

CRYSTAL RIGHT, IRON AND HARDNESS REMOVAL

WHAT IS CRYSTAL-RIGHT ?

Opposite to zeolites (aluminium silicate crystals) that can be found in nature, Crystal Right is a synthetic zeolite without impurities and with pre-defined grain sizes developed for the treatment of well water.

Thanks to its unique crystal structure **Crystal-Right allows at the same time to remove hardness, iron and manganese and increases the pH.** The Pollet Water Group is the exclusive distributor of Crystal Right in Europe.

ADVANTAGES OF CRYSTAL-RIGHT

- » removes at the same time iron, manganese and hardness by ion exchange
- » removes manganese, difficult to remove by classic oxidation
- » Absorption of NH₃
- » Increases the pH (absorption H⁺)
- » Excellent filtration of non-dissolved particles
- » A regeneration needs 30% less NaCl than when using classic softeners resins
- » Chlorine has no negative impact on Crystal Right and is strongly advised when regenerating to counterattack the proliferation of bacteria.
- » No specific requirements for pumps as the backwash flow is lower than the service flow
- » Delivered in convenient bags of 22,7kg (28,3L)
- » When used appropriately, Crystal Right has a lifetime of 10 year



TERMS OF USE

Crystal right is used for the treatment of **non-oxidized iron and manganese** (water originating from wells with a certain depth)
CR 100 : minimal hardness (5,1°F) ; TDS > 80 mg/L ; pH between 5,7 en 14. Maximum content of iron- and manganese:15 mg / L
CR 200 : minimal hardness (5,1°F) ; TDS > 80 mg/L ; pH between 7 en 14. Maximum content of iron- and manganese:15 mg / L

Capacity CR100 : 3000°F/l resin ; CR200 : 4000°F/l resin.

For the removal of NH₃, CR100 is to be used.

Crystal Right cannot be rinsed with classic resin cleaners, CR Clear Out is to be used.

Flow and capacity may vary depending on the quality of the water. We advise in all cases a test with the 'mini CR test'.
Please do not hesitate to contact us with your specific request for proposal.

1. CRYSTAL RIGHT



The PWG group has developed a sophisticated equipment to exploit in a maximal way the powerful capabilities of Crystal Right. The device disposes of a powerful chlorinator that counters a possible proliferation of bacteria. It also allows the programming of an alternative regeneration with for instance an extra dose of brine when the capacity of the system exceeded. An automatic salt alarm and the possibility to schedule a service alarm are also present on the equipment. Two versions are available:

The Evolve range, contain:

- Clack Evolve valve (1" or 5/4") Volumetric + Bypass + Chlorinator
- Composite SFC Vessel (grey) + CR100
- Black brine cabinet + Platform + SBV

The Evolve Plus range, also removing the smell of H2S :

- Same configuration as the Evolve range
- Extra KDF kit for the removal of H2S smell

NHWBP option on demand

| Reference | Code | Description | Type | Volume CR (L) | Vessel | Brine tank | € | |
|---------------|--------------|----------------------------------|--------|---------------------------------|--------|------------|---|--|
| Evolve | | | | | | | | |
| 5307026515 | EV*-1044-VEV | Crystal Right Evolve 1 - 1044 | CR 100 | 28 | 10 44 | 130 L | | |
| 5307026516 | EV*-1054-VEV | Crystal Right Evolve 1 - 1054 | CR 100 | 42 | 10 54 | 130 L | | |
| 5307026511 | EV*-1354-VEV | Crystal Right Evolve 1 - 1354 | CR 100 | 71 | 13 54 | 130 L | | |
| 5307026514 | EV*-1465-VEV | Crystal Right Evolve 1 - 1465 | CR 100 | 99 | 14 65 | 200 L | | |
| 5307026513 | EV*-1665-VEV | Crystal Right Evolve 1 - 1665 | CR 100 | 127 | 16 65 | 200 L | | |
| 5307021867 | EV*-1865-VEV | Crystal Right Evolve 1.25 - 1865 | CR 100 | 170 | 18 65 | 200 L | | |
| 5307029410 | EV*-2160-VEV | Crystal Right Evolve 1.25 - 2160 | CR100 | 192 | 21 60 | 200L | | |
| | | | CR 200 | Additional cost per liter CR200 | | | | |

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|--------------------|----------------|---------------------------------------|--------|---------------------------------|-------|-------|--|--|
| Evolve Plus | | | | | | | | |
| 5308026517 | EV*PL-1044-VEV | Crystal Right Evolve Plus 1 - 1044 | CR 100 | 28 | 10 44 | 130 L | | |
| 5308026518 | EV*PL-1054-VEV | Crystal Right Evolve Plus 1 - 1054 | CR 100 | 42 | 10 54 | 130 L | | |
| 5308026519 | EV*PL-1354-VEV | Crystal Right Evolve Plus 1 - 1354 | CR 100 | 71 | 13 54 | 130 L | | |
| 5308026520 | EV*PL-1465-VEV | Crystal Right Evolve Plus 1 - 1465 | CR 100 | 99 | 14 65 | 200 L | | |
| 5308026521 | EV*PL-1665-VEV | Crystal Right Evolve Plus 1 - 1665 | CR 100 | 127 | 16 65 | 200 L | | |
| 5308029150 | EV*PL-1865-VEV | Crystal Right Evolve Plus 1.25 - 1865 | CR 100 | 170 | 18 65 | 200 L | | |
| | | | CR 200 | Additional cost per liter CR200 | | | | |

| Duplex Evolve | | |
|--|----------|------------------------------|
| Duplex installations are also available. 2 CR-units are to be selected and following articles to be added: | | |
| 5303029141 | V3069MM | Alternating valve 1/125 M-M |
| 5303024087 | V3191-01 | WS1 Bypass Verticaal Adapter |
| 5303024087 | V3191-01 | WS1 Bypass Vertical adapter |



| Reference | Code | Type | € |
|------------|--------------|---|---------|
| 5307002150 | CR/MINI | Test device mini Crystal Right (to be regenerated before use) | |
| 1003015005 | CR/CLEAR OFF | Cleaning agent for Crystal Right (bottle of 5 liter) | |
| 5301021559 | | Crystal-Right Medium CR100 | CFT |
| 5301021562 | | Crystal-Right Medium CR200 | CFT |
| 0906011656 | | KDF Medium | 1/3 CFT |
| 0602027906 | | Brine cabinet 130L for Crystal Right Evolve (With SBV 474, BLFC and platform) | |
| 0602027907 | | Brine cabinet 200L for Crystal Right Evolve (With SBV 474, BLFC and platform) | |
| 1709055516 | CR/CAR | Crystal Right Filter cartridge (20" MAZ, to be used With a big blue filter) | |