

cintroclear[®]

WATERPURIFIER & FILTRATION



PURIFIER UF 500

Installation instructions

Cintroclear is a product of the Airwatec compagny – www.cintropur.com

ACKNOWLEDGEMENT

We would like to thank you for purchasing the CINTROCLEAR UF500 water purifier. This product has been manufactured using solely optimised, quality components in order to ensure reliable, long-term operation. We are convinced that it will fulfil your expectations and we would like to take this opportunity of wishing you long and pleasant use of your Cintroclear purifier.

UNWRAPPING

When unwrapping your purifier do not put it down vertically, it is unstable in this position. Lie it down flat on its rear face. Your purifier has been subjected to several air tests during its manufacture. **To remove the plug on the blue pipe connector**, hold down the locking ring and pull the plug out, as for a pipe (see "**disconnection**" paragraph in the booklet "**using quick connectors**" on page 6).

PUTTING INTO SERVICE

Read these instructions before operating your Cintroclear UF 500 purifier. The few minutes that this takes will mean that installation is simplified.

Keep these instructions carefully and, as the case may be, hand them on to the next owner.

This unit is designed solely to purify tap water. Any other unapproved usage may be dangerous. The manufacturer declines any responsibility for damage caused to persons or goods in the event of this unit being used incorrectly or in an unapproved manner.

Installation of CintrocLEAR UF 500 water purifier

Electrical connection

IMPORTANT: to guarantee your safety when using the unit, the electrical power supply to the purifier must be fitted with a differential trip set to 30 mA. The connection to earth (ground) must be in order; if there is any doubt about this, consult an electrician.

Before installing the unit, check that it has no apparent damage. Never put a damaged unit into service. Any repairs that may be required to the unit must only be performed by qualified personnel.

Contents of installation kit supplied with our CintrocLEAR UF 500 purifier

1 special tap for pure water	2 fixing screws - 4.8 x 19 mm
3 m of water inlet pipe 3/8" (9 mm) red polyethylene	2 fixing screws - 4.8 x 50 mm
2 m of pure water outlet pipe 1/4" (6 mm) blue polyethylene	1 connection accessory Ref: RAC - 01
1 standard 230 V power supply cable	1 connection accessory Ref: DIR - 01
	1 connection accessory Ref: SEP - 01
	1 Installation instructions

Connecting purifier to water supply :

The installation kit for your CINTROCLEAR purifier contains three accessories to provide alternate ways in which to connect the purifier to the water supply.



RAC - 01: this automatic connector with a standard 3/4" thread can be screwed directly on to an unused washing machine or dishwasher tap or any other tap with a standard threaded outlet such as a laundry room tap, etc. The purifier can be connected directly to the automatic outlet.



DIR - 01: this self-tapping valve can connect directly to a copper water supply pipe of 10, 12, 14 or 16 mm diameter without any special tools other than a simple screwdriver. It is then fitted with the RAC - 01 automatic connector for direct connection of the purifier.



SEP - 01: this "Y" splitter connector allows the purifier to be connected in parallel to a tap with a threaded outlet that is already being used by other equipment. It can be placed in parallel with a washing machine or dishwasher or any other equipment. One of the outlets supplies the existing household equipment, while the other is fitted with the RAC - 01 automatic connector for direct connection of the purifier.

INSTALLATION OF THE CINTROCLEAR UF 500 WATER PURIFIER (continued)

Tools :

Your CintrocLEAR purification device is very simple and easy to install. All the pipes are connected with automatic couplings for which only a snap-off knife is needed in terms of tools. Two other tools are required: a screwdriver for mounting the purifier and a small drill fitted **with a 14 mm drill bit for drilling the hole for installing the pure water tap.**

Positioning :

The purifier is usually positioned beneath the kitchen sink or in one of the nearby kitchen units, these places are often the most simple to use. It may also be installed in any other place, as dictated by the layout of the house: room next to the kitchen, cellar, laundry room, etc. The various accessories for connecting the water supply and the small diameter of the inlet and outlet piping allow for many installation options. The purifier must always be installed in a clean and easily accessible position that allows the meter to be read and maintenance operations to be carried out simply.

Attachment :

The installation kit for your CintrocLEAR purifier contains two sets of fixing screws, allowing the unit to be installed against a wall or in a kitchen unit for example. The shape of the attachment holes in the purifier mounting plate allows it to be easily removed later for carrying out maintenance operations.

Piping:

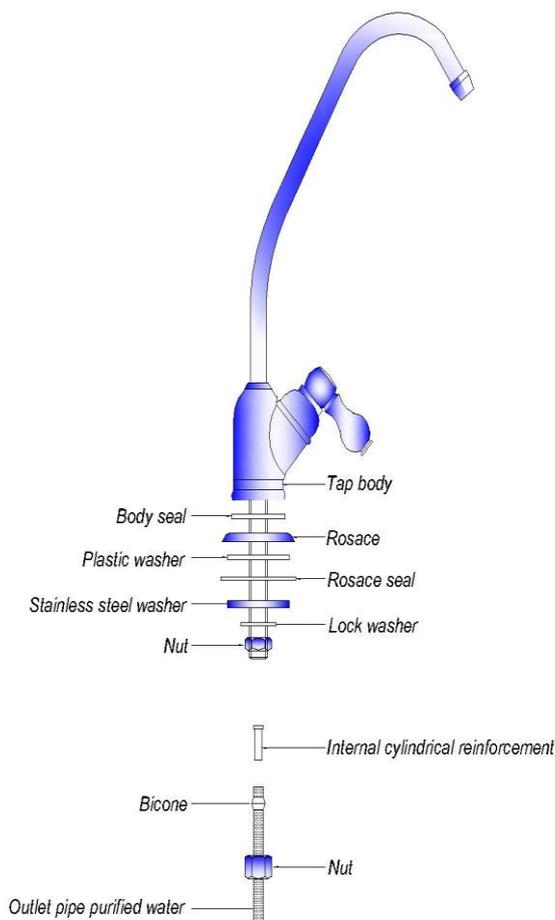
Your CintrocLEAR purifier is equipped with automatic connectors throughout. These connectors are very simple to use and they are totally reliable. When cutting the polyethylene pipes make sure you only use a snap-off knife and make neat, straight cuts without burrs.

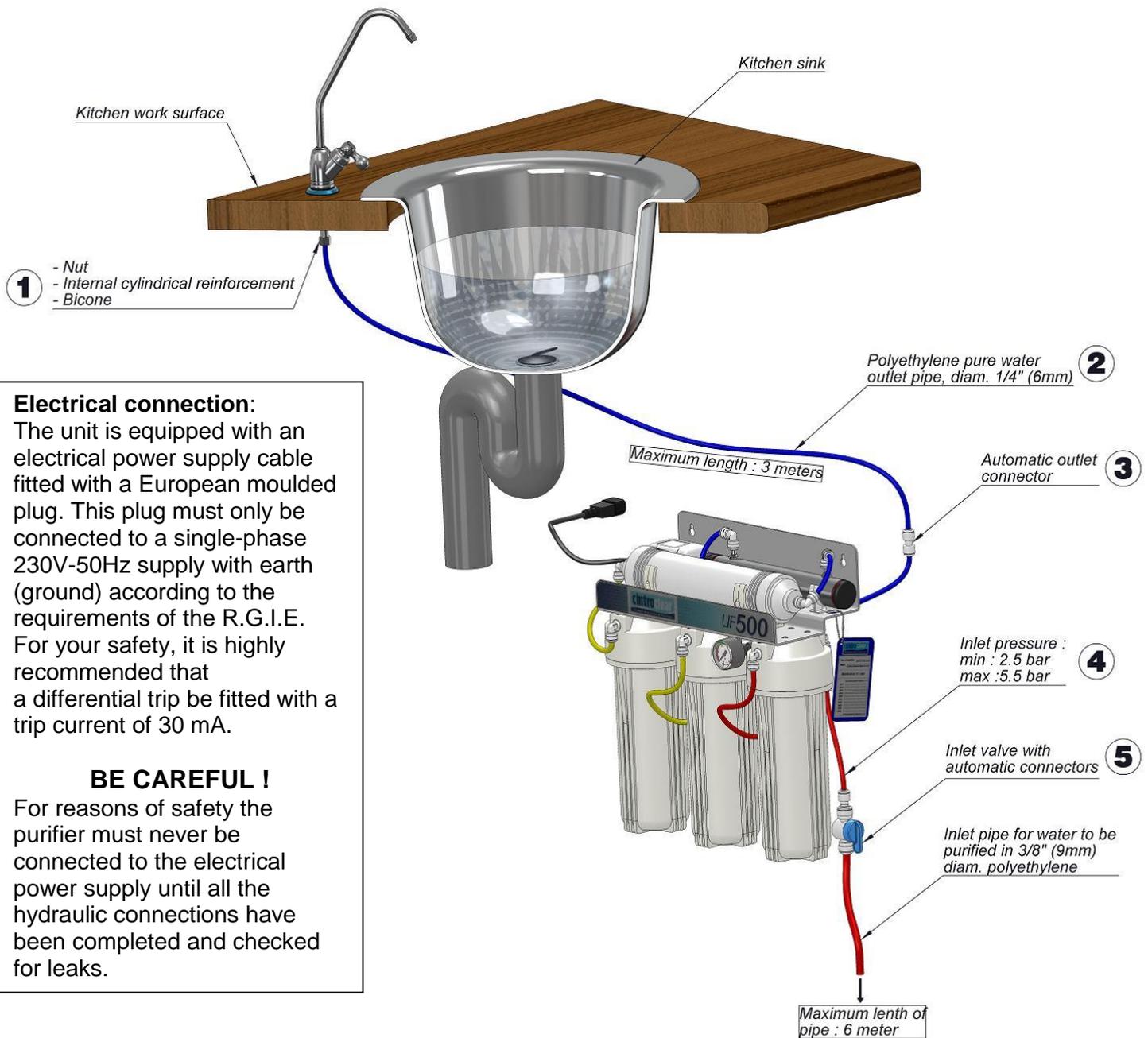
Use a snap-off knife with a new blade and cut on a softwood board. Never use a kitchen knife, scissors or wire-cutters, the cut edge of the pipe will not be smooth and you run the risk of damaging the O-ring or leaks occurring.

Attaching the pure water tap :

Position the components on the threaded tube : body seal, rosace, plastic washer and rosace seal. Then pass the threaded tube through the hole drilled previously in the wash basin or work surface. Then place the lower components on the threaded tube : st/st washer, lock washer, the nut, the internal cylindrical reinforcement, the bicone and the nut (these last 3 components are put on the blue outlet pipe) and tighten down.

Tightened down **lightly** with a tool **until it is sealed.**





Electrical connection:
The unit is equipped with an electrical power supply cable fitted with a European moulded plug. This plug must only be connected to a single-phase 230V-50Hz supply with earth (ground) according to the requirements of the R.G.I.E. For your safety, it is highly recommended that a differential trip be fitted with a trip current of 30 mA.

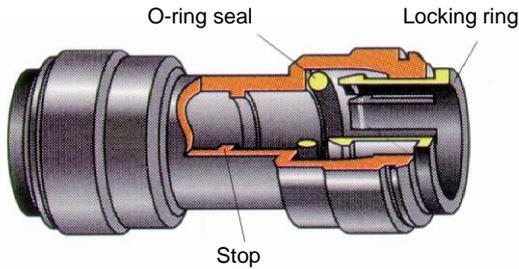
BE CAREFUL !
For reasons of safety the purifier must never be connected to the electrical power supply until all the hydraulic connections have been completed and checked for leaks.

1. The automatic connector for the pure water is a cone connector, and it must be tightened on to the tap gently using a tool.
2. The total length of the pipe between the coupling at the exit of the purification device and the pure water tap may not exceed 4 m with a maximum difference in height of 3 m (these figures are based on an entry pressure of 4.0 bar).
3. The automatic outlet connector allows the purifier to be disconnected later from the pure water tap so that maintenance operations may be carried out easily.
4. The inlet valve with automatic connectors allows the water supply to the purifier to be disconnected without shutting down the water supply line. This function is useful to disconnect your purifier from the water supply when carrying out maintenance operations.
5. The total length of the 3/8" (9 mm) red polyethylene inlet pipe must not exceed 6 metres.

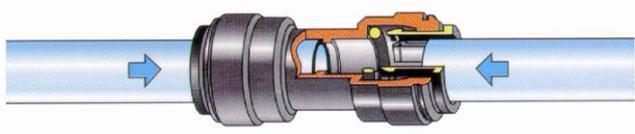
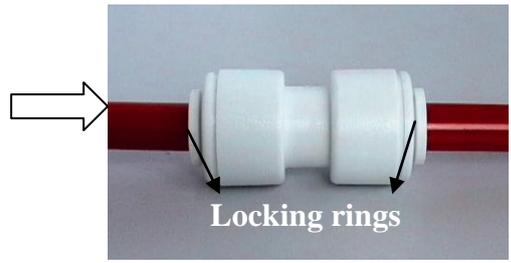
Use of instantaneous automatic connectors

In order for you to be able to install the CintrocLEAR UF 500 purifier very quickly and simply, the unit is fitted entirely with automatic connectors. These special connectors **allow all the purifier pipe work and accessories to be connected without using any tools**. They are particularly easy to use, they can be fitted in a few seconds and they are completely reliable.

PLEASE NOTE: To cut the pipes you may only use a snap-off knife with a new blade. Cut the pipe off on a softwood board. **The cut must be straight, neat and free of burrs**. Never use a kitchen knife, scissors or wire-cutters. If so, the cut edge will not be even and you run the risk of damaging the O ring when you slide the pipe into the coupling or that leaks occur.

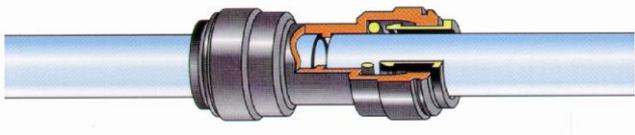


1) Cut ...
2) Push ...
Finished !



CONNECTING :

Position the pipe in the connector and **push it right home**. The depth of penetration is approximately 16 mm.

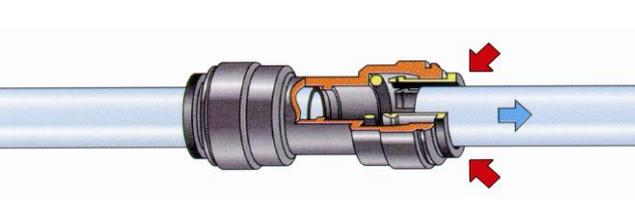


Once the pipe is right home, the stainless steel teeth hold it in position and the O-ring seal ensures a perfect seal. The connection is definitive, no further operation is required.



VERIFICATION :

Pull **gently** on the pipe to check that it is held correctly in position.



DISCONNECTION :

To disconnect the pipe, **push the ring right** on the connector (red arrows) and pull the pipe out while still **pressing the ring in**. Disconnection may be carried out several times without harming the pipe. **Before each disconnection, check that the pipe is not under pressure.**

Commissioning the purifier UF 500

IMPORTANT: before commissioning the purifier, the electrical power supply plug for the unit must be disconnected. The electrical power supply must not be connected until Point N°: 7 of the commissioning procedure described below.

Pressurisation of the purifier :

Follow the pressurisation procedure described below carefully, this will ensure that the purifier is completely purged and all trapped air is removed. During this purge operation, the unit may briefly produce some slightly coloured water, this is perfectly normal.

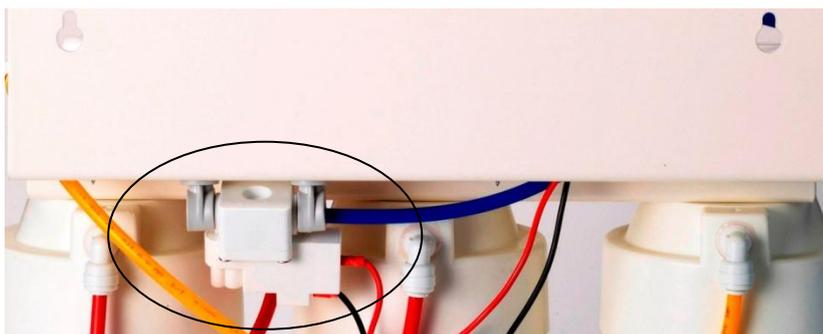
- 1) Open the pure water tap to the permanent flow position.
- 2) **Slowly open** the purifier inlet valve **until it is fully open**.
- 3) Let the tap with purified water run **for 6 minutes** (this period of time is essential for proper functioning).
- 4) **Leave the pure water tap open** and close the inlet valve for approximately 1 minute.
- 5) Open the tap at the entrance to the purification device again and let the water run from the tap with purified water **for at least 2 minutes**.
- 6) Close the pure water tap.
- 7) **Carefully check** the purifier inlet and outlet connectors for leakage, as well as the pure water tap connector. **If no leakage is detected**, connect the electrical power supply plug of the purifier.
- 8) Open the pure water tap to the permanent flow position and allow it to run for 1 minute.
- 9) Purging and commissioning of your Cintroc clear purifier is now completed.

Functioning of the UV sterilizer on the UF 500 :

The last stage of the treatment is a UV sterilizer. His working is linked to a pressure switch that you can see on the back of the purifier. This control unit guides the UV operation in relation to the water pressure at the purifier outlet. When you open the pure water tap, the UV engages itself. When you close the tap, the UV switches off.

Conditions for a good working of the UV lamp :

The good operation of the UV is directly linked to the inlet water pressure of your purifier. These recommended pressures are min. 2,5 bar / max. 5,5 bar. Outside this segment, dysfunctions may occur. Below 2,5 bar, the UV lights continually. Above 5,5 bar, the UV will not switch on when you consume pure water (possible solution : provide a pressure regulator)



Checking the ultraviolet tube :

When you activate the tap, the porthole of the ultraviolet tube produces a blue light during the whole flow period.



Maintenance

The card that hangs on your purifier reminds you that its maintenance is essential to keep a good water quality with the passing years. **The maintenance of your CINTROCLEAR UF 500 must be done once a year.** On this card bellow with pre-printed calendar you can put a cross to mark the next maintenance.

With a normal use, the replacement of the lamp is foreseen every 2 years. By some working conditions, the replacement of the lamp can be more frequently. In all cases, we advise to replace the lamp at least once every 2 years.

Your CINTROCLEAR UF 500 is meant for domestic use. The period of time between 2 maintenances is based thereon.

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WATERPURIFIER & FILTRATION

Year of installation 20 10 11 12 13 14 15

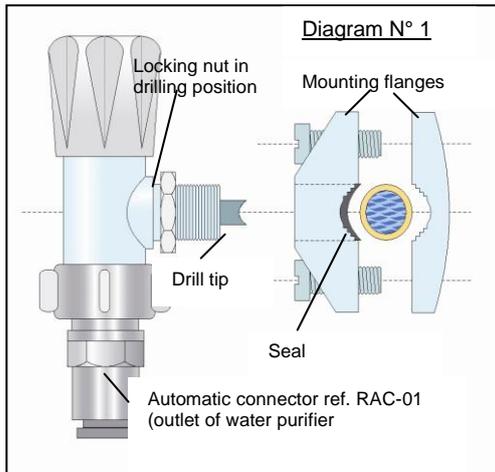
Month 01 02 03 04 05 06 07 08 09 10 11 12

Maintenance 1x / year

	01	02	03	04	05	06	07	08	09	10	11	12
2011	<input type="radio"/>											
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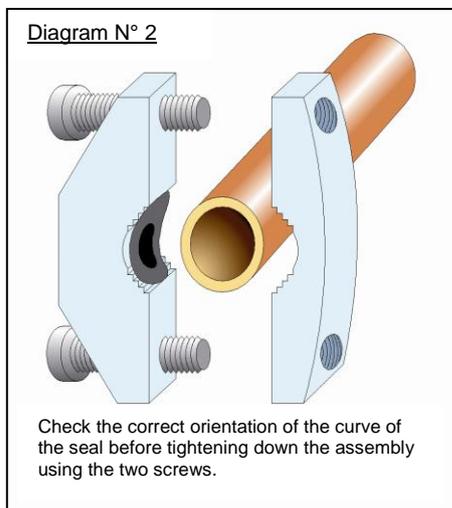
SELF-TAPPING ACCESSORY Ref: SEP - 01

This accessory allows the CINTROCLEAR water purifier to be supplied a copper pipe with diameter between 10 and 16 mm.



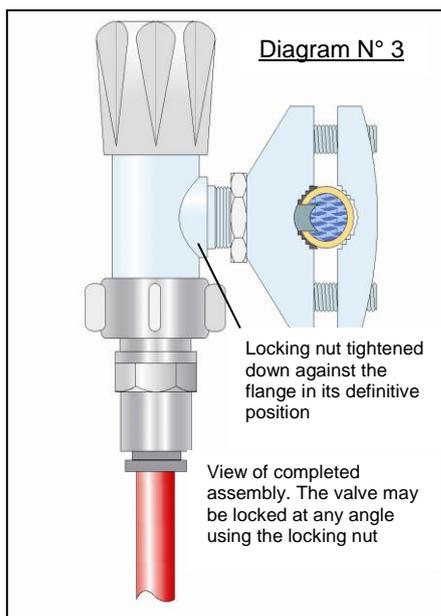
SELF-TAPPING VALVE

Installing the self-tapping valve on piping is a simple operation for which the only tool required is a screwdriver. The valve may be installed on a pipe with diameter of 10, 12, 14 or 16 mm. **Important : before installings the self-tapping valve, close the water supply tap to the house and open some taps to ensure that the system is depressurised and partially drained.**



Installation instructions

- 1) Unscrew the tap body to separate it completely from the flanges as shown in **diagram N°1**.
- 2) Place the flanges on the pipe. **Ensure that the round side of the seal is turned in the right direction as indicated in diagram N°2.**
- 3) Tighten the 2 fastening screws firmly, but without exaggerating. That is why it is best to **systematically change sides when tightening the screws.**
- 4) Once the flanges are solidly tightened down on to the pipe, screw the valve body on to the flange assembly. Before screwing the valve body on to the flange, do not forget to fit the locking ring as shown in diagram N°1, if not it will impede during the tapping operation. The valve must be tightened down hard on to the seal but not excessively since overtightening is useless and may deform the seal. When you have finished with the screws, turn the tap in the desired direction and block it by turning the lock nut on the flange as shown in **diagram N°3**.
- 5) **Check that the self-tapping valve is in the “closed” position**, pressurise the water system again, purge the air from the pipes by opening the valves slowly and check that the installed assembly does not leak. If a leak should occur on pressurisation, check that the seal is correctly orientated and that the valve is correctly tightened against the flange.

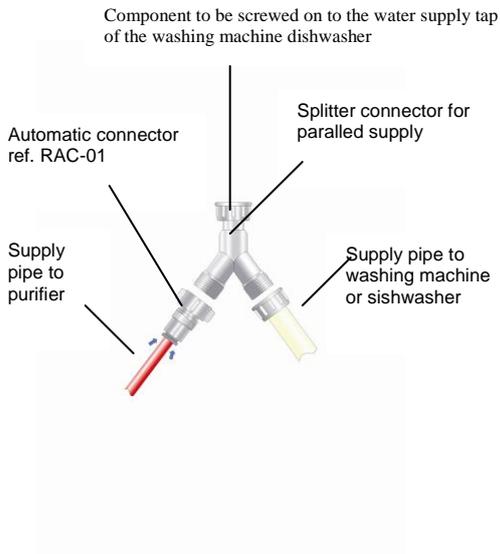


Suggestion: when the drill tip touches the copper pipe, tighten down one turn and then back off half a turn, then tighten down a full turn and back off half a turn and so on until the pipe is drilled right through. Drilling in this way will avoid burrs and crushing the copper pipe.

SPLITTER ACCESSORY ref. SEP – 01

This accessory allows the Cintroclear water purifier to be supplied with water from a washing machine or dishwasher tap.

USING



1. Unscrew the washing machine or dishwasher pipe from its supply tap

2. Screw the splitter connector directly on to the tap

3. Screw the washing machine or dishwasher pipe on to one of the outlets of the splitter.

4. Screw the automatic connector on to the second outlet of the splitter and connect the purifier supply pipe to this connector by simply pushing the pipe right home. Sealing is immediate and definitive. If it is necessary to disconnect the pipe, see page 6 "Use of instantaneous automatic connectors".