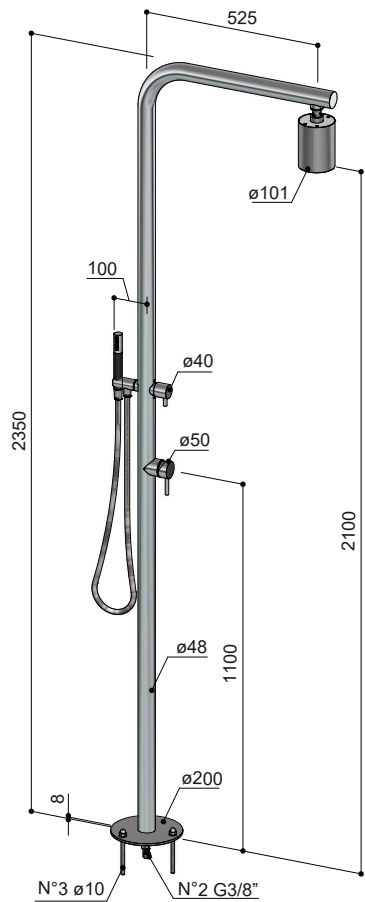


INSTRUCTIONS AND MAINTENANCE

ARMATRON
MODERNE WASCHRAUM-HYGIENE

AR090

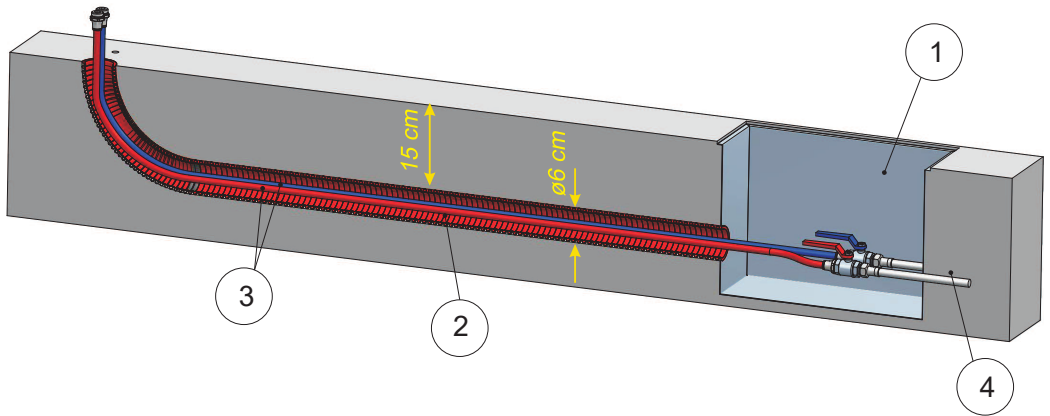
Outdoor shower column, with mixer,
monojet shower head and hand shower



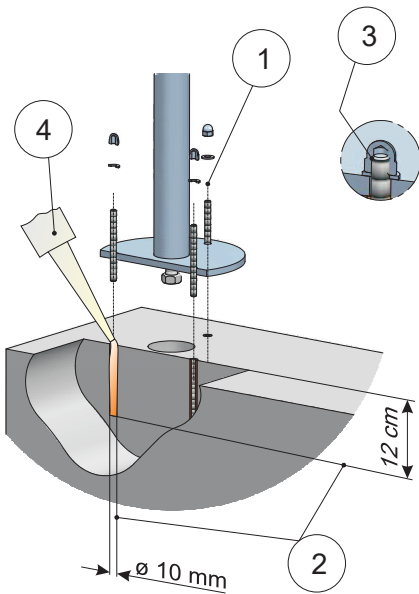
BEFORE STARTING / PRIMA DI INIZIARE / AVANT DE COMMENCER / VOR DEM START					
 P bar	 MAX 5 1 MIN	 3 1			
 T °C	 MAX -80	 -60 -45			

PREINSTALLATION

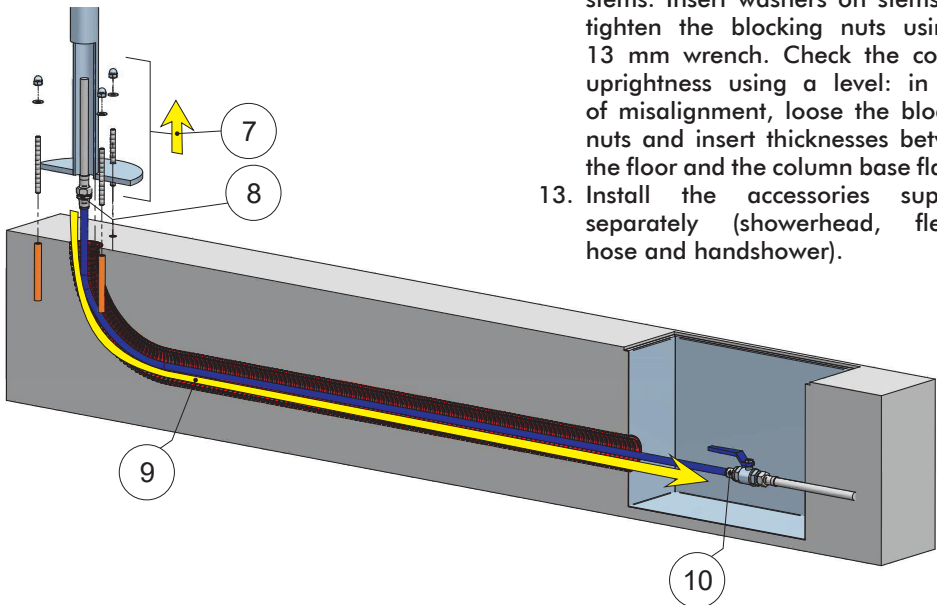
1. Prior to installation, an inspection well equipped with a stop valve shall be built. It should be of appropriate size to allow all required water connections. Together with the stop valve (or upstream) we recommend the installation of a filter, especially if the shower column will include delay stop valves
2. Downstream of the well, install a 6 cm diameter corrugated pipe; take care that the upper edge of the pipe is installed at a minimum distance of 15 cm from the finished floor surface
3. Install a polyethylene/polypropylene water supply pipe (or a similar material), finished off with a ½" male thread
4. Wash out the supply pipes upstream of the inspection well



INSTALLATION



1. Place the shower column into position and trace the 3 fixation holes. Remove the column.
2. Drill three 10 mm diameter holes, to a depth of 12 cm.
3. Mount the washers and the blocking nuts on the threaded stems supplied, taking care not to tighten the nuts (leave at half-run).
4. Inject two-component resin, starting from the bottom of the holes. Place the column in position.
5. Insert the threaded stems inside the holes, rotating them in order to allow the resin to fill the holes.
6. Remove the excess resin and clean. Wait for resin to dry up, following the manufacturer instructions.
7. Unscrew the nut and the washer. Remove the column.
8. Connect the supply pipe to the 1/2" loose nut of flexible pipe
9. Slide the supply pipe into the corrugated pipe.
10. Connect the end of supply pipe to the stop valve installed inside in the inspection well.
11. Check the static seal, with tap/mixer in position of closed water.
12. Place the column onto the threaded stems. Insert washers on stems and tighten the blocking nuts using a 13 mm wrench. Check the column uprightness using a level: in case of misalignment, loose the blocking nuts and insert thicknesses between the floor and the column base flange.
13. Install the accessories supplied separately (showerhead, flexible hose and handshower).



MAINTENANCE AND CLEANING

DEMOUNTING OF EXTERNAL PARTS (FOR SEASONAL USE)

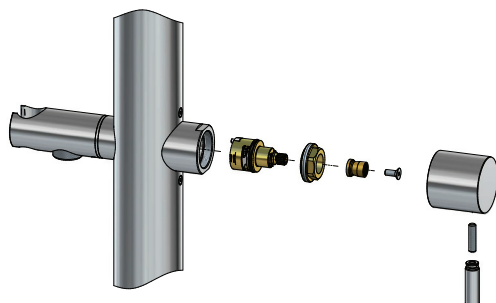
In case of long term non-use (typically: use limited to summer season only), we recommend to remove the entire shower column, demounting it in reverse order to the 'Installation' chapter (page up).

In case this would not be possible, we suggest to:

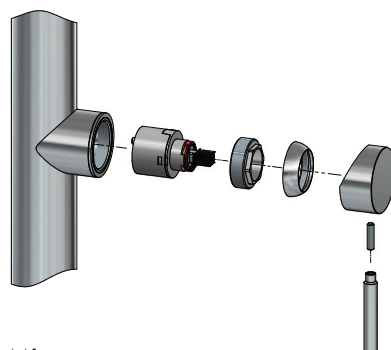
1. Remove all demountable parts: showerhead, handshower and flexible hose.
2. Close stop valve inside the inspection well (see 'Preinstallation' chapter, two pages up).
3. Unscrew supply pipe from stop valve.
4. Open tap/mixer until complete emptying of the shower column.

In case of aggressive environmental conditions (especially: exposure to high salinity or frost) we also recommend to demount all removable parts, including diverter/cartridge. Please refer to the drawings below for the demounting sequence.

Note: we recommend to tighten the blocking nut of diverter and mixer cartridge using a dynamometric key, torque 0,8 kgm.



Diverter



Mixer

PERIODICAL MAINTENANCE

- Wash frequently with freshwater in order to maintain a shiny surface, if possible using high-pressure water jetting.
- Remove periodically any visible saline deposit, lime scale, oxidation spot; clean carefully all cavities, threaded couplings, screw heads etc. Use only smooth clothes, do not use rough sponges or abrasives.
- Polish all column surface with anti-oxidizing products at least once per year, following the manufacturer instructions.

In case of aggressive environmental conditions (especially: exposure to high salinity) we recommend to polish the entire shower column surface at least three times per year or three times during the seasonal use (beginning, half, end of summer)