
- When the fuel is low, the burner will stop working and the warning light (38) will light up.
- The burner will only start working approximately 3 seconds after the cleaner gun has been opened and will stop working when the cleaner gun is closed or after it has reached the set temperature.
- If you want to switch from hot water operation to cold water operation, turn the knob for temperature adjustment (35) to **"0"** position.

OPERATION WITH DETERGENT

The Manufacturer recommends the use of detergents which are at least 90% biodegradable.
Refer to the label on the detergent for instructions on how to use it.

- Turn the master switch (1) to **"0"**.
- Check if the pressure regulator (48) is set for maximum pressure. **Step H in Fig. 5** (**08956** only).
- **Suction from the high pressure water cleaner tank:** take the cap off (11) and, being careful not to spill any of the liquid (we suggest using a funnel and keeping it for this purpose), fill the tank (maximum capacity is 3.5 l/0.9 US gal), following the dosage directions given on the detergent pack; put the cap back on.
- **Suction from an external tank:** remove the cap (43) and put the fitting (44) of the external detergent tank suctioning hose (45) in the coupling (42) (also see **Fig. 3**); put the hose (45) in the external tank containing the detergent at the strength wanted.
- Turn the detergent regulating knob (29) clockwise.

- Operate the nozzle support head (27) as shown in **Fig. 7-a** and start up the cleaner again by turning the master switch (1) to **"I"**. Now operate the lever (22): When the water is fed through, suction and mixing take place automatically. To resume work at high pressure, stop the cleaner by turning the master switch (1) to **"0"** and adjust the head (27) as shown in **Fig. 7-b** (these versions deliver the detergent at low pressure). **NOTE.** If the knob for temperature adjustment (35) is in **"0"** position, the detergent distribution will be in cold water; if it is in position **"I"**, the detergent distribution will be in hot water.
- Turn the knob (29) until the amount of product required is delivered. After you have finished using it, turn the knob (29) completely anticlockwise and, if you were using an external tank for suctioning the detergent, take the fitting (44) out of the coupling (42) and put the cap (43) back on.

STOPPING THE CLEANER – TOTAL STOP MODE

- Release the cleaner gun lever (22) to stop the high pressure jet; the high pressure cleaner moves to the by-pass operating mode and stops immediately **(08941only; Instant Total Stop)**, or after approximately 13 seconds it remains in this state **(08956 Timed Total Stop)**.
- The cleaner will resume normal operation the as soon as the lever on the gun is pressed.

⚠ WARNING

- *If you stop the high pressure jet and put the gun down, enable the locking handle (23).* ***Step S in Fig. 5.***

STOPPING

- Run the cleaner for a few minutes with cold water.
- Close the tap on the water supply off completely (or remove the suction pipe from the draft tank).
- Drain the water out of the cleaner by running it for a few seconds with the cleaner gun lever (22) pressed.
- Turn the master switch (1) to **"0"**.
- Take the plug out of the power socket.
- Eliminate any remaining pressure in the high pressure hose (30) by keeping the cleaner gun lever (22) pressed down for a few seconds.
- Wait for the cleaner to cool down.

STORAGE

- Wind up the high pressure hose (30) with due care, making sure it is not bent; for versions without hose reel, store it carefully, without damaging it.
- Wind up the power cord (6) carefully and hang it up on its support (10).
- Store the high pressure cleaner in a clean, dry place. Make sure the power cord and the high pressure hose are not damaged.
- If necessary for space reasons, it is also possible to bend the handle (2): unscrew the screw (19) using an allen wrench (6 mm / 0,23") not supplied, move the handle as in **Step G in Fig. 1**, then tighten the screw again to keep the handle in place.

SIP INDUSTRIAL
machinery specialists since 1968

EU - DECLARATION OF CONFORMITY

We

SIP (Machinery Europe) Ltd ASM Chartered
Accountants First Floor Block One Quayside
Business Park Dundalk
County Louth
Republic of Ireland

As The Manufacturer's Authorised Representative
Declare that the

SIP Tempest PH600/140 Hot Electric Pressure Washer
Code 08941
SIP Tempest PH600/140 T4 Hot Electric Pressure Washer
Code 08956

Suppliers Models Type: 9061001200 & 9061012000

Max Flow: 11 l/min

Net Installed Power: 3000 W

2009/127/EC & 2006/42/EC	Machinery Directive
2014/30/EU	EMC Directive
2011/65/EU	RoHS Directive
22005/88/EC & 2014/14/EC	Outdoor Noise Directive

The appliance is defined at no.27 of the annex I. Conformity evaluation procedure according to annex V.

08941 Measured Sound Pressure	**08941 Measured Sound Power**		**08956 Measured Sound Pressure**	**08956 Measured Sound Power**
LpA 78.7 dB(A)	LwA 93dB(A)		LpA 84.9dB(A)	LwA 92dB(A)
Uncertainty	**Granted Sound Power**		**Uncertainty**	**Granted Sound Power**
0.7			0.7	

And the relevant harmonised standard/s, including:

EN60335-1
EN60335-2-79
EN62233:2008
EN50581
EN55014-1:2006+A1:2009+A2:2011
EN55014-2:2015
EN61000-3-3:2014
EN61000-3-3:2013

Name: Mr Paul Ippaso
Position: Director

CE

SIP INDUSTRIAL
machinery specialists since 1968

UK - DECLARATION OF CONFORMITY

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
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Leicestershire
LE12 9NH
England

As the manufacturer within the UK, England,
Scotland & Wales, declare that the

SIP Tempest PH600/140 Hot Electric Pressure Washer
Code 08941
SIP Tempest PH600/140 T4 Hot Electric Pressure Washer
Code 08956

Suppliers Models Type: 9061001200 & 9061012000

Max Flow: 11 l/min

Net Installed Power: 3000 W

Conforms to the requirements of the following Directive/s, as indicated.

Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016
Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Measured Sound Power Level		Guaranteed sound power level	
08941: LpA 78.7dB(A)	**08956:** LpA 84.9dB(A)	**08941:** LwA 93dB(A)	**08956:** LwA 92dB(A)

And the relevant harmonised standard/s, including:

BS EN 60335-1
BS EN 60335-2-79
BS EN 62233:2008
BS EN 50581
BS EN 55014-1:2006+A1:2009+A2:2011
BS EN 55014-2:2015
BS EN 61000-3-2:2014
BS EN 61000-3-3:2013

UK CA

Name: Mr Paul Ippaso
Position: Director

Please dispose of packaging for the product in a responsible manner.
It is suitable for recycling.
Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.

Never dispose of electrical equipment or batteries in with your domestic waste.
If your supplier offers a disposal facility please use it or alternatively use a recognised re-cycling agent.
This will allow the recycling of raw materials and help protect the environment.

SIP INDUSTRIAL

machinery specialists since 1968

FOR HELP OR ADVICE ON THIS PRODUCT PLEASE
CONTACT YOUR DISTRIBUTOR, OR SIP DIRECTLY ON:
TEL: 01509500400
EMAIL: sales@sip-group.com or technical@sip-group.com
www.sip-group.com