Gibus®
THE SUN FACTORY

USE AND MAINTENANCE MANUAL
DECLARATION OF QUALITY
DECLARATION OF WARRANTY
DECLARATION OF PERFORMANCE DoP

MODEL

JOY

ISLAND VERSION, LEANING VERSION, WALL, SINGLE MODULE, COUPLED

CE | UKCA

ENG

MUT 104
Code 340401
Rev. 4
30/10/2022

Gibus S.p.A. Via Luigi Einaudi, 35 35030 Saccolongo (PD) - ITALY www.gibus.it - gibus@gibus.it

WARNING: carefully read all warnings and instructions in this manual and in the use and maintenance manual before carrying out any operation with the awning. Read in particular the chapter on safety.

Dear Customer,
thank you for choosing an awning by “Gibus”, we are pleased to deliver this manual in order to help you to use the product in the best possible way.

Please read carefully the recommendations described in the following pages and keep the manual at hand for the Gibus specialist who will be responsible for management and maintenance of the awning.

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IMPORTANT NOTE:
For the sake of simplicity, in this manual the product may be referred to as “pergola”, “awning” or “structure”.
The correct definition that identifies the product is “Drop Awning”, with a detailed description found in section 1.1 “Preliminary Information” and in Chapter 15 “Annexes”.

These instructions were translated from Italian (original language).

TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION

1.1 PRELIMINARY INFORMATION

Do not destroy and change, if needed just supplement with inserts published by the manufacturer. This manual refers to the product:

Type of awning:	Bioclimatic Pergola, isolated or leaning against the wall, for outdoor use.
Models:	JOY (ISLAND - LEANING VERSION - WALL)
Published:	Gibus S.p.A. via L. Einaudi, 35 - 35030 SACCOLONGO (PD) - ITALY http: www.gibus.it - e-mail: gibus@gibus.it
List of annexes:	Installation instructions - Motors and automatisms instructions - Delivery certificate.

Each operator and personnel in charge of the installation, adjustments, operation and maintenance of the Bioclimatic Pergola, must read very carefully this manual and observe the instructions given, the operator in charge of the installation and maintenance must also meet the qualification requirements for the use and maintenance of the Pergola.

IMPORTANT: The instruction manual is aimed at those who use the Bioclimatic Pergola, such as an installer, maintainer, owner or user and is the basis for the correct use and maintenance of the product. Addressed **to the installer** are the instructions for handling, unpacking, installation, adjustment and maintenance. Addressed **to the owner** are the instructions for proper use, maintenance and disposal, as well as the warranty. **This manual is an integral part of the product.** Keep it intact and in an easily accessible place for future reference and at hand for further consultation until the disposal of the Bioclimatic Pergola. In case of loss or destruction of the manual, the customer must request a new copy to his Retailer, providing the main data of the product and the destination of the new copy. When selling this manual must follow the Bioclimatic Pergola to its new destination. **The manual must always be available to the qualified installation, maintenance or control personnel for the necessary registration.** The Manufacturer reserves the right to update products and relevant manuals, with no obligation to update previous manuals.
This manual is the essential tool for maintaining the validity of the guarantee.

1.2 INSTRUCTIONS FOR USE

The instructions contained in this manual are intended for models:
- **JOY ISLAND**: Bioclimatic self-supporting stand-alone pergola with cover formed of a brise soleil with swinging metal blades, available in single or multi-module, with coupling modules.
- **JOY LEANING VERSION**: Bioclimatic wall-leaning pergola with cover formed of a brise soleil with swinging metal blades, available in single or multi-module, with coupling modules.
- **JOY WALL**: bioclimatic pergola applied to walls with cover formed of a brise soleil with swinging metal blades, available in single or multi-module, with coupling modules.

The instruction manual must be read and used in the following way:
- Read this manual carefully, and consider it an integral part of the Pergola;
- The instruction manual must be readily available for use by staff in charge of running and maintenance;
- Keep the manual for the entire service life of the Pergola;
- In case of sale deliver the manual to the new owner of the Pergola;
- Use the manual in such a way not to damage its content;
- In no case remove, tear or re-write any part of the manual;
- Keep the manual in a place protected from moisture and heat;
- If the manual is lost or partially damaged and then its complete content can no long be read, it is advisable to request a new manual to the manufacturer.

In the following pages pay close attention to the following symbols and their meaning. Their function is to highlight essential information such as:

WARNING: DANGER TO THE OPERATOR/USER In reference to dangerous situations that can occur with the use (including installation and maintenance) of the Pergola. Failure to comply with these messages may endanger the safety of persons and the product.

WARNING: In reference to dangerous situations that may occur due to the PRESENCE OF ELECTRICAL VOLTAGE. Failure to comply with these messages may endanger the safety of persons and the integrity of the product.

WARNING: In reference to dangerous situations that can occur with the use of the Pergola to prevent damage to objects and the Pergola itself.

IMPORTANT: Useful information and tips to be observed to ensure proper use and preservation of the Pergola. Failure to observe these messages can affect the integrity and / or resistance of the product.

1.3 REGULATIONS AND SELF-CERTIFICATION DOCUMENTATION

1.3.1 With reference to CE marking

This User's Manual was prepared in accordance as indicated in EN 13561 and and with section 1.7.4 of Annex 1 to Directive 2006/42/EC taking into account the normal use of the Pergola in order to inform, together with other instructions for use affixed to the pergola itself or in the installation instructions, the operators / users on residual risks that the products presents.
The Bioclimatic Pergola complies with the "Construction products regulations - CPR 305/2011" and the requirements given in the Annex ZA of the EN 13561, "assessment and inspection system for performance continuity type 4" (System 4).
If it is installed properly, it has a resistance to wind as shown in the technical data table in section 4, according to the size, in each case greater or equal than those required by the Class 4 of the UNI EN 13561 rule on "External awnings - Performance requirements including safety".
This Technical Classification ensures resistance to a wind that carries a maximum pressure rating of 170 [N/m^2] (Newton/m^2) similar to an wind insisting on the awning with a maximum speed of 60 [km / h] corresponding to the 7th level of the Beaufort Scale. The resistance to wind load was evaluated according to criteria related to those required by the UNI EN 13561 and UNI EN 1932 rules and from the technical standards in force, with the necessary safety margins.
The Pergola complies as well as the relevant parts of the Machinery Directive 2006/42/EC. The CE Mark together with wind resistance characteristics according to UNI EN 13561 and the self-certification document (Declaration of Performance DoP) are included in APPENDIX 0 and APPENDIX 1 on the last pages of this manual. The original Declaration of Performance DoP issued by the manufacturer is kept by Gibus S.p.A.

1.3.2 With reference to UKCA marking

This User's Manual was prepared according to EN 13561 and the "Supply of Machinery (Safety) Regulations 2008" taking into account the normal use of the awning and in order to inform the users/operators and provide them with the instructions to install the awning itself and warn users about the residual risks.
The awning complies with the relevant parts of "The Construction Products (Amendment etc.) (EU Exit) Regulations 2020" and offers, if it is properly installed, a resistance to a wind load as much as the resistance required by Class 4 of the EN 13561 rule on "External blinds" Performance requirements including safety".
The compliance with this Technical Classification ensures resistance to a wind that carries the maximum pressure rating of 170 [N/m^2] (Newton/m^2) similar to a wind against the awning with a maximum speed of 60 [km/h] corresponding to the 7th level of the Beaufort Scale. The resistance to wind load was evaluated according to criteria required by the UNI EN 13561 and UNI EN 1932 rules, with the necessary safety margins.
The awning complies the requirements in Annex ZA of the same EN 13561 regulations, where there is an "assessment and inspection system for performance continuity of type 4" (System 4).
The engine driven awning also complies with the relevant parts of the "Supply of Machinery (Safety) Regulations 2008".
The UKCA Marking as well as the wind resistance characteristics according to UNI EN 13561 and the self-certification document ("Declaration of Performance DoP") are included in the ANNEX 2 and ANNEX 3 attached to the last pages of this manual. The original of the "Declaration of Performance DoP" prepared by the manufacturer is filed at Gibus S.p.A.

1.4 RESPONSIBILITY

Gibus SpA is not liable and has no obligations for any accidents to persons or property, which may occur due to:
- Failure to follow the instructions in this manual regarding the installation, use and maintenance of the Pergola;
- Violent actions or mishandling in the installation, use and maintenance of the Pergola;
- Changes made to the Pergola without the prior written permission by Gibus SpA;
- Incidents in any case arising beyond the normal and correct use of the Pergola.

In any case, if the user thinks the cause of the incident is a defect of the Pergola, he will have to prove that the damage has been a consequence of such a “defect”.

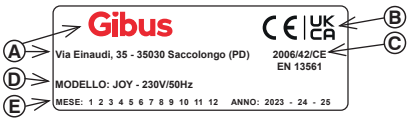
WARNING: For maintenance or repair to always use only original spare parts. Gibus SpA declines all responsibility for damages that may occur for non-compliance with the above instructions. The Pergola is guaranteed according to the contractual arrangement prepared at the time of sale. The warranty is in any case deemed void if the rules and instructions for use and maintenance contained in this manual were not followed.

Quick or careless preparation leads to improvisation, which is the cause of many accidents. Before starting the installation work and before commissioning of the Pergola, carefully read and observe the following tips:
- Program all operation with the utmost care;
- Be well aware of where and how it is provided for the use and maintenance of the Pergola;
- Strictly follow all warnings relating to special dangers listed in this manual;
- The maintainer must always have at hand the instruction manual;
- A constant and careful preventive maintenance will always ensure a high level of operating safety of the Pergola. Never postpone needed repairs and have them carried out only by qualified personnel, and use only original spare parts.

1.5 IDENTIFICATION OF THE PRODUCT AND TECHNICAL NAMEPLATE

Each model is identified by the adhesive technical nameplate showing the CE marking sign and contains the following data:

A Name and address of the registered office of the manufacturer.
B CE marking and/or UKCA marking.
C No of the European rule.
D Model of the awning and specifications.
E Year of manufacture.



Each Gibus awning and pergola is unique, individually recognisable and traceable due to the Gibus trademark 3D hologram with a unique alphanumeric serial number. All Gibus products are supplied with the hologram (see back cover). The hologram is applied near the CE marking.

CHAPTER 2: SAFETY REQUIREMENTS

The manufacturer is not liable for malfunctions and damage if the Pergola:
- Is used for purposes other than those for which it is intended to;
- Is not operated and maintained in accordance with the instructions specified in this manual;
- Is not subject to regular maintenance, as prescribed, or non-original spare parts are used for replacement.

IMPORTANT: For any doubt or unintended use, consult the authorized dealer or the manufacturer before installation.

2.1 PURPOSE AND INTENDED USES OF THE PERGOLA

The Bioclimatic Pergola was designed and made for protection from the sun and rain and it is meant to be used in civil constructions, residential and commercial buildings and other facilities for the community.
The Bioclimatic Pergola is not able to withstand snow load. Therefore should it snow, the blades must be placed vertically (open) before the snow settles on them.
It is advisable to use the snow sensor, temperature sensor combined with the rain sensor, to detect snow and prevent it depositing.
In all cases, do not stand under or near the pergola if any snow has deposited on it (*). Any other use is considered improper and inadequate and releases the manufacturer from all liability for any damage caused to persons or property.
The Bioclimatic Pergola offers, if properly installed, a resistance to wind load greater or equal than those required by the Class 4 of UNI EN 13561. It is therefore recommended the exposure to a wind exerting a maximum pressure of 170 Newton/sqm, corresponding to the load of a continuous wind speed not exceeding 60 km/h.
It is strictly required, for the sake of safety, to open the swinging metal blades vertically before the given limit is reached (even though the pergola offers much higher wind resistance depending on its size).

(*) The JOY structure is designed to withstand a static load from deposited snow of at least 60 kg/m^2 (without wind).

CAUTION: for safety reasons the brise soleil blades on the pergola must be placed vertically in case of wind exceeding the recommended maximum exposure, very strong rain, hail, snow and ice; it is very dangerous to leave blades placed horizontally in these cases, it can cause injury to persons and damage to property. Do not stand under or near the pergola if any snow has deposited on it.

(**) In the event of ice, it might be difficult to open the blades if they are in a horizontal position (i.e. closed).

IMPORTANT: In order to use the Pergola for purposes other than those described above, a specific permission given by the manufacturer is required. Failure to follow the conditions for proper use, voids any warranty given by the manufacturer.

2.2 USE ENVIRONMENT

The Pergola was designed and built to be used outside. It offers adequate protection of the electrical parts to water infiltration. The motors and the control units provides a degree of protection against moisture equal to at least **IP44**.

CAUTION: the engines cannot be used in atmospheres posing risk of explosion.

The Pergola can also be used outdoors or away from the wall of a building (intended use), provided that the system is degree of protection **IP55**.
It needs a 230V/50Hz power supply. Install an upstream electrical switch suitable to 230V/50Hz with magnetothermal and differential functions (see paragraph 6.2. “ELECTRIC CONNECTION”). The electrical switch should be placed in a protected position, in an easy to reach position, high from the ground and away from dangerous areas.

ATTENTION!: Corrosion resistance is not guaranteed in the event of immersion or sprays with salt water (sea storms, etc.). Also, with intense exposure to salty fog, incrustations or bubbles could appear in the connections or aluminium profiles and oxide or rust could appear on the stainless steel brackets. These conditions are not covered by warranty.

CAUTION: No person should install or place ladders or other fixed objects in such a way as to obstruct the movement of the blades.

2.3 STANDARD SAFETY DEVICES

Temperature sensor:
The sensor detects the temperature that could cause the freezing of the pergola slats. If it is under 2°C the alarm is activated, then the control unit moves the slats at the 66% of the opening. The alarm is off when the temperature is over 3°C.
The control unit performs just hold-to-run commands during the status of alarm, and resumes its normal operation when the alarm is not active anymore. By default the sensor is deactivated. Alarm priority: MEDIUM.

IMPORTANT: The temperature sensor can be activated by the remote control/set up transmitter. See the specific instructions of the control unit supplied with the accessory box.

2.4 OPTIONAL SAFETY DEVICES

Wireless wind sensor:
High priority sensor. Enabled by default. The anemometer detects the wind speed.
The alarm is present when the detected speed is over the set threshold. When the alarm is present, the control unit moves the pergola profiles up to 33% of their complete opening. The control unit does not execute any commands. The alarm does not activate when the sensor detects for 60 seconds that the speed is lower than the set threshold.

IMPORTANT: the wind sensor can’t be enabled/disabled from the remote control or control unit but only from the sensor itself. See the specific instructions of the sensor supplied with the accessory box.

Rain sensor:
When the sensor detects the rain and the alarm is activated, the device positions the slats of the pergola in closed position. The device doesn't perform any command during the status of alarm. The alarm is off when the sensor doesn't detect the presence of the rain for 20 seconds. By default the sensor is activated. Alarm priority: LOW.
Functioning of the system AFTER the rain alarm (Water draining):
Once the rain alarm is off, for the next 6 hours, as soon as a ctommand of automatic movement sent by transmitter is received, the control unit will move the slats to 33%, to allow the water draining. For 4 minutes the control unit will perform just hold-to-run commands, switching off the alarm status.

IMPORTANT: the rain sensor can be enabled/disabled from the remote control/ set up transmitter. See the specific instructions of the control unit supplied with the accessory box.

Snow condition (temperature sensor combined with rain sensor):
To manage the alarm related to the condition of snow it's necessary combine temperature sensor and rain sensor. The alarm is on when the temperature is under 2°C and the rain has been detected, then the control unit moves the slats at the 66% of the opening.
The alarm is off when the temperature is over 3°C or when there is no rain detection. The control unit performs just hold-to-run commands during the status of alarm, and resumes its normal operation when the alarm is not active anymore. By default the combination is deactivated.Alarm priority: MEDIUM.

IMPORTANT!: for further information about the control unit of motors and sensors as well as for specific information, see the instructions supplied with the control unit and sensors.

2.5 USER AND INSTALLER REQUIREMENTS

The normal use of the Bioclimatic Pergola is allowed to everyone, except those younger than 12 years. The installation of the Bioclimatic Pergola and of the electrical system, the adjustment of the Pergola and the setting of the engines limit switch, as well as maintenance must be performed by qualified personnel only. The installation of the Pergola adjustments must be performed strictly in accordance with the manufacturer's instructions provided in this manual and especially following the attached Installation Instructions referred to in the pertinent sections of this manual (Chap. 6 and Chap. 7).

2.6 RECOMMENDATIONS

In the manual and especially in the attached Installation Instructions referred to in the pertinent sections of this manual (Chap. 6 and Chap. 7), are listed **all instructions** for proper handling, storage, installation, use and maintenance of the Pergola, in compliance with the product standards and the "Machinery Directive" and to avoid harm to people or damage to the Pergola itself. Are also given instructions to perform properly both dismantling and disposal.

WARNING: The installation of the Pergola and its electrical connection, are only to be carried out by specialized and authorized staff.
Any operation on the electrical system must be carried out by trained personnel only. For any doubt or unintended use, consult the manufacturer before installation.

WARNING: The installation of the Pergola must be carried out in accordance with the instructions in this manual. A different installation could result in hazardous situations. In this regard see the sections "SAFE INSTALLATION" and "INSTRUCTIONS FOR PROPER INSTALLATION" and the installation instructions attached to this manual and inside the package.

WARNING: You can not alter or modify the Pergola. Any changes or modifications made without proper authorization by the manufacturer, relieves the latter from any liability for any damage that may result and void the warranty.

ATTENTION: it is strictly forbidden to carry out operations using open flames in the vicinity of the Pergola.

Recommendations to be taken in the presence of staff (only if staff is working under the structure):
- if the structure is installed as a stand-alone structure, assess the lighting hazard according to Law Decree 81/08 (in the Chapter III of Title III) by applying the technical reference regulations such as CEI EN 62305-2 (CEI 81-10/2).
- If the structure leans against an existing building, carry out the lighting hazard assessment again in accordance with Law Decree 81/08 (in chapter III of Title III) by applying the technical reference regulations such as CEI EN 62305-2 (CEI 81-10/2).

CHAPTER 3: TECHNICAL DESCRIPTION

The Bioclimatic Pergolas of the ***JOY*** line were designed and built according to the principles of constant innovation, impeccable workmanship and attention to detail by ***Gibus Total Quality***. A system of values designed to ensure complete customer satisfaction.
Gibus design interacts with nature to obtain maximum comfort and minimum energy waste. The bioclimatic cover solutions can regulate the microclimate of the environment underneath by creating natural ventilation. The aluminum blades that make up the cover are moved by a motorized system and can rotate from the horizontal closed position, which guarantees an excellent seal in case of rain, to the open position, according to an angle that varies from 0 to 120 degrees. The exposure to sun of the external side of the blades generates heat, which induces a natural convective movement of air from down to up through the blades. pleasant, refreshing breeze provides a comfortable environment without any mechanical intervention. Naturally and without energy consumption.
Adjusting the blades permits modulating the cooling effect and the sunlight that filters into the environment below, giving full control of the microclimate and one's own comfort. Even if it rains there is maximum protection because the blades have been designed to waterproof and permit the flow of water only through the appropriate gutters integrated into the structure columns (patented Side Seal). Naturally beautiful, efficient and reliable system that Gibus has developed, filing patents for the innovative technological content.
JOY ISLAND is a bioclimatic pergola made of moveable brise soleil aluminium blades and integrated in a special and dedicated self-supporting structure. It is installed in a stand-alone way and isolated from any building.
For the ***JOY LEANING VERSION***, the structure is dedicated and must be leaned against the wall of a building.
JOY WALL is installed attached to the wall of a building.
The cover is formed of openable and moveable metal blades. When it is sunny, open the blades to provide the required shade for improved outdoor comfort and a natural airflow that carries the hot air upwards. When it rains the closed blades offer protection and carry the water to the gutters incorporated in the supporting structure. The linear motor moves the blades by the remote control. The Pergola is equipped with several patented systems to facilitate and speed up the installation work and improve the performance of the product:

Gibus Patent® ***Side Seal***: a side holding system for the blades resting on a seal along the inside edge that provides isolation from the outside.

Gibus Patent® ***Quick Assembly***: Quick connection system of the supporting structure free from exposed fastening elements.

Gibus Patent® ***Blade Seal***: Blades sealing system.

3.1 STRUCTURAL AND MECHANICAL COMPONENTS

The Bioclimatic Pergola is formed of a self-supporting structure or attached to a wall, made from painted aluminium and with side self-supporting gutters, supporting legs measuring 130x130 mm and a cover formed of swinging brise soleil blades.
The couplings include stainless steel brackets, painted aluminium parts, stainless steel nuts and bolts. The linear actuators are activated by a radio-controlled system and they transmit the movement to the blades. The profiles, adjustable blades and the bearing structure are made of aluminium alloy EN AW 6060 UNI EN 573-03 UNI EN 755-2, treated with an anticorrosion treatment and thermosetting polyester powder paint. The plastic components are melted in fiberglass and nylon plastic. Stainless steel screws.

ATTENTION!: Corrosion resistance is not guaranteed in the event of immersion or sprays with salt water (sea storms, etc.). Also, with intense exposure to salty fog, incrustations or bubbles could appear in the connections or aluminium profiles and oxide or rust could appear on the stainless steel brackets. These conditions are not covered by warranty.

3.2 ELECTRICAL COMPONENTS

24VDC linear actuator motors move the blades of the Bioclimatic pergola and are controlled by a control unit that fits a 230VAC/24VDC feeder. The motors provide a maximum push or pull strength of 2000 [N], Protection class: IP66, Stroke length: 200 mm, noisiness level: max. 55 db (A), Operating temperature:
-15 °C ÷+55 °C. The control unit supplies and controls the motors and the LED lights. Control unit, 200- 240V~ +/-10% input, 24V DC +/-5% output, 140W - 240W max power, 868.3 MHz radio frequency, IP 55.

CAUTION: the power supply group has an electrical insulation of Class II. Don't ground the structure with the following attentions:

WARNING: the vertical side awnings have tubular motors with electrical insulation levels lower than class II. The bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

WARNING: even if there are accessories and parts powered at 230V/50Hz with an electrical insulation level lower than class II (for example, the heaters or snow melters), the bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

Upstream a magnetothermal and differential switch must be installed with the characteristics defined in the table below. If there is more than one output line from the pergola, each single line must be protected. Provide power cables as defined in the table below.

JOY Electric Features

Type	Bioclimatic pergola.		
Power supply	230 V (+10% +15%) 50Hz (*)		
Max. absorbed power	250 W (max. 1,5 A) for standard configuration modules (blade movement and Spot White lights). +max. 320 W with RYB leds +max. 600 W with antifreeze system Tot. max. 1200 W (5.2 A) Refer to the labels on the outputs on each single line. For the other accessories, refer to the power levels defined in the catalogue.		
Insulation class	Class II (the structure must not be earthed) for standard configuration modules (blade movement and Spot White lights and with RYB). Class I (the structure must be earthed) for standard configuration modules (tubular motors).		
Connection mode	by IP68 Male/female connector.		
Power cable (supplied by the customer)	YOU NEED a double insulated cable. Provide a cable: H07RN-F type with minimum formation dependent on power		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
up to 30 m	3G 1,5 mm^2	3G 2,5 mm^2	3G 4,0 mm^2
up to 50 m	3G 2,5 mm^2	3G 4,0 mm^2	3G 10,0 mm^2
Upstream protection (supplied by the customer)	Magnetothermal switch and differential switch with intervention current 0,03 A. Type of differential protection: A (**).		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
Magnetothermal switch features:	2 10A poles Curve C	2 16A poles Curve C	2 25A poles Curve C
Protection against overvoltage	None (provide the electric board with a suitable SPD protection system).		
Operating temperature	-20°C / +55°C		
Degree of protection	IP 54		

"(*): Or different depending on the place of installation.
(**): If there is more than one output line from the pergola, each single line must be protected.
In the case of antifreeze system, the differential must have an intervention current of 0.01A (dedicated line).
In case of Schuko socket, the differential must be of the AC type and the intervention current of 0.03A."

IMPORTANT: The instructions specific for engines and controls are supplied upon delivery of the Bioclimatic Pergola. These instructions must be read, annexed to this manual and keep in good condition for any subsequent consultation.

3.3 ELECTRONIC COMPONENTS OF THE AWNING (OPTIONAL)

Upon optional request the Bioclimatic Pergola can be managed electronically **in its functions with control of the weather conditions.** In this case, the Bioclimatic Pergola can be fitted with additional electronic sensors for wind, rain, temperature, and snow (see paragraph 2.3 and 2.4). **The type of electronic component used on the Pergola is indicated in the product chart.**

CAUTION: Never set the wind speed above the wind resistance of the awning itself (maximum threshold recommended for JOY brise soleil blades: 60 km/h).

IMPORTANT: The installation and maintenance instructions of the control units and sensors are attached to the control unit packages, which are delivered along with the Bioclimatic Pergola or placed in the accessory box. These instructions must be read, annexed to this manual and keep in good condition for any subsequent consultation.

3.4 NOISE LEVEL

The measured noise (sound pressure level) was less than 55 dB (A).

CHAPTER 4: TECHNICAL DATA

4.1 TYPE

JOY ISLAND (Basic Module)

With 4 legs:
Width up to 450 cm
Projection up to 610 cm

With 6 legs:
Width up to 450 cm
Projection up to 690 cm

JOY FRONTAL LEANING VERSION (Basic Module)

Tubular motor parallel to the wall

With 2 legs:
Width up to 450 cm
Projection up to 610 cm

With 4 legs:
Width up to 450 cm
Projection up to 690 cm

JOY LATERAL LEANING VERSION (Basic Module)

Tubular motor perpendicular to the wall

With 2 legs:
Projection up to 450 cm
Width up to 610 cm

With 3 legs:
Projection up to 450 cm
Width up to 690 cm

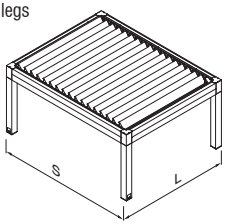
JOY WALL (Basic Module)

With 4 wall attachments:
Width up to 450 cm
Projection up to 610 cm

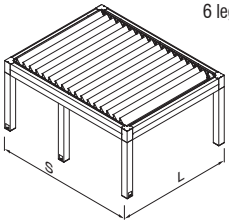
With 6 wall attachments:
Width up to 450 cm
Projection up to 690 cm

4.2 JOY ISLAND

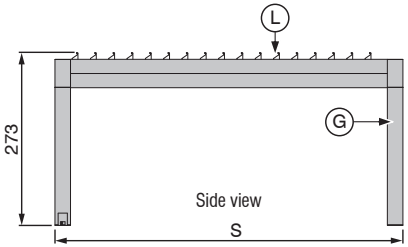
4 legs

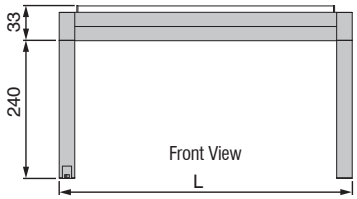


6 legs



ISLAND - SINGLE MODULE
4 LEGS max. L x S 4,50m x 6,10m
6 LEGS max. L x S 4,50m x 6,90m





1 Module		WIDTH "L" (cm)											G	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	210	182	192	202	212	222	231	241	251	261	271	280		9
	230	191	202	212	223	233	244	255	265	276	286	295		10
	250	200	211	223	234	245	256	268	279	290	301	310		11
	270	209	221	233	245	257	269	281	293	305	316	325		12
	290	218	231	243	256	269	281	294	306	319	332	340		13
	310	227	241	254	267	280	294	307	320	333	347	360		14
	330	236	250	264	278	292	306	320	334	348	362	375		15
	350	245	260	275	289	304	318	333	348	362	377	390		16
	370	254	270	285	300	316	331	346	361	377	392	405		17
	390	264	280	295	311	327	343	359	375	391	407	415		18
	410	275	292	308	325	342	358	375	391	408	425	435	4	19
	430	284	302	319	336	353	371	388	405	422	440	450		20
	450	293	311	329	347	365	383	401	419	437	455	470		21
	470	303	321	340	358	377	395	414	433	451	470	480		22
	470	312	331	350	369	389	408	427	446	466	485	495		23
	510	321	341	361	380	400	420	440	460	480	500	510		24
	530	330	350	371	392	412	433	453	474	494	515	525		25
	550	339	360	381	403	424	445	466	488	509	530	540		26
	570	348	370	392	414	436	458	480	502	524	546	555		27
	590	379	400	426	449	470	490	510	535	555	578	490		28
	610	389	412	436	459	482	505	529	552	575	598	610		29
	630	398	422	446	470	494	518	542	566	590	613	630		30
	650	407	432	456	481	506	530	555	579	604	629	640	6	31
	670	416	442	467	492	517	543	568	593	618	644	660		32
	690	425	451	477	503	529	555	581	607	633	659	670		33

Legend:
kg = Total pergola weight including the supporting structure and brise soleil blades.
G = Legs.
L = Brise soleil blades.

IMPORTANT: For each size the load shown in the table is still greater or equal than the one provided by Class 4 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 17 [kg/m²] or 170 [N/m²]).

Indicative Maximum vertical load [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
250	4	11	750	650	530	430	320	220
330		15	590	490	400	300	210	170
410		19	470	390	310	22	150	125
490		23	350	295	240	185	130	105
570		27	230	200	170	140	120	95
610		29	200	178	155	133	110	90
650	6	31	275	234	195	155	115	105
690		33	190	169	148	128	107	85

Snow load without wind [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
250	4	500	420	350	280	210	140	220
330		380	325	260	200	140	110	170
410		305	250	200	150	100	80	125
490		220	190	150	120	85	70	105
570		140	120	105	90	70	55	95
610		120	107	93	80	65	50	90
650	6	180	153	125	98	70	65	105
690		120	107	93	80	67	55	85

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

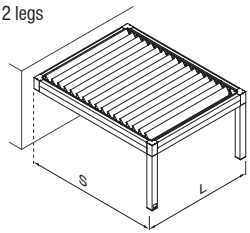
LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
210	4	9	170	145	125	110	90	71
250		11	152	134	116	99	81	66
290		13	142	125	108	90	73	61
330		15	132	115	99	82	66	56
370		17	122	106	90	74	58	51
410		19	112	98	83	68	53	48
450		21	102	90	77	64	51	46
490		23	92	82	71	60	49	44
530		25	82	74	65	56	47	42
570		27	72	66	59	52	45	39
610		29	68	62	56	50	43	37
610	6	29	82	74	65	56	47	42
650		31	70	62	54	49	44	35
690		33	65	59	54	46	43	34

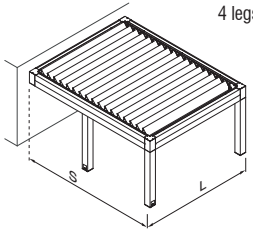
Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	450
210	4	9	140	120	105	88	72	54
250		11	125	111	97	82	68	53
290		13	117	104	91	78	66	52
330		15	109	97	86	75	63	51
370		17	100	90	81	71	61	50
410		19	92	84	75	66	58	48
450		21	84	76	69	62	55	47
490		23	75	69	64	58	52	45
530		25	67	62	58	53	49	44
570		27	59	55	52	49	45	42
610		29	55	52	49	47	44	40
610	6	29	67	62	58	56	55	55
650		31	53	53	54	54	49	45
690		33	49	49	49	45	43	40

4.3 JOY FRONTAL LEANING VERSION

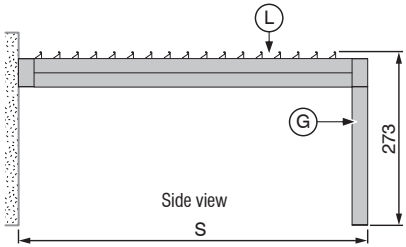
2 legs

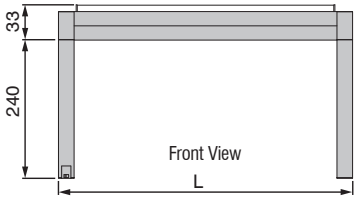


4 legs



FRONTAL LEANING VERSION SINGLE MODULE
2 LEGS max. L x S 4,50m x 6,10m
4 LEGS max. L x S 4,50m x 6,90m





1 Module		WIDTH "L" (cm)											G	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	210	160	170	180	190	200	209	219	229	239	249	260	2	9
	230	169	180	190	201	211	222	233	243	254	264	275		10
	250	178	189	201	212	223	234	246	257	268	279	290		11
	270	187	199	211	223	235	247	259	271	283	294	305		12
	290	196	209	221	234	247	259	272	284	297	310	320		13
	310	205	219	232	245	258	272	285	298	311	325	335		14
	330	214	228	242	256	270	284	298	312	326	340	350		15
	350	223	238	253	267	282	296	311	326	340	355	365		16
	370	232	248	263	278	294	309	324	339	355	370	380		17
	390	242	258	273	289	305	321	337	353	369	385	395		18
	410	253	270	286	303	320	336	353	369	386	403	415		19
	430	262	280	297	314	331	349	366	383	400	418	430		20
	450	271	289	307	325	343	361	379	397	415	433	445		21
	470	281	299	318	336	355	373	392	411	429	448	460		22
	470	290	309	328	347	367	386	405	424	444	463	475		23
	510	299	319	339	358	378	398	418	438	458	478	490		24
	530	308	328	349	370	390	411	431	452	472	493	505		25
	550	317	338	359	381	402	423	444	466	487	508	520		26
	570	326	348	370	392	414	436	458	480	502	524	535		27
	590	357	378	404	427	448	468	488	513	533	556	465		28
	610	367	390	414	437	460	483	507	530	553	576	590		29
	630	376	400	424	448	472	496	520	544	568	591	600	4	30
	650	385	410	434	459	484	508	533	557	582	607	615		31
	670	394	420	445	470	495	521	546	571	596	622	630		32
	690	403	429	455	481	507	533	559	585	611	637	650		33

Legend:
kg = Total pergola weight including the supporting structure and brise soleil blades.
G = Legs.
L = Brise soleil blades.

IMPORTANT: For each size the load shown in the table is still greater or equal than the one provided by Class 4 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 17 [kg/m²] or 170 [N/m²]).

Indicative Maximum vertical load [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
250	2	11	900	680	550	400	320	240
330		15	750	600	500	350	260	200
410		19	580	480	380	280	190	180
490		23	420	350	290	220	160	130
570		27	250	220	190	160	130	110
610		29	210	188	165	143	120	100
650	4	31	340	290	237	189	140	125
690		33	200	170	148	128	107	86

Snow load without wind [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
250	2	11	600	440	350	280	200	160
330		15	500	400	320	240	160	120
410		19	390	320	250	180	120	90
490		23	280	235	190	145	100	80
570		27	170	150	120	105	85	70
610		29	140	125	110	95	80	60
650	4	31	222	190	160	128	95	85
690		33	120	107	93	80	65	55

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

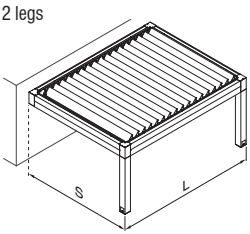
LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
210	2	9	190	163	142	122	101	82
250		11	171	151	131	111	91	75
290		13	159	139	120	100	80	69
330		15	147	127	108	89	70	62
370		17	134	116	97	78	60	55
410		19	122	105	88	71	53	50
450		21	110	95	81	66	51	48
490		23	98	86	74	61	49	45
530		25	86	76	67	57	47	42
570		27	74	66	59	52	45	40
610		29	68	62	56	50	44	38
610	4	29	88	80	71	62	54	45
650		32	79	68	57	46	42	38
690		33	69	62	55	45	40	34

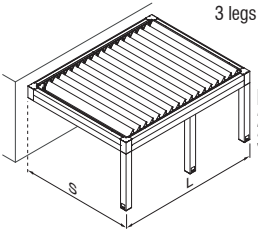
Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	450
210	2	9	230	203	178	152	126	100
250		11	211	188	164	141	118	94
290		13	193	172	151	130	109	89
330		15	176	157	138	119	101	83
370		17	158	141	125	109	92	77
410		19	140	126	112	98	84	72
450		21	122	111	99	88	77	66
490		23	104	95	87	78	69	61
530		25	86	80	74	68	61	56
570		27	70	65	61	57	50	45
610		29	60	57	55	52	45	40
610	4	29	70	70	68	68	68	65
650		32	61	62	62	62	62	45
690		33	55	55	55	49	45	40

4.4 JOY LATERAL LEANING VERSION

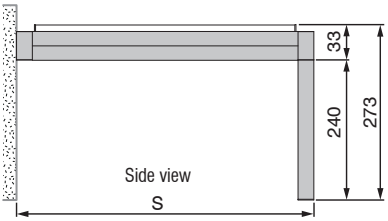
2 legs

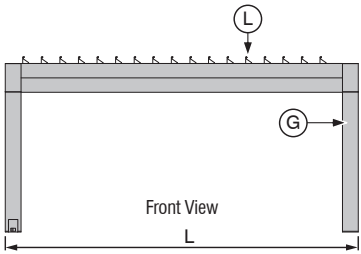


3 legs



LATERAL LEANING VERSION SINGLE MODULE
2 LEGS max. S x L 4,50m x 6,10m
3 LEGS max. S x L 4,50m x 6,90m





1 Module		WIDTH "L" (cm)											G	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	210	160	170	180	190	200	209	219	229	239	249	260	2	9
	230	169	180	190	201	211	222	233	243	254	264	275		10
	250	178	189	201	212	223	234	246	257	268	279	290		11
	270	187	199	211	223	235	247	259	271	283	294	305		12
	290	196	209	221	234	247	259	272	284	297	310	320		13
	310	205	219	232	245	258	272	285	298	311	325	335		14
	330	214	228	242	256	270	284	298	312	326	340	350		15
	350	223	238	253	267	282	296	311	326	340	355	365		16
	370	232	248	263	278	294	309	324	339	355	370	380		17
	390	242	258	273	289	305	321	337	353	369	385	395		18
	410	253	270	286	303	320	336	353	369	386	403	415		19
	430	262	280	297	314	331	349	366	383	400	418	430		20
	450	271	289	307	325	343	361	379	397	415	433	440		21
	470	281	299	318	336	355	373	392	411	429	448	460		22
	470	290	309	328	347	367	386	405	424	444	463	475		23
	510	299	319	339	358	378	398	418	438	458	478	490		24
	530	308	328	349	370	390	411	431	452	472	493	505		25
	550	317	338	359	381	402	423	444	466	487	508	520		26
	570	326	348	370	392	414	436	458	480	502	524	535		27
	590	357	378	404	427	448	468	488	513	533	556	565		28
	610	367	390	414	437	460	483	507	530	553	576	585		29
	630	376	400	424	448	472	496	520	544	568	591	600	3	30
	650	385	410	434	459	484	508	533	557	582	607	615		31
	670	394	420	445	470	495	521	546	571	596	622	630		32
	690	403	429	455	481	507	533	559	585	611	637	645		33

Legend:
kg = Total pergola weight including the supporting structure and brise soleil blades.
G = Legs.
L = Brise soleil blades.

IMPORTANT: For each size the load shown in the table is still greater or equal than the one provided by Class 4 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 17 [kg/m²] or 170 [N/m²]).

Indicative Maximum vertical load [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
250	2	11	900	800	700	550	420	270
330		15	770	660	560	450	340	230
410		19	620	530	450	360	280	200
490		23	460	400	340	280	220	160
570		27	300	265	230	195	160	120
610		29	260	230	200	175	150	110
650	3	31	290	260	225	195	170	130
690		33	190	170	150	130	100	80

Snow load without wind [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
250	2	11	650	550	460	370	270	175
330		15	510	440	370	300	220	150
410		19	410	350	300	240	185	130
490		23	300	260	220	180	140	105
570		27	190	170	150	130	105	80
610		29	170	150	130	110	90	70
650	3	31	220	200	170	150	120	100
690		33	120	110	100	90	80	60

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

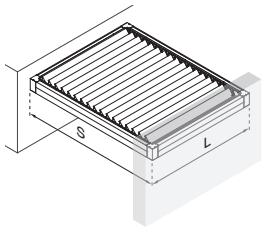
LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
210	2	9	250	230	202	167	133	100
250		11	250	219	187	155	124	92
290		13	231	202	173	144	115	86
330		15	210	184	158	132	106	80
370		17	190	167	144	120	97	74
410		19	170	150	129	109	88	68
450		21	150	132	114	97	79	61
490		23	130	115	100	85	70	55
530		25	110	98	85	73	65	49
570		27	90	80	71	62	52	43
610		29	80	71	64	56	48	40
610	3	29	116	102	89	76	63	50
650		32	99	88	77	67	55	43
690		33	82	74	66	57	45	35

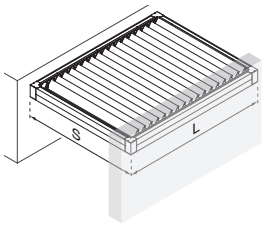
Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	450
210	2	9	250	220	190	165	140	110
250		11	235	207	180	155	130	100
290		13	215	192	168	145	120	95
330		15	200	178	156	135	115	90
370		17	182	163	144	125	105	85
410		19	165	149	132	116	100	83
450		21	148	134	120	107	95	80
490		23	130	120	109	97	86	75
530		25	115	105	97	88	79	70
570		27	97	91	85	79	72	60
610		29	88	83	79	74	68	50
610	3	29	170	155	140	120	100	80
650		32	140	128	115	100	80	70
690		33	100	90	80	70	50	40

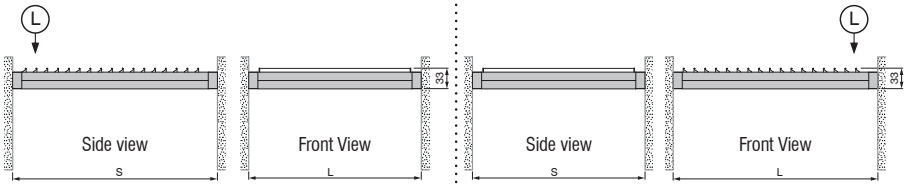
4.5 JOY WALL

FRONTAL LEANING VERSION
(4/6 wall attachments)



LATERAL LEANING VERSION
(4/6 wall attachments)





1 Module		WIDTH "L" (cm)											AP	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	210	160	170	180	190	200	209	219	229	239	249	260	4	9
	230	169	180	190	201	211	222	233	243	254	264	275		10
	250	178	189	201	212	223	234	246	257	268	279	290		11
	270	187	199	211	223	235	247	259	271	283	294	305		12
	290	196	209	221	234	247	259	272	284	297	310	320		13
	310	205	219	232	245	258	272	285	298	311	325	335		14
	330	214	228	242	256	270	284	298	312	326	340	350		15
	350	223	238	253	267	282	296	311	326	340	355	365		16
	370	232	248	263	278	294	309	324	339	355	370	380		17
	390	242	258	273	289	305	321	337	353	369	385	395		18
	410	253	270	286	303	320	336	353	369	386	403	415		19
	430	262	280	297	314	331	349	366	383	400	418	430		20
	450	271	289	307	325	343	361	379	397	415	433	445		21
	470	281	299	318	336	355	373	392	411	429	448	460		22
	470	290	309	328	347	367	386	405	424	444	463	475		23
	510	299	319	339	358	378	398	418	438	458	478	490		24
	530	308	328	349	370	390	411	431	452	472	493	505		25
	550	317	338	359	381	402	423	444	466	487	508	520		26
	570	326	348	370	392	414	436	458	480	502	524	535		27
	590	357	378	404	427	448	468	488	513	533	556	465		28
	610	367	390	414	437	460	483	507	530	553	576	590		29
	630	376	400	424	448	472	496	520	544	568	591	600	6	30
	650	385	410	434	459	484	508	533	557	582	607	615		31
	670	394	420	445	470	495	521	546	571	596	622	630		32
	690	403	429	455	481	507	533	559	585	611	637	650		33

Legend:
kg = Total pergola weight including the supporting structure and brise soleil blades.
AP = Wall fixing.
L = Brise soleil blades.

IMPORTANT: For each size the load shown in the table is still greater or equal than the one provided by Class 4 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 17 [kg/m²] or 170 [N/m²]).

Indicative Maximum vertical load [kg/m²]								
"L" / "S"	AP	L	200	250	300	350	400	450
250	4	11	900	680	550	400	320	240
330		15	750	600	500	350	260	200
410		19	580	480	380	280	190	180
490		23	420	350	290	220	160	130
570		27	250	220	190	160	130	110
610		29	210	188	165	143	120	100
650	6	31	340	290	237	189	140	125
690		33	200	170	148	128	107	86

Snow load without wind [kg/m²]								
"L" / "S"	AP	L	200	250	300	350	400	450
250	4	11	600	440	350	280	200	160
330		15	500	400	320	240	160	120
410		19	390	320	250	180	120	90
490		23	280	235	190	145	100	80
570		27	170	150	120	105	85	70
610		29	140	125	110	95	80	60
650	6	31	222	190	160	128	95	85
690		33	120	107	93	80	65	55

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"L" / "S"	AP	L	200	250	300	350	400	450
210	4	9	190	163	142	122	101	82
250		11	171	151	131	111	91	75
290		13	159	139	120	100	80	69
330		15	147	127	108	89	70	62
370		17	134	116	97	78	60	55
410		19	122	105	88	71	53	50
450		21	110	95	81	66	51	48
490		23	98	86	74	61	49	45
530		25	86	76	67	57	47	42
570		27	74	66	59	52	45	40
610		29	68	62	56	50	44	38
610	6	29	88	80	71	62	54	45
650		32	79	68	57	46	42	38
690		33	69	62	55	45	40	34

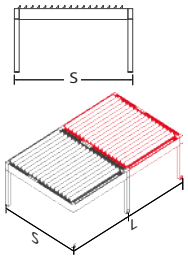
Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"L" / "S"	AP	L	200	250	300	350	400	450
210	4	9	230	203	178	152	126	100
250		11	211	188	164	141	118	94
290		13	193	172	151	130	109	89
330		15	176	157	138	119	101	83
370		17	158	141	125	109	92	77
410		19	140	126	112	98	84	72
450		21	122	111	99	88	77	66
490		23	104	95	87	78	69	61
530		25	86	80	74	68	61	56
570		27	70	65	61	57	50	45
610		29	60	57	55	52	45	40
610	6	29	70	70	68	68	68	65
650		32	61	62	62	62	62	45
690		33	55	55	55	49	45	40

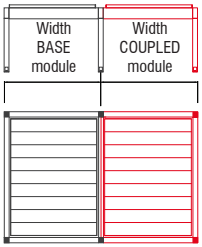
4.6 COUPLING MODULE

The coupling module enables multiplying the number of spans on the pergola, to form a continuous pergola. The coupled modules share the intermediate uprights.
The coupling units can be placed laterally or head on to the basic module; it is possible to couple one or more modules. The drawings shown below are just an example.

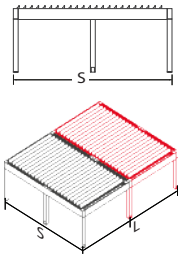
JOY ISLAND WITH COUPLING MODULE TYPE 1 COUPLING

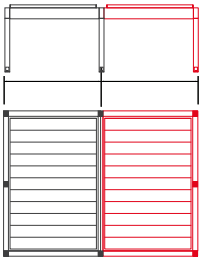
Up to 610 cm.





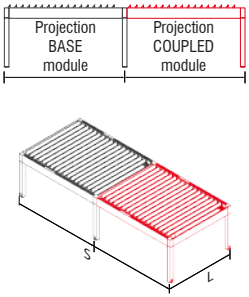
From 610 cm to 690 cm.

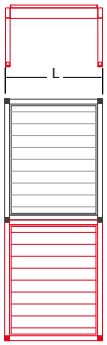




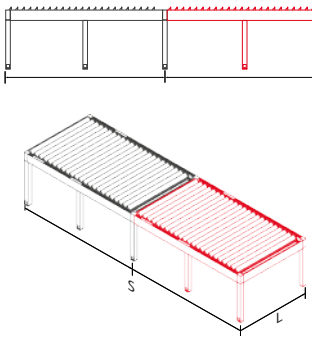
JOY ISLAND WITH COUPLING MODULE TYPE 2 COUPLING

Up to 610 cm.



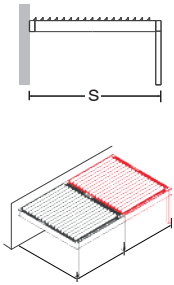


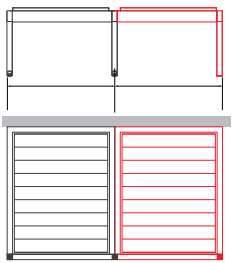
From 610 cm to 690 cm.



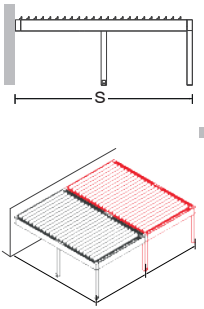
JOY FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING

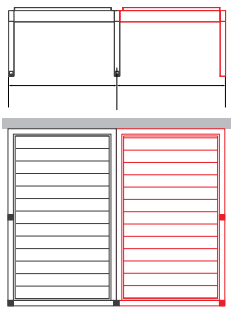
Up to 610 cm.





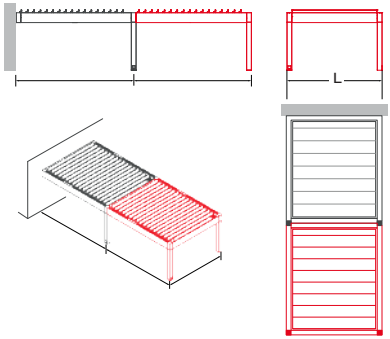
From 610 cm to 690 cm.



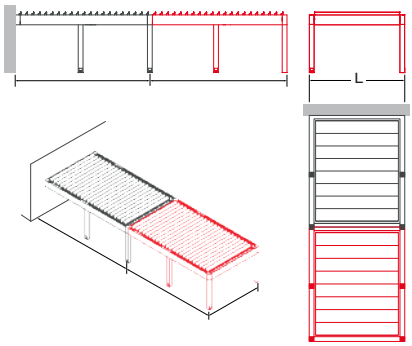


JOY FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING

Up to 610 cm.

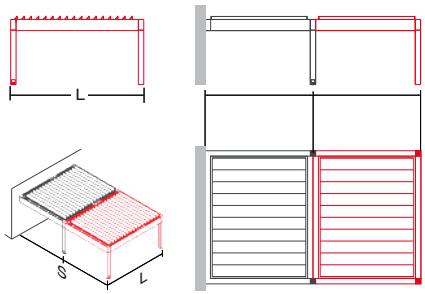


From 610 cm to 690 cm.

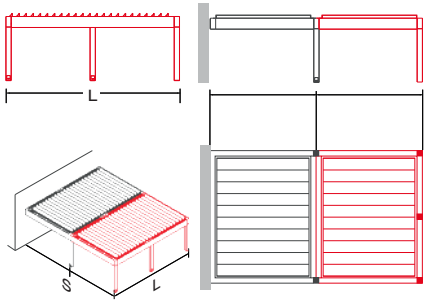


JOY LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING

Up to 610 cm.

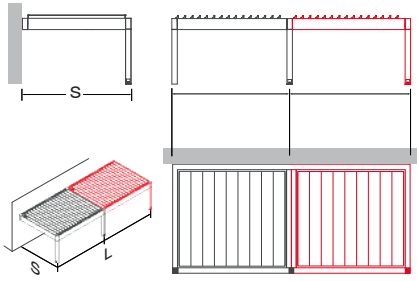


From 610 cm to 690 cm.

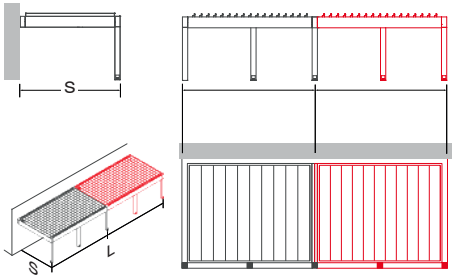


JOY LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING

Up to 610 cm.



From 610 cm to 690 cm.



CHAPTER 5: PACKING, HANDLING AND TRANSPORTATION

The Bioclimatic Pergola is packed with Nylon film and polystyrene in double walled corrugated cardboard boxes with reinforced corners to protect the product and lock the parts in place during transport.The components are packed in several parcels given the size and weight of the product (see technical table Chap. 4). The weight of each package can be high, the result is the need for manual handling in two or more persons whenever the weight exceeds 25 kg.
In order to facilitate transport by operators, check the weight of the Pergola depending on its size shown in the tehcnical table on Chapter 4.

Product integrity must be preserved until delivery to the end customer.
For transportation to the customer's premises by the Retailer and / or Manufacturer, it is required prevent scratches to the structure Damage to the product caused by the dismantling of the awning and subsequent handling and / or transportation performed after installation, are not covered by warranty. To avoid hazardous situations observe the following safety requirements:

ATTENTION: Due to the size and weight of the Pergola and of each individual packaging, make sure that for handling a sufficient number of people is available, so that the weight to be loaded by each person is not more than 25 kg in the case of manual handling (in this regard, check the weight of the Pergola depending on its size in the technical tables on Chapter 4).

CAUTION: Do not store packages in an upright position, or leave them unattended in the area of installation if the Pergola is not yet installed; avoid leaving them unattended in the presence of children. Do not store the pergola in all or part of its packaging, outside in the case of bad weather (rain).

ATTENTION: Keep out of reach of children packaging materials, they can be a source of danger to them. In particular, the Nylon film with "bubble barrier effect" could be used so as to cause suffocation.

WARNING: If the Pergola is to be mounted on a higher surface than the ground, it is necessary to define and supervise the area during the ascent to the awning, so that no one stands at any time under the suspended load. Securely fasten the packages of the awning in order to prevent it from falling.

IMPORTANT: unpack using scissors with rounded tips in order not to damage aluminium painting, do not use cutters. The packaging material should be disposed of or recycled in accordance with the regulations in force in the Country of destination of the product.

CHAPTER 6: SAFE INSTALLATION

IMPORTANT: The installation must be performed in full compliance with the installation instructions and safety rules in force in mobile sites. Be especially careful when working at height.

The installation isn't usually performed directly by staff from ***Gibus S.p.A.*** but by installers appointed by the authorized dealer, buyer or customer. The client is responsible under the law to entrust the installation to an expert staff, complying to the installation rules listed in this manual. In particular follow the "Instructions for proper installation" in Chapter 7. At the time of installation arrange all the tools mentioned on the first pages of the "Installation Instructions - JOY line". If installers are more than one, it is necessary to appoint an operations co-ordinator.

WARNING: Before use, check that the staging, scaffoldings, ladders and all personal protective equipment, especially when working at height (harnesses, safety belts, etc..), comply with the requirements of the current law on safety and are all in good conditions.

Operators must act in accordance with the safety instructions received. Use suitable sling devices and provided PPE.

6.1 MECHANICAL STRUCTURE

WARNING: Improper installation can result in bodily injury. Read and carefully follow the installation instructions (provided with this manual) to properly secure the structure, so avoiding any risk of falls. At the time of installation arrange all the tools mentioned on the first pages of the "Installation Instructions - JOY line".

WARNING: Check the status of the structure's housing and fixing site before installing and anchoring the structure to the floor and wall plates.

WARNING: If during installation any structural failures of the seat is noticed (the absence of the requirements for anchors fixing or other) the installers are required to provide evidence of this condition to the customer and notify the failure of the housing site in the section "Installation Notes" on paragraph 14 of this manual. If the minimum requirements are not satisfied, use other technical solutions, such as preparing a suitable foundation plinth for each floor plate or use internal counter-brackets or chemical expansion bolts until the wall is suitable for the installation.

WARNING: the choice of anchors depends on the type and condition of the housing site.

The instructions on the installation are described in annex "Installation Instructions".

6.2 ELECTRICAL CONNECTIONS

WARNING: all electrical connections must be made only by professionally qualified and trained staff, with the power supply cut off (disconnected) and in accordance with the regulations in force. The product needs a 230V/50Hz power supply. The power pack on the bioclimatic pergolas has Class II electric insulation level for standard configuration modules: Blade movement and Spot White lights and RYB. **Therefore the structure must not be earthed.** However there is Class I electric insulation when the optionals and accessories are installed: side drop awnings, antifreeze system or heaters. In this case (Class I) **the structure must be earthed.**

WARNING: the vertical side awnings have tubular motors with electrical insulation levels lower than class II. The bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

WARNING: even if there are accessories and parts powered at 230V/50Hz with an electrical insulation level lower than class II (for example antifreeze system or snowmelt system or heaters applied directly to the pergola), the bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

The final implementation of the electrical system must be strictly carried out by a qualified electrician. Also the technical choices carried out to implement the electrical connections fall within his competence. Below are the guidelines that should be carefully considered by the installer who will be charged with the costs of such operating decisions.
Instructions for qualified electrical installers:

IMPORTANT: The electrical system must be carried out according to UNI EN 60335-1 and 2 or subsequent, in force at the time of installation. The degree of protection of the electrical must be **at least IP55**. **Install an upstream electrical switch suitable to 230V/50Hz with magnetothermal and differential functions and the features indicated in the table in paragraph 3.2.**

WARNING: The switch shall have at least an **IP54** degree of protection if mounted outside the area accessible to third parties, the degree of protection can be **IP40** if the switch is mounted inside or in areas not accessible to third parties. The switch must be fixed in a place from where the awning is visible, out of dangerous areas (moving parts) and at a height from the ground that complies with the regulations in force.

IMPORTANT! Check that the mains voltage is 230 V - 50 Hz.
Standard equipment is meant to be connected to 230v/50Hz electrical mains; for the installation in countries with different features please specify the requirements when you place the order! **The electrical supply cable must be of double insulation type. Provide a cable with the features indicated in the table in paragraph 3.2.**

WARNING: if the Pergola is installed at a height from the walkable floor lowest than 2,30 m in its lowest travel point, **it is necessary to use the "man present" control.**

IMPORTANT! The wiring diagrams and installation instructions for the use of electronic control units are annexed to the control units themselves and should accompany this manual along with the Installation Instructions and be carefully stored for subsequent consultations.

6.3 RADIO CONTROL

The radio control is a multi-channel UHF (Ultra high frequency) band transmitter for private use, automatic opening, ON/OFF control or light dimming, etc. The transmitted signal provides the rolling code to guarantee secrecy. Carrier wave frequency: 868.3 MHz. Operating temperature: -10° +55°.
The 6 channel/42 position version is given as an example.

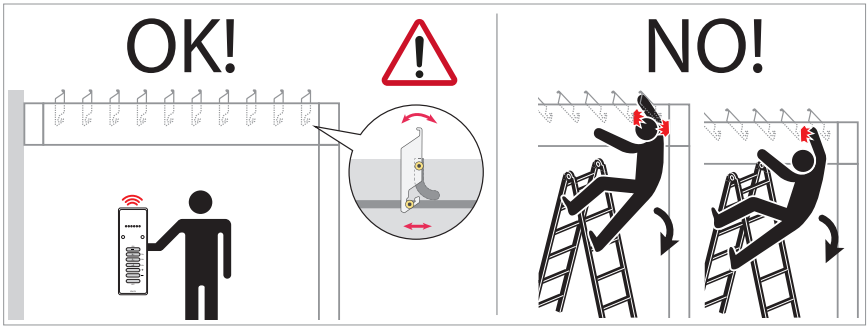
The transmitter is already matched to the motor control unit for the Bioclimatic Pergola. The motor control unit is stored in the transmitter channel/group 1.

CHAPTER 7: INSTRUCTIONS FOR PROPER INSTALLATION

WARNING: the operations for installation and start-up must be performed only by professionally qualified and trained staff, in accordance with the regulations in force.

IMPORTANT: To properly set up the Pergola, follow the "Installation Instructions" attached to this manual and included in the accessory box or in another part of the package.

WARNING: the adjustment must be made under safe conditions. There is a residual risk of crushing/shearing and trapping your fingers, hands or head; therefore, position yourself outside of the dangerous area.
In particular, in order to avoid the risk of crushing/shearing injuries, do not put any part of the body between the adjustable blades or between the adjustable blades and parts of the fixed housing structure (guttering, etc.). This is extremely important when blades are moving.



CAUTION: The installation includes always several motors with remote control. Follow the "Installation Instructions" attached to this manual or enclosed in the accessory box or part of the packaging.

IMPORTANT: after installation the declaration for proper installation must be compiled by the installer (Sec. 14 par. 1).

CHAPTER 8: OPERATION AND USE OF THE PERGOLA

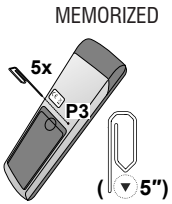
WARNING FOR THE USER: Pay attention to the signs placed in dangerous areas. Before operating the Pergola carefully read the Chap. 2 “SAFETY PRECAUTIONS” Use the Bioclimatic Pergola only as a protection against the sun, rain and for the purposes described in this manual (see chap. 2.1 “PURPOSE AND INTENDED USES OF THE PERGOLA”).

WARNING: Before operating the Bioclimatic pergola, check that there are no persons or objects that prevent the brise soleil blades from opening or closing (especially when snow is on the top of them).
Make sure there is nothing between the adjustable blades and the side gutters and blades. There could be a residual risk of crushing or trapping fingers (see the figure in Chapter 7).

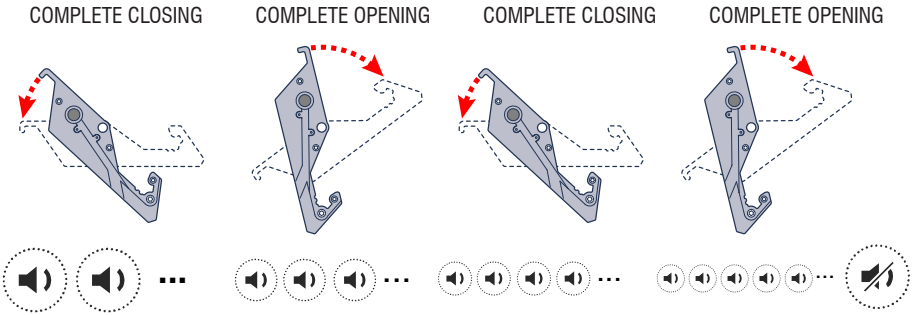
Follow the previous paragraph instructions of this manual and the attached Installation Instructions to commission the pergola.

The method to manage the motors and the transmitter (radio control) have been already set up at the factory. **After the electrical connection, match the limits from the transmitter without entering the control unit.**

Test the movement and the motor direction by using the already set up transmitter; **press it 5 times and keep the key P3 of the transmitter pressed for 5 seconds.**



THE BLADES WILL MAKE THE FOLLOWING MOVEMENTS:



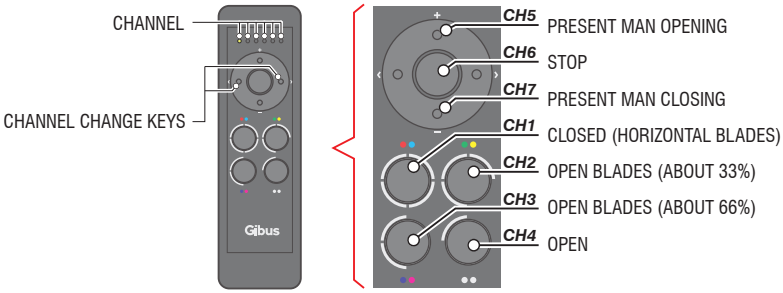
Wait for a few minutes and then the bioclimatic pergola is ready to be used.

IMPORTANT!: the wind and rain sensors, if any, have already been set up at the factory. Position them properly and set the thresholds according to the instructions given in the sensor boxes. For the other sensors, follow the specific installation instructions.

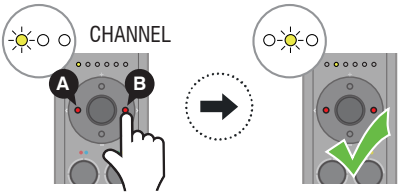
The bioclimatic pergola can be opened and closed using a portable or wall fixed remote control (see paragraph 6.3), the bioclimatic pergola must only be activated from a position that gives a full viewpoint of the blade movement.

IMPORTANT! The characteristics and operation of the drive systems are described in the manuals herein attached, related to the engine, to the automatisms and commands required.

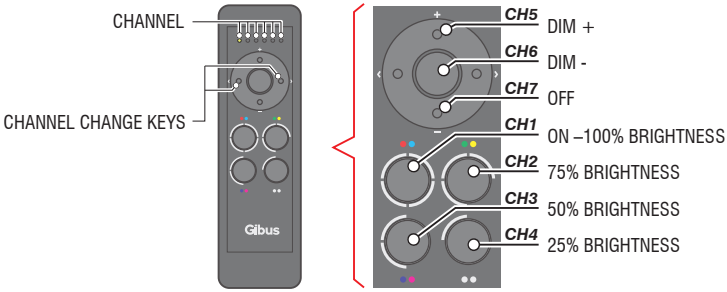
CHANNEL TRANSMITTER WITH PROGRAMMED CHANNEL FOR THE MOTOR
NOTE: The 6 channel/42 position version is given as an example



6-CHANNEL MODE: The 6 LEDS indicate 6 command groups. **Press the keys to change channel "A" or "B" of the transmitter to switch from one channel to another.** The selection remains in memory, even with the transmitter off, until the next change. It is sufficient to press a key of any channel to reactivate the last selection.



TRANSMITTER WITH PROGRAMMED CHANNEL FOR BLADE SPOT LEDS
NOTE: The 6 channel/42 position version is given as an example

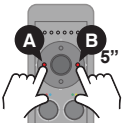


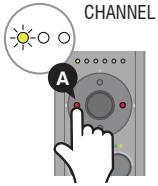
The intensity level of the led light is 25% when the motor is operating.

MULTI-TRANSMITTER MODE (UP TO 9 CHANNELS)

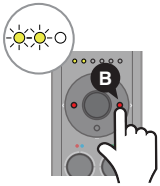
The multi-transmitter mode is necessary when the pergola has more than 6 complements / accessories to associate.

It is possible to activate 3 more control groups in addition to the 6: make sure that the LEDs are off; after which press and hold the two buttons “A” AND “B” simultaneously for 5”. The LEDS will turn on in sequence from 6 to 1, and then stay on for a few seconds.





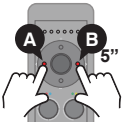
KEY “A”: 1÷6 CHANNELS



KEY “B”: 7÷9 CHANNELS

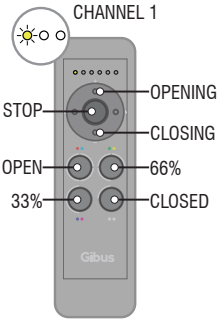
With this function activated, **press the key “A” of the transmitter to manage the standard groups from 1 to 6 (for each channel the corresponding led comes on).**
Press the key “B” of the transmitter to manage additional groups from 7 to 9 (a couple of leds turn on each channel).

To deactivate the 3 groups, simply press and hold the two “A” AND “B” buttons simultaneously for 5”. The numbers will turn on in sequence from 6 to 1, and then stay on for a few seconds.

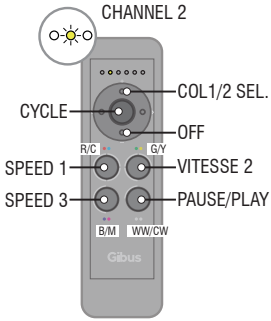


EXAMPLES OF TRANSMITTER WITH PROGRAMMED CHANNELS:

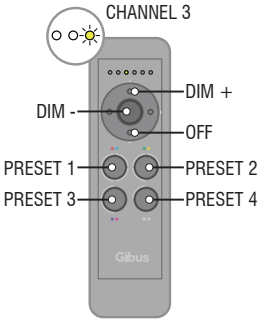
PERGOLA COMMANDS



RGB DIMMER COMMANDS



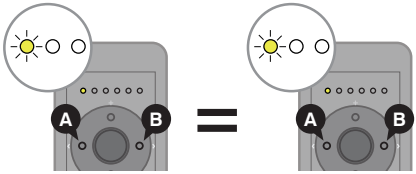
DIMMER COMMANDS



In the multi-module versions the commands can be independent (one same command is programmed in each single module and consequently associated with multiple channels), or synchronized (the command is associated with a same channel to manage all modules simultaneously).

SET UP BY RADIO OF A NEW REMOTE CONTROL FROM AN ALREADY SET UP REMOTE CONTROL

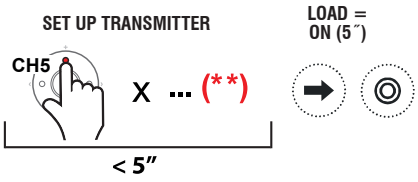
ATTENTION: copy only one channel per time. Position on the channel to copy (using the keys "A" or "B") both on the set up transmitter and the new one:



SET UP

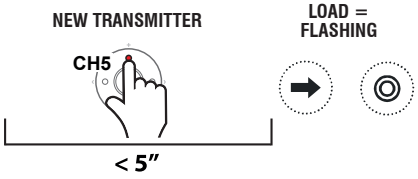
Press the P3 key of the set up transmitter. The enabled receiver switches on for 5 seconds.

Within 5", press a key of the set up transmitter as many times necessary to arrive at the mode you want to associate: **(**)**. After every press, the load switches off. After 1" from the last press, the load switches on again for 5".



(**) NUMBER OF TIMES			
BLADE MOVEMENT	x7	• PERIMETER LED SPOT • PERIMETER LED STRIP RGB • LED STRIP WHITE • PERIMETER VERTICAL BLINDS	x1

Press the key of the new transmitter and keep it pressed until the load flashes.



For other functions and operations with the radio control, see the instructions attached and relevant to the specific transmitter and the control unit.

CAUTION: Direct the blades partially opened in the case of very strong rain, hail, strong wind, snow and ice; it is dangerous to leave the blades closed in these cases, it can cause injury to persons and damage to property.

IMPORTANT! If something has blocked the opening or closing of the blades, continue the opening or closing with the "man present" command.

The Bioclimatic Pergola is recommended to be exposed to a maximum wind load equal to 170 Newton/m^2 corresponding to a continuous wind at a maximum speed of 60 Km/h according to the Beaufort scale. For safety reasons, it is advisable to partially open the blades before this limit is reached. If no sensor is installed, manually direct the blades if there is a strong wind.

ATTENTION: never perform repeated opening and closing operations with the engine, this could cause the motor to overheat, which could block it, and make it impossible to perform the necessary movements (in the case of strong wind or snow).

If the bioclimatic pergola's blades were closed and ice or snow have deposited on them, do not move the blades until all the snow has been removed or the ice has melted. Otherwise, the movements could be blocked and the components damaged.

IMPORTANT! The operation with ice may damage the Bioclimatic Pergola! Do not operate the Bioclimatic Pergola before having first removed the snow and the ice formed.

IMPORTANT!: in the case of failures, turn to you dealer and if required only ask for Gibus original spare parts.

ATTENTION! In the case of fault or when searching for faults, respect the safety measures. In particular when searching for or repairing any faults to the electric components, there is the risk or fatal electric shock. only qualified electricians must carry out the maintenance to the electrical parts.

CHAPTER 9: MAINTENANCE

Operations of **installation and initial start-up, adjustment and obligatory maintenance** should be performed only by qualified technical personnel and specialized for such tasks. **Contact the Technical Service Department of your Gibus dealer.**

IMPORTANT: it is compulsory to ask a Gibus technician for an extraordinary maintenance operation within the 2nd year from the installation of the pergola so that the warranty will also cover the 3rd year. A compulsory maintenance operation within the end of the 3rd year will extend the warranty to the 4th year and a compulsory maintenance in the 4th year will extend the warranty to the 5th year. If the maintenance operations are not carried out, the Gibus warranty will no longer be valid. Use original Gibus spare parts; otherwise, the warranty will be voided.

Compulsory maintenance required by the end of the 2nd year and the following maintenance operations for extending the warranty year after year must be carried out by a Gibus technician and must minimally include an **inspection of the correct blade movement, positioning of the endstops in opening and closing, making sure that the wind sensor is working if it is present and the conditions of the seals.**
Also check the recommendations in paragraph 9.2 titled "MAINTENANCE OF THE PERGOLA", and those in the "Product Maintenance Technical Sheet" available in the reserved area of the www.gibus.it site. Also, the operations reported in the following paragraphs must be carried out by the owner or by a specialist **paying attention to the following warnings**:

ATTENTION: The operations of routine or unscheduled maintenance must be carried out safely, after cutting the power supply off. Before resume operating the Pergola carefully read the chap. 2 "SAFETY PRECAUTIONS".

ATTENTION: pay attention to the safety directions given in Chapter 7 to avoid squeezing/cutting.

CAUTION: Cleaning with ladders, scaffolding or other is reserved for specialized personnel who must carry out the operations in accordance with current directives on safety and must use personal protective equipment such as safety harness with sling.

9.1 CLEANING THE BRISE SOLEIL BLADES

The brise soleil blades have to be opened to guarantee it works correctly and to maintain their attractive appearance by eliminating any dust or other materials that have deposited on them, thus delaying as much as possible the formation of permanent dirt. It is therefore advisable:
- **at least twice a year** (in spring before use during the summer season and in autumn before winter closure). Check the state of the blades, the guide grooves of the drive bar, the blade gutters and perimeter gutters. Remove any leaves, twigs, pines or anything else that may have deposited on them.
- **if necessary** clean the blades and the fabric by vacuuming the dust and using a damp sponge or cloth with lukewarm water and non-aggressive products.

- **non utilizzare solventi – ammoniaca – idrocarburi;**
- **fare asciugare with the blades placed vertically dopo la pulizia.**

In caso di dubbio rivolgersi al rivenditore.

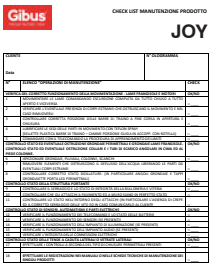
9.2 MAINTENANCE OF THE PERGOLA

IMPORTANT: please open and close the awning periodically and check periodically the correct operation of the parts. Do not leave the product unused for long periods.

In order to keep the product in perfect operating conditions and safe proceed as follows:
- **Yearly** (or after any extreme weather events):
- visually inspect the bearing structure;
- inspection of the tightening and the integrity of bolts and nuts, as well as screws. Make sure that the ground and the wall fixing devices are in perfect condition. Check the condition of the floor around the fixing devices (in particular, make sure that there are no cracks and that the screws are properly tightened);
- make sure that the gutters along the perimeter and the gutters of the brise soleil blades are clear of leaves or other debris. Remove the elements that prevent water from flowing out and lubricate the moving parts with a drop of Teflon spray, if necessary.
- check the operation of the remote controls, the sensors and the lighting installation. Check the efficiency of the grounding.
- clean the surface, if it is necessary, to remove dirt and dust. Clean the surface with a paper rag and a wet sponge as explained in the previous paragraph.

9.3 EXTRAORDINARY MAINTENANCE

For extraordinary Maintenance within the 2nd year from installation and in subsequent years (mandatory for extending the warranty) follow the other regulations found in the "Product Maintenance Check List".


Gibus
CHECK LIST MANUTENZIONE PRODOTTO
JOY

ATTENTION! The maintenance work is to be carried out by qualified and trained personnel. Call for a Gibus specialised technician.

CHAPTER 10: DISMANTLING AND DISPOSAL

CAUTION: dismantling of the Pergola must be carried out by qualified and trained staff. Ask for a specialized Gibus technician at the Service Department.

CAUTION: dismantling of the Pergola must be carried out applying all the safety provisions as per installation: see chapter "SAFE INSTALLATION" and chapter "INSTRUCTIONS FOR PROPER INSTALLATION" with the help of the installation instructions.

RECOMENDATIONS FOR THE OPERATOR IN CHARGE OF DISMANTLING:
- the operations must be carried out with the brise soleil blades placed vertically;
- disconnect the power supply to the system;
- disconnect the system downstream the cut-off switch,
- disconnect the engine,
- disconnect the control units.

10.1 DISPOSAL OF THE PERGOLA

The Pergola is not built with materials considered hazardous. There are no special instructions for destruction or disposal. The components making up the Pergola are given in Chapter 3. Pay close attention to management of Waste Electrical and Electronic Equipment (WEEE directive).

IMPORTANT!: Follow the regulations in place at the time of disposal of the Pergola to dispose of the materials constituting it.

ATENTION: please note that for any detail of the Pergola to be separately disposed of, always refer to the current standards on the matter.

To dismantle the Pergola follow the regulations imposed by the laws in force in the country of use. Disconnect the Pergola from the power supply. Disassembly the individual components of the Pergola grouping them according to their composition. Then scrap in accordance with the laws in force in the country of use.

Most significant materials making up the bioclimatic pergola awning:

Aluminum
Steel
Plastic

Electrical and electronic equipment and EEE equipment.
Under art. 14 of the 2012/19/EU DIRECTIVE OF THE EUROPEAN PARLIAMENT AND COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE), the crossed bin symbol **(on some of the parts and components of the product)** indicates that these parts and components are electrical or electronic products and must be collect-ed separately from other waste at the end of their useful life and not with mixed urban waste. This is to encourage correct recycling/disposal. Appropriate waste sorting for the subsequent recycling, treatment and environ-mentally compatible disposal of the disused electric and electronic equipment avoids nega-tive effects on the environment or human health and favours the re-use or recycling of the electric and electronic equipment's materials. The same symbol indicates electrical or electronic products for the "Waste Electrical and Electronic Equipment Regulations 2013".

CHAPTER 11: TROUBLESHOOTING

WARNING: in case of troubleshooting you must comply with the relevant safety requirements; in particular while searching for any faults or repairs of the power supply system, there is a risk of fatal electric shock. maintenance on electrical parts must be carried out by qualified personnel only.

WARNING: risk of crushing.
in particular, in order to avoid the risk of crushing/shearing injuries, do not put any part of the body between the adjustable blades or between the adjustable blades and parts of the fixed housing structure (guttering, etc.). This is extremely important when blades are moving.

The following table shows the solution to more common problems. In the presence of problems other than those listed contact the Service Department.

11.1 TABLE OF FAULTS AND DEFECTS

PROBLEMS	CAUSES	REMEDIES
The remote control does not respond to the controls.	The remote control isn't working.	Unlock it by pressing one of the top two small buttons (the buttons that are used for the selection of the group or the channel) for 10 seconds until the LEDs flash.
The motors are noisy.	Faulty motor.	Request technical assistance.
The motors do not move.	Incorrect wiring.	Check the electric circuit against the attached wiring diagrams.
	Faulty motor.	Check the motor and replace it if necessary.
	Remote batteries flat or faulty.	Change the batteries or the remote control.
The blades do not open perfectly horizontally or they do not complete the run (0°-135°).	Incorrectly regulated endstops.	Repeat the learning procedure and regulate the endstops.
	Something has fallen into the movement area and blocks the movement: side tracks, perimeter gutters, etc.	Check there are no pinecones, twigs, nests, pine needles or anything else and remove them.
The blades do not open from the closed position.	The resin has deposited on the perimeter seals or between the blades.	Clean and lubricate the seals.
	There is some ice between the blades.	Wait for the temperature is raise.
	The rain alarm is raised and it is raining.	Wait for the rain to stop and disactivate the rain sensor (procedure in chapter 2).
	The pergola is not power supplied.	Power supply the pergola.
	The remote control is not matched or the batteries are drained or it is broken.	Match the remote control or replace the batteries.
The blades are blocked in a different position from the required one.	Something has fallen into the movement area and blocks the movement: side tracks, perimeter gutters, etc.	Move the blades with the "man present" command and/or remove the foreign body that is blocking them.
After the opening control, the blades are in a partially opened position at about 33%.	Less than 6 hours have passed since the rain has stopped and the rain alarm is active.	Control the opening with the operator present or disable the rain sensor (chapter 2).
The blades are blocked in a partially opened position of about 33%, and don't move.	At least 60 seconds have passed from the detection of wind beyond the set threshold; the wind alarm is enabled.	Wait for the breeze decreases.
The blades are blocked in a partially blocked position of about 66%, and don't move.	The temperature is lower than 2°C and the alarm is enabled; if it is also raining and the snow sensor is enabled.	Control the displacement with the operator present.
The blades do not open when there is a strong wind.	Wind sensor sensitivity programmed for a too high limit.	Reprogram the anemometer limits.
	Anemometer incorrectly wired to the control unit.	Check the connections to the terminals.
	Faulty anemometer.	Replace the anemometer.
Malfunction not included among the above.		Check the specific instruction manuals for the control units attached to this manual, or contact the technical service centre.

CHAPTER 12: CONVENTIONAL WARRANTY UP TO THE FIFTH YEAR

For EU countries + Switzerland and the UK, Gibus S.p.a. offers the conventional guarantee pursuant to art. 135 - quinquies Legislative Decree 206/2005 - Consumer Code - and better explained in the following Articles. Gibus' conventional guarantee does not, in any way, prejudice the rights and remedies expressly provided for by the law in favor of the consumer exclusively towards the seller (see the following articles 2 and 3) ("Legal Guarantee" articles 128 et seq. of Legislative Decree No. 206/2005) for lack of conformity of the product.

Art.1 GIBUS PRODUCTS

Each GIBUS product has the characteristics described in the price list/sales catalog that is in force at the moment the order is received by Gibus S.p.A. The characteristics of the fabrics are described in the respective GIBUS samples.

Art.2 LEGAL GUARANTEE OF THE SELLER

The goods are guaranteed for a period of two years from the date of delivery for any lack of conformity existing at that time. The two-year legal guarantee can be enforced by the consumer exclusively against the seller pursuant to art. 133 Legislative Decree No. 206/2005.

Art.3 REMEDIES PROVIDED FOR BY THE LEGAL GUARANTEE (ART. 135-BIS OF LEGISLATIVE DECREE 206/2005)

In the event of a lack of conformity of the product sold, the consumer may request the seller either repair or replace the goods, provided that the chosen remedy is not impossible or, compared to the alternative remedy, does not impose disproportionate costs on the seller. Should the requested remedy be, pursuant to Article 135-bis of Legislative Decree no. 206/2005, impossible or excessively burdensome and entailing disproportionate costs for the seller, the consumer may request that the seller reduce the price or terminate the contract. The latter remedies may be also requested by the consumer from the seller in other cases specifically ruled by art. 135-bis of Legislative Decree 206/2005 to which reference is made. In any case, it is specified that, pursuant to art. 135-bis, paragraph 5, Legislative Decree 206/2005, a minor lack of conformity will not give the consumer the right to terminate the sales contract.

Art.4 CONVENTIONAL GUARANTEE

GIBUS S.p.A., with registered office in 35030 Saccolongo (PD) via Einaudi 35, offers the "consumer" as defined by art. 3, paragraph 1, letter a) of Legislative Decree 206/2005, the conventional product warranty starting from the 3rd year and up to and including the 5th year, starting from the date of purchase of the goods under the conditions specified below.

Art.5 OBJECT OF THE CONVENTIONAL GUARANTEE: EXTENSION OF THE DURATION

The Gibus conventional warranty covers the spare parts of the product on the condition that the mandatory maintenance is carried out by an authorized Gibus Dealer, with costs entirely borne by the consumer, of the Bioclimatic Pergolas, 90° Pergolas, Bioclimatic Pergolas with retractable roof (according to the instructions given in the "Use and Maintenance Manual" attached to the product), to be carried out by the end of the 2nd year from the date of installation and every year up to the 5th year. The warranty for the 3rd, 4th and 5th year consists only in the replacement of components recognized as defective by GIBUS S.p.A. and does not cover the costs of labor, travel, disassembly/assembly and transport that will be borne by the customer. The costs deriving from the right to call of the authorized Gibus Dealer will also be borne by the customer.

Art.6 LIMITS OF THE CONVENTIONAL GUARANTEE

The Gibus conventional guarantee covers the cost of spare parts in the following percentages:

- In the 3rd year, the Guarantee covers 60% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer,
- In the 4th year, the Guarantee covers 50% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer, or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer;
- In the 5th year, the Guarantee covers 35% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer; - The Cristal and the LEDs, if present, are excluded from the conventional guarantee.

Art.7 WITHOUT EXPENSES

The legal guarantee offered by the seller and the conventional guarantee by Gibus belong to the Customer free of charge. It is the customer's responsibility to prove that the guarantee is still valid by means of the delivery document issued by the seller or other similar document (i.e. receipt, cash receipt or similar) which shows the name of the seller and the date on which the delivery of the goods took place, as well as the evidence of the execution of the obligatory maintenance (i.e. receipt, cash receipt or similar which must be equal to a reasonable fee compared to the maintenance service) in the event the Customer has the "Conventional Guarantee".

Art.8 TERRITORIAL EXTENSION

The legal guarantee referred to in Legislative Decree 206/2005 is valid for Italy. In the EU countries, the legislation envisaged for each country applies to the legal guarantee for the sale of consumer goods. In any case, in EU countries, the seller must grant the consumer a minimum two-year guarantee. The GIBUS conventional guarantee in the terms specified in this agreement is valid in Italy, in EU countries, in Switzerland and in the UK. For extra EU countries, the legal and conventional guarantees are not effective.

Art.9 FURTHER CONDITIONS FOR THE VALIDITY OF THE CONVENTIONAL GUARANTEE

In order for the Gibus conventional guarantee to be considered valid and effective pursuant to this document, in addition to the above, all the following additional conditions must be met:

A. the permitted use and purposes of the product shall comply with the instructions given in the "Use and maintenance manual";
B. the rules of use and periodic maintenance shall comply with the instructions given in the "Use and maintenance manual";
C. the annual compulsory maintenance shall be carried out and proved up to the 5th year;
D. the installation and mandatory annual maintenance shall be carried out exclusively by an authorized GIBUS dealer; both installation and maintenance operations will be valid only if recorded in the "Use and Maintenance manual" and in the "Product Maintenance Check List";
E. the electrical and electronic parts (motor – automatic devices - switches) concerning the product shall be supplied by GIBUS; if electrical and electronic parts are not supplied by GIBUS or are tampered with, the guarantee will not be effective.

Each Gibus Product is unique, uniquely recognizable and traceable, thanks to a 3D Gibus-branded hologram that includes a unique alphanumeric serial number. The Gibus conventional guarantee will be recognized only if there is the Gibus hologram and "serial number" and after Gibus has checked for the compliance with the requirements and conditions set out in this chapter and in the "Use and maintenance manual" of the product.

Art.10 EXCLUSIONS

In addition to the other cases mentioned above, the conventional guarantee is not effective if the product is used for purposes other than those for which it is designed or in ways prohibited by the instructions given in the "Use and Maintenance Manual", which is attached to the product and delivered by the authorized seller; the conventional guarantee is also excluded if the product is used in any commercial, entrepreneurial or professional businesses, unless it is agreed upon differently.
Furthermore, the following is not covered by the conventional guarantee: non-conformities and/or defects due to negligence or carelessness in use (such as failure to comply with the instructions for the correct operation of the product), improper installation, installation or maintenance carried out by personnel who are not employed by an authorized Gibus Dealer or by personnel who are not expressly proven to be addressed by the authorized Dealer, as well as transport damage, or damage due to products or spare parts or components that are not recognized as defective by GIBUS S.p.A.
The conventional guarantee is not effective even in cases of improper use of the product if strong wind occurs beyond the limits indicated by the manufacturer, as well as heavy rain, hail, snow, ice and/or other atmospheric events, even combined, in the event of failure of the wall where the Pergola is fixed, and finally, in case of tampering with the product and use of non-original GIBUS spare parts and components.
The Conventional guarantee is not effective in the following cases:

- modification of any parts of the product during the installation or after the installation without the written authorization of GIBUS.
- installation of parts or components (including motors and automatic devices) not supplied by Gibus or not authorized in writing by Gibus.
- installation on the pergolas of side closures or windows or accessories made by other manufacturers, not present in the catalog and for which there is no written authorization from GIBUS S.p.a.
- installation on the pergolas of other pieces or components or side closures not authorized in writing by Gibus which, in Gibus's unquestionable judgment, may compromise the functioning and stability of the structure itself, its safety, its resistance to wind and atmospheric agents in general as well as the duration of the product.

For other specific exclusions from the guarantee, refer to the various chapters of the "Use and Maintenance Manual" attached to the product.

Art.11 RESPONSIBILITY OF THE MANUFACTURER

Gibus declines all responsibility for any damage that, directly or indirectly, could result to persons, property of the end user or third parties, as well as pets as a result of failure to comply with all the above requirements or those listed in the specific "Use and Maintenance Manual" and concerning, in particular, the warnings regarding the installation, use and maintenance of the product and in all other cases in which the aforementioned conventional guarantee is not effective.

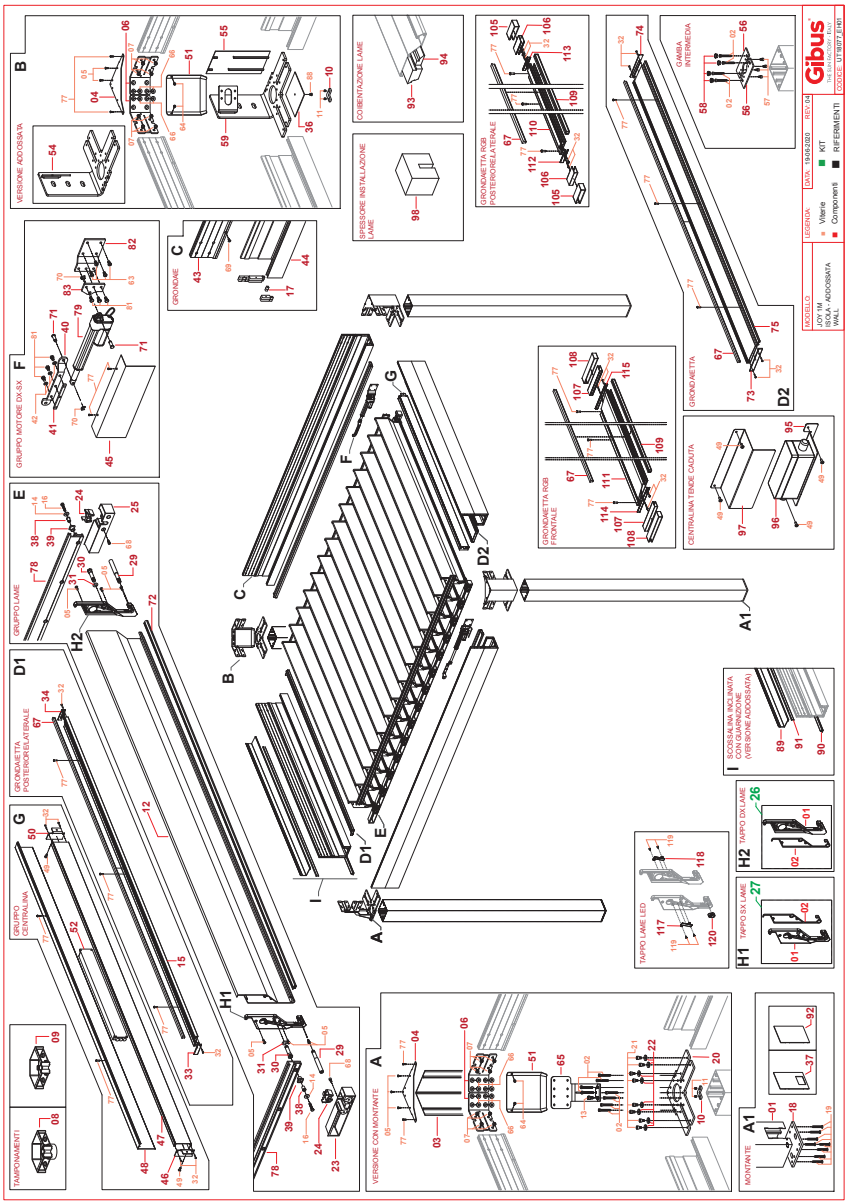
Art.12 FINAL REMARKS

The conventional guarantee is issued by GIBUS S.p.A. as also indicated in the "Use and Maintenance Manual" attached to each product that the authorized Gibus dealer shall handle to the customer and that the customer must demand.

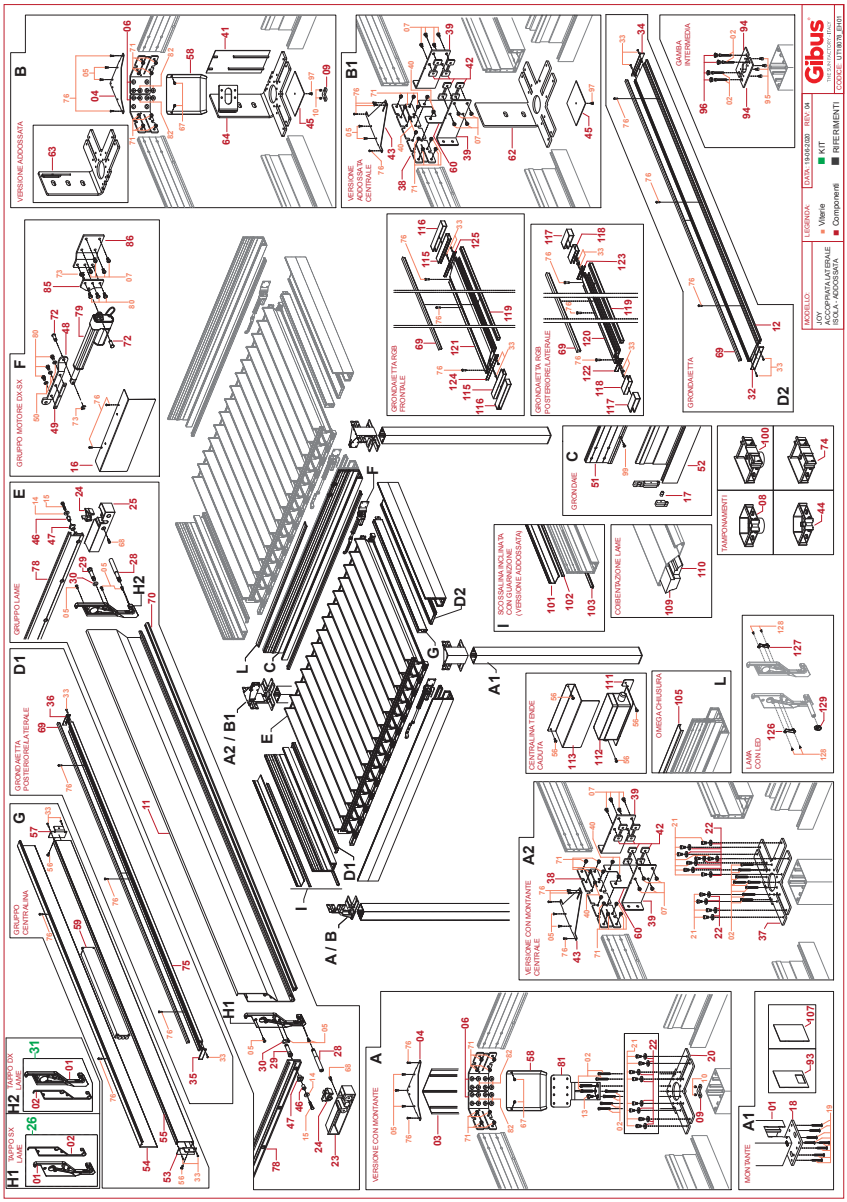
This warranty is issued by:
Gibus S.p.A.
via Einaudi 35 35030
Saccolongo (PD) - ITALY
For any dispute, is elected as the only jurisdiction that of Padua Italy.

CHAPTER 13: EXPLODED DRAWING OF *JOY*

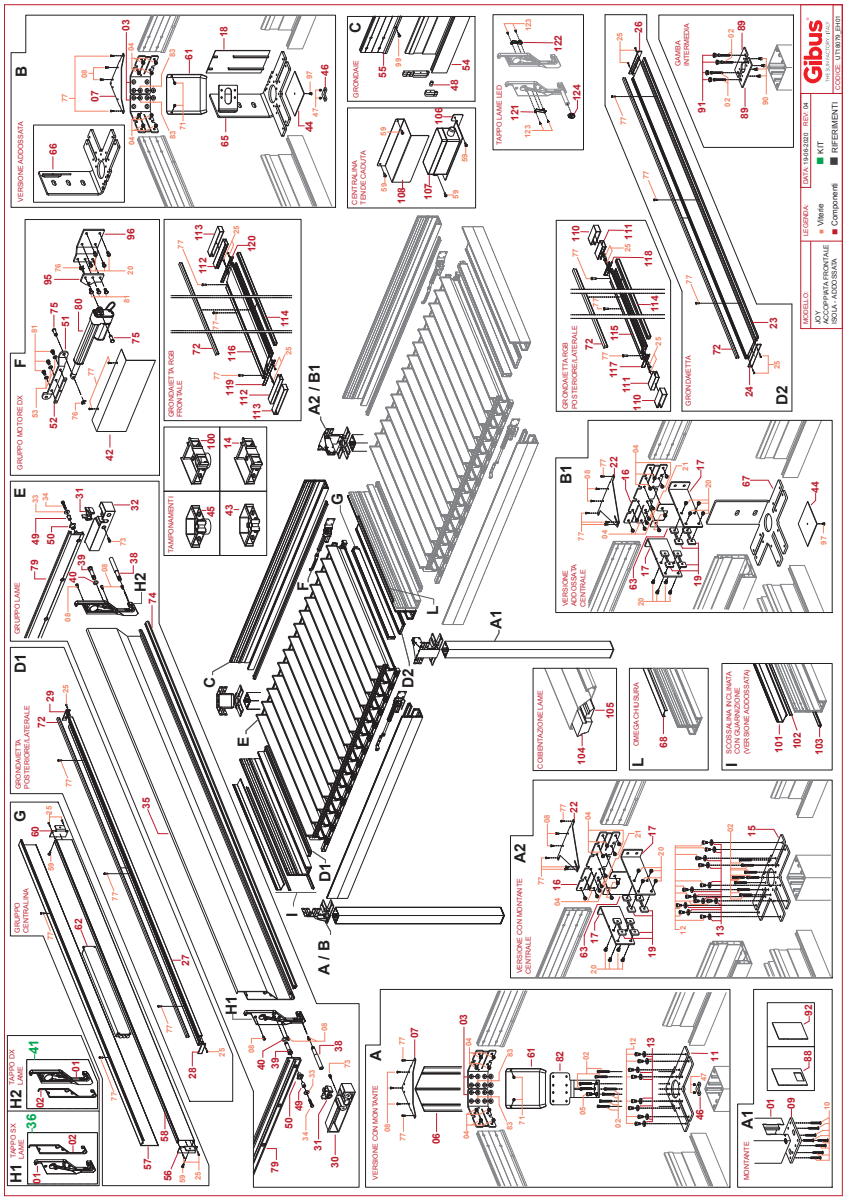
13.1 1 MODULE



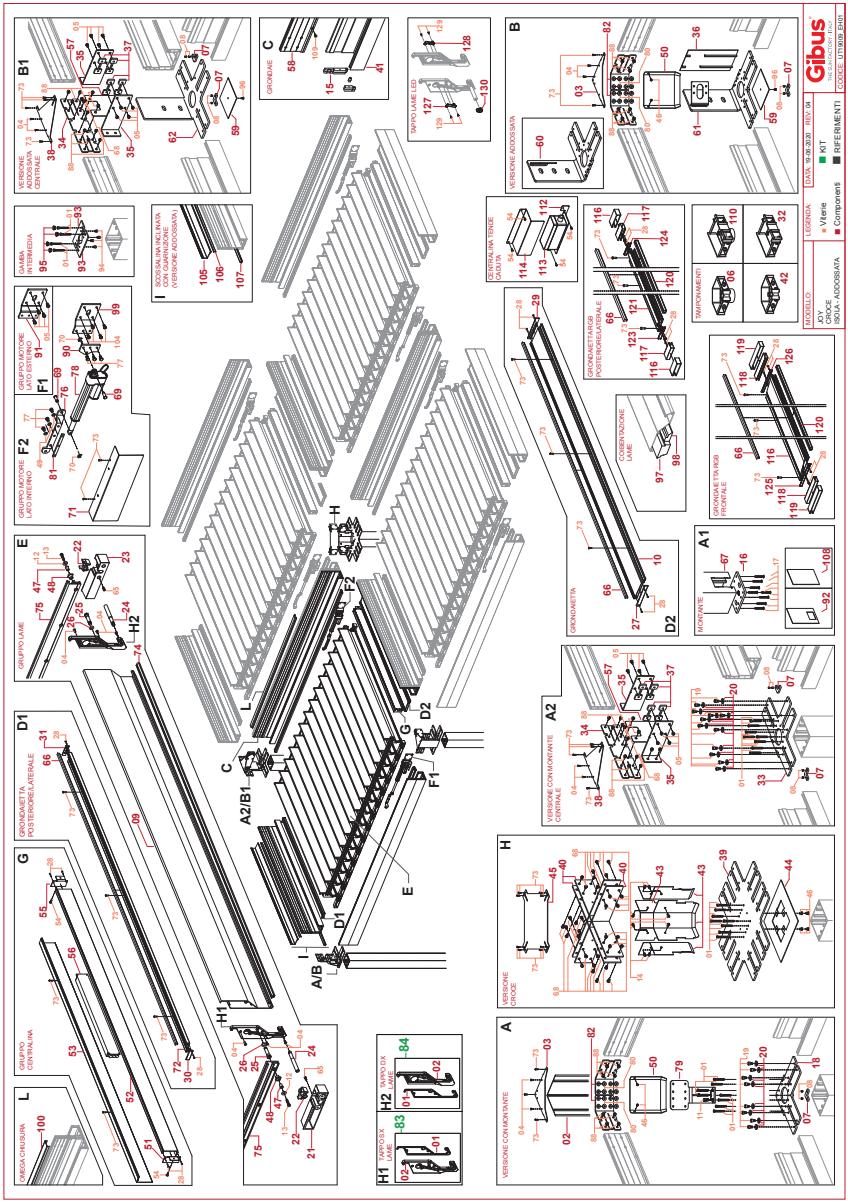
13.2 COUPLING MODULE TYPE 1



13.3 COUPLING MODULE TYPE 2



13.4 CROSS-SHAPED COUPLING



CHAPTER 14: TECHNICAL NOTES

14.1 DECLARATION OF INSTALLATION

DECLARATION OF INSTALLATION (to be filled by the installer)			
JOY			
☐ ISLAND ☐ WALL ☐ FRONT LEANING ☐ SIDE LEANING		☐ 1 MODULE ☐ COUPLED	☐ OTHER
Size L: S:	**Fabric** Type: Colour:	**Motor** Type:	**Automations** Type:
The undersigned:	of the Company:		Reference:
as:	Address:		

Declares under his sole responsibility
- of having used the components contained in the packaging of the products by Gibus and additional products provided for by the Installation Instructions;
- of having checked the technical compliance of the housing site;
- of having carried out the installation through the instructions provided by the manufacturer in the Use and Maintenance Manual and in the Installation Instructions delivered with the packaged product;
- of having delivered to the customer these Use and Maintenance Manual with the Declaration of Performance DoP relevant to the regulations and European reference standards.

Installation: Installation Notes:	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 2nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 3nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

IMPORTANT!: Extraordinary maintenance is compulsory and should be carried out by a Gibus specialized technician by the end of the second year from the awning's installation; this will extend the warranty up to the 3rd year from the installation date. Use Gibus original spare parts to keep the warranty valid. Accordingly, a compulsory maintenance operation within the end of the 3rd year from the installation date is to be required to the Gibus specialized technician and that will extend the warranty to the 4th year; a compulsory maintenance in the 4th year from the installation date will extend the warranty to the 5th year.

Mandatory Maintenance Notes:

ADDITIONAL Installation Notes:

ADDITIONAL Mandatory Maintenance Notes:

14.2 MAINTENANCE AND NOTE REGISTER

Date	Operation description (including components replacement)	Full name and signature specialized technician

NOTES:

Date	Operation description (including components replacement)	Full name and signature specialized technician

NOTES:

Date	Operation description (including components replacement)	Full name and signature specialized technician

NOTES:

Date	Operation description (including components replacement)	Full name and signature specialized technician
NOTES:		

14.3 PRODUCTION NOTES

See the product sheet attached to the back cover.

CHAPTER 15: ANNEXES

ANNEX 0 - EC MARKING

THE SUN FACTORY

EN 13561

Via Einaudi, 35 - 35030 Saccolongo (PD)
19

Declaration of Performance no: **MUT 104-CPR-20-02-2019**
Drop awning for outdoor use
MODEL: Gibus® mod. JOY
Wind resistance: **Technical class 4**
Total solar energy transmittance $_{gtot}$: **See the production specifications on the back cover**

ANNEX 1 - SELF-CERTIFICATION DOCUMENT (*)

PERFORMANCE DECLARATION no: MUT 104-CPR-20-02-2019

1. Unique identification code for the product-type: Gibus® mod. JOY
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Drop awning for outdoor use**
4. Name and address of the manufacturer: **Gibus S.p.A. - Via Einaudi, 35 - 35030 Saccolongo**
   www.gibus.it - E-mail: gibus@gibus.it
6. Assessment and check system of constant performance: **System 4**
9. Performance declared in accordance with the **UNI EN 13561** harmonized standard:

Essential Characteristics	Declared performance					
Resistenza al vento	Class 4					
Solar factor g_{tot}	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
according to EN 14501	g_{tot}	$g_{tot} >= 0,50$	$0,35 <= g_{tot} < 0,50$	$0,15 <= g_{tot} < 0,35$	$0,10 <= g_{tot} < 0,15$	$g_{tot} <= 0,1$

10. The performance of the unit given in the items 1 and 2 complies with the performance declared in the item 9. This performance declaration is issued under the manufacturer's sole responsibility as per item 4.

Saccolongo, 20/02/2019
Signed in the name of and on behalf of: Gianfranco Bellin
Chief Executive Officer

(*) IMPORTANT NOTE: the stated performance is only guaranteed if the installation of the product is carried out correctly by the authorized dealer. The latter is required to compile the "DECLARATION OF CORRECT INSTALLATION", which should be left with the final customer when installation is completed.

CHAPTER 15: ANNEXES

ANNEX 2 - UKCA MARKING

Gibus®
THE SUN FACTORY

UK CA
EN 13561

Via Einaudi, 35 - 35030 Saccolongo (PD)
22

Declaration of Performance no: **MUT 104-CPR-30-10-2022**
Drop awning for outdoor use
MODEL: Gibus® mod. JOY
Wind resistance: **Technical class 4**
Total solar energy transmittance $_{gtot}$: **See the production specifications on the back cover**

ANNEX 3 - SELF-CERTIFICATION DOCUMENT (*)

PERFORMANCE DECLARATION no: MUT 104-CPR-30-10-2022

1. Unique identification code for the product-type: Gibus® mod. JOY
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Drop awning for outdoor use**
4. Name and address of the manufacturer: **Gibus S.p.A. - Via Einaudi, 35 - 35030 Saccolongo**
   www.gibus.it - E-mail: gibus@gibus.it
6. Assessment and check system of constant performance: **System 4**
9. Performance declared in accordance with the **UNI EN 13561** harmonized standard:

Essential Characteristics	Declared performance					
Resistenza al vento	Class 4					
Solar factor g_{tot}	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
according to EN 14501	g_{tot}	$g_{tot} >= 0,50$	$0,35 <= g_{tot} < 0,50$	$0,15 <= g_{tot} < 0,35$	$0,10 <= g_{tot} < 0,15$	$g_{tot} <= 0,1$

10. The performance of the unit given in the items 1 and 2 complies with the performance declared in the item 9. This performance declaration is issued under the manufacturer's sole responsibility as per item 4.

Saccolongo, 30/10/2022
Signed in the name of and on behalf of: Gianfranco Bellin
Chief Executive Officer

(*) IMPORTANT NOTE: the stated performance is only guaranteed if the installation of the product is carried out correctly by the authorized dealer. The latter is required to compile the "DECLARATION OF CORRECT INSTALLATION", which should be left with the final customer when installation is completed.

Gibus S.p.A.
via Luigi Einaudi, 35
35030 Saccolongo (PD) - ITALY
www.gibus.it - gibus@gibus.it

HOLOGRAM

PRODUCT SHEET

(**) g_{tot} value referring to the indicated fabric awning positioned vertically in front of a glass window. The value corresponding to the specific application must be determined by taking all the specifications of the housing unit and the inclination of the fabric into account. The g_{tot} **Class** can be found in the corresponding table on the previous page.