



Australia R-Pitch

Use and maintenance manual

1	Introduction	31
1.1	Symbols used in this manual	31
1.2	Main definitions of movement	32
2	Safety.....	33
2.1	General safety information.....	33
2.2	General safety information for the product with electrical voltage	33
2.2.1	Electrical connections and installation	34
2.2.2	Limit switch calibration	34
2.3	Installation location	34
2.4	Warnings for safe use	34
3	Intended use	36
3.1	Manual product	37
3.2	Motorized product	37
3.3	Product adjustment.....	38
3.3.1	Inclination of fabric.....	38
4	Description of the product	40
5	Technical data.....	41
5.1	Technical features.....	41
5.1.1	Minimum width table	43
5.2	Technical label	43
5.3	Wind resistance	43
6	Optional	44
6.1	Safety devices	44
6.2	Additional devices.....	44
7	Maintenance.....	45
7.1	Troubleshooting Table.....	45
7.2	Cleaning.....	46
7.3	Scheduled maintenance	46
7.4	Extraordinary maintenance.....	47
8	Transport and Installation	48
8.1	Transport.....	48
8.2	Installation.....	48
9	Disassembly and Disposal	49

1 Introduction



CAUTION

Read the instructions carefully before using the product.



CAUTION

Possible presence of an uninsulated "dangerous voltage" inside the product; these are sufficiently high to represent an electrocution hazard.

This manual, together with the others attached (e.g. motor manual, remote control etc.), is an integral part of the product and has been written for its user; it is fundamental to the correct use and maintenance of the product.

If this manual is lost or destroyed, the user must request a new copy from the reseller, supplying them with the main product data and the destination of the new copy.

The pages and content contained within this manual must not be removed, rewritten or modified in any way.

This manual must be kept intact in an easily accessible location until the product is disposed off.

The Manufacturer reserves the right to update its products and their corresponding manuals without any obligation to update previous products and manuals.

The Manufacturer reserves all rights concerning this manual: no reproduction shall be permitted, in whole or in part, without its express written authorisation.



THE DECLARATION OF PERFORMANCE (DoP) MUST BE REQUIRED TO THE DEALER.

1.1 Symbols used in this manual

WARNINGS:



INFORMATION AND WARNINGS

Instructions and advice to help ensuring correct use and storage of the product. Failure to follow these instructions may compromise the product's integrity and/or strength.



CAUTION

Operator hazard! Instructions and warnings to be read and followed carefully. Failure to observe these instructions may put people's safety at risk.

ICONS INCLUDED IN THIS MANUAL:



Width



Projection



Single Module



Added Module



Internal gear



Wind resistance class



Water traps resistance class

1.2 Main definitions of movement

According to EN 12216:



OPEN / CLOSE: increase/decrease the light intensity.



EXTEND / RETRACT: increase/decrease the coverage area.

2 Safety



Failure to comply with the warnings/requirements automatically invalidates any type of guarantee provided by the Manufacturer. The Manufacturer accepts no responsibility resulting from any failure to comply with the above-mentioned requirements.



*· The product is designed and manufactured in accordance with the provisions of UNI EN 13561.
· The product absolves risks as per legislation UNI EN 13561: risks of a mechanical, electrical and ergonomic nature.*



With regard to resistance to wind, water pockets and snow load see Ch.Pt.5.1 "Technical features", P. 41.

2.1 General safety information



Danger of finger/upper limbs crushing between the extensibles arms in the processes of opening/closure of the product.

*· Operations of assembly/installation and first use, adjustment and extraordinary maintenance must only be performed by technicians trained and specialised for those tasks, contact Technical Support.
· The Manufacturer shall not be held responsible for any damage resulting from either tampering or unauthorised modification of the product.*



*· Do not place objects on the awning fabric.
· It is strictly prohibited to climb on or hang/place any objects from/on the product.
· Do not install or place fixed/portable objects near the product, such that they reduce the space needed for the product and/or hinder its movement.
· It is forbidden for people to hang or hold themselves on the product, this would create a serious risk of injury as well as potentially damaging the product itself.
· Removing safety warnings (adhesive labels) is strictly forbidden.
· Ensure there is nobody obstructing or excessively close to the product's moving parts when opening and closing.
· The space made available during the assembly/installation must take into account the space required for the movement and allow closing/extension of product.*



Removing the safety devices installed on the structure is strictly forbidden (see Ch.Pt.6.1 "Safety devices", P. 44).



The finished product may be affected to creaking sound as result of various materials expanding.



Do not use open flames near or under the awning: the fabric can catch fire, even if made of non-flammable material.

2.2 General safety information for the product with electrical voltage



*· Use a lockable (key) switch if the product is to be installed in sensitive locations such as schools, colleges, hospitals, rest homes etc.
· If the opening/closing switch, or with maintained action, is present, it must be positioned in accordance with the legislation in force in the area and in compliance with national regulations relating to people with disabilities and children. Positioned in a protected place (an area where access is not a source of danger) and close to the product, such as to allow the user to have total visibility of its movements (away from moving parts). The switch must be properly protected (if placed outdoors) and placed OUT OF THE REACH OF CHILDREN.
· If a manual release is supplied, it must be positioned at an accessible height.
· If the product is equipped with a radio control unit, it must be placed OUT OF THE REACH OF CHILDREN.
· In case of product installation in a windy area and with frequent power outages, it is recommended to install a replacement power supply.*



- All maintenance and cleaning operations, and work done on the facade, must be performed with the electrical supply disconnected.
- At the end of any maintenance or repair operation for this equipment, ask the technical support service technician or installer to perform safety checks to determine the safety of use of the equipment.



- Ensure objects or liquids do not penetrate the equipment. If a metal object, such as a pin, were to enter the unit, it could cause a short circuit.
- Never open the equipment. If the internal components were to be touched accidentally, this could lead to a very serious electric shock.
- Do not overload mains sockets, extension cables or the outlets on the appliance as this could cause overheating and lead to a fire and electrocution hazard.
- Do not install the product with electrical voltage in environments with an explosive atmosphere.
- If you notice unusual smells or smoke, switch off the equipment and immediately cut the power supply. Immediately contact a technician or the installer.



The equipment must only be connected to the type of power supply specified in the instructions or on the equipment itself. If you do not have certain knowledge of the type of power supply present, consult the installer/reseller.

2.2.1 Electrical connections and installation



- Electrical connections must be made by qualified and authorised personnel with the power supply shut off.
- The power supply cables must be run in such a way that it is not possible for them to be walked on or crushed by objects, paying particular attention to the connections between cables and plugs and where they come out of the equipment.
- Connections must be watertight.



- It is strictly forbidden to connect two or more engines to the same switch, due to the risk of induced currents which could damage the engines.
- The installation of the motorised product involves the same procedure as that for the manual product, with the exception of the installation of the crank rod and motors with emergency control.
- Instructions for electrical connection and operational programming are given in the "Engine Manual", supplied as an annex.

2.2.2 Limit switch calibration



After the installation, check that the limit switches calibration is correct; if any adjustment are needed, follow the instructions given in the annexed "Engine Manual".

2.3 Installation location



The minimum installation height of the product should comply with applicable legislation if not possible, it is mandatory to install an acoustic alarm in the product equipped with automation.

2.4 Warnings for safe use



- For any doubt, consult the reseller/manufacture BEFORE using the product.
- The user must inform the reseller/manufacture immediately if any faults/malfunctions should occur on safety devices or if any other dangerous situation should occur.



- In the case of adverse weather or snow (see Ch.Pt.5.1 "Technical features", P. 41) return the product to the safety position, open/retract the product completely (non screening). Danger of damage or injury.
- The operation of the product with snow on the fabric or in freezing temperatures could damage it.
- The formation of condensation on the fabric should not be considered a defect; it is a natural phenomenon.
- Never retract the awning when the fabric is wet, to prevent the formation of mould and structural damage (if it continues to rain, open/retract the awning, then close/extend it again as soon as possible to let it dry).



Make sure that when opening/closing the product (in any position) there are no visible obstructions (such as leaves, pine cones or other) in the moving parts and in the fabric (only if provided).



For products which can be operated from a position where they cannot be seen, or automatically by weather sensors, the user must adopt appropriate organisational measures to prevent the activation of the product when maintenance operations are being performed in the area, such as windows or walls' cleaning.



*· Do not remove the tent terminal: once freed, the arms spring open.
· The fabric must not be loosened beyond the arm's tension because there's the risk for the fabric to re-enter the tube from below and to get damaged.*



Do not pour any water discharge from roofs, gutters, etc on the coverage and make sure that there are no foreign bodies such as leaves, pine cones or other; this could reduce the water drainage capacity to the covering discharge system.



In case the product is not being used for a prolonged period of time, do protect exposed mechanical parts (if there are any).



All measurements are given in millimetres unless otherwise indicated.



Some figures could be of a general nature and not be referred to the product at issue.

3 Intended use

The product has been designed to provide protection against solar radiation, allowing adjustment of the energy and/or optical-luminous parameters due to sunlight.

According to UNI EN 12216, the product is defined as:

FOLDING ARM AWNING: awning intended for unwinding or winding the fabric to reach and remain in the maximum opening and closing positions and, if necessary, the intermediate ones. The fabric is tensioned by means of spring-loaded extendable arms.

The system consists of a square steel bar that supports the arms and the fabric, bound with the brackets to the wall/ceiling. It can be installed with wall (or ceiling) brackets on outside buildings or on other structures that can strongly support it

Improper use of the product shall release the Manufacturer from any liability from damage or injuries which might result.



· The user must not perform any operation or work on the product for which they are not authorised. Before making the product operational, read Ch.Pt.2 "Safety", P. 33 and Ch.Pt.7 "Maintenance", P. 45 carefully.

· Users of the product must be adults.

· Pay attention to all the warnings applied to the product, and follow all safety regulations and instructions for use.

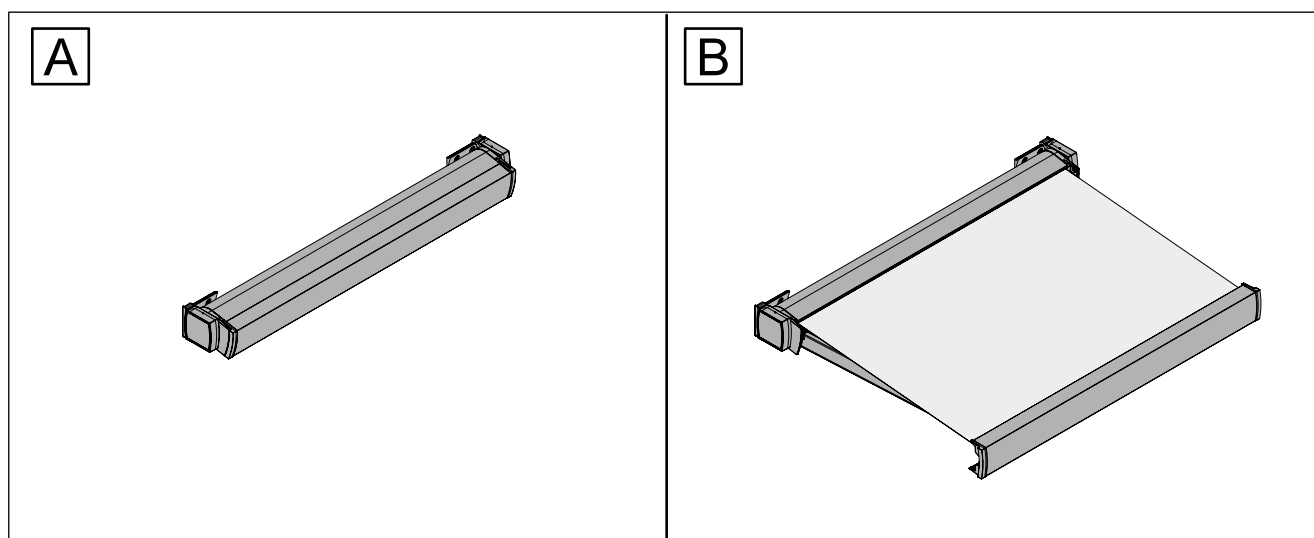
· Any use other than those indicated below is forbidden, as different conditions of use could create risks to the user and other persons nearby.



During the first period of use components can settle down and cause little inclination loss of the product.



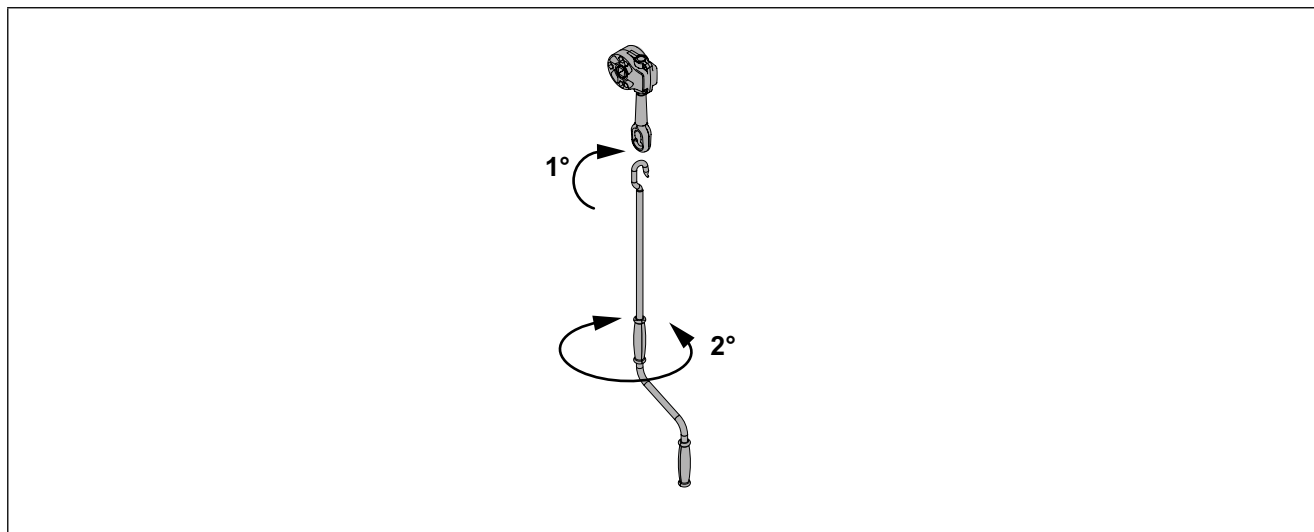
In the presence of continuous gusts of wind, non-tensioned fabrics in general, exposed to wind currents can show, over time, cracking phenomena due to the action of the wind itself. This effect, called "Flapping", occurs mainly in the applications of "folding" pergolas and flounces in general, in the case of persistent stresses generated by the swirling movement of the wind. This effect should not be considered as a manufacturing defect, but as a potential behavior of the fabric due to external factors.



Pic. 11 A) OPEN; B) CLOSE

3.1 Manual product

GEAR



Pic. 12 Crank rod

The product is opened and closed by a crank rod attached to a gear.



If the fabric loses tension when retracting the product from the end limit position, reverse the direction of rotation.

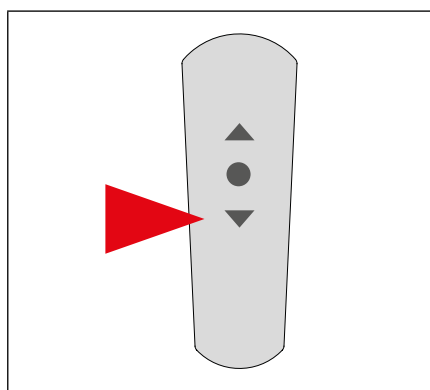
3.2 Motorized product



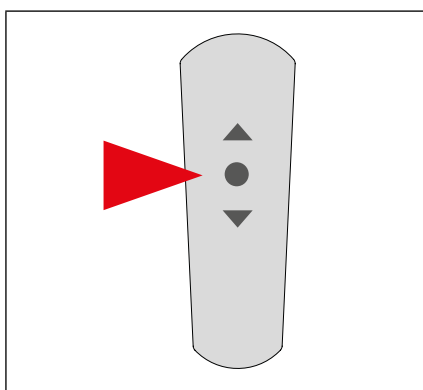
Before making the product operational, read Ch.Pt.2.2 "General safety information for the product with electrical voltage", P. 33 carefully.

The product can be opened and closed via:

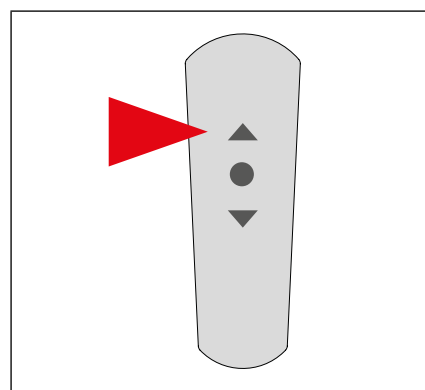
- a SWITCH
- A REMOTE CONTROL, portable or wall mounted.



Pic. 13 OPENING



Pic. 14 STOP



Pic. 15 CLOSURE



· See the instructions provided in the remote control manual annexed.
· The remote control may also be used outdoors, as long as the system has an IP rating of IP55 or higher.



The characteristics and operation of these systems are described in the manuals, which are supplied as annexes, for the requested controls, motor and automatic devices.



In the event of faults or malfunctions, contact your reseller.

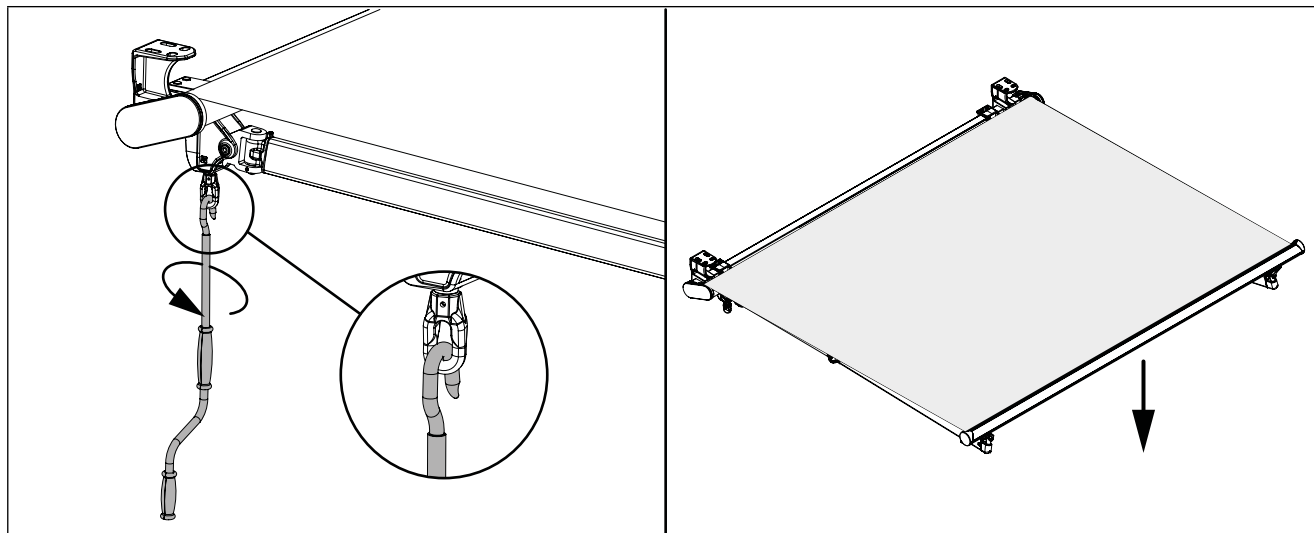
3.3 Product adjustment

3.3.1 Inclination of fabric

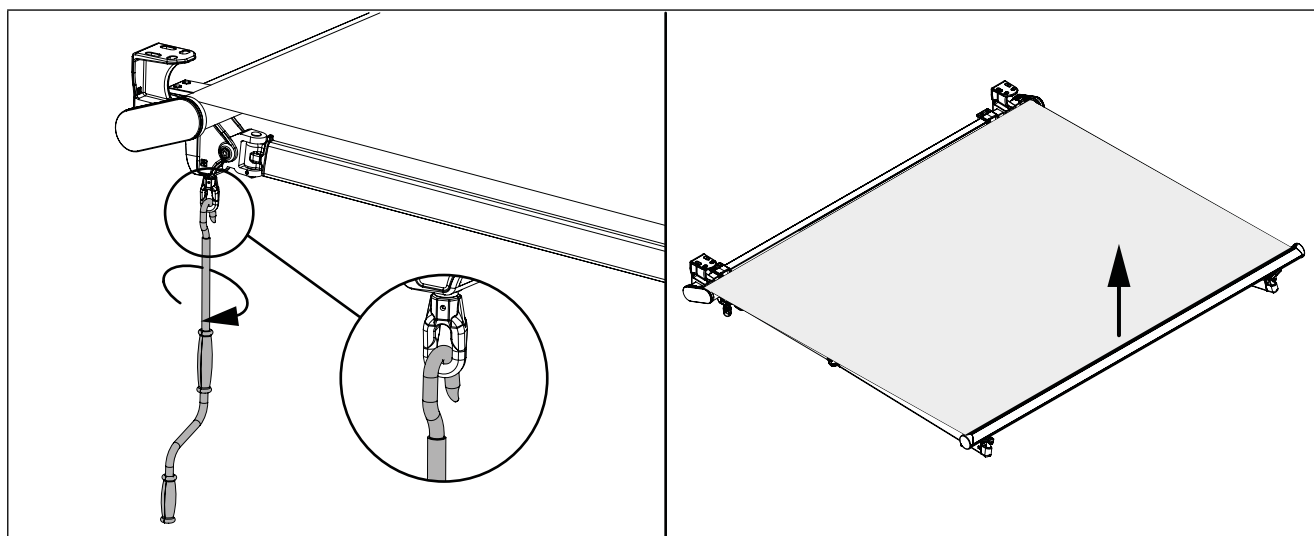
Important - You need to take pressure off the awning by getting someone else to hold the front bar up slightly whilst you use the crank handle. If 2 people not available, have the awning out approx. 30cm and wind a few rotations at a time on each side.



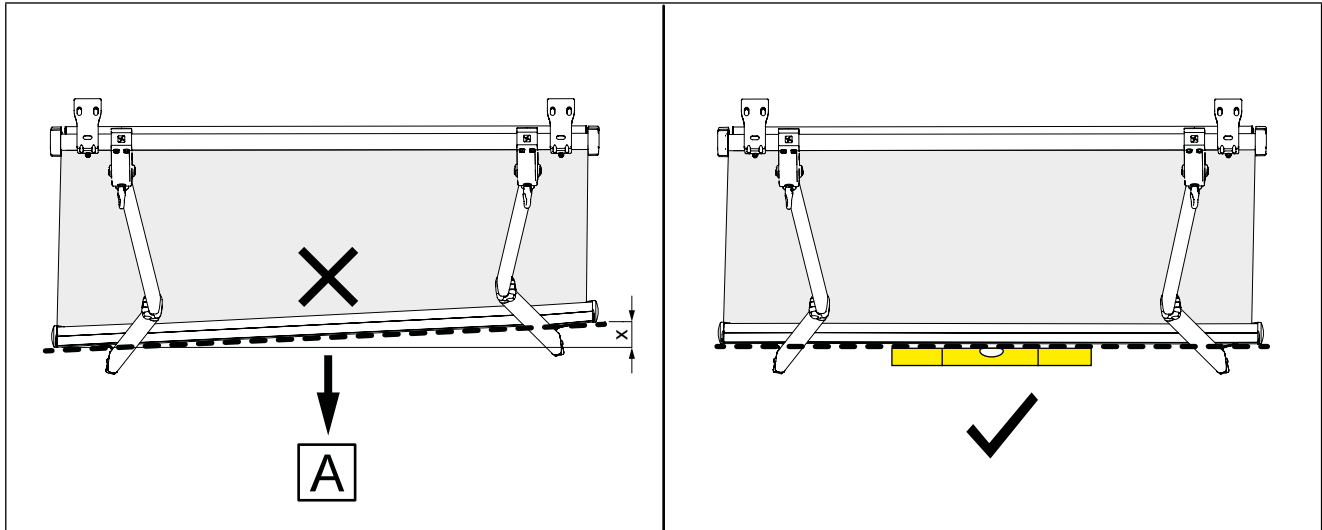
When adjusting the pitch, start with one side making sure that it does not exceed 20cm at the time, then adjust the other side bringing the front bar to the horizontal position. Repeat the operation if necessary.



Pic. 16 Adjust the product's inclination at alternating intervals of 20 cm.



Pic. 17



Pic. 18 A) See "Pic. 16" P. 38or "Pic. 17" P. 38

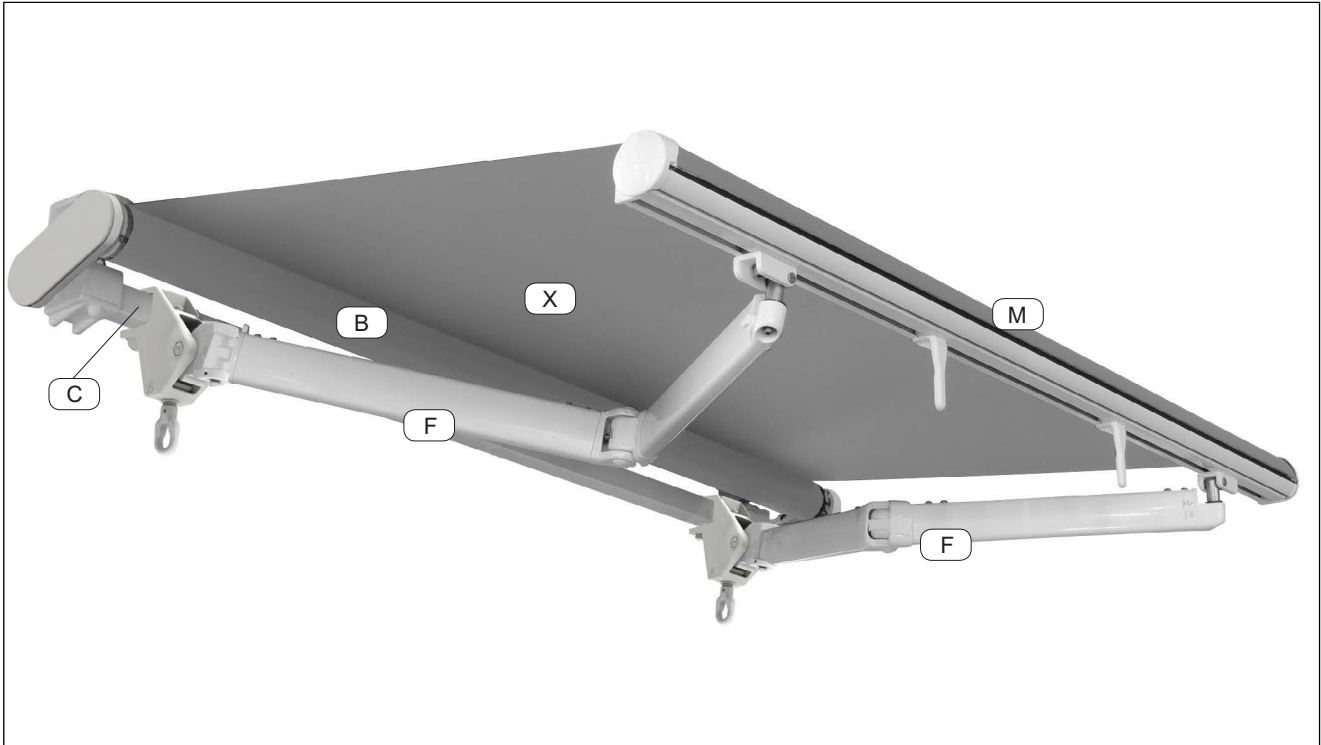
4 Description of the product

The product can be installed in single or modular configuration.

The mounting is done by wall (or ceiling) brackets.

Its operation is manual or motorized.

- roller tube (B)
- square bar (C)
- mechanised extending arms (F) fitted with sheathed cables, stainless steel chain or belt
- terminal profile (M)
- fabric (X): provides the sun protection and coverage functions



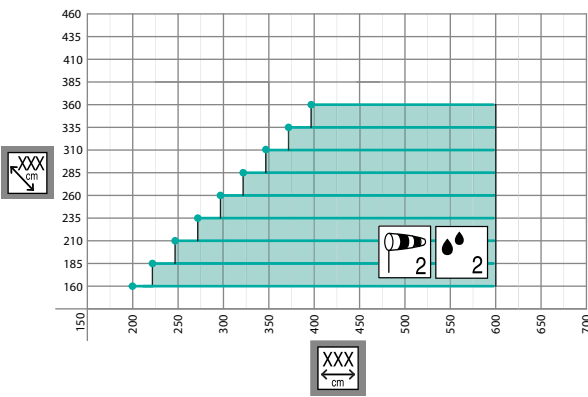
Pic. 19

The construction materials guarantee good resistance to wear, caused both by its use and by the weather.

5 Technical data

5.1 Technical features

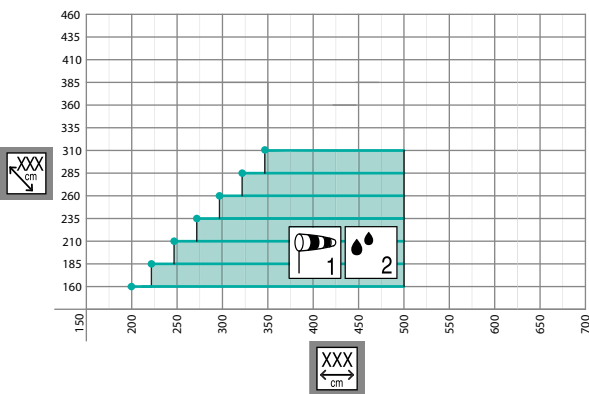
Dimensions (mm) and weight (Kg)		
Min. width (mm)	see Ch.Pt.5.1.1 "Minimum width table", P. 43	
Max. width (mm)	6000	12000
Min. projection (mm)	1600	1600
Max. projection (mm)	3600	3600
Max. approx. weight (Kg)*	65	130
Roller tube (Ø)	70-80	70-80

Safety performance per EN1932 / EN13561 **	
Total transmittance of solar energy g_{tot}	see CE marking
Wind resistance class / Water traps resistance class	
	

BOX FRONT BAR

Dimensions (mm) and weight (Kg)	
Min. width (mm)	vedi Ch.Pt.5.1.1 "Minimum width table", P. 43
Max. width (mm)	5000
Min. projection (mm)	1600
Max. projection (mm)	3100
Min. height (mm)	-
Max. height (mm)	1200
Max. approx. weight (Kg)*	85
Roller tube (Ø)	35

Safety performance per EN1932 / EN13561 **

Total transmittance of solar energy g_{tot}	see CE marking
Wind resistance class / Water traps resistance class	
	

MOTOR

Information	
Type	see manual for installed motor
Specifications	CE marking; approved for sun awnings



(*) The total weight on the table refers to the complete product with all components on maximum size, not including gear or motor.



(**) Values referred to the product fully extended.



Check the type of arms with the current price list.



The awning is tested in the maximum size with a pair of arms and in any case no more than 6m.



For those configurations that are not in the table, please refer to the project drawing.



The product's dimensional tolerances comply with EN13561 provision.

For the specifications of the optional accessories, see Ch.Pt.6 "Optional", P. 44 and the corresponding instructions.



The resistance to pooling water is tested with an inclination of 25%; retract the awning during rain if the angle is less than this.



The maximum load permitted for non-retractable parts is 800 Pa.

5.1.1 Minimum width table

(cm)		Ingombri minimi della tenda finita Minimum awning width Encombrents minimum du store fini Mindestabmessungen der Markise Tamaño mínimo del toldo								
		160	185	210	235	260	285	310	335	360
		195	220	245	270	295	320	345	370	395

Pic. 20

5.2 Technical label

The "technical label", which is on the inside cover of this manual, specifies the year in which the CE marking, the manufacturer's data and the specific product data were applied.

5.3 Wind resistance

EN 13561	Test pressure (N/m ²)	Beaufort Scale	Wind speed (Km/h)
Class 1	40	4	< 30
Class 2	70	5	30 - 39
Class 3	110	6	39 - 49
Class 4	170	7	50 - 61
Class 5	270	8	62 - 74
Class 6	400	9	75 - 88



The anemometer must be configured according to the wind speed described in Ch.Pt.5.1 "Technical features", P. 41.

6 Optional

The characteristics and operation of these optional accessories are described in the manuals, supplied as annexes, concerning requested controls, motor and automatic devices. Installation is described in the "Installer Manual".

The product can provide on request:

6.1 Safety devices

MOTORISED

- **WIND SENSOR:** automatically opens the awning in the event of strong wind. The set point for the wind sensor (anemometer) operation is recorded during the first-start procedure described in the Installer Manual.
- **RAIN GAUGE** automatically opens the awning in the event of prolonged rain. The set point for the rain gauge (pluviometer), which measures the amount of rain which has fallen in a given period of time, is recorded during the first-start procedure described in the Installer Manual.
- **TWILIGHT SENSOR:** when the ambient light level decreases, the electrical circuit automatically opens the awning.
- **EMERGENCY CRANK:** in the event of a power cut, it is possible to roll up the awning thanks to the presence of an emergency manual crank.
- **SHAKE SENSOR:** wireless sensor installed on awning front bar. Retract automatically an awning based on wind generated movements.



*· The protection systems may be ineffective in particular climatic conditions.
· The sensors should not be considered safety devices that can prevent damage to the product caused by strong wind (indeed a power cut would make it impossible to automatically wind up the blinds).
· The sensors are part of the automation system which helps protect the product and facilitates its use.
· The manufacturer does not accept responsibility for any material damage caused due to atmospheric effects not detected by the device sensors.*

6.2 Additional devices

- **BOX FRONT BAR:** the adoption of this optional, changes the wind resistance class of the product.
- **STRIP LIGHTING KIT**
- **HOOD**

7 Maintenance



· MAINTENANCE ON ELECTRICAL PARTS MUST ONLY BE PERFORMED BY QUALIFIED PERSONNEL

· All maintenance and cleaning operations must be performed with the electrical supply disconnected.
· There is the danger of deadly electrical charges over the course of the research or of the restoration of potential malfunctions in the electrical part.



· Before operating the structure, read instructions in Ch.Pt.2 "Safety", P. 33 carefully.
· The operations of assembly of the components, installation and first start of the product must only be performed by specialised and qualified technicians, and is the responsibility of the reseller and/or manufacturer.

7.1 Troubleshooting Table



All safety requirements must be followed in the event of faults or troubleshooting.

For faults and errors not listed in the following tables, contact Technical Support.

MANUAL AWNING

PROBLEM	CAUSES	SOLUTIONS
Fabric does not roll up evenly (forms cone)	Incorrect alignment of arms	Contact Technical Support
	Gust of wind	Unroll the fabric and eliminate any folds
The product closed/extended jerking, jamed or made a noisy movement	Incorrect alignment of arms	Contact Technical Support
	Impurities/obstructions in moving parts	Clean and lubricate any moving parts

MOTORISED AWNING

PROBLEM	CAUSES	SOLUTIONS
The product does not open/extend completely	Impurities/obstructions in moving parts	Clean and lubricate any moving parts
The product does not open/extend	Wiring error	Contact Technical Support
	Rain sensor operational	Wait until the rain stops
	Rain sensor faulty/with impurities	Contact Technical Support/remove any impurities
	Remote control battery flat	Replace the battery
Fabric does not roll up evenly (forms cone)	Incorrect alignment of arms	Contact Technical Support
	Gust of wind	Unroll the fabric and eliminate any folds
Squeaking noise during movement of the product	Impurities/obstructions in moving parts	Clean and lubricate any moving parts
	Incorrect alignment of arms	Contact Technical Support
The product closed/extended jerking, jamed or made a noisy movement	Wiring error/faulty motor	Contact Technical Support
	Impurities/obstructions in moving parts	Clean and lubricate any moving parts
	Incorrect alignment of arms	Contact Technical Support
The motor does not stop during the product opening/retracting phase	Incorrect programming	Contact Technical Support
Motor very noisy	Wiring error/faulty motor	Contact Technical Support
The motor stops after 4-5 minutes of continuous operation	Motor thermal cutout	Let the motor cool down
The product opens and closes on its own with a remote control system	Remote control battery flat	Replace the battery
	Anemometer/rain sensor operational	Wait for the wind/rain to stop
The product will not move	Remote control battery flat	Replace the battery
	Anemometer/rain sensor operational	Wait for the wind/rain to stop
	Lack of power supply	Connect the power supply
	Broken motor	Contact Technical Support
	Wiring error	Contact Technical Support
The product does not open or close fully	Incorrect programming	Contact Technical Support
	Anemometer/rain sensor operational	Wait for the wind/rain to stop

The product does not open/retract in case of strong wind/heavy rain	Faulty/unpowered rain sensor/ anemometer	Contact Technical Support
	Motor not correctly programmed	

7.2 Cleaning



All cleaning operations must be performed with the electrical supply disconnected.



· Using ladders, trestles or other similar equipment for cleaning must only be performed by specialised personnel, who must follow applicable health and safety legislation and use appropriate PPE such as safety harnesses etc.

· Do not use organic solvents - ammonia (nitrogen trihydride) - bleach (sodium hypochlorite) - hydrocarbons.



· Clean monthly, or when required.

· Qualified personnel are not required for ordinary cleaning operations.

· Avoid the use of abrasive products.

· Do not clean metal parts when they are hot or under sunlight.

· Clean the stainless-steel parts with a soft cloth and a spray with PTFE (teflon).



· Cleaning the fabric is essential to protect against the formation of mould due to dust or other material deposited on the fabric; this can be performed by vacuuming up the dust, or using a damp cloth or sponge with warm water.

· Dry the fabric after cleaning.



Clean properly the drain water holes, rain drains and gutters.



Cleaning of the aluminium components may be performed only with water and neutral detergent.

7.3 Scheduled maintenance



All maintenance operations must be performed with the electrical supply disconnected.



· Qualified personnel are not required for ordinary maintenance operations.

· The operations described below will keep the product in good condition if they are performed according to the indicated frequencies and timeframes.

TWO OR MORE TIMES A YEAR



· Check the cleanliness of the aluminium components.

· Check the installation and visually check whether there are any signs of wear or not. Contact Technical Support if necessary.



The fabric must be visually inspected to check whether there are any tears or ruptures in the stitches.



Lubricate all moving parts (pins, caps, hinged parts, chain ...).

YEARLY



Check that moving parts are operating correctly, contact Technical Support if necessary.

7.4 Extraordinary maintenance

A specialised technician must check the correct operation every two years.



- All extraordinary maintenance operations must be performed by qualified and trained personnel. Request specialist assistance from Technical Support.
- In the event of a potential dismantling of either the product or part of it, see the instructions of the assembly, the installation and the siting.
- Original spare parts must be used or the warranty shall lapse.



All maintenance operations must be performed with the electrical supply disconnected.



Requests for spare parts must be sent to your reseller.

THE PRODUCT WARRANTY WILL LAPSE IF SCHEDULED AND EXTRAORDINARY MAINTENANCE ARE NOT PERFORMED.

8 Transport and Installation

8.1 Transport

Transport and shipping shall be borne by the reseller and/or the manufacturer, who shall transport the product using adequate packages to protect it up until its delivery to the final customer.

Any damage to the product sustained during removal and subsequent handling and/or transport, performed after the initial installation, is not covered by warranty.

The packaging material must be disposed off and/or recycled according to the applicable local legislation.

8.2 Installation



- *Assembly of the components, installation and first start of the product must only be performed by specialised and qualified technicians, and is the responsibility of the reseller and/or manufacturer.*
- *It is recommended to use protective gloves so as not to damage the blinds.*

All the instructions and the main safety standards to perform these operations are described in the “Assembly Manual” and the “Installer Manual”.

The position chosen by the user for the installation of the product must provide adequate support as well as the space necessary for the structure to open fully (see “Installer Manual”).

9 Disassembly and Disposal



· *The product must be removed and disassembled by trained and qualified personnel, in compliance with health and safety legislation. Request specialist assistance from Technical Support.*



· *Operations must be performed with the product completely open/retract. Secure the tensioning parts.*

Cut the power supply to the system by disconnecting the circuit that supplies the switch, disconnect the motor, open the support brackets and remove the structure from them.

No materials considered hazardous have been used in the product; there are no particular instructions for its disposal or scrapping.

Follow applicable legislation in force when the product is removed for its disposal.

**BAT S.p.A.**

Via H.Ford - Z.I. Est
30020 Noventa di Piave
(VE) - Italia
T +39 0421 65672
F +39 0421 659007
www.batgroup.com
info@batgroup.com

BAT FRANCE SAS

4, Le Casse
33430 Bazas - France
T +33 05 56 65 23 32
F +33 05 56 65 18 92
www.batgroup.com
batfrance@batgroup.com

BAT USA CORP.

Head office
445 Bellvale Road
Chester, NY 10918
T +1 845 610 1139
F +1 845 610 1120
www.batgroup.com
info@batusa.us

BAT SCANDINAVIA

Kungsparksvägen 35
SE-434 39 Kungsbacka
T +46 300 688950
www.batgroup.com
info@batscandinavia.se

BAT ACCESSORI IBÉRICA, S.L.

Travesia Cuenca-3, núm.2
Pol. Ind. Camporosso
02520 Chinchilla de Monte Aragón
Albacete
T +34 967 261 779
F +34 967 261 584
www.batgroup.com
info@batiberica.es