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USERS MANUAL// INTALLATION MANUAL - TWOSPACE

ENGLISH

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INTRODUCTION

We are very happy for your acquisition of the **TWOSPACE**. We hope to give you excellent moments.

The benefits of hydro therapy are multiple and known since many centuries.

Water as a natural and pure element, holds in it the beneficial and healing properties that mankind ever knew to obtain and profit for the benefit of its mental and physical well being.

The way to use and enjoy those benefits evolved throughout the times and the present knowledge that we have of its therapy effects is far more extensive and complete enabling focusing in a very specific action or effect.

Presently this and other natural therapies are within our reach with the hydro massage bathtub. They may become part of a daily healthy habit, transforming the simple shower moments in real revitalizing, regenerating, stimulating or calming therapy sessions.

PREVIOUS CONSIDERATIONS

All Sanindusa hydro massage baths are submitted to functioning and safety tests.

For that, before shipping each bath is assembled and tested to check its correct functioning.

The baths installation as to be done by credited professional installers, following the specific indications of this manual for its assembly and respecting always the standards in force for electrical installations in bathrooms.

Thus this manual is indispensable. Always keep it in a place of easy access and remembering for further consultation. In case of breakdown or malfunction, please contact only specialized technical service.

Sanindusa declines any responsibility for damages issued from installations done by non-specialized services or any other change, aesthetical or functional, made on the bath that mischaracterises the original model.

Without prior notice, SANINDUSA holds the right to perform all changes considered necessary to its products.

SAFETY INDICATIONS

Before starting to use the **TWOSPACE** bath we advise you to integrally read this manual as it is a guide for its correct installation, use and maintenance.

The hydro massage bath has to be used only for the purpose it was conceived to. SANINDUSA declines any responsibility for eventual damages caused by misuse.

Do not use inside or in the vicinity of the bath any electrical devices connected to the power mains.

This product is not conceived for the use of people with reduced physical or mental capacities or by people without use and experience knowledge unless instructed and/or supervised by a person responsible for their safety that knows how to use the product.

WARNING: Children have to be supervised in way to assure that they do not play or misuse the equipment.

Extra care:

We recommend not take a bath after having ingested food and alcoholic beverages. If you suffer from heart disease or any other acute disease, please visit and inquire your doctor.

Please bear in mind the quantity of bath foam used as it can overflow with the injectors use.

EQUIPMENT DESCRIPTION

CHECKING THE CONTENTS OF THE PACK

// Separate all components and check the packaging content

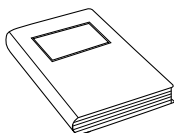
// Be sure that all parts are included before discarding the packaging.

// Discard packaging respecting your local community residues discarding rules.

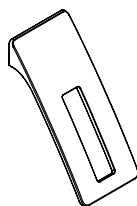
- A. USERS MANUAL**
- B. CUSHIONS**
- C. LATERAL PANEL** (optional)
- D. FRONTAL PANEL** (optional)
- E. BATH WITH COMPLETE HYDRO MASSAGE EQUIPMENT**

COMPONENTS

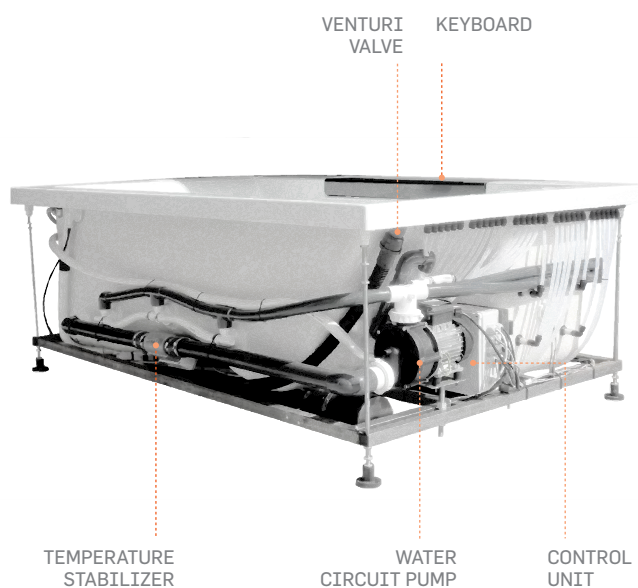
A.



B.

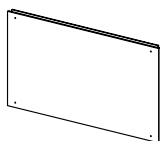


E.



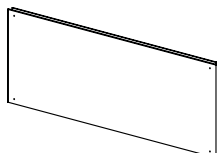
C.

OPTIONAL
ref.805202



D.

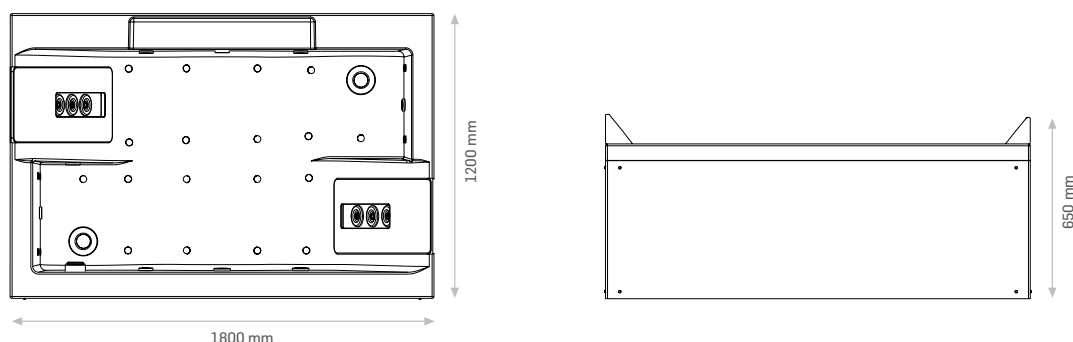
OPTIONAL
ref.805201



2 INSTALLATION MANUAL

INSTALLATION CONDITIONS

// TWOSPACE bath general installation necessary measures.



// Respect the spaces and requirements defined to assure a good installation, functioning and maintenance.

// The Bath installation should only be done after finishing completion of walls and ground.

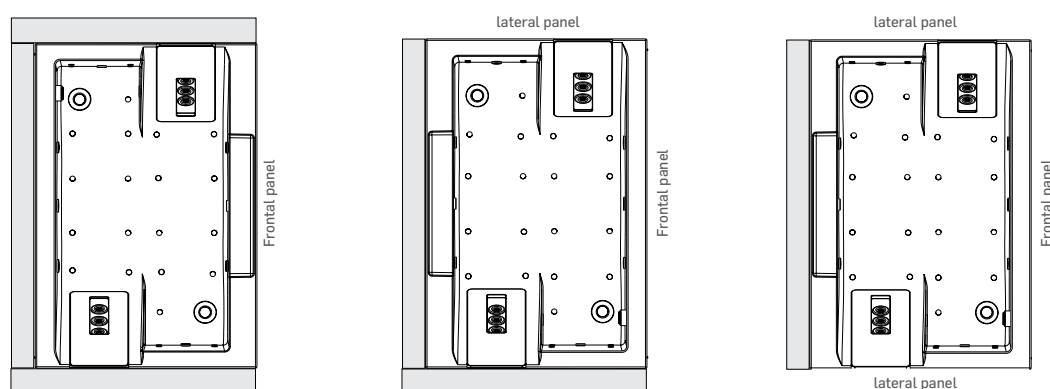
// The product was developed for a central, corner, or one side leaning against a wall installation, embedded onto the ground or between walls.

// Before the connection of the water flexibles to the water mains, open the water and let it run for a while so that any particles or dirt are flushed out and do not clog the water taps.

// Protect the surface of the bath and remove only the protective film after all works of installation and finishing are concluded.

INSTALLATION [BETWEEN WALLS]

// the installation between walls consists in fixing the bath to one or more walls of the intended place for the installation.



[STEP BY STEP]

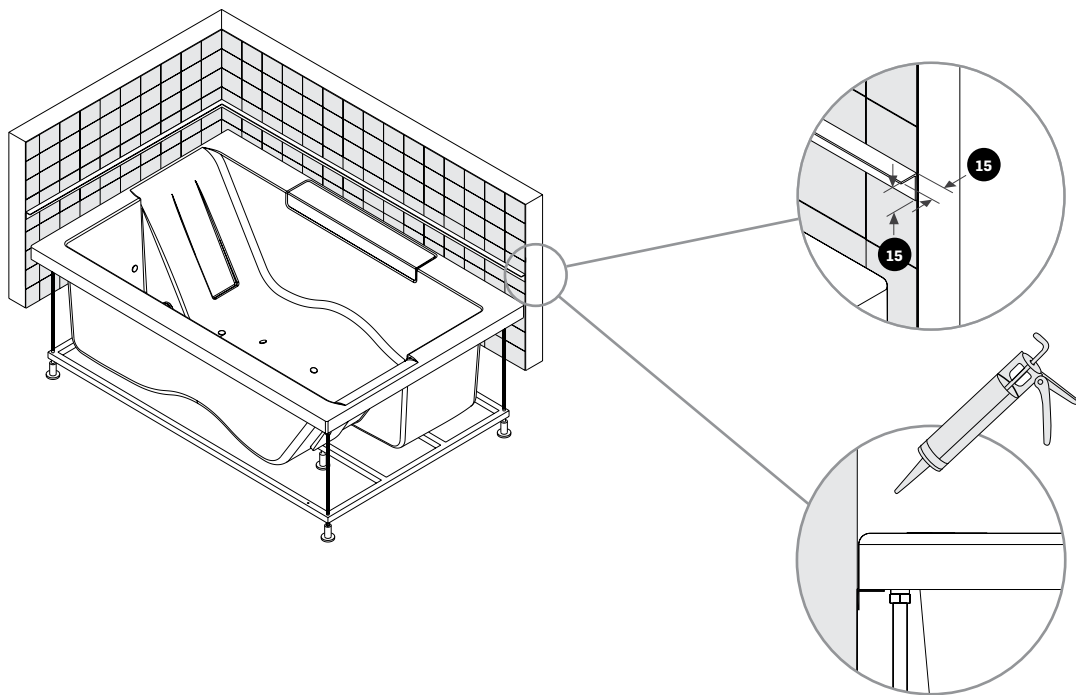
1. Place the bath in the area intended for its use, place a masonry level on top of the brim and level the brim by adjusting the plastic telescopic feet.
2. Marc the alignment line on the wall.
3. Connect the valve to the sewer; connect the water taps and do the electrical installation.
4. We recommend the fixing of the feet to the ground. For that marc the holes on the ground.
5. Remove the bath.
6. Drill the holes and place the masonry plugs into the holes. Put the bath back in place and fix it to the ground.
7. We recommend 2 ways of fixing your bath to the walls. [**OPTION #1 e OPTION #2**].

#1 - OPTION [with wood batten]

7.1 Onto the wall (s) to which the bath is to be leaned, fix a wood batten and place the brim of the bath on top of the batten brim, making sure that the weight of the bath does not rest on the batten.

7.1.1 Fill up the bath and test its functioning.

7.1.2 To apply the neutral silicone sealant on the joints, the surfaces have to be cleaned, degreased and free of humidity.

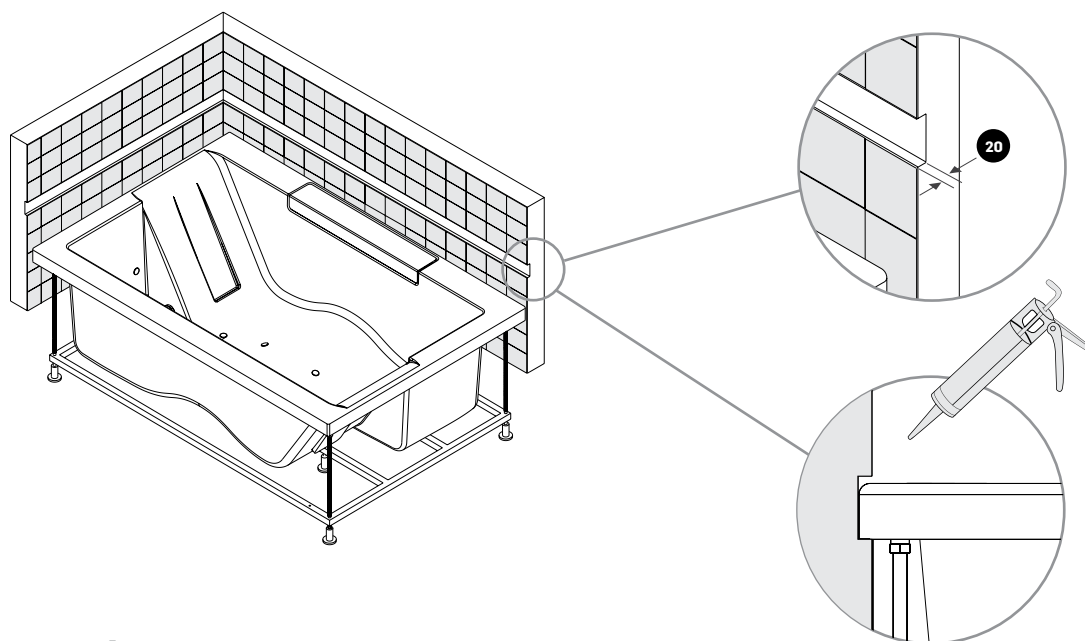


#2 - OPTION [embedded on the wall]

7.2 Open a bas-relief on the wall (s) onto which the bath is to be leaned, slightly above the height of the bath brim and 15mm deep as show in the image.

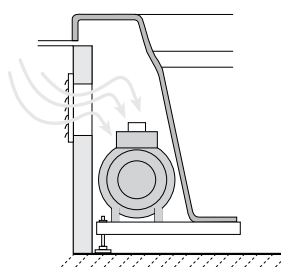
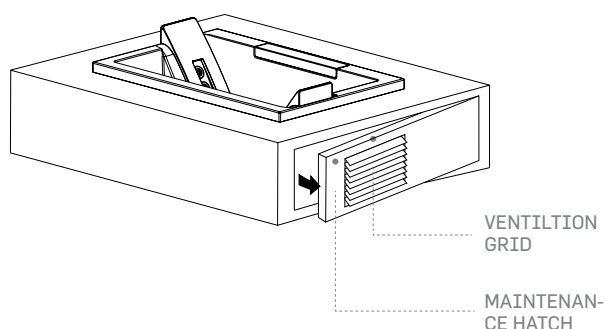
7.2.1 Fit the bath into the bas-relief, fill up the bath and test its functioning.

7.2.2 To apply the neutral silicone sealant on the joints, the surfaces have to be cleaned, degreased and free of humidity.



[EMBEDED] INSTALATION

1. Open a hole measuring **175 x 75 cm** minimum.
2. Embed the bath into the hole making sure you do not hold it by the pipes.
3. Connect the valve to the sewer, the water taps (verify the tightness to avoid leaks) and do the electrical installation.
4. Make sure that the weight of the bath rests on the structure feet, adjust the telescopic feet and fix them to the pavement/ground.
5. Do all finishing with the chosen materials and make sure that there is ventilation and access to the hydro massage system.
6. Fill up the bath and test its functioning.
7. Perform the sealing with neutral silicone sealant making sure before that all surfaces are cleaned, degreased and free of humidity.



WARNING

When the bath is embeded attention must be given to make sure that 2 access hatches are in place. Their placement has to be next to the pumps and control units located on each end of the bath. These hatches need to have a grid measuring **200 cm2**. These areas must be kept unimpeded so that maintenance can be performed.

Dimensions: 40x40 cm

HYDRAULIC INSTALLATION


// To fill up the bath you must use the fill up valve installed on the bath, which is controlled through the key board of the thermostatic mixer, also installed on the bath tub and that has to be connected to the hot and cold water mains through the flexible metal braided hoses.

//Emptying the bath is done through a connection to the sewer.

WARNING

Before doing the definitive installation, please check the joints tightening of the valve to the sewer and the joints of the pump.

ELECTRICAL INSTALLATION

// The installation has to be done by an accredited professional according to the “Regulamento de Segurança de Instalações de Utilização de Energia Eléctrica” (RSIUEE) or the equivalent existing in your country, and assure the equipotential connection, bearing in mind that this connection has to contemplate all metallic pipes, metallic gear, ventilation grids or opening hatches and other possible metallic elements. [The terminal for the equipotential connection is located on the engine chassis frame plate identified with the symbol](#) .

Upon installing the bath the following as to be taken into consideration:

// All electrical components must be installed in such way that when the bath is being used access to them is not possible.

// [The bath must be connected in permanent way to the electrical mains and must be powered through a differential switch rated to a maximum of 0.03 A.](#)

// [The bath must be installed in such away that the IPX5 protection index is respected.](#)

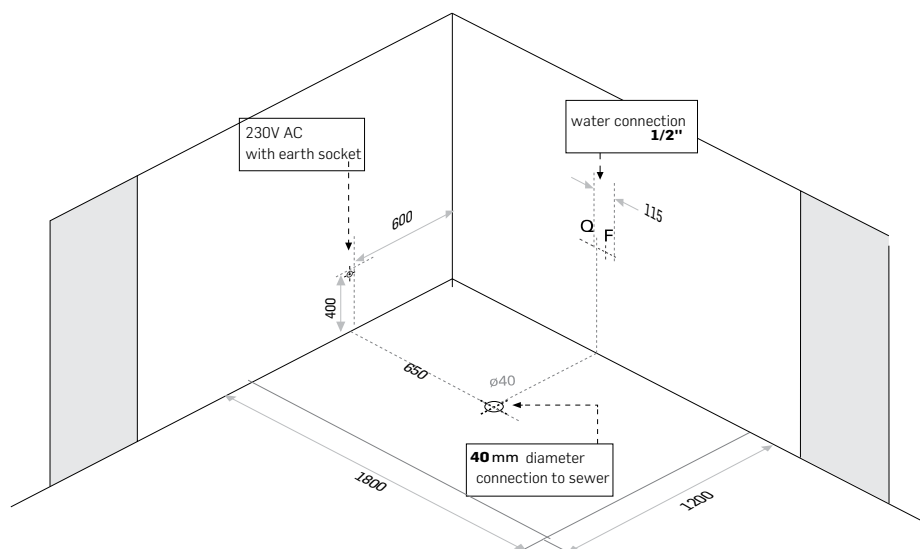
//Verify if the electricity voltage and cycles are coincident with those described on the characteristics plate.

//To install the bath, connect the earth wire (green & yellow) to the earth connection, the blue to the neutral and the black or brown to the phase. These connections must always be made taking into consideration the standards and regulations that regulate bath's installations.

// The electrical cable to feed the system must be of [3x2,5mm](#) size, type [H05VV-F](#) and never sectioned.

// Check if the voltage and the power frequency of the power distribution network are coincident with the characteristics shown on the bathtub plate. The connection must be carried out taking into account the RSIUEE - Safety Regulations for the Use of Electric Power.

// Never handle electrical parts of the bathtub when connected to the power mains.



PANEL ASSEMBLY

// The **Twospace** bath has four surrounding panels that allow the isolated use in the space available. They can also be conjugated with one or more walls. To assemble the panels, please follow the following instructions.

#1

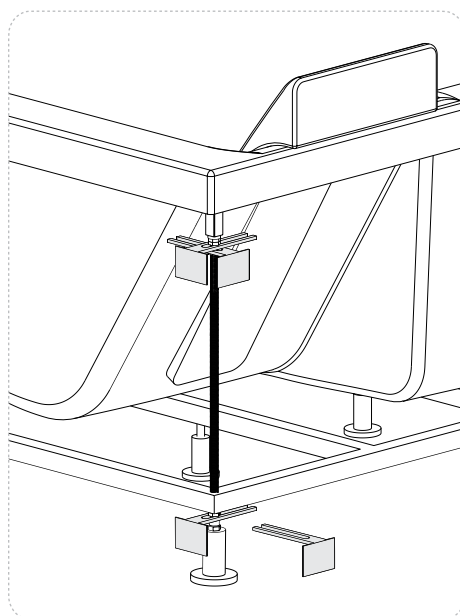
// Place the fixing frames between the nuts already inserted in the structure (chassis) and tight them until they are fixed.

// These parts allow the adjustment of the panel to the bath brim.

#2

// Perform the same operation on all four corners of each panel.

// Place the needed number of frames according to the quantity of panels to be used.

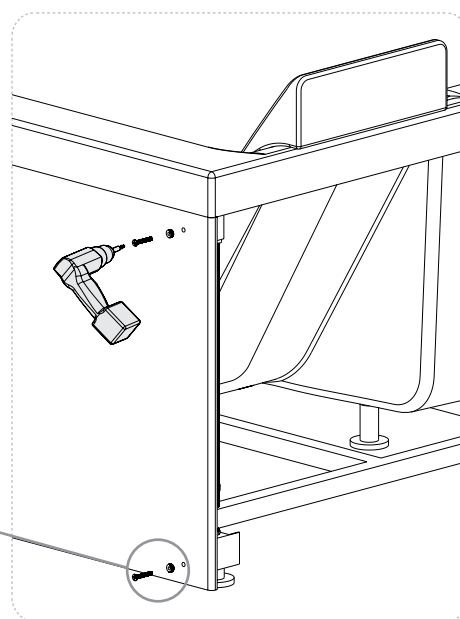
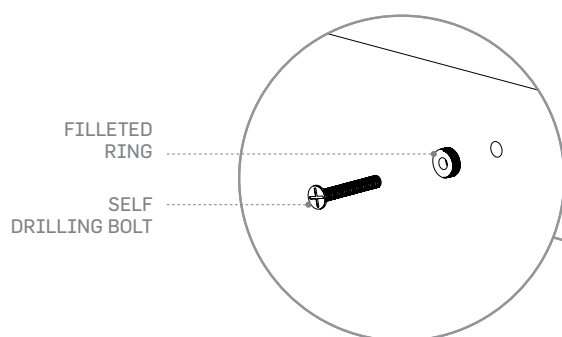


#3

// After positioning the panel correctly aligned, it must be fixed with the self drilling bolts supplied.

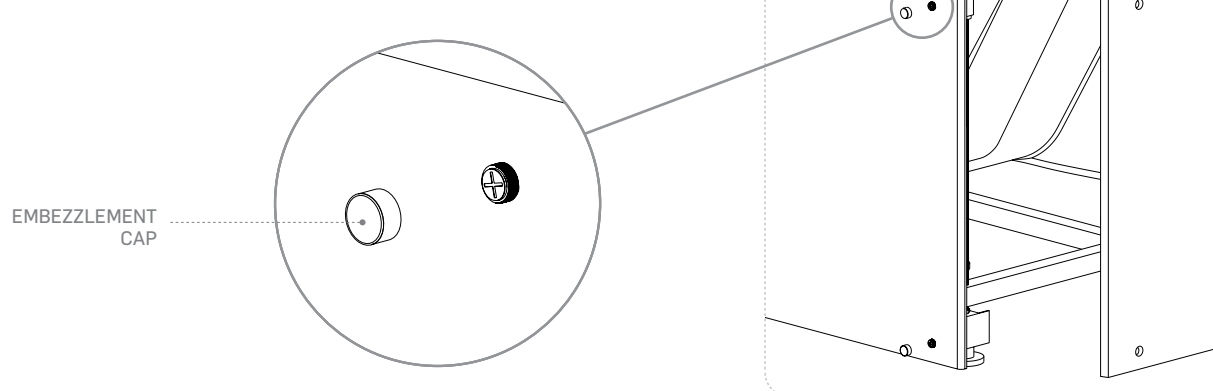
// Place between the panel and the bolt the filleted ring that will allow the fixing of the embezzlement cap.

// Perform the same operation for each of the corners.



#4

// Once the 4 bolts are well fixing the panel, they may be covered with the embezzlement caps supplied with the installation kit. To fix the caps simply bolt them on the filleted ring previously applied.



CHARACTERISTICS

GENERAL SPECIFICATIONS

FEEDING VOLTAGE

230V AC | 50 Hz | 60 Hz

FEEDING HOSE SIZE

3X2,5 ml2

PUMP POWER

700 W

PUMP OUTPUT

300 litres/minute

PROTECTION

IPX5

LIGHT / CHROMO THERAPY

VOLTAGE
12V AC

COMPRESSOR/BLOWER

700W

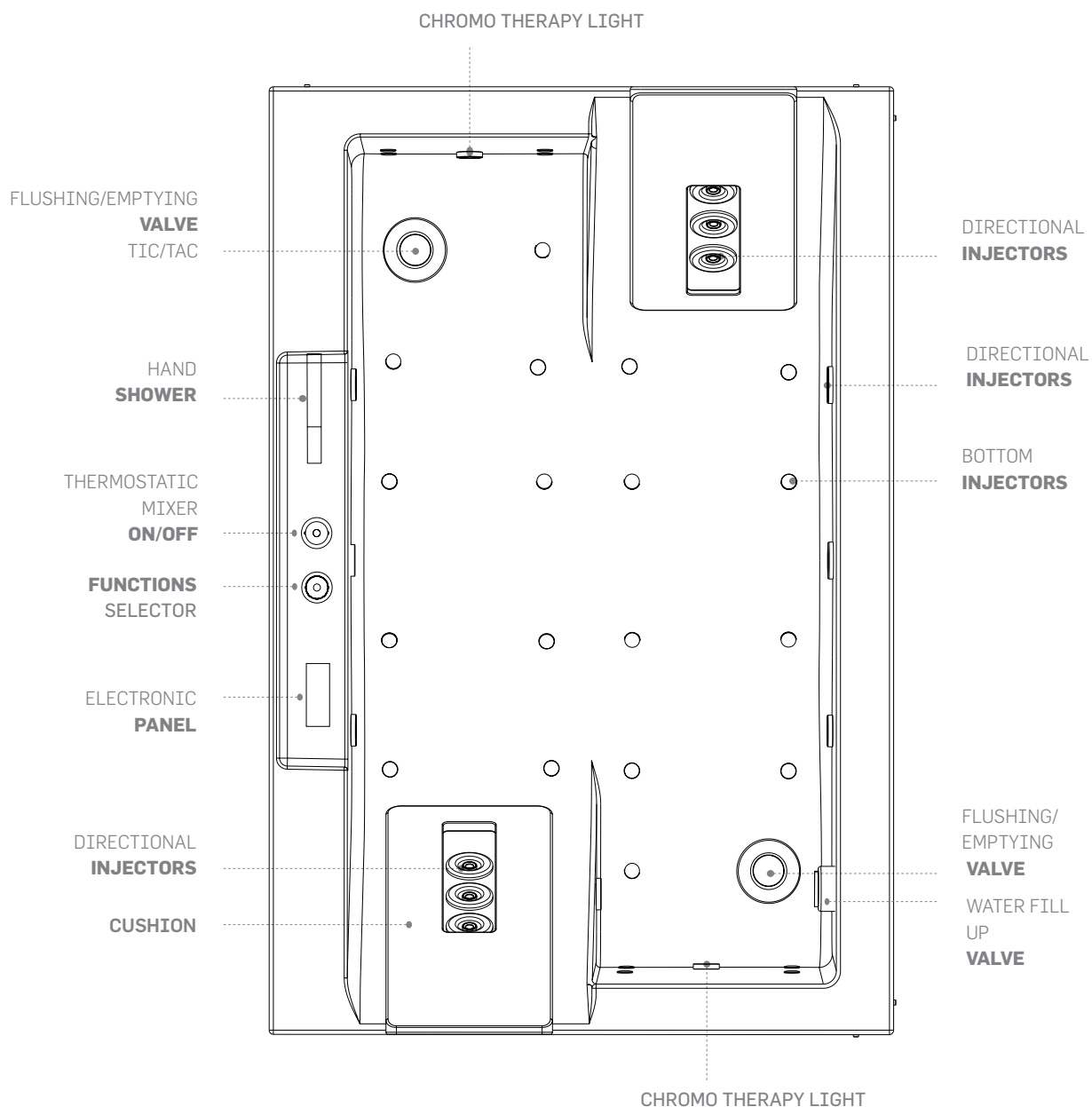
MAINTENANCE RESISTANCE

POWER 2000W

WATER CAPACITY

480 litres

COMPONENTS DESCRIPTION



CHARACTERISTICS

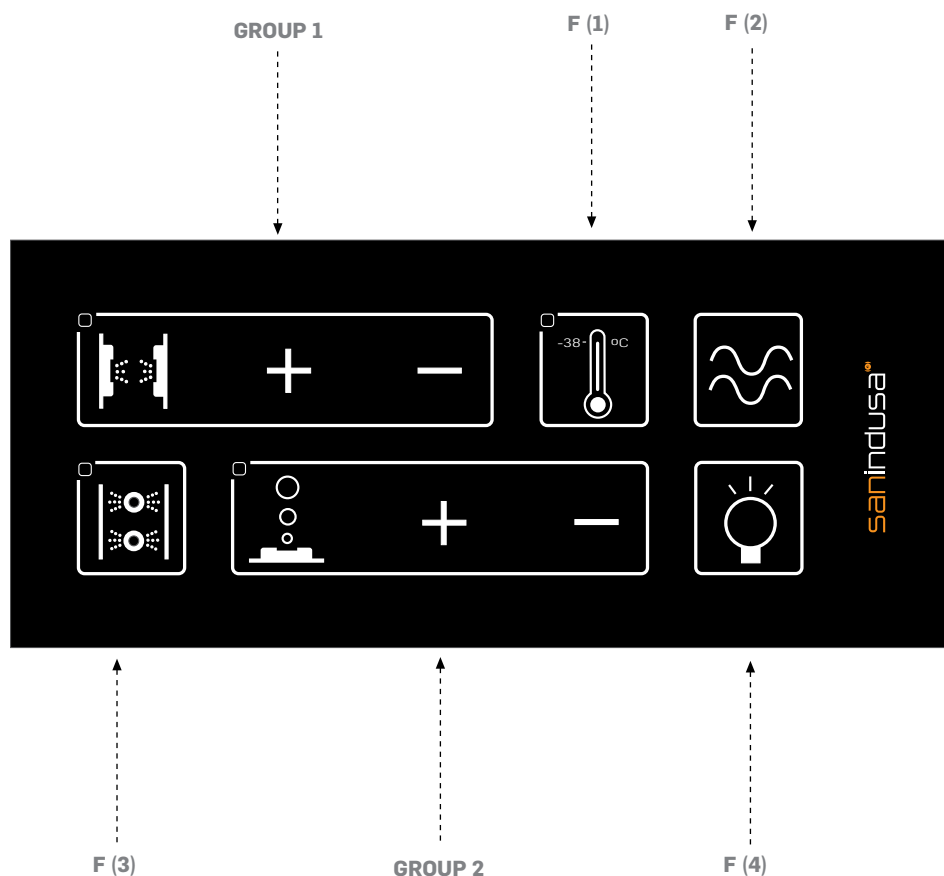
- 6 Lateral directional injectors
- 22 bottom injectors (air system)
- 6 Dorsal directional injectors
- Chromo Therapy / Light
- Retractable hand shower
- Keyboard panel
- Thermostatic mixer
- Foam Cushions

KEYBOARD PANEL

The keyboard panel has the following characteristics:

// Tactile surface.

// When the marked areas are pressed during approximately **2 seconds**, it activates the function chosen.



FUNTIONING MODE

Group 1



//To activate the lateral injectors, press 2 seconds and wait for the light signal to turn on.

// With the +/- switch you may increase or decrease the water flow of the injectors.



Temperature F (1)

// If it is pressed until a light signal shows, the water heater is being activated.

// This function is to maintain the temperature for more time.

// It stays active only when the bath has water and the pump of group 1 is running.



Cavitation (Undulation/Ripple) F (2)

//The F2 Function only works when the F (3) function is activated.

// // If pressed during 2 seconds, it activates the automatic cycle of air and water and acts on the dorsal injectors.

// To interrupt this cycle and choose a fix mode, press again the switch.

Group 2



// To activate the blower function at the bottom, press 2 seconds and wait for the light signal to turn on.

// With the +/- switch you may increase or decrease the volume of air of the injectors .



Dorsal Injectors F (3)

// To activate the dorsal injectors function press 2 seconds and wait for the light signal to turn on.

// If you decide to use this function isolated, then its functioning mode will obey to the F (2) electro valve memorized setting F (2)

LIGHTING / CROMO – THERAPY F (4)



// The chromo therapy is one of the functions that you may enjoy.

// To activate the chromo therapy function you have to press this switch.

// The function is activated in automatic mode and there is a gradual change colour passing through the different colours available.

// Pressing again this switch, it activates the manual mode, under which the colour changes are done every time you press this switch.

// Keeping this switch pressed during 3 seconds, the white light is activated.

// Pressing the switch during 5 seconds the function is switched off.

FUNCTION DESCRIPTION

HYDRO MASSAGE

// Laying down, each person may enjoy a lumbar done by 3 injectors localized in way to focus on specific zones of the back; 3 lateral, 7 on the bottom that will act on the body in general, giving you the sensation of lightness, 4 directed to massage the feet soles, acting upon the principles of reflexology.

// The water jets act as a massage, caused by the water pressure on the skin and muscle, invigorating them and stimulating the blood circulation.

// In order to obtain the maximum benefit from these massages, the injectors have to be directed to the exact place of the body. Our hydro massage injectors are directional to a 30° degree angle in all directions for a precise focus on the zone to massage.

// Sanindusa recommends that your bath has duration between **15-25** minutes.

// The recommended temperature varies between **36-37 ° C**.

CHROMO THERAPY

// Chromotherapy is another function which you may enjoy. It is about creating environments through the use of light colours as regulating agents and simulators of state of mind. Each colour has the particularity of promote different reactions over our mind and body, being able to act as stimulant, revitalizing, sedative or relaxing.

// The bath has 2 spot lights. Besides the white colour, the colours may be chosen individually, opting for a monochromatic session or an automatic colour session in which case these colours are alternated and vary sequentially from blue, violet, red, orange, yellow, green and again blue recommencing the sequence.

CHARACTERISTICS OF THE COLOURS

Blue // calming, tranquilizing and serene, induces relaxation and sleep.

Violet //creative, silent and nostalgic, reduces the excitement conditions favouring balance and creativity

Red // exciting, energetic and revitalizing, stimulates the blood circulation, helps to come out of apathy states of mind and stimulates the appetite.

Orange //positive energy, stimulating and communicative, helps to reduce nervous states of mind, fear and pessimism.

Yellow //happy, energetic and optimistic, helps to fight back the depressive states of mind, stimulating the good humour.

Green //relaxing, harmonious, calm, helps to reduce the stress state of mind and irritability, rebalancing the energies lost throughout the day.

SPECIAL FUNCTION

// After using the tub if the system remains powered electrically, about 24 minutes after emptying the bath water the blower automatically turns on and blows for about 2 minutes to dry the air piping and then turns off. After about 2 minutes the blower switches back on, blowing for about 1 minute and then running off the whole system at rest.

// During this cycle the control panel remains locked and displays all flashing LEDs.

HIDROTHERAPY

MASSAGE SYSTEMS [TWOSPACE]

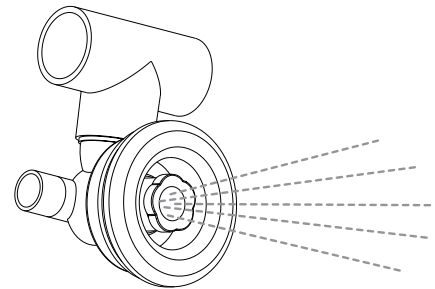
Sanindusa offers threes hydro massage systems:

- Ⓐ Water output only injectors
- Ⓑ Water and air output injectors
- Ⓒ Air output injectors

Ⓐ Water output injectors

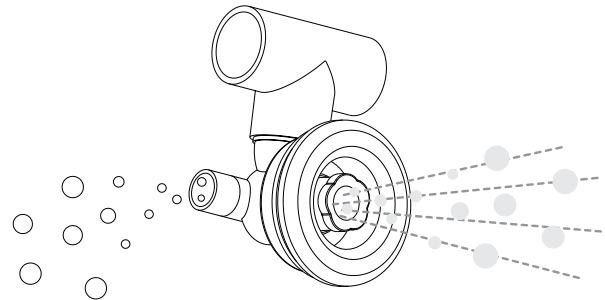
These only inject pressurized water through the lateral injectors.

This massage is smoother than with air mix.



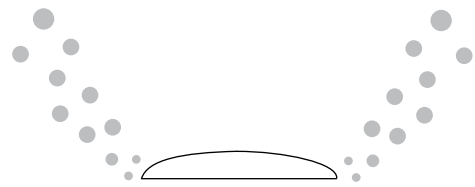
Ⓑ Water and air output Injectors

Hydro massage is done with air/water by cyclically mixing air in the injectors by a venturi system. The water gains a far more powerful and dynamic effect and reach your body with far more pressure due to the mix of air bubbles with the water. This function is present on the dorsal injectors.



Ⓒ Air output injectors

Only pressurized air is injected through the injectors, transmitting to the body a profound relaxing effect.



USE OF THE BATH

PRELIMINARY OPERATIONS

#1

- // Rotate the selector to the **ON** position.
- // Open the water valve.

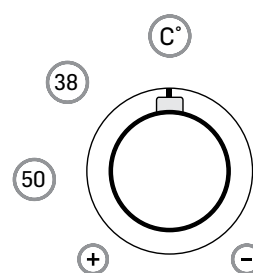
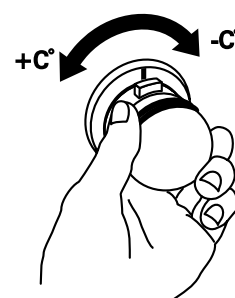


#2

- // Rotate the temperature adjustment handle to the left (+C) or to the right (-C). Up to a limit of 38 C .

- // To adjust the temperatures over 38 C, push the knob of this handle and rotate to the left

THERMOSTATIC TEMPERATURE SELECTOR



#3

- // Choose on the selector the hand shower function or fill up function

HAND SHOWER



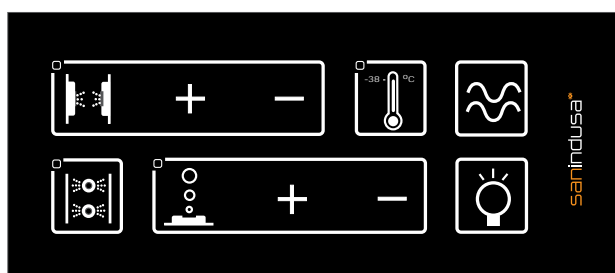
FILLING THE TUB

#4

- // Activate the keyboard by selecting a function.

Warning: The keyboard is always active as long as the bath is connected to the power mains.

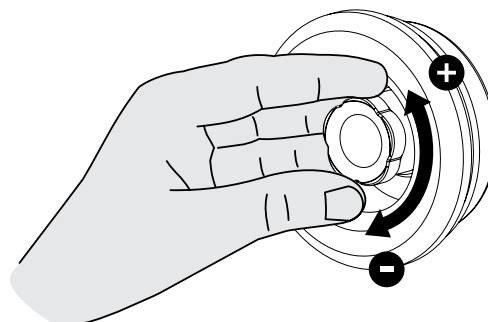
- // The keyboard functions will become active only if the water level is above the injectors level



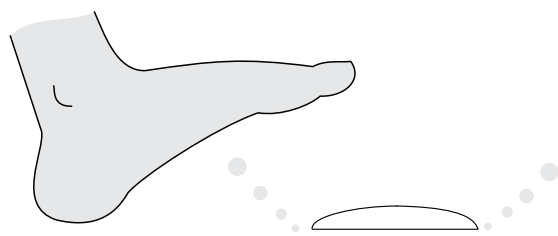
COMPONENTS

DIRECTIONABLE INJECTOR

- // The injector may be directed to the zone you most wish with the help of the thumb and the forefinger.
- // Each injector may be directed to the body part to be massaged up to a maximum angle of 30°
- // It is possible to adjust individually the water flow of the injectors, so for that you have to rotate the mouth of the injector in the hour sense to reduce and anti-hour sense to increase.
- // **It is imperative that at least 2 injectors are opened.**



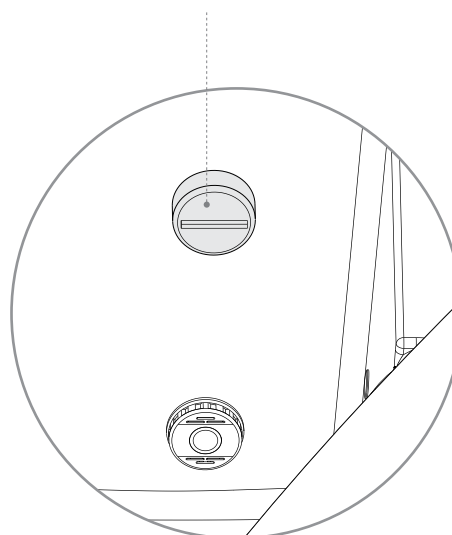
//For enjoying more comfortably a relaxing bath, the bath has 2 cushions, one for the back and the other of the head. A electronic panel regulates all the bath system.



PLANAR INJECTOR

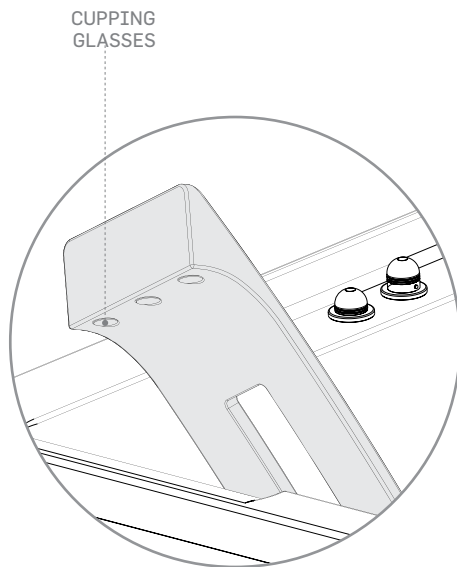
- // The planar jets are placed at the bottom of the bath to massage the lower part of your body as well as the feet.

FILL UP VALVE



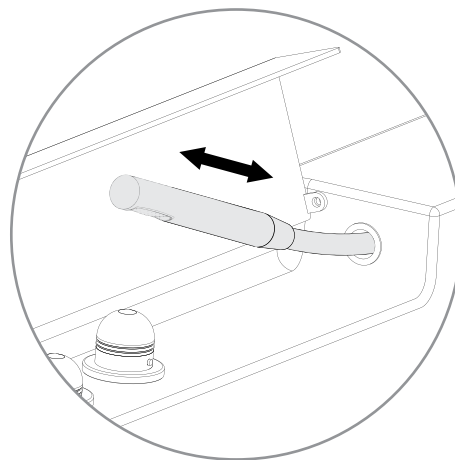
FILL UP VALVE

- // The fill up of the bath is done through a valve Installed on the inner.



CUSHIONS

// The 2 cushions of TwoSpace are made of polyurethane foam.
 // The cushions are fixed through cupping glasses Embedded in the foam and are easy to remove for cleaning/replacement, just push them out.
 //To put the cushion back in place, just press it against the acrylic surface of the back.



HAND SHOWER

// For your convenience and comfort a retractile hand shower was developed .

MAINTENANCE AND CLEANING

// As a general recommendation for all surfaces of the bath, **do not let limestone** (exists in many tap waters) **and soap residues** to deposit, so that all surfaces maintain a good look.

ACRYLIC SURFACES AND ACCESSORIES IN GENERAL

// To clean, water and neutral soap or detergent should be used. **Never use steel wool, abrasive sponge or sponge, abrasive cloth, abrasive dusts or strong cleaning products.**

// For a perfect finishing, clean with the help of a dry soft cloth or with chamois leather.

// While cleaning the bath room tiles, the bath must be protected against splashes of aggressive detergents.

METALLIC SURFACES

As to their cleaning, a soft cloth with warm water and soap as to be used.

// For a perfect finishing, clean with the help of a dry soft cloth or with chamois leather.

// Never use in any circumstance should abrasive products, either cream or liquid. Mops [steel wool, aluminum wool, synthetic] as well as artificial sponges are absolutely not to be used

CUSHIONS

// Limpe a superfície destas almofadas com um pano húmido e de seguida com outro macio e seco.

// Não utilizar detergentes abrasivos.

CLEANING SYSTEM

// Sanindusa recommends a weekly cleaning cycle if the bath is used regularly.

// If the bath is not used for a long period, Sanindusa recommends that the bath be filled up and the cleaning cycle preformed, before you use it.

// These precautions are due to the possibility of bacteria and bad odor development.

// Afterwards you take your bath in optimal conditions.



HIDROCLEAN

// **HIDROCLEAN** is a exclusive product of Sanindusa that assures the cleaning and good maintenance of your bath.

// It is fundamental to respect and follow the **HIDROCLEAN** use instructions. The product is on sale at the distributors.

TROUBLE SHOOTING

KEYBOARD

PROBLEM	DESCRIPTION	SOLUTION
The air massage is too strong/weak	The air flow is adjusted In a value to high/low	Press the switch  or 

OTHER SITUATIONS

PROBLEM	DESCRIPTION	SOLUTION
No function is activated	Power failure	Check the power mains
	the bath is not filled up enough	Increase the water level until it covers the injectors
	the interrupter or differential is triggered	Switch on and if it triggers again call a professional electrician
Water flow is not enough	Water filters obstructed	check the water connection to the bath
	Check if the water tap is completely opened	If you are not able to solve call a professional
	No water supply to the bath	
Water flow in the injectors is not enough	Injector mouth opening closed	Rotate the injector mouth opening to the left
	Aspiration drain obstructed	Avoid touching the aspiration drain when the pump is on
		Make sure that it is not obstructed by toys, pins, sponges, soap debris etc...
The keyboard panel is not active	The bath is not being fed by 230V The interrupter switch is triggered	Check the power mains

AFTER SALES SERVICE

// If this table does not help to solve your problem, please contact our distributor where you bought the product and present your problem. Always present the warranty so that you know your rights and have them recognized.

WARRANTY

HYDRO MASSAGE BATH TWOSPACE

The hydro massage equipment is warranted for a period of 24 months.

During this period **Sanindusa** compromises by its own option to repair or replace any part that presents problems caused by defective materials or by defective manufacture. Excluded from the warranty are the break downs caused by bad use or for not respecting the assembly, installation, use and maintenance instructions that are part of this manual. The warranty does not cover transport damage, handling both at load and unload operations.

Sanindusa guarantees the free supply of parts for replacement for the models its sells as well as technical assistance as long as the hydro massage bath is within the period of warranty.

The warranty certificate duly filled has to be sent to **Sanindusa** otherwise the warranty is void.

All **SANINDUSA** hydro massage bath's are in conformity with directive 2006/095/CE of December 12, 2006 for low tension apparels.

WARRANTY CERTIFICATE SANINDUSA

DETACH AND SEND SANINDUSA		N°of bathtub
Client name		
Address		
stamp n. of the client		delivery date
SANINDUSA,		

sanindusa
indústria de sanitários, s.a.

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fax +351 234 940 266

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www.tec.sanindusa.pt

sanindusa
GRUPO

Os produtos apresentados seguem especificações técnicas internas da SANINDUSA, baseadas nas normas internacionais em vigor.

As cores e dimensões são meramente indicativas.

Reservamos para nós o direito de fazer alterações técnicas que permitam melhorar a funcionalidade dos nossos produtos, sem aviso prévio.

Não nos responsabilizamos por alterações às características dos nossos produtos.

The presented products follow technical specifications from SANINDUSA, in accordance with the international regulations.

The colours and dimensions of the pieces are merely a reference.

We reserve the right to introduce technical improvements in our products without previous notice.

We don't hold ourselves responsible for any changes in the characteristics of the products in this catalogue.



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TWO SPACE

:: MANUAL DO UTILIZADOR / MANUAL DE INSTALAÇÃO

:: MANUAL DEL UTILIZADOR / MANUAL DE INSTALACIÓN

:: USERS MANUAL / INSTALLATION MANUAL

:: MANUEL DE L'UTILISATEUR / MANUEL D'INSTALLATION

sanindusa[®]