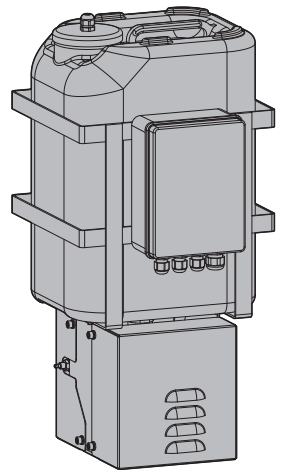
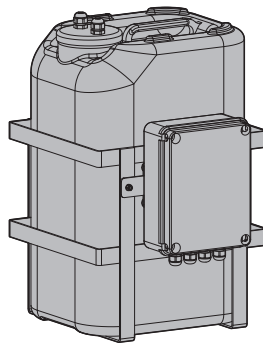
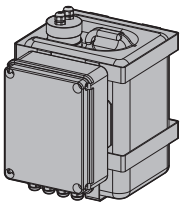




# WASPT

Washer pump and 5 or 23 litre tank





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# 1 About this manual

Read all the documentation supplied carefully before installing and using this product. Keep the manual in a convenient place for future reference.

## 1.1 Typographical conventions



**DANGER!**  
High level hazard.  
Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.



**DANGER!**  
Hot surface.  
Avoid contact. Surfaces are hot and may cause personal injury if touched.



**CAUTION!**  
Medium level hazard.  
This operation is very important for the system to function properly. Please read the procedure described very carefully and carry it out as instructed.



**INFO**  
Description of system specifications.  
We recommend reading this part carefully in order to understand the subsequent stages.

## 2 Notes on copyright and information on trademarks

The mentioned names of products or companies are trademarks or registered trademarks.

# 3 Safety rules



**CAUTION!** The electrical system to which the unit is connected must be equipped with a 20A max automatic bipolar circuit breaker. The minimum distance between the circuit breaker contacts must be 3mm (0.1in). The circuit breaker must be provided with protection against the fault current towards the ground (differential) and the overcurrent (magnetothermal).



**CAUTION!** Device installation and maintaining must be performed by specialist technical staff only.

- The manufacturer declines all responsibility for any damage caused by an improper use of the appliances mentioned in this manual. Furthermore, the manufacturer reserves the right to modify its contents without any prior notice. The documentation contained in this manual has been collected and verified with great care. The manufacturer, however, cannot take any liability for its use. The same thing can be said for any person or company involved in the creation and production of this manual.
- Before starting any operation, make sure the power supply is disconnected.
- Be careful not to use cables that seem worn or old.
- Never, under any circumstances, make any changes or connections that are not shown in this handbook. Improper use of the appliance can cause serious hazards, risking the safety of personnel and of the installation.
- Use only original spare parts. Non-original spare parts could cause fire, electrical discharge or other hazards.
- Before proceeding with installation, check the supplied material to make sure it corresponds to the order specification by examining the identification labels (4.1 Product marking label, page 6).
- A power disconnect device must be included in the electrical installation, and it must be very quickly recognizable and operated if needed.

## 4 Product description and type designation

The Videotec WASPT is a wash kit consisting of a water tank with an integrated pump for PTZ cameras and camera housings equipped with wiper.

This wide range of wash kits comes in capacities from 5 to 23 litres and delivery heads of up to 30 metres.

The optional DTWRX card enables remote control (via RS-485) of the wiper and the washer pump if used with a stand-alone housing.

The versions with 11m and 30m delivery head have a level switch for automatic stoppage of the pump.

The 30m (98ft) delivery head versions are only available in 230Vac or 120Vac.

Using the anti-freeze liquid, the minimum operating temperature (versions with 5m (16ft) and 11m (36ft) delivery heads) can reach as low as -25°C (-13°F).

### 4.1 Product marking label

See the label attached to the product.

## 5 Preparing the product for use



**Any change that is not expressly approved by the manufacturer will invalidate the warranty.**

### 5.1 Unpacking

When the product is delivered, make sure that the package is intact and that there are no signs that it has been dropped or scratched.

If there are obvious signs of damage, contact the supplier immediately.

When returning a faulty product we recommend using the original packaging for shipping.

Keep the packaging in case you need to send the product for repairs.

### 5.2 Contents

Check the contents to make sure they correspond with the list of materials as below:

- Glass wash system
- Cable ties
- Silicone sheath
- Hydraulic joints
- Supports for the supply tube
- Locking bracket of the delivery pipe
- Delivery pipe
- Washer semi-rigid pipe (with nozzle)
- Bolts and screws
- Instruction manual

### 5.3 Opening of the 30m delivery head pump casing

The side casing must be dismantled for any removal or replacement operation of the tank. Unscrew the 4 screws and remove the casing.

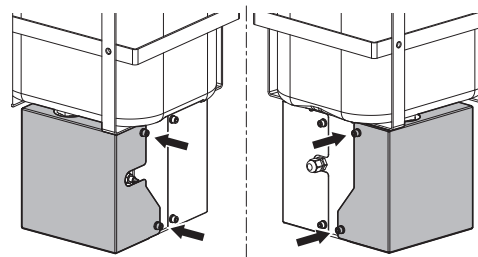


Fig. 1

### 5.4 Safely disposing of packaging material

The packaging material can all be recycled. The installer technician will be responsible for separating the material for disposal, and in any case for compliance with the legislation in force where the device is to be used.

## 6 Installation

**⚠** Install the pump with 30m (98ft) pressure head in places protected from heavy rain.

**⚠** The device should be assembled vertically. Any other position could impair the performance of the device.

### 6.1 Fastening of the metal cage

**⚠** Take special care when attaching and fastening down the apparatus. If it is to be attached to a concrete surface you must use dowel pins with a traction torque rating of at least 0.4kN each. You are advised to use screws with a 6mm diameter and at least 50mm long. If the surface is metal, use M8 class A4-70 screws and with such a length to guarantee at least 6 rotations of the held thread. The fastening system must be capable of supporting at least 4 times the weight of the entire equipment, including the tank completely full of water.

**i** For the version with 5 litre tank only, fastening is possible on a pole using the specific accessories.

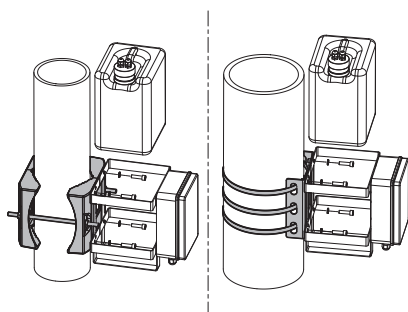


Fig. 2

Take the plug out of the tank, along with any pumps and level gauges. Remove the tank from the metal cage.

Attach the metal cage (01) firmly to a wall using the holes provided for this (02).

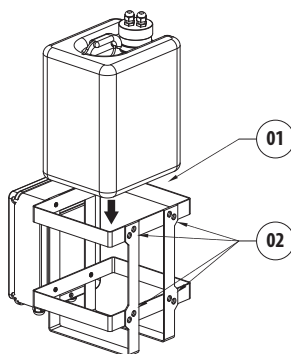


Fig. 3 Water tank 5l (1.3gal), 5m (16ft) delivery.

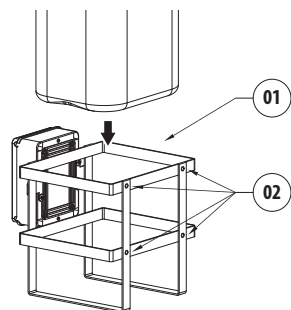


Fig. 4 Water tank 23l (6gal), 5m (16ft) or 11m (36ft) delivery.

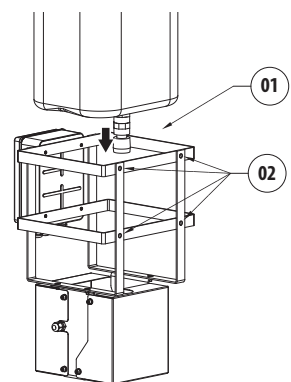


Fig. 5 Water tank 23l (6gal), 30m (98ft) delivery.

## 6.2 Choosing the power supply

Depending on the version, the device can be provided with different power supply voltages. Their value is shown on the product identification label.

**⚠ Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.**

**⚠ When commencing installation make sure that the specifications for the power supply for the installation correspond with those required by the device.**

**⚠ Check that the power supply socket and cable are adequately dimensioned.**

**⚠ Use a power cable that is suitable for outdoor use (example: H05RH-F).**

## 6.3 Open the box

Open the cover of the water-proof box and connect as described below.

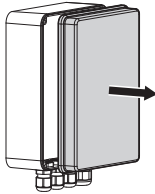


Fig. 6

## 6.4 Board description

BOARD DESCRIPTION	
Connector	Function
J1	Power supply for the board
J7	Wiper
J8	Optional board (DTWRX)
J9	I/O management and pump functions
FUS1	Power supply selection fuse (230Vac)
FUS2	Power supply selection fuse (120Vac)
FUS3	Power supply selection fuse (24Vac)

Tab. 1

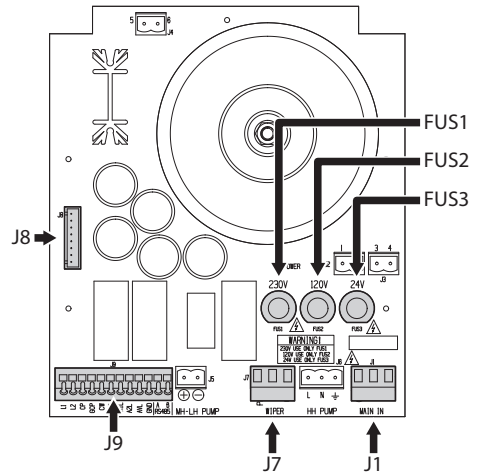


Fig. 7



## 6.5 Connection of the board

 **Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.**

### 6.5.1 Installing the fuse

#### 6.5.1.1 Pump with 5m (16ft) or 11m (36ft) delivery


 **Depending on the power supply voltage choose the right fuse holder.**


The board is supplied with the fuse in the following position: FUS1, 230Vac (6.4 Board description, page 8).

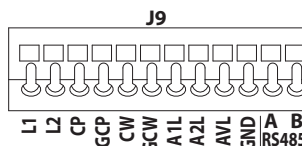
#### 6.5.1.2 Pump with 30m (98ft) delivery

Depending on the type of power supply, the board is supplied with the fuse in the correct position: FUS1, 230Vac or FUS2, 120Vac (6.4 Board description, page 8).

### 6.5.2 Connection of the PTZ camera or stand-alone housing

 **All the connections of terminal J9 must have very low safety voltage (sources of electrical energy class 1 (ES1)).**


 **The AVL, GND, A1L and A2L contacts can only be used in pump models equipped with floats. If active, the AVL alarm supplies an output voltage between 12Vdc and 20Vdc.  
Contacts rated current: 4A max.**



**Fig. 8**

Connect the PTZ camera or the stand-alone housing to the terminal contacts (J9, 6.4 Board description, page 8).

For connection, use the table outlined below as a reference.

 **Nominal section of the cables used: from 0.5mm<sup>2</sup> (20AWG) up to 1.5mm<sup>2</sup> (15AWG).**

DESCRIPTION OF CONTACTS										
Contact	Description	ULISSE	ULISSE NETCAM/ULISSE RADICAL	ULISSE2	ULISSE COMPACT	ULISSE COMPACT DELUX	ULISSE EVO	NVX	NXPTZ/NXPTZT	NXPTZ DELUX/NXPTZ SERIES2/NXPTZR SERIES2/NXPTZT SERIES2
L1	Level switch	Do not use								
L2										
CP	Pump activation (dry contact)	O1	O1	RL2A	R2A	R1A	RL2A	CONN 1, (pin 1)	Cable: Green-Brown	Cable: Green-Brown
GCP	GND pump activation (dry contact)	C1	C1	RL2B	R2B	R1B	RL2B	CONN 1, (pin 2)	Cable: Green-White	Cable: Green-White
CW	Wiper activation (dry contact)	Refer to chapter: 6.5.5 Wiper manual activation								
GCW	GND wiper activation (dry contact)									
A1L	Liquid level alarm output (dry contact)	-	Alarm x <sup>1</sup>	ALx <sup>1</sup>	-	A	AL1	-	-	Cable: Brown
A2L	Liquid level alarm output (dry contact)	-	ALARMS	COM	-	G	COM	-	-	Cable: Green
AVL	Liquid level alarm output (controlled when powered)	ALx <sup>1</sup>	-	-	W	-	-	-	Cable: Black	-
GND	GND liquid level alarm output (controlled when powered)	COM/AGND	-	-	G	-	-	-	Cable: Green	-
RS485-A	Connect the serial line RS-485-A (+) coming from the control system	Refer to chapter: 6.5.6 Remote control with DTWRX optional board								
RS485-B	Connect the serial line RS-485-B (-) coming from the control system									

<sup>1</sup> Any one of the alarm inputs available.

**Tab. 2**

### 6.5.3 Pump manual activation

**i** If the PTZ camera is used combined with the wash system, ignore the instructions below and follow those in the relevant manual.

**i** Use cables with the characteristics outlined below.

- **Minimum section: 0.5mm<sup>2</sup> (20AWG).**
- **Maximum length: 1000m.**

Manual activation of the pump takes place by short-circuiting the (by closing a button, relay, etc.) CP and GCP dry contacts. Manual stoppage of the pump takes place by opening the CP and GCP dry contacts. Refer to the terminal contacts (J9, Fig. 8, page 9).

### 6.5.4 Wiper connection

**⚠** The voltage supplied to the J7 (WIPER) terminal is equal to that applied to the power supply terminal of the washer pump. Use a wiper having electric characteristics that are suitable for the power supply voltage.  
**Contacts rated current: 6A max.**

**i** If the PTZ camera has a wiper, ignore the instructions below and follow those in the relevant manual.

Connect the wiper to the connector (J7, 6.4 Board description, page 8).

Respect the order of the contacts PERM, SW and COM (refer to the wiper manual).

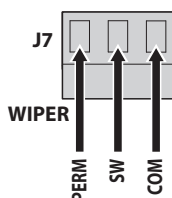


Fig. 9

**i** Nominal section of the cables used: from 0.2mm<sup>2</sup> (24AWG) up to 2.5mm<sup>2</sup> (13AWG).

### 6.5.5 Wiper manual activation

**i** If the PTZ camera has a wiper, ignore the instructions below and follow those in the relevant manual.

**i** Use cables with the characteristics outlined below.

- **Minimum section: 0.5mm<sup>2</sup> (20AWG).**
- **Maximum length: 1000m.**

Manual activation of the wiper takes place by short-circuiting the (by closing a button, relay, etc.) CW and GCW dry contacts. Manual stoppage of the wiper takes place by opening the CW and GCW dry contacts.

Refer to the terminal contacts (J9, Fig. 8, page 9).

### 6.5.6 Remote control with DTWRX optional board

**i** If the PTZ camera is used combined with the wash system, ignore the instructions below and follow those in the relevant manual.

The optional DTWRX card enables remote activation of the wiper and the pump via RS-485.

Insert the board in the connector (J8, 6.4 Board description, page 8). Refer to the terminal contacts (J9, Fig. 8, page 9).

The possible configurations of the optional card and the control system are described in the respective manuals.

## 6.5.7 Connecting the power supply

**!** Earth cable should be about 10mm longer than the other two, so that it will not be disconnected accidentally if pulled.

**!** The power supply cable must be covered by the silicone sheath (01) supplied. The silicone sheath must be fastened with the corresponding cable tie (02).

**!** All the conductors relating to the MAIN-IN, HH-PUMP and WIPER terminals must be separated from the other safety very low voltage circuits (ES1 circuits). The disconnection of a wire must not compromise the protection against electric shocks.

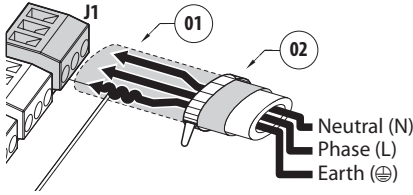


Fig. 10

Connect the power supply terminal (J1, 6.4 Board description, page 8). Connection must be carried out using a cable of adequate section.

**i** Nominal section of the cables used: from 0.2mm<sup>2</sup> (24AWG) up to 2.5mm<sup>2</sup> (13AWG).

## 6.6 Pump installation

**!** Be very careful not to start the pump when the tank is empty.

**!** We recommend filling the tank with water at ambient temperature. If using the pump at temperatures below 3°C (37.4°F) add some glass cleaner antifreeze liquid to the water.

**!** The antifreeze liquid will cause irreparable damage to the germanium windows. In this case, do not use anti-freeze liquid, but add ethanol in a 20% solution.

**i** If present, the level switch enables automatic stoppage of the pump.

### 6.6.1 Adjustment of the level switch position

In the equipped versions, the position of the level switch (01) and the counterweight (02) must be adjusted.

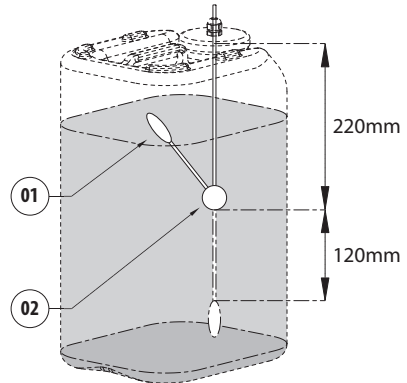


Fig. 11

**i** The overall length of the level switch cable inserted in the tank must be approx. 340mm.

### 6.6.2 Pump with 5m (16ft) delivery

Fill the tank with water and insert it in the metal cage.

Insert the pump in the tank and close the cap.

The system is ready to be powered.

### 6.6.3 Pump with 11m (36ft) delivery

Adjust the level switch (6.6.1 Adjustment of the level switch position, page 12).

Fill the tank with water and insert it in the metal cage.

Insert the pump and the level switch in the tank and close the cap.

The system is ready to be powered.

### 6.6.4 Pump with 30m (98ft) delivery

**⚠ Avoid contact with the delivery hose coupling of the pump. Hot surfaces may cause personal injury if touched.**

Adjust the level switch (6.6.1 Adjustment of the level switch position, page 12).

Fill the tank with water and insert it in the metal cage.

Ensure that the male/female hydraulic joint (01) is inserted correctly. Insert the level switch in the tank and close the cap. Check the delivery hose coupling of the pump (02) to make sure a small quantity of water comes out.

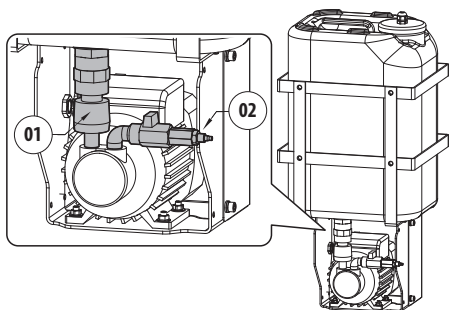


Fig. 12

Unscrew the knurled nut (01) from the delivery joint (02). Insert the knurled nut on the delivery pipe (03). Insert the end of the delivery pipe into the spinner (04). Lock the nut to the coupling.

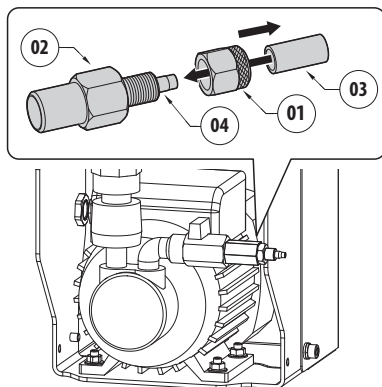


Fig. 13

At the end of the installation operations, re-assemble the casing working in the reserve order (5.3 Opening of the 30m delivery head pump casing, page 6).

**⚠ Pay attention to the fixing. Tightening torque: 7Nm.**

The system is ready to be powered.

## 6.7 Washer installation (ULISSE range)



To fasten the base to the support, use the screws (05), the washers (06), the gaskets for screws (07) and the gasket (08).



Installation examples (6.13 Examples of washer installation, page 20).

Having fastened the support (01), arrange the washer pipe support (supplied with the PTZ camera) (03) in the desired position.

Insert the cables inside the support so that they protrude by about 50cm. Insert the cable in the cable glands (02). Keeping the base (04) at about 20cm (7.9in) from the support, lock the cable glands (02).

Fasten the base on the support using the screws supplied with the PTZ camera (05).

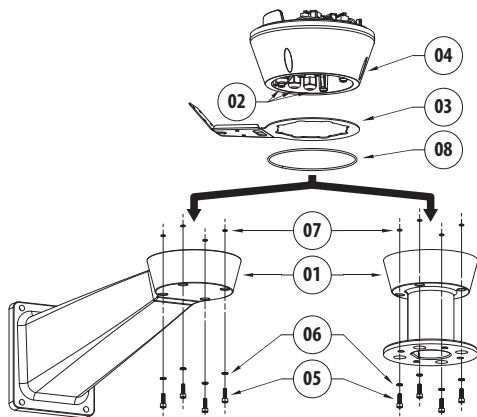


Fig. 14

Cut the cables to size and either restore or make the connections to the positioning unit.

Shorten the semi-rigid washer pipe (01) as needed. Unscrew the nut (02) from the joint and slide it along the pipe. Insert the end of the pipe into the ogive (03).

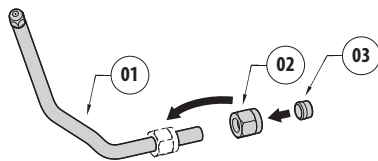


Fig. 15

Lock the nut to the coupling.

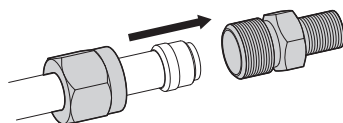


Fig. 16

Tighten the delivery joint.

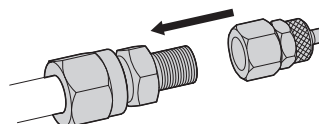


Fig. 17

Unscrew the knurled nut (01) from the delivery joint (02). Insert the knurled nut on the delivery pipe (03). Insert the end of the delivery pipe into the spinner (04). Lock the nut to the coupling.

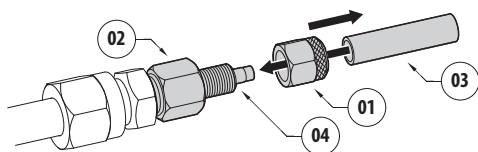
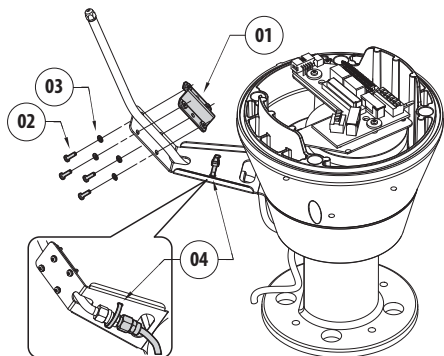


Fig. 18

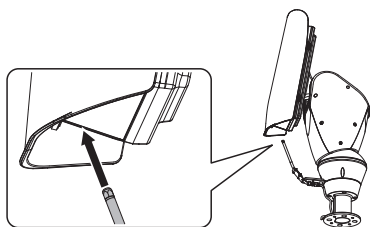
Fasten the pipe to the washer support using the bracket (01), the screws (02) and the washers (03) supplied with the PTZ camera.

Block the joint using the clip (04) supplied with the PTZ camera.



**Fig. 19**

To calibrate the jet, orientate the nozzle towards the window of the housing.



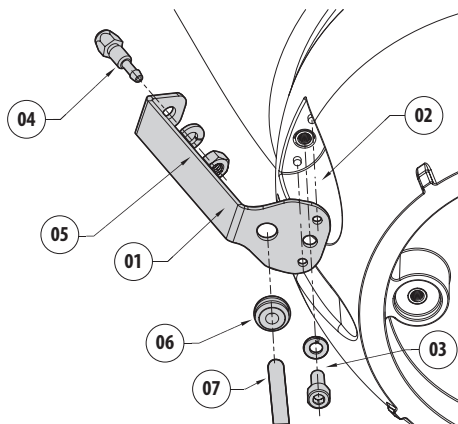
**Fig. 20**

To start the wash system refer to the PTZ camera manual.

## 6.8 Washer installation (ULISSE2)

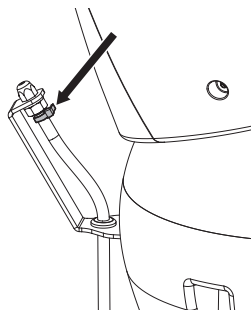
### **i** Installation examples (6.13 Examples of washer installation, page 20).

Position the nozzle support bracket (01) in the appropriate groove (02) on the base and lock it using the screws and washers (03). Dismantle the nozzle (04) from the semi-rigid pipe on the washer supplied. Position the nozzle and lock it using washer and nut (05). Install the gasket (06) on the bottom hole on the bracket. Pass the delivery pipe (07) through the gasket and connect it to the nozzle.



**Fig. 21**

Secure the delivery pipe using the provided cable tie.



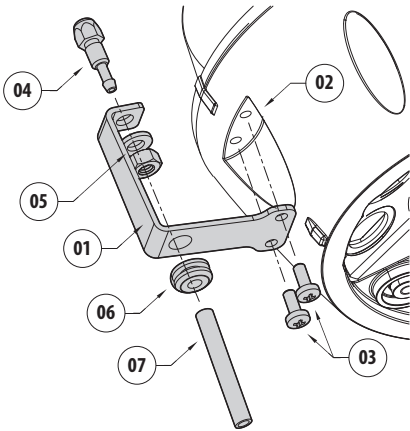
**Fig. 22** Final washing position.

To start the wash system refer to the PTZ camera manual.

## 6.9 Washer installation (ULISSE COMPACT range)

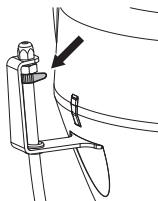
**i** Installation examples (6.13 Examples of washer installation, page 20).

Position the nozzle support bracket (01) in the appropriate groove (02) on the base and lock it using the 2 screws (03). Dismantle the nozzle (04) from the semi-rigid pipe on the washer supplied. Position the nozzle and lock it using washer and nut (05). Install the gasket (06) on the bottom hole on the bracket. Pass the delivery pipe (07) through the gasket and connect it to the nozzle.



**Fig. 23**

Secure the delivery pipe using the provided cable tie.



**Fig. 24** Final washing position.

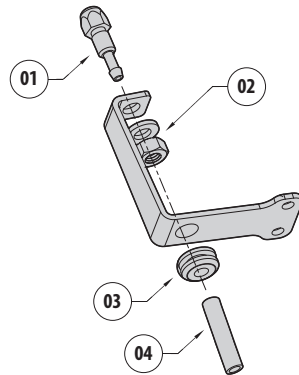
To start the wash system refer to the PTZ camera manual.

## 6.10 Washer installation (ULISSE EVO range)

**i** Installation examples (6.13 Examples of washer installation, page 20).

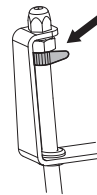
### 6.10.1 Washer installation on the PTZ camera

Remove the nozzle (01) from the semi-rigid pipe on the washer supplied. Position the nozzle in the bracket and fasten it with the washer and the nut (02). Assemble the gasket (03) on the lower part of the bracket. Pass the delivery pipe (04) through the gasket and connect it to the nozzle.



**Fig. 25**

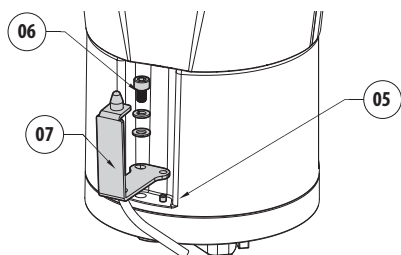
Fasten the delivery pipe to the nozzle using the clip supplied.



**Fig. 26**



Identify the groove with the positioning pin (05) for fastening the bracket of the nozzle (07). Remove the fastening screw (06). Position the bracket of the nozzle (07) using the positioning pin (05) and fasten it with the previously removed screw (06). Refer to the PTZ camera manual for the tightening torque of the screw.

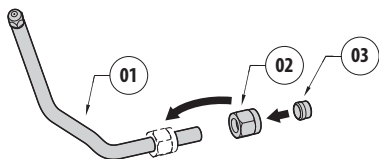


**Fig. 27**

To start the wash system refer to the PTZ camera manual.

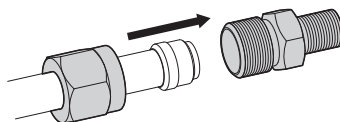
### 6.10.2 Washer installation on the overturned PTZ camera

Shorten the semi-rigid washer pipe (01) as needed. Unscrew the nut (02) from the joint and slide it along the pipe. Insert the end of the pipe into the ogive (03).



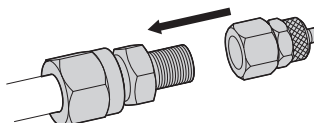
**Fig. 28**

Lock the nut to the coupling.



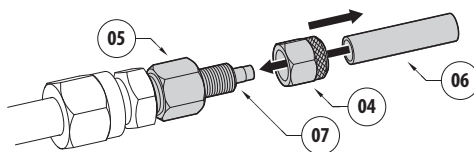
**Fig. 29**

Tighten the delivery joint.



**Fig. 30**

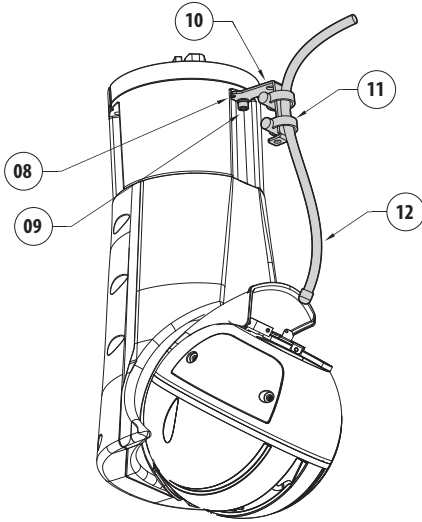
Unscrew the knurled nut (04) from the delivery joint (05). Insert the knurled nut on the delivery pipe (06). Insert the end of the delivery pipe into the spinner (07). Lock the nut to the coupling.



**Fig. 31**

Identify the groove with the positioning pin (08) for fastening the bracket of the nozzle (10). Remove the fastening screw (09). Position the bracket of the nozzle (10) using the positioning pin (08) and fasten it with the previously removed screw (09). Refer to the PTZ camera manual for the tightening torque of the screw.

Insert two metal clips (11) in the bracket (10), insert the semi-rigid pipe (12) between the clips and tighten the screws of the two clips.



**Fig. 32**

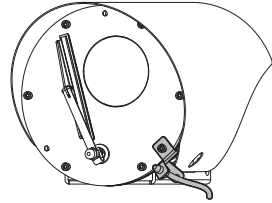
To calibrate the jet, orientate the nozzle towards the window of the PTZ camera.

To start the wash system refer to the PTZ camera manual.

## 6.11 Washer installation (NVX range)

### **i** Installation examples (6.13 Examples of washer installation, page 20).

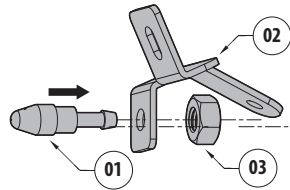
The product, if equipped with a wiper, can be equipped with an external pump that provides water to clean the glass.



**Fig. 33**

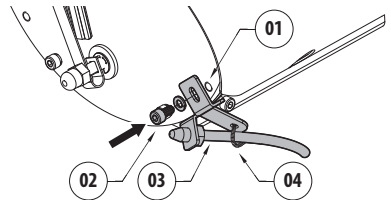
To complete installation of the washing system, use the kit supplied with the camera.

Insert the head of the nozzle (01) on the support (02) by tightening the nut (03).



**Fig. 34**

Fasten the nozzle and the support assembled by using one of the accessory holes (01) on the front of the housing. Tighten the screw and the washer (02). Insert the delivery pipe of the nozzle (03). Secure the delivery pipe to the support with a clip (04).



**Fig. 35**

To start the wash system refer to the camera manual.

## 6.12 Washer installation (NXPTZ SERIES2 range)

### **i** Installation examples (6.13 Examples of washer installation, page 20).

Fasten the support (01) onto the body of the PTZ with the metal clip (02) supplied with the PTZ camera.

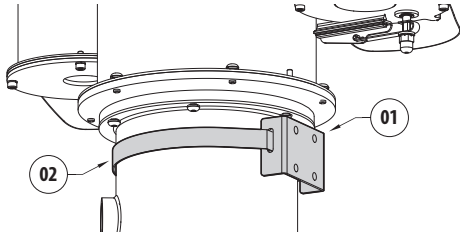


Fig. 36

Shorten the semi-rigid washer pipe (01) as needed. Unscrew the nut (02) from the joint and slide it along the pipe. Insert the end of the pipe into the ogive (03).

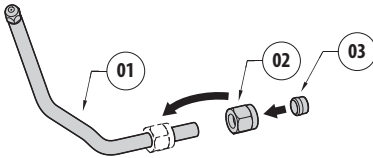


Fig. 37

Lock the nut to the coupling.

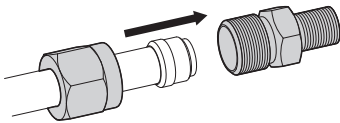


Fig. 38

Tighten the delivery joint.

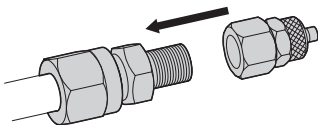


Fig. 39

Unscrew the knurled nut (01) from the delivery joint (02). Insert the knurled nut on the delivery pipe (03). Insert the end of the delivery pipe into the spinner (04). Lock the nut to the coupling.

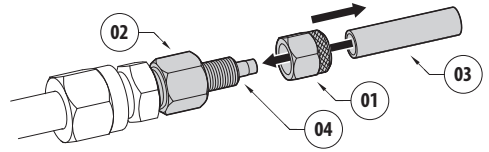


Fig. 40

Fasten the semi-rigid pipe (01) to the washer support using the plate (02), the screws (03) and the washers (04) supplied with the PTZ camera.

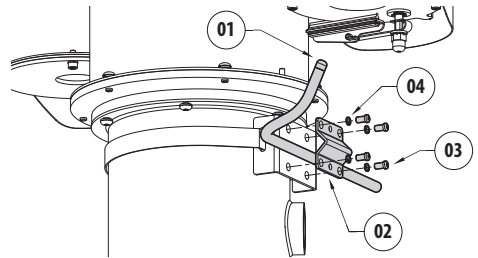


Fig. 41

To calibrate the jet, orientate the nozzle towards the window of the PTZ camera.

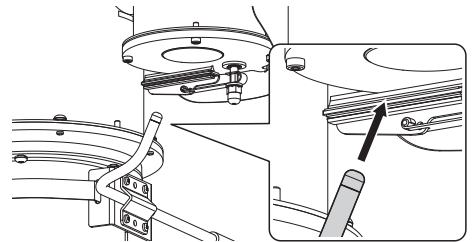
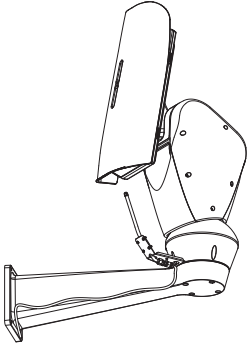


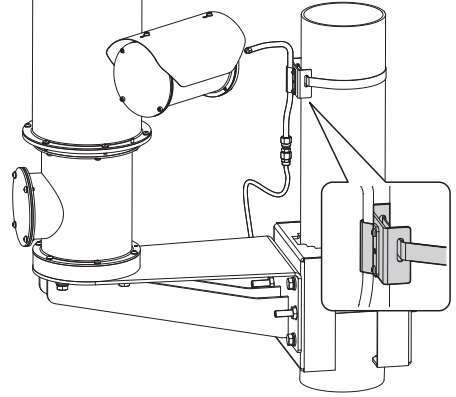
Fig. 42

To start the wash system refer to the PTZ camera manual.

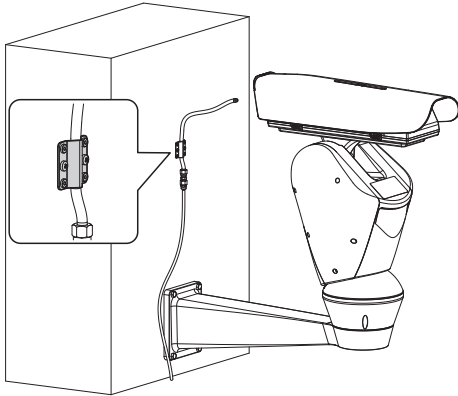
## 6.13 Examples of washer installation



**Fig. 43** Example of washer installation on the PTZ camera.



**Fig. 45** Example of washer installation on pole.



**Fig. 44** Example of washer installation on wall.

## 7 Maintenance

**⚠ CAUTION! Device installation and maintaining must be performed by specialist technical staff only.**

### 7.1 Extraordinary maintenance (to be done only under particular circumstances)

#### 7.1.1 Fuses replacement

**⚠ Maintenance must be performed with the power supply disconnected and the circuit-breaker open.**

**i Check the causes that caused the fuse breakage. In the event the problem occurs again, contact the technical assistance service.**

##### 7.1.1.1 Replacing the fuse of the pump board

If necessary, the board's fuse can be replaced (6.5.1 Installing the fuse, page 9). The new fuse must comply with the directions given in the table.

FUSE REPLACEMENT		
Model Number	Alternative 1	Alternative 2
T 4A H 250V 5x20	BUSSMANN S505-4-R	OMEGA GT520240

Tab. 3

As an alternative, use an approved fuse featuring the same characteristics.

##### 7.1.1.2 Replacing the fuse on the pump inlet

**⚠ The operation is performed only for a pump with a 5m or 11m delivery head.**

Once the box is open identify the fuse position.

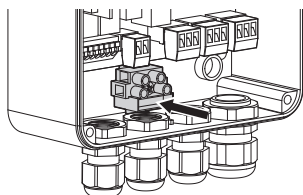


Fig. 46

If necessary, the pump input fuse can be replaced. The new fuse must comply with the directions given in the table.

FUSE REPLACEMENT		
Model Number	Alternative 1	Alternative 2
<b>Pump with 5m (16ft) delivery</b>		
T 2A L 250V 5x20	BUSSMANN S506-2-R	OMEGA ST522220
<b>Pump with 11m (36ft) delivery</b>		
T 4A L 250V 5x20	BUSSMANN S506-4-R	OMEGA ST522240

Tab. 4

As an alternative, use an approved fuse featuring the same characteristics.

## 8 Information on disposal and recycling

The European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) mandates that these devices should not be disposed of in the normal flow of municipal solid waste, but they should be collected separately in order to optimize the recovery stream and recycling of the materials that they contain and to reduce the impact on human health and the environment due to the presence of potentially hazardous substances.



**The symbol of the crossed out bin is marked on all products to remember this.**

The waste may be delivered to appropriate collection centers, or may be delivered free of charge to the distributor where you purchased the equipment at the time of purchase of a new equivalent or without obligation to a new purchase for equipment with size smaller than 25cm (9.8in).

For more information on proper disposal of these devices, you can contact the responsible public service.

## 9 Technical data



The product has been designed to work intermittently.

1 minute: ON. 15 minutes: OFF.

### 9.1 Washer kit, tank of 5l (1.3gal), pump with 5m (16ft) delivery head

#### 9.1.1 Mechanical

Polyethylene tank, stainless steel cage

Dimensions (WxHxL): 217x280x257mm (8.5x11x10.1in)

Cable glands: 1xM20 + 3xM16

Unit weight: 3.8kg (8.4lb)

Water tank capacity: 5l (1.3gal)

#### 9.1.2 Electrical

Supply voltage/Current consumption:

- 230Vac, 0.3A, 50/60Hz
- 120Vac, 0.6A, 50/60Hz
- 24Vac, 1.8A, 50/60Hz

#### 9.1.3 Environment

Operating temperature

- Maximum temperature: 60°C (140°F)
- Minimum temperature with antifreeze liquid in solution: -10°C (14°F)
- Minimum temperature with antifreeze liquid in solution (reduced performance and delivery height): -25°C (-13°F)

#### 9.1.4 Certifications

Electrical safety (CE): EN60950-1, EN62368-1

Electromagnetic compatibility (CE): EN50130-4, EN61000-6-3, EN55032 (Class B), FCC Part 15 (Class B)

Outdoor installation (CE): EN60950-22

IP protection degree (EN60529):

- IP66

EAC certification

### 9.2 Washer kit, tank of 23l (6gal), pump with 5m (16ft) delivery head

#### 9.2.1 Mechanical

Polyethylene tank, stainless steel cage

Dimensions (WxHxL): 301x430x348mm (11.8x16.9x13.7in)

Cable glands: 1xM20 + 3xM16

Unit weight: 5.5kg (12.1lb)

Water tank capacity: 23l (6gal)

#### 9.2.2 Electrical

Supply voltage/Current consumption:

- 230Vac, 0.3A, 50/60Hz
- 120Vac, 0.6A, 50/60Hz
- 24Vac, 1.8A, 50/60Hz

#### 9.2.3 Environment

Operating temperature

- Maximum temperature: 60°C (140°F)
- Minimum temperature with antifreeze liquid in solution: -10°C (14°F)
- Minimum temperature with antifreeze liquid in solution (reduced performance and delivery height): -25°C (-13°F)

#### 9.2.4 Certifications

Electrical safety (CE): EN60950-1, EN62368-1

Electromagnetic compatibility (CE): EN50130-4, EN61000-6-3, EN55032 (Class B), FCC Part 15 (Class B)

Outdoor installation (CE): EN60950-22

IP protection degree (EN60529):

- IP66

EAC certification

## 9.3 Washer kit, tank of 23l (6gal), pump with 11m (36ft) delivery head

### 9.3.1 Mechanical

Polyethylene tank, stainless steel cage

Dimensions (WxHxL): 301x430x348mm (11.8x16.9x13.7in)

Cable glands: 1xM20 + 3xM16

Unit weight: 6.7kg (14.8lb)

Water tank capacity: 23l (6gal)

Float level switch

### 9.3.2 Electrical

Supply voltage/Current consumption:

- 230Vac, 0.5A, 50/60Hz
- 120Vac, 1A, 50/60Hz
- 24Vac, 3.8A, 50/60Hz

Alarm outputs:

- Auto-powered: 1
- Dry contact: 1

### 9.3.3 Environment

Operating temperature

- Maximum temperature: 60°C (140°F)
- Minimum temperature with antifreeze liquid in solution: -10°C (14°F)
- Minimum temperature with antifreeze liquid in solution (reduced performance and delivery height): -25°C (-13°F)

### 9.3.4 Certifications

Electrical safety (CE): EN60950-1, EN62368-1

Electromagnetic compatibility (CE): EN50130-4, EN61000-6-3, EN55032, (Class B), FCC Part 15 (Class B)

Outdoor installation (CE): EN60950-22

IP protection degree (EN60529):

- IP66

EAC certification

### 9.3.5 Certifications - Marine applications

Marine Certification: Lloyd's Register Marine Type Approval (only for the 11m (36ft) version in the WASPT series)

## 9.4 Washer kit, tank of 23l (6gal), pump with 30m (98ft) delivery head

### 9.4.1 Mechanical

Polyethylene tank, stainless steel cage

Dimensions (WxHxL): 301x640x348mm (11.9x25.2x13.7in)

Cable glands: 1xM20 + 3xM16

Unit weight: 16.7kg (36.8lb)

Water tank capacity: 23l (6gal)

Float level switch

### 9.4.2 Electrical

Supply voltage/Current consumption:

- 230Vac, 2A, 50/60Hz
- 120Vac, 4.5A, 60Hz

Alarm outputs:

- Auto-powered: 1
- Dry contact: 1

### 9.4.3 Environment

Operating temperature

- Maximum temperature: 60°C (140°F)
- Minimum temperature with antifreeze liquid in solution: -10°C (14°F)

### 9.4.4 Certifications

Electrical safety (CE): EN60950-1, EN62368-1

Electromagnetic compatibility (CE): EN50130-4, EN61000-6-3, EN55032, (Class B), FCC Part 15 (Class B)

Outdoor installation (CE): EN60950-22

IP protection degree (EN60529):

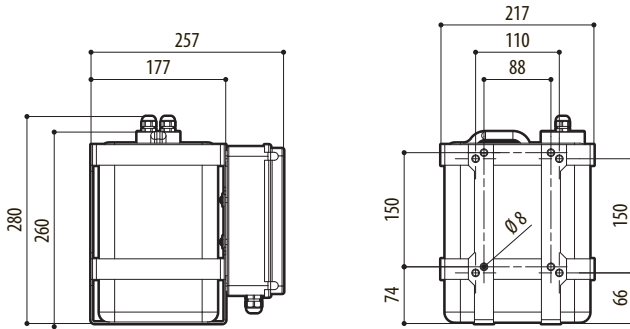
- IPX4

EAC certification

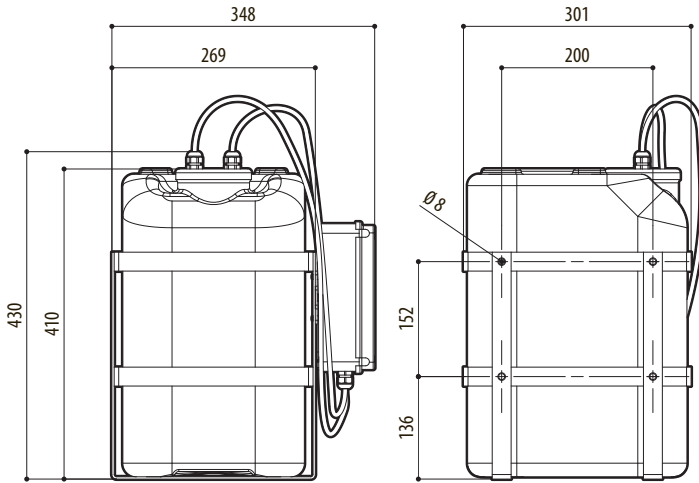
# 10 Technical drawings



The indicated measurements are expressed in millimetres.

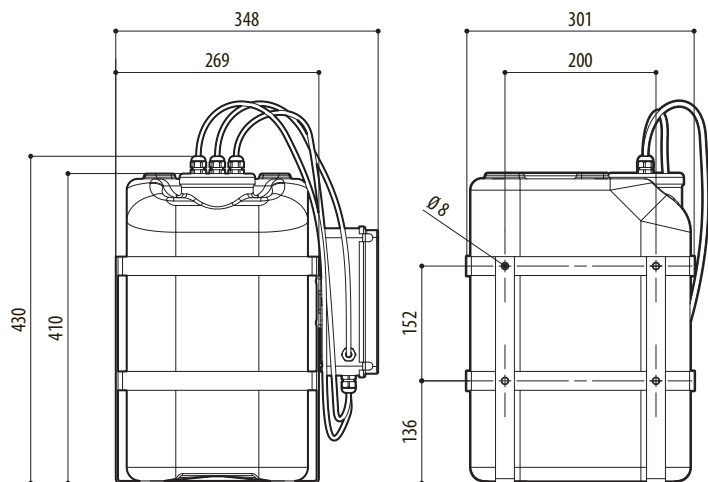


**Fig. 47** Water tank 5l (1.3gal), 5m (16ft) delivery.

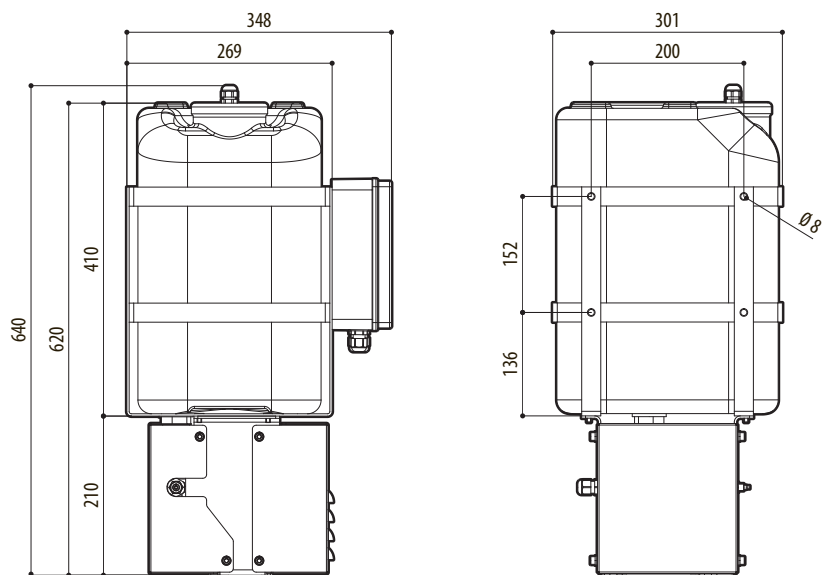


**Fig. 48** Water tank 23l (6gal), 5m (16ft) delivery.





**Fig. 49** Water tank 23l (6gal), 11m (36ft) delivery.



**Fig. 50** Water tank 23l (6gal), 30m (98ft) delivery.



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