

CUSTOMIZED SOLUTION

We combine different technologies to achieve the most efficient and economical way to remove/reduce arsenic level to potable water drinking standards.

NETWORK READY

We provide an Ethernet port in our PLC so you can connect and pull all the information you need.

LOW CHEMICAL CONSUMPTION

Due to the fact that getting chemicals has been an issue for some customers we use technologies that require less chemicals.

CONTAINERIZED OPTION:

System is build inside the standard ISO 40 feet container proving a robust and reliable housing for the delicate equipment inside and expediting the deployment and commissioning of the system substantially.

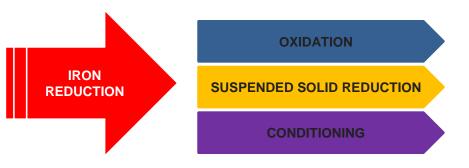
APPLICATION SHEET IRON REMOVAL

Processes for the removal of iron must be approached with an understanding of the water source, iron and manganese concentration, chemical form, and any additional contaminants or species that require removal. In addition, the end use of the water must be considered to determine what level of treatment is required and whether iron and manganese removal should be considered as a treatment step preceding other water purification methods.

Iron and manganese are problematic in water due to their tendency to oxidize and precipitate as precipitate as insoluble oxides under a variety of conditions, causing both aesthetic and process water problems. In a potable water system iron and manganese frequently result in consumer complaints due to the metallic taste which they often impart to drinking water and beverages, and staining of laundry and porcelain fixtures.

SOLUTION:

In general the most effective steps to remove iron and manganese to achieve potable water admissible levels are:



OPERATING PARAMETERS:

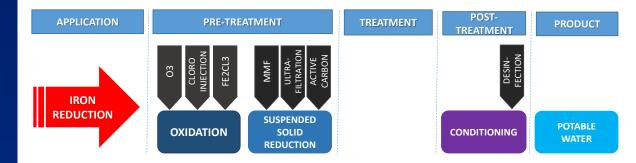
Since every water source has different composition, we strongly recommend to perform a complete water analysis to properly size the arsenic removal solution that meet the customer's criteria. These are the basic parameters to know in order to properly size the solution

- Total dissolved solids (TDS)
- Iron content (Fe)
- Hardness (Ca and Mg)
- Manganese (Mn)
- BOD
- Turbidity
- Heavy metals content (Pb), (Cd), Cr, (Sb) and (Mo)
- Incoming Power
- Incoming feed flow and source

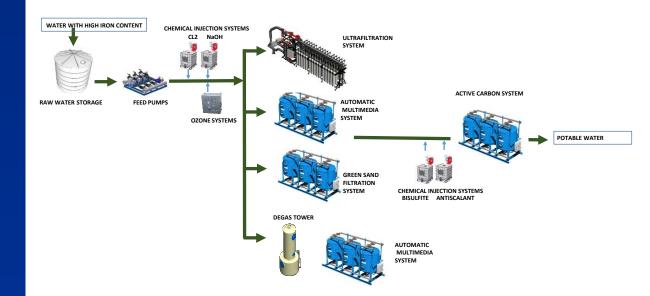


OUR SOLUTION

Typically we recommend the following steps:



Complete flowchart for iron removal below showing the ADVANCEES systems. This flowchart vary based on raw water quality and customer's requirement. Many options and combinations are possible, the best solution needs to accommodate the minimum life cycle cost such as low operating cost, low maintenance, easy to operate and monitor



TECHNICAL SUPPORT

Commissioning, Start-up, operators training, maintenance training, retrofits and modernization are available.

ZERO DOWNTIME

We supply all the basic two years critical spare parts with our units. Also we use very well know and proved components in all of our systems.

TURNKEY SOLUTIONS

We can provide the basic RO systems plus all pretreatment and Post treatment such as:

- Chemical injection systems
- Multimedia systems.
- Calcite contact tanks
- Ozono generators
- UV desinfection
- H2S removal

For more information on any of our products or services please visit us on the Web at: www.advancees.com



Technical Data:

Component	Brand	Model
Feed pumps	Ampco	AZC
	Goulds	HSS - ESV
	Grundfos	CRN
MMF	Fluidra	MSS
	Waterco	HPW
Injection pumps	Prominent	
	Pulsafeeder	
UF modules	Qua	Qua-sep
	Polycera	Titan
RO membranes	Lg H2Onano	SWR
	Lewabrane	SWRO
HMI (touch screen)	C-more	EA9 – 7"
Back wash pumps	Goulds	HSS – ESV
	Grundfos	CRN
High pressure piping	Zenon	Super duplex
Low pressure piping	Gf	Sch 80 – Gray
High pressure switch	Prosense	MPS – 150 PSI
Low pressure switch	Prosense	MPS – 1500 PSI
Variable frequency drive	Powtran	P19000
Filters media	Turbidez	Zeolite
Cartridge filter 5 micros	Hmd	7-40
Inlet Valve actuator	Valworx	45554
Conductivity meter	Hm-digital	PS-150
Flow meter digital product	Gf-signet	2536
Flow meter digital reject	Gf-signet	2536
Adsorbent arsenic media	Lanxees	FO-36

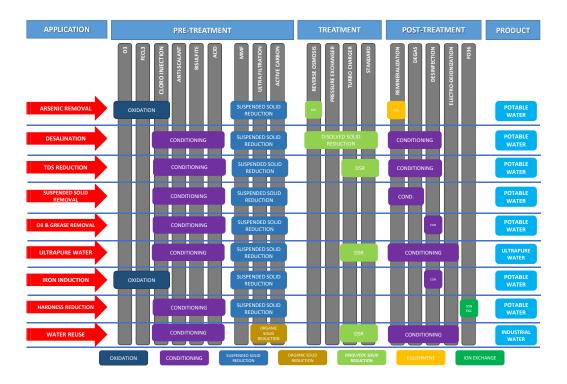
CUSTOMIZATION

We customize any of our system to your needs, please send us your inquiry for a quick proposal. sales@advancees.com

For more information on any of our products or services please visit us on the Web at: www.advancees.com



Other Applications Offered:



You can find more detailed information of the different applications at www.advancees.com/applications

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