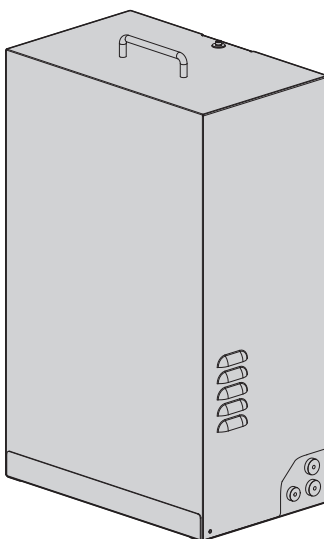




WASEX

Explosion-proof washing system



1 About this manual 5
1.1 Typographical conventions..... 5

2 Notes on copyright and information on trademarks..... 5

3 Safety rules 5

4 Product description and type designation 8
4.1 Product overview 8
4.2 Product marking label..... 9
4.3 Model identification 9

5 Preparing the product for use.....11
5.1 Unpacking..... 11
5.2 Contents..... 11
5.3 Safely disposing of packaging material 11

6 Installation 11
6.1 Product opening 11
6.2 Frame perforation 12
6.2.1 Assembly of the seal rings 12
6.3 Installation options 12
6.3.1 Wall or floor fastening.....12
6.3.2 Fixing using a pole adapter module or an angle adapter module 13
6.4 Delivery pipe connection 13
6.5 Ground connection.....14
6.5.1 Earthing equipotential connection 14
6.6 Connection of the solenoid valve.....14
6.7 Pressure switch connection 14
6.8 Connection to PTZ (ExSite Enhanced 2 Series PTZ, ExSite Pro PTZ Series) 14
6.8.1 Connection of the solenoid valve to the PTZ (ExSite Enhanced 2 Series PTZ, ExSite Pro PTZ Series).
15
6.8.1.1 Integrated power supply connection 15
6.8.1.2 External power supply connection 15
6.8.2 Connection of the pressure switch to the PTZ (ExSite Enhanced 2 Series PTZ, ExSite Pro PTZ
Series).....15
6.9 Connection to the camera (ExSite Enhanced 2 Series Fixed) 16
6.9.1 Connection of the solenoid valve to the camera (ExSite Enhanced 2 Series Fixed) 16
6.9.2 Connection of the pressure switch to the camera (ExSite Enhanced 2 Series Fixed) 16
6.10 Connection to the housing (MHX) 17
6.10.1 Connection of the solenoid valve to the housing (MHX) 17
6.10.2 Connection of the pressure switch to the housing (MHX) 17
6.11 Filling the tank.....18
6.11.1 Pressurise the tank using the manual pump.....18
6.11.2 Pressurise the tank using the compressed air valve 18
6.11.3 Product closure.....19
6.12 Washer installation (ExSite Enhanced 2 Series PTZ).....19
6.12.1 Installation options.....20

6.13 Washer installation (ExSite Enhanced 2 Series Fixed).....	21
6.14 Washer installation (MHX).....	22
7 Maintenance	23
7.1 Routine maintenance.....	23
7.1.1 Filling the tank	23
7.1.2 Inspecting the cables	23
8 Cleaning.....	23
8.1 Routine cleaning	23
9 Information on disposal and recycling.....	23
10 Technical drawings.....	24

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!

Explosion hazard.

Read carefully to avoid danger of explosion.



DANGER!

High level hazard.

Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.



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



DANGER!

Explosion hazard.

Read carefully to avoid danger of explosion.

- Installation and maintenance of the appliance must be carried out by specialist technical staff in compliance with the applicable reference standard EN/IEC 60079-14, EN/IEC 60079-17 and national standards.
- Do not open the device when powered and in explosive atmosphere.
- Use appropriate tools for the installation. The particular nature of the site where the device is to be installed may mean special tools are required for installation.
- Make all connections, installation and maintenance work in a non-explosive atmosphere.
- The equipotential connection is mandatory to avoid the risk of ignition of products installed in potentially explosive environments.
- Before powering the product in an explosive atmosphere, ensure the cover of each component is closed correctly.
- Make sure that all the equipment are certified for the application and for the environment in which they will be installed.
- Any change that is not expressly approved by the manufacturer will invalidate the warranty.



Risk of explosion due to electrostatic discharge.

- The product is intended for fixed installation and the user shall not frequently touch the product in service (other than maintenance).
- Take suitable measures to ensure that no electrostatic discharges can build up in the classified area.
- The device should be cleaned using a damp cloth; compressed air must not be used.
- Make sure that all personnel and equipment are correctly grounded.
- Install only when the environmental relative humidity is over the 30% (stable, ever or for long time) or in ambient with humidity control system.
- Do not install in a location where the electrostatic charge can increase without technical solutions able to avoid electrostatic charge allowed in IEC/TS 60079-32-1, TR 60079-32-1 and/or in IEC 60079-14 standards. Example:
 - Locations near ventilation systems.
 - Locations where there is a risk of an increase in electrostatic charge caused by compressed air and dust.
 - Locations in highly charge generating processes such as highly charge generating processes, mechanical friction and separation processes of dust, pneumatic powder conveying flow, liquid droplet spraying or charge spraying application.



DANGER!

High level hazard.

Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.

- Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.
- A power disconnect device must be included in the electrical installation, and it must be very quickly recognizable and operated if needed.
- The device can only be considered to be switched off when the power supply has been disconnected and the connection cables to other devices have been removed.
- Be careful not to use cables that seem worn or old.
- All the cables must comply with IEC60332-1-2, IEC 60332-1-3 and IEC/EN60079-14.
- This equipment is not suitable for use in locations where children are likely to be present.

**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.

- Ensure the installation meets local specifications.
 - Make connections and tests in the laboratory before carrying out installation on site. Use appropriate tools for the purpose.
 - Check that the power supply socket and cable are adequately dimensioned.
 - Use suitable cables that can withstand the operating temperatures.
 - All disconnected cables must be electrically isolated.
 - Make sure the product is secured to building before operation.
 - The manufacturer declines all liability for damage to any of the apparatus mentioned in this handbook, when resulting from tampering, use of non-original spare parts, installation, maintenance and repairs performed by non-authorized, non-skilled personnel.
 - For damage to any parts, repair or replacement must be done by, or under supervision of Pelco.
 - This product must only be repaired by suitably trained personnel or under the supervision of Pelco personnel in accordance with the foreseen terms and conditions: IEC/EN60079-19.
 - Only use original Pelco spare parts. Strictly adhere to the maintenance instructions attached to each replacement kit.
 - For technical services, consult only and exclusively authorized technicians.
 - We strongly recommend using only approved brackets and accessories during installation.
- Given the considerable weight of the system, use an appropriate transport and handling system. The staff must carry out the handling of the product in compliance with the common accident prevention standards.
 - Before proceeding with installation, check the supplied material to make sure it corresponds to the order specification by examining the identification labels.
 - The equipment is intended for installation in a Restricted Access Area by specialist technical staff.
 - 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.
 - Since the user is responsible for choosing the surface to which the unit is to be anchored, we do not supply the fixing devices for attaching the unit firmly to the particular surface. The installer is responsible for choosing fixing devices suitable for the specific purpose on hand. Use methods and materials capable of supporting at least 4 times the weight of the device.

4 Product description and type designation

The WASEX washer pump is an important element for effective video surveillance in hazardous areas because it guarantees sharp images in all environmental conditions and reduces the need for maintenance.

The kit is composed of a 10-litre stainless steel tank with an explosion-proof certified solenoid valve and some versions of the product also have an explosion-proof certified pressure switch.

The WASEX version with pressure switch has a clean contact that switches when the tank pressure goes under a preset value.

The pressure switch can be connected to the alarm of the cameras or it can be connected directly to the alarm of the main electric box, to warn operators to reset the pressure and level of the water.

4.1 Product overview

The main parts of the product are illustrated below:

01. Casing.
02. Frame.
03. 10l tank.
04. Pressure switch (only in versions which include it).
05. Solenoid valve.

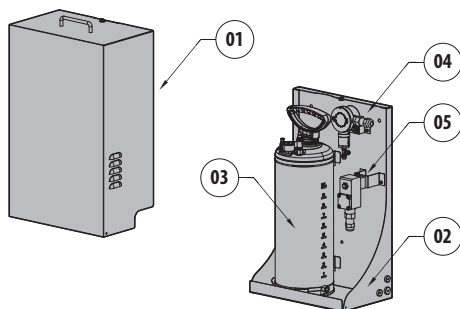


Fig. 1



The shape of the solenoid valve may change according to washer pump model.

4.2 Product marking label

The washer pump marking is defined by the marking of the solenoid valve and the pressure switch (if present).

The markings of the solenoid valve and the pressure switch (if present) are indicated on the plates applied to the components.

The product serial number is indicated in the label positioned as shown in the figure.

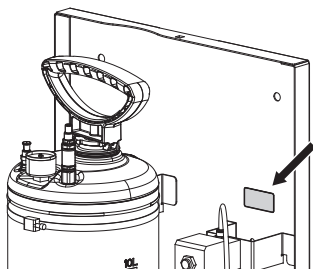


Fig. 2

4.3 Model identification

WASEX2T4AT: 10l tank with integrated manual pump, controlled by a certified solenoid valve (ATEX), delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe, IN 24Vac/24Vdc

WASEX2T4IC: 10l tank with integrated manual pump, controlled by a certified solenoid valve (ATEX, IECEx), delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe, IN 24Vac/24Vdc

WASEX2T4IN: 10l tank with integrated manual pump, controlled by a certified solenoid valve (INMETRO), delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe, IN 24Vac/24Vdc

WASEX2T4ATPR: 10l tank with integrated manual pump, controlled by a certified solenoid valve and pressure switch (ATEX), delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe, IN 24Vac/24Vdc

WASEX2T4ICPR: 10l tank with integrated manual pump, controlled by a certified solenoid valve and pressure switch (ATEX, IECEx), delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe, IN 24Vac/24Vdc

WASEX2T4UL: 10l tank with integrated manual pump, controlled by a certified solenoid valve (cULus), delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe, IN 24Vac/24Vdc

WASEX - CERTIFICATIONS AND MARKINGS				
Part number	Certification	Marking	Ambient temperature	Cable entry temperature
WASEX2T4AT	ATEX (Solenoid valve)	⊕ 2 II GD Ex db IIC T6 Gb Ex tb IIIC T80°C Db	-40°C ≤ Ta ≤ +70°C	+85°C (+185°F)
WASEX2T4IC	ATEX (Solenoid valve)	⊕ II 2G Ex db IIC T6...T4 Gb ⊕ II 2D Ex tb IIIC T85°C...T135°C Db	-60°C ≤ Ta ≤ +65°C or +80°C or +100°C	+152°C (+306°F)
	IECEX (Solenoid valve)	Ex db IIC T6...T4 Gb Ex tb IIIC T85°C...T135°C Db		
WASEX2T4IN	INMETRO (Solenoid valve)	Ex db IIC T6...T4 Gb IP66 Ex tb IIIC T85°C...T135°C Db IP66	-40°C ≤ Ta ≤ +35°C or +50°C or +60°C	+80°C (+176°F)
WASEX2T4ATPR ¹	ATEX (Solenoid valve)	⊕ 2 II GD Ex db IIC T6 Gb Ex tb IIIC T80°C Db	-40°C ≤ Ta ≤ +70°C	+105°C (+221°F)
	ATEX (Pressure switch)	⊕ 2 II G Ex d IIC T6 Gb Ex d IIIC T5 Gb ⊕ 2 II D Ex tb IIIC T 75°C Db Ex tb IIIC T 90°C Db	-35°C ≤ Ta ≤ +65°C or +80°C	
WASEX2T4ICPR ²	ATEX (Solenoid valve)	⊕ II 2G Ex db IIC T6...T4 Gb ⊕ II 2D Ex tb IIIC T85°C...T135°C Db	-60°C ≤ Ta ≤ +65°C or +80°C or +100°C	+152°C (+306°F)
	ATEX (Pressure switch)	⊕ 2 II GD Ex db IIC T6 Gb (-60°C ≤ Ta ≤ +65°C)/ T5 Gb (-60°C ≤ Ta ≤ +80°C) Ex tb IIIC T85°C Db (-60°C ≤ Ta ≤ +65°C)/ T100°C Db (-60°C ≤ Ta ≤ +80°C)	-60°C ≤ Ta ≤ +65°C or +80°C	
	IECEX (Solenoid valve)	Ex db IIC T6...T4 Gb Ex tb IIIC T85°C...T135°C Db	-60°C ≤ Ta ≤ +65°C or +80°C or +100°C	
	IECEX (Pressure switch)	Ex db IIC T6 Gb (-60°C ≤ Ta ≤ +65°C)/ T5 Gb (-60°C ≤ Ta ≤ +80°C) Ex tb IIIC T85°C Db (-60°C ≤ Ta ≤ +65°C)/ T100°C Db (-60°C ≤ Ta ≤ +80°C)	-60°C ≤ Ta ≤ +65°C or +80°C	
WASEX2T4UL	cULus (Solenoid valve)	CLASS I, DIV I, GROUP B, C, D CLASS II, DIV I, GROUP E, F, G CLASS III, DIV I	-60°C ≤ Ta ≤ 55°C for T6 -60°C ≤ Ta ≤ 70°C for T5 -60°C ≤ Ta ≤ 100°C for T4	+100°C (212°F)

Tab. 1 ¹ The assembly can be installed in the following areas:
 Zone 1, IIC, T6, ambient temperature from -35°C up to +65°C.
 Zone 21, IIIC, T80°C, ambient temperature from -35°C up to +65°C.

Tab. 2 ² The assembly can be installed in the following areas:
 Zone 1, IIC, T6, ambient temperature from -60°C up to +65°C.
 Zone 21, IIIC, T85°C, ambient temperature from -60°C up to +65°C.
 Zone 1, IIC, T5, ambient temperature from -60°C up to +80°C.
 Zone 21, IIIC, T100°C, ambient temperature from -60°C up to +80°C.

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:

- Windows washing kit
- Support for the delivery pipe
- Locking bracket of the delivery pipe
- Bolts and screws
- Washer semi-rigid pipe (with nozzle)
- Pipe connector
- Stainless steel clamps
- Delivery pipe (length: 20m)
- Sealing rings
- Instruction manual
- Solenoid valve user and installation manual
- Use and installation manual of the pressure switch (only in versions which include it)

5.3 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



Before carrying out any type of intervention, read the "Safety rules" chapter of this manual.

6.1 Product opening



It is possible to install or service the pump without removing the tank (Fig. 4, page 11). To remove the tank (01), release the metal clamps (02) and disconnect the connecting pipe (03).

Unscrew the 2 side screws to open the cover.

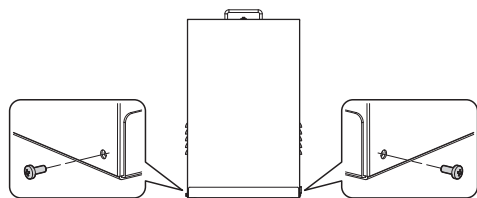


Fig. 3

Undo the safety screw (04) and lift the guard (05).

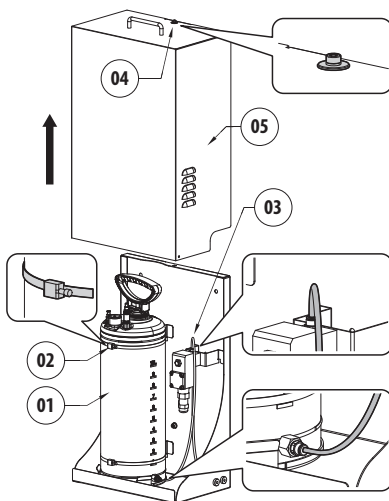


Fig. 4

6.2 Frame perforation

The sides and the bottom of the product have pre-drilled holes for passage of the electrical conductors and the delivery pipe. The holes made for installation should be protected by the sealing rings provided.

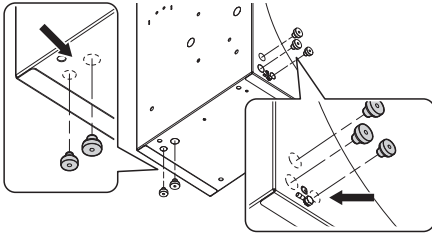


Fig. 5

6.2.1 Assembly of the seal rings

⚠ During assembly, be careful not to damage the rubber and thereby reduce its air-tightness.

Insert the conical part of the sealing ring in the hole. Tighten the conical part of the sealing ring with a pliers or a similar tool.

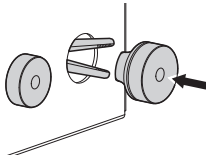


Fig. 6

Pull the sealing ring allowing it to pass through the hole until the conical part is completely out. In the final position, the sealing ring should completely close the passage hole.

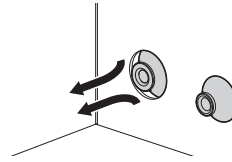


Fig. 7

RATIO BETWEEN THE DIMENSIONS OF THE SEALING RINGS AND THE DIAMETER OF THE USABLE CABLES

Sealing ring	Ø passage hole (mm)	Ø cable (mm)
M16	16.5	From 5 up to 9
M20	20.5	From 8 up to 12

Tab. 3

6.3 Installation options

⚠ The product can only be installed in a vertical position.

The product can be installed with different brackets and supports. Remember to exclusively use brackets and accessories approved for installation.

6.3.1 Wall or floor fastening

The product can be fastened directly to the wall or the floor using the holes present on the frame.

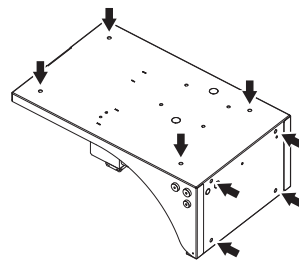


Fig. 8

6.3.2 Fixing using a pole adapter module or an corner adapter module



The product must be placed on a solid surface. To secure it in place, you can use a pole adapter module or a corner adapter module.



Pay attention to the fixing. Tightening torque: 16.5Nm.

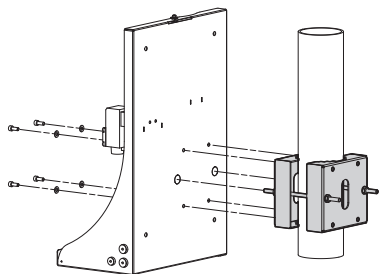


Fig. 9 WASEX+NXCOL.

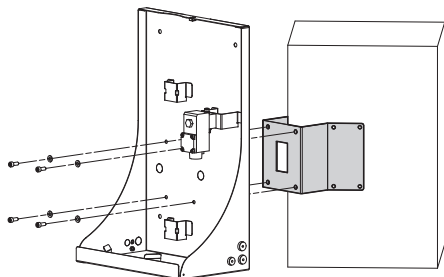


Fig. 10 WASEX+NXCW.

6.4 Delivery pipe connection

Connect the delivery pipe (01), passing it through the seal ring (02).

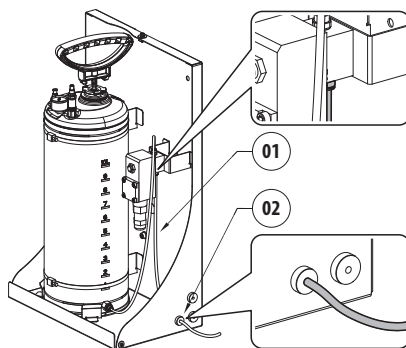


Fig. 11

6.5 Ground connection

6.5.1 Earthing equipotential connection

The equipotential connection must be carried out using an external cable with a minimum 4mm² section (11AWG).

Connect the cable for the earthing equipotential connection with the eyelet terminal supplied (suitable for cables with 4mm² (11AWG) up to 6mm² (9AWG) section).

Fasten the eyelet using the screw (M5) and lock washer

Characteristics of the M5 screw:

- Material: A4 Class 70
- Screw head: ISO 4762
- Length: 8mm (0.3in)

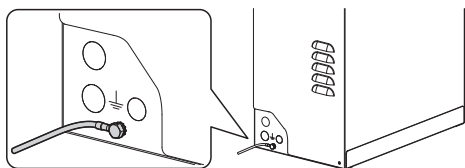


Fig. 12

⚠ The solenoid valve and the pressure switch (if assembled) are connected to the ground as per the instruction of the single product and in compliance with EN IEC 60079-14.

6.6 Connection of the solenoid valve

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

Refer to the use and maintenance manual of the solenoid valve for further information.

6.7 Pressure switch connection

Refer to the use and maintenance manual of the pressure switch for further information.

6.8 Connection to PTZ (ExSite Enhanced 2 Series PTZ, ExSite Pro PTZ Series)



To install electrical connections between the products, use the communication box by Pelco, MBX. Alternatively use an explosion-proof junction box with equivalent characteristics.

Refer to the use and maintenance manual of the ExSite Pro PTZ Series for further information.

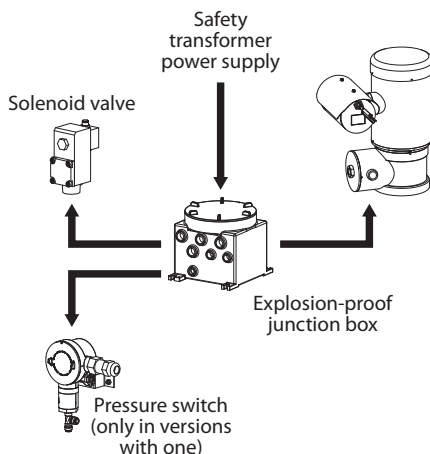


Fig. 13

6.8.1 Connection of the solenoid valve to the PTZ (ExSite Enhanced 2 Series PTZ, ExSite Pro PTZ Series)



The RL2 relay in the PTZ can withstand a voltage of up to 30Vac or 60Vdc. Turn off one of the supply poles of the solenoid valve via the RL2 relay of the PTZ. Consult the PTZ manual.



The solenoid valve can be powered to 24Vac or 24Vdc with an isolated transformer or isolated converter.

The polarity of the voltage, applied to the power terminal, is irrelevant.

6.8.1.1 Integrated power supply connection

To use the washing system power supply integrated in the device, connect the solenoid valve of the washer valve directly to terminals of PTZ connector (J13, consult the PTZ manual).

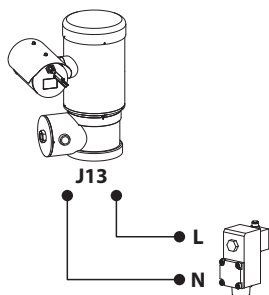


Fig. 14

6.8.1.2 External power supply connection

Connect as in the diagram below.

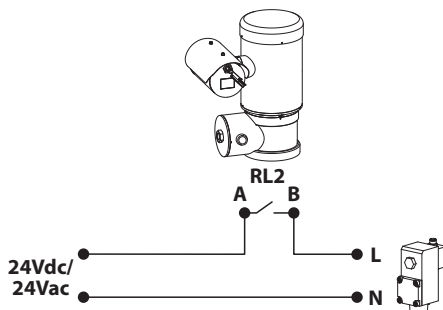


Fig. 15

6.8.2 Connection of the pressure switch to the PTZ (ExSite Enhanced 2 Series PTZ, ExSite Pro PTZ Series)

Use the auto-powered alarm input AL1 to connect the pressure switch to the PTZ (consult the PTZ manual).

Connect as in the diagram below.

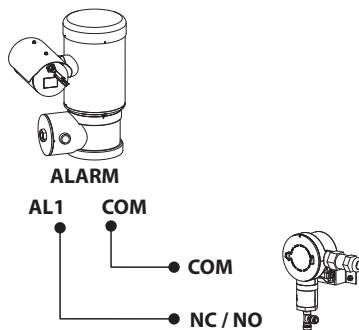


Fig. 16

6.9 Connection to the camera (ExSite Enhanced 2 Series Fixed)



To install electrical connections between the products, use the communication box by Pelco, MBX. Alternatively use an explosion-proof junction box with equivalent characteristics.

6.9.1 Connection of the solenoid valve to the camera (ExSite Enhanced 2 Series Fixed)



The RL1 relay in the camera can withstand a voltage of up to 30Vac or 60Vdc. Turn off one of the supply poles of the solenoid valve via the RL1 relay of the camera. Consult the camera manual.



The solenoid valve can be powered to 24Vac or 24Vdc with an isolated transformer or isolated converter.

The polarity of the voltage, applied to the power terminal, is irrelevant.

Connect as in the diagram below.

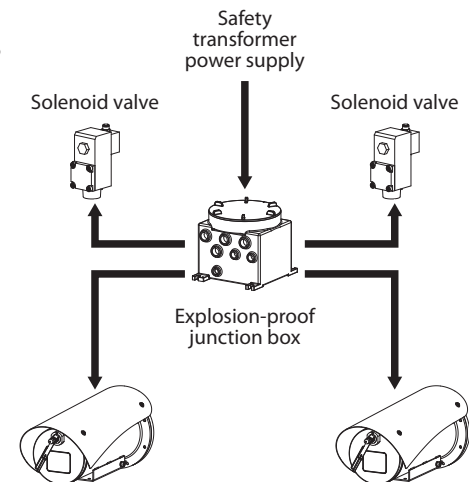


Fig. 17

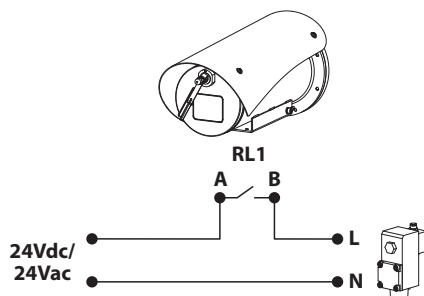


Fig. 19

6.9.2 Connection of the pressure switch to the camera (ExSite Enhanced 2 Series Fixed)

Use the auto-powered alarm input AL1 (consult the camera manual).

Connect as in the diagram below.

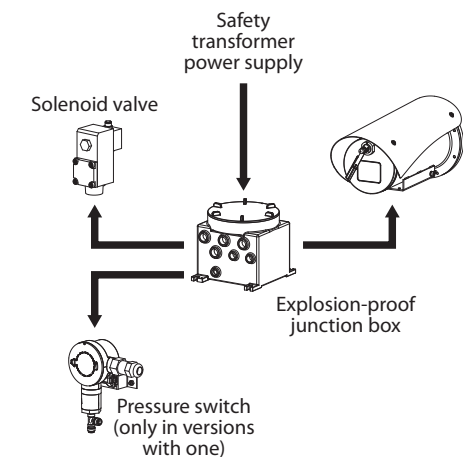


Fig. 18

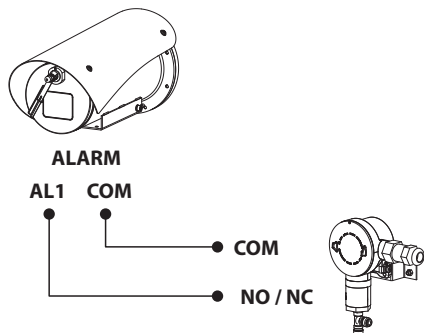


Fig. 20

6.10 Connection to the housing (MHX)



To install electrical connections between the products, use the communication box by Pelco, MBX. Alternatively use an explosion-proof junction box with equivalent characteristics.

6.10.1 Connection of the solenoid valve to the housing (MHX)



The Washer relay in the MHX is suitable for voltages up to 30Vac or 60Vdc. Turn off one of the supply poles of the solenoid valve via the Washer relay (terminal J11) of the MHX. Consult the housing manual.



The solenoid valve can be powered to 24Vac or 24Vdc with an isolated transformer or isolated converter.

The polarity of the voltage, applied to the power terminal, is irrelevant.

Connect as in the diagram below.

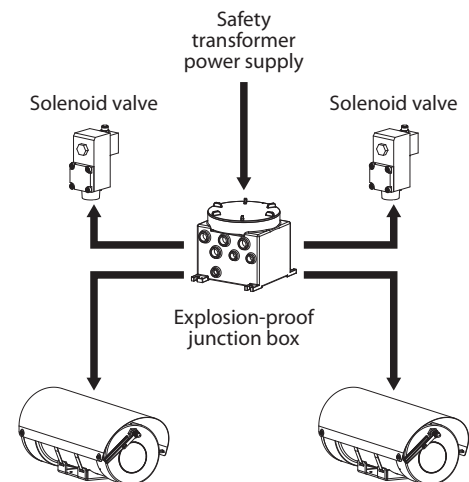


Fig. 21

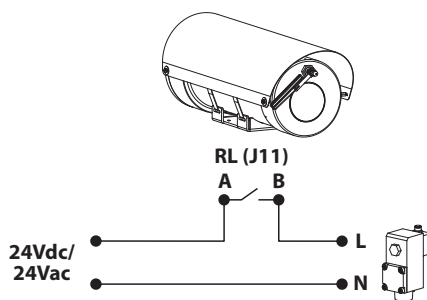


Fig. 23

6.10.2 Connection of the pressure switch to the housing (MHX)

The housing does not have a prearranged alarm input.

Connection of the pressure switch to an alarm contact of the main electric box.

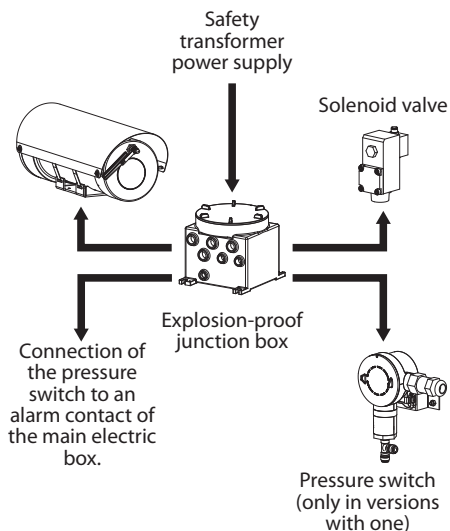


Fig. 22

6.11 Filling the tank



The operation of the pressure switch and the frequency of air filling depend on the amount of water in the tank. Testing is recommended to determine the amount of water in the tank appropriate for the specific application.

Turn the safety valve to release any residual pressure in the tank.

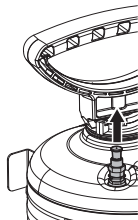


Fig. 24

With the handle (01) of the pump locked in the safe position, unscrew the pump from the container. Fill the tank (02) (10l max) Screw in the pump in the tank.

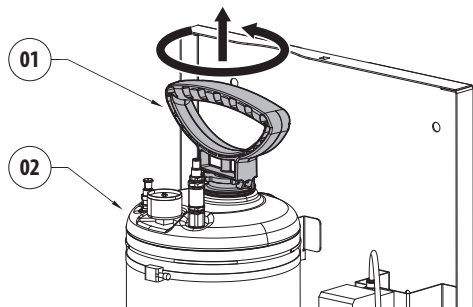


Fig. 25

6.11.1 Pressurise the tank using the manual pump

Release the handle of the pump by pressing it downwards and turning clockwise. Pressurise the tank pumping with the handle of the pump until the desired pressure is reached:

- 4bar with 20m water delivery antistatic pipe (supplied)
- 6bar with 30m water delivery antistatic pipe (available as an accessory)



If the maximum pressure (6bar) is exceeded, the safety valve activates to discharge the excess pressure.

Lock the knob of the pump in the safe position, pressing it downwards and turning anti-clockwise.

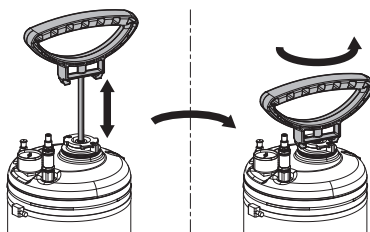


Fig. 26

6.11.2 Pressurise the tank using the compressed air valve



Pressurising the tank using compressed air is only permitted outside the classified zone.

Connect the compressed air pipe on the compressed air filling valve (01). Once the desired pressure is generated, remove the compressed air pipe.

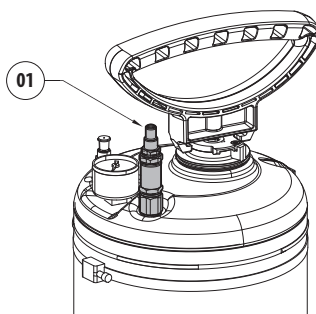
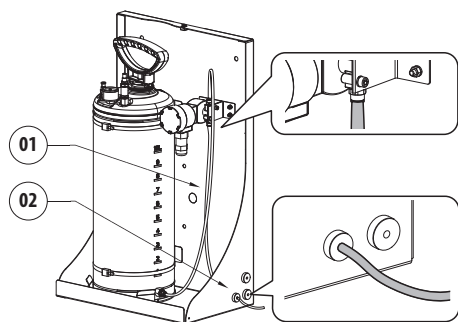


Fig. 27

6.11.3 Product closure



Insert the guard and tighten the safety screw.

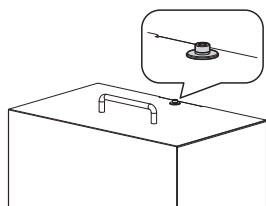


Fig. 28

Screw in the two previously removed side screws.

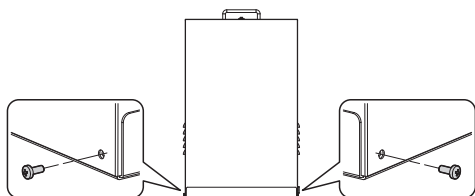


Fig. 29

6.12 Washer installation (ExSite Enhanced 2 Series PTZ)

Fasten the support (01) onto the PTZ body with the metal clip (02) provided.

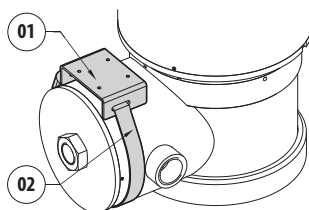


Fig. 30

Shorten the semi-rigid washer pipe (03) as needed. Unscrew the nut (04) from the joint and slide it along the pipe. Insert the end of the pipe into the spinner (05).

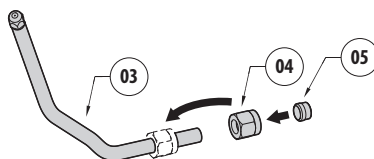


Fig. 31

Lock the nut to the coupling.

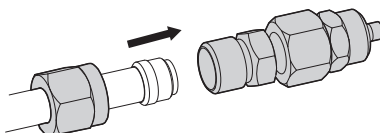


Fig. 32

Fasten the pipe to the washer support using the bracket (06), the screws and the washers (07) provided. Connect the supply pipe (08).

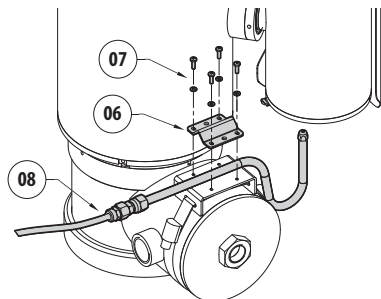


Fig. 33

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

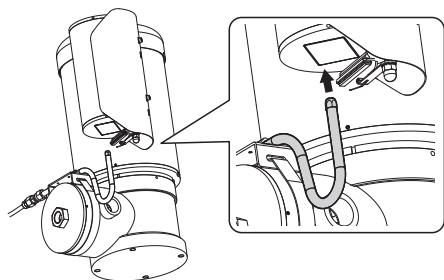


Fig. 34

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

6.12.1 Installation options

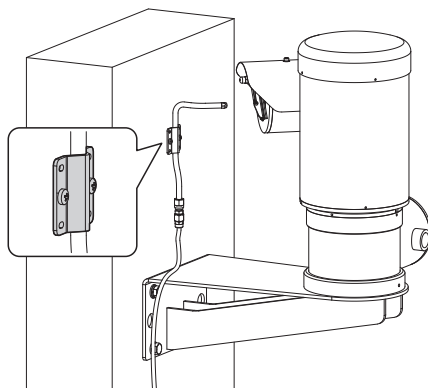


Fig. 35

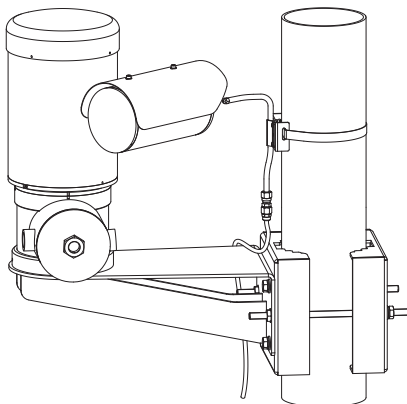


Fig. 36

6.13 Washer installation (ExSite Enhanced 2 Series Fixed)

Fasten the bracket (01) onto the body of the camera with the metal clip (02) provided.

Fasten the support for the delivery pipe (03) by means of the screws and washers provided (04).

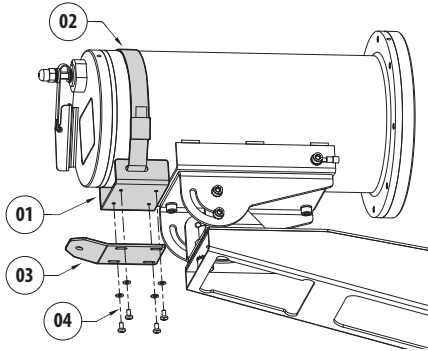


Fig. 37

Unscrew the nozzle (05) from the semi-rigid pipe. Insert the nozzle (05) through the hole in the support bracket (03) and secure with the nut and washer provided (06).

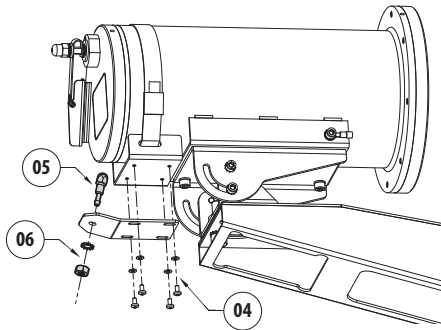


Fig. 38

Screw the semi-rigid pipe (07) to the nozzle fixed to the bracket.

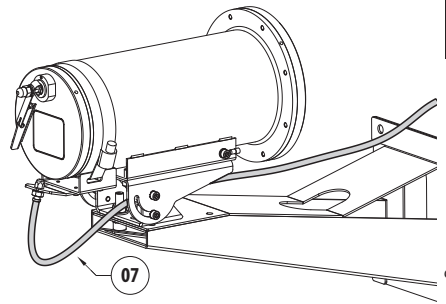


Fig. 39

Shorten the semi-rigid washer pipe (07) as needed. Unscrew the nut (08) and slide it along the pipe. Insert the end of the pipe into the spinner (09).

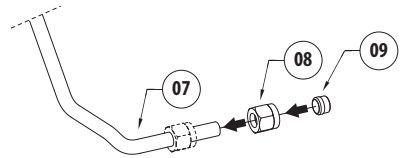


Fig. 40

Lock the nut to the coupling.

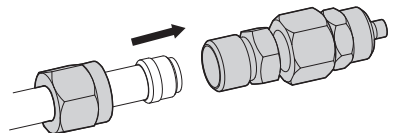


Fig. 41

Connect the supply pipe (10).

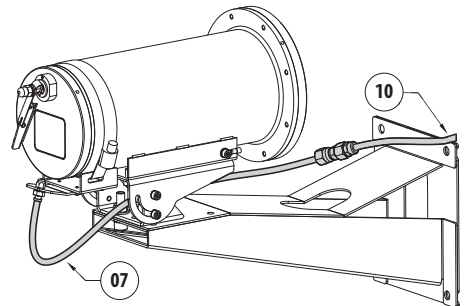


Fig. 42

To start the wash system refer to the camera manual.

6.14 Washer installation (MHX)

Fasten the bracket (01) onto the body of the housing with the metal clip (02) provided.

Fasten the support for the semi-rigid pipe (03) by means of the screws and washers provided (04).

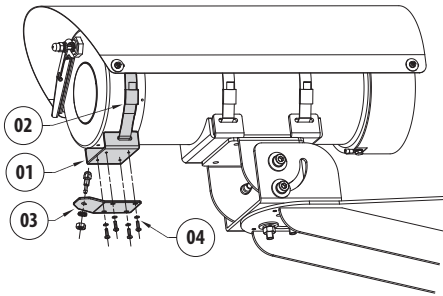


Fig. 43

Unscrew the nozzle (05) from the semi-rigid pipe. Insert the nozzle (05) through the hole in the support bracket (03) and secure with the nut and washer provided (06).

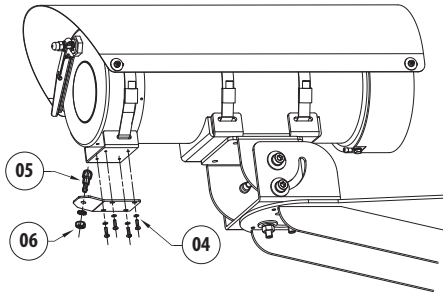


Fig. 44

Screw the semi-rigid pipe (07) to the nozzle fixed to the bracket.

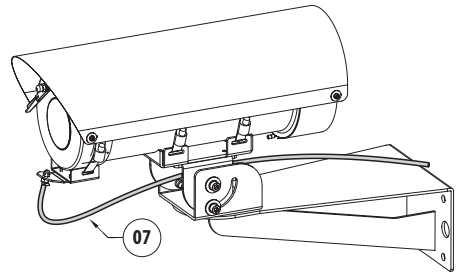


Fig. 45

Shorten the semi-rigid washer pipe (07) as needed. Unscrew the nut (08) and slide it along the pipe. Insert the end of the pipe into the spinner (09).

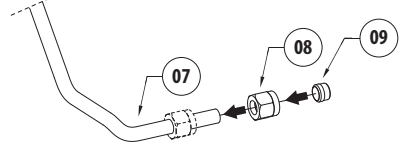


Fig. 46

Lock the nut to the coupling.

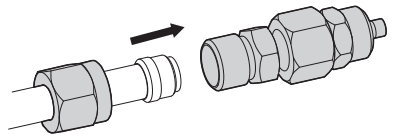


Fig. 47

Connect the supply pipe (10).

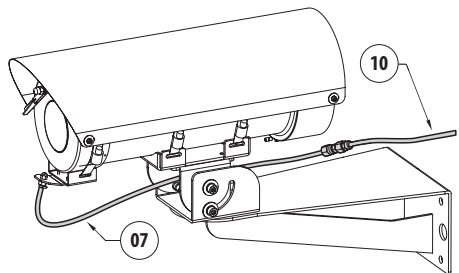


Fig. 48

To start the wash system refer to the housing manual.

7 Maintenance



Before carrying out any type of maintenance, read the "Safety rules" chapter carefully in the product manual.

Please provide the device serial number when requesting any replacement parts.

7.1 Routine maintenance

7.1.1 Filling the tank

Fill the tank with reference to the pump installation procedure (6.11 Filling the tank, page 18).

7.1.2 Inspecting the cables

The cables should not show signs of damage or wear, which could generate hazardous situations. In this case extraordinary maintenance is necessary.

8 Cleaning

8.1 Routine cleaning



The outside surface of the product must never be covered in more than 5 mm of dust.



Frequency will depend on the type of environment in which the product is used.

The device should be cleaned using a damp cloth; compressed air must not be used.

9 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.

10 Technical drawings



The indicated measurements are expressed in millimetres.



The number of holes for cable passage depends on the model.

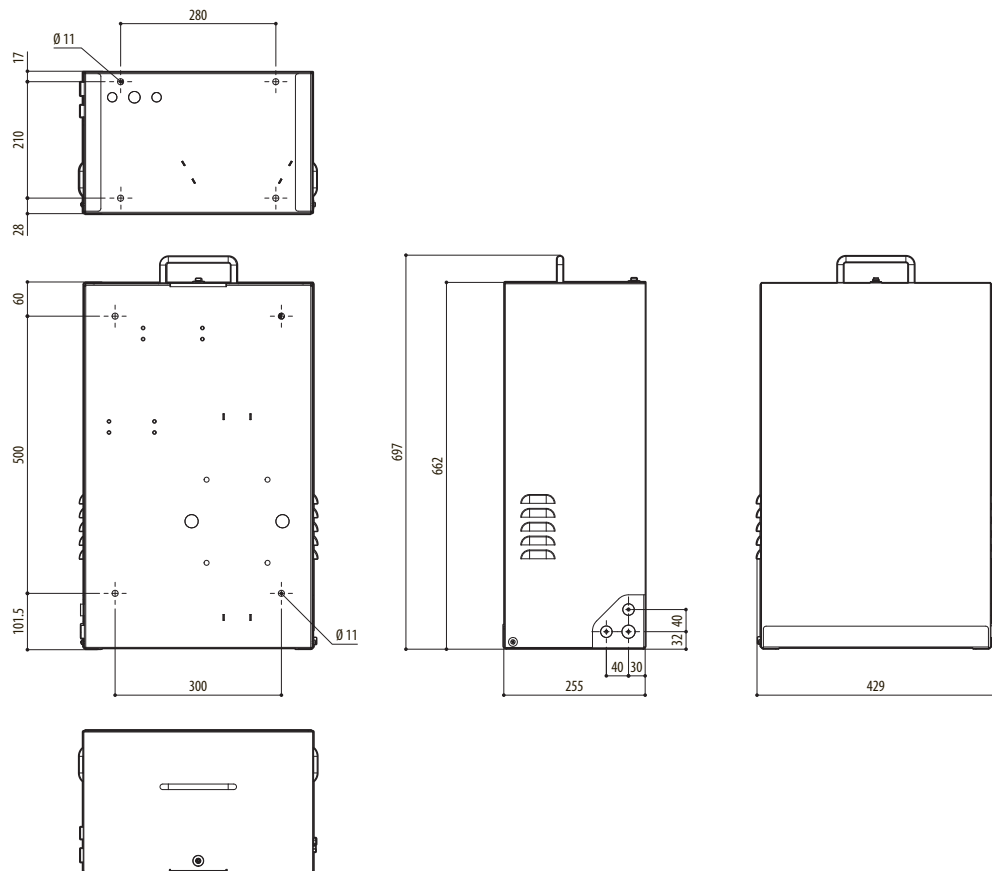


Fig. 49 WASEX.



Headquarters Italy VIDEOTEC s.r.l.
Via Friuli, 6 - I-36015 Schio (VI) - Italy
Tel. +39 0445 697411 - Fax +39 0445 697414
Email: info@videotec.com
www.videotec.com

MNVCWASEX_2650