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SW-GS10 Gasoline Engine

Raw Water	Seawater, River, Well, Pool, etc.
Production Capacity	7 l/m = 420 l/h = 10t/day
Power Source	Gasoline Engine
Membrane Filtration	RO membrane (w/ feed pump)
Dimensions (mm)	W820 × D600 × H1,090
Weight (kg)	75kg (w/ casters)

SW-GS5 Gasoline Engine

Raw Water	Seawater, River, Well, Pool, etc.
Production Capacity	3.4 l/m = 200 l/h = 5t/day
Power Source	Gasoline Engine
Membrane Filtration	RO membrane (w/ feed pump)
Dimensions (mm)	W730 × D490 × H1,090
Weight (kg)	40kg (w/ casters)



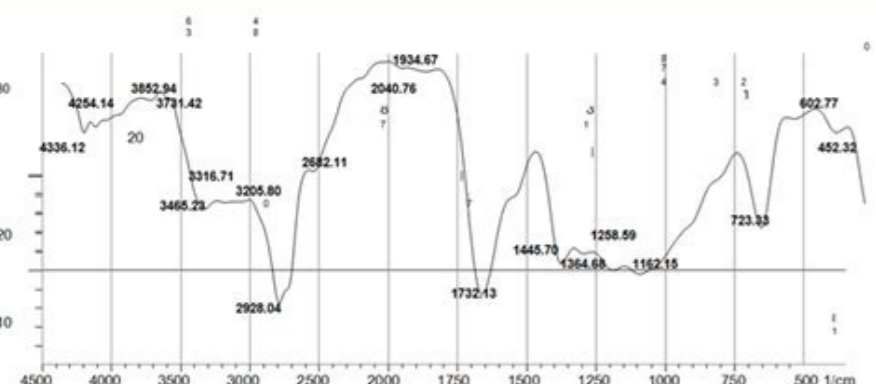
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These include disposal to surface water bodies, evaporation ponds, or to wastewater treatment plants. How many brackish groundwater desalination plants are currently in operation in Texas? How will seawater desalination projects be funded? Back to List of Questions 11. If an entity wishes to build a desalination plant and does not need state funding, does the TWDB have a say in whether or not it gets built? Texas is building a seawater desalination plant for industrial use (see Question 16, above). An overview of a permitting roadmap for seawater desalination facilities in Texas using reverse osmosis processes (2.63 MB) is available in TWDB Report 363. Back to List of Questions 12. There are about 325 brackish groundwater desalination plants in the United States. How will desalinated seawater reach non-coastal areas for use? Development of seawater desalination along the Texas Gulf Coast will help relieve stress on existing conventional surface water and groundwater supply sources in coastal areas which in turn could make these resources available to water users located away from the coast. The thermal process involves heating saline water to produce water vapor which is then condensed and collected as fresh water. The 370-mile-long coastline of the Texas Gulf Coast provides access to an infinite volume of seawater for desalination. Potentially, once desalinated seawater becomes available in the coastal areas, there would be a ripple effect benefit for the environment and water users located away from the coast. It depends on several factors including source water, location, treatment process, and the size of the plant. How are the impacts to the environment considered in the development of desalination projects? Brine contains dissolved minerals and other contaminants that are removed from the water during desalination. Back to List of Questions 6. In April 2002, Governor Rick Perry directed the Texas Water Development Board to develop a recommendation for a large-scale seawater desalination demonstration project. How many seawater desalination plants? In total, recommended desalination projects would create about 230,000 acre-feet per year of new water supplies by 2070, with 48.3 percent (111,000 acre-feet per year) of this water coming from brackish groundwater desalination, 50.4 percent (116,000 acre-feet per year) coming from seawater desalination, and 1.3 percent (3,000 acre-feet per year) from surface water desalination. Inland, more than 2.7 billion acre-feet of brackish groundwater is present in the aquifers of the state, providing yet another potential source of water for desalination. What is the average unit cost of desalinated brackish groundwater? Recent advances in membrane technology have lowered desalination production costs making seawater desalination a more competitive option along the coast. Back to List of Questions 5. For concentrates produced in inland facilities, a few other options exist. Back to List of Questions 19. Back to List of Questions 4. How is desalination considered in the Regional and State Water Plans? Why is desalination an important issue in Texas today? Whether desalination will replace, supplement, or complement other technologies will depend to a large extent on its affordability and the availability of the raw resource (brackish groundwater or seawater) close to areas of expected shortages. Additional information on the cost of desalination plants in Texas is available at Cost of Desalination in Texas Back to List of Questions 09. The TWDB does not have regulatory authority. Almost half of them (45 percent) are in Florida, 14 percent in California, and 9 percent in Texas (Mickley and others, 2011 and Nicot and others, 2005). Of the six active seawater desalination plants, three are used for municipal purposes. In 2007, \$87 million was spent to build the Kay Bailey Hutchison brackish groundwater desalination plant in Texas. Back to List of Questions 7. Concentrate produced during seawater desalination can be disposed through deep well injection on land or returned to the ocean in a controlled process to avoid detrimental effect to the environment or marine life. Back to List of Questions 10. At present, there are no seawater desalination plants in Texas. In general, cost of desalinated brackish water can range from \$1.25 to \$2.60 per 1,000 gallons, whereas desalinated seawater may cost anywhere from \$3.60 to \$5.80 per 1,000 gallons. EIS studies are the responsibility of the project owners. The state financial assistance programs, federal appropriations, and private participation may be used for funding desalination projects. Desalinated seawater could be piped directly to non-coastal customers using existing or new pipelines. Building a brackish water desalination plant usually costs less than that of a seawater desalination plant because brackish water is generally cleaner and contains less total dissolved salts (see Question 2, above). TDS concentration of brine is also very high (>10,000 mg/L). The two most common desalination technologies are thermal and membrane technologies. Back to List of Questions 14. California is also proposing about nine desalination plants along the Pacific Coast. If you have any general questions about desalination including policy or legislative issues, or need information on TWDB's seawater and brackish groundwater desalination projects, please contact Erika Mancha (512-463-7932). Back to List of Questions 16. The Governor's vision is to procure a drought-proof source of water for all Texans. What is the difference between them? Back to List of Questions 11. An Environmental Impact Statement for such a desalination project will need to consider and evaluate all potential impacts to the environment, and identify the best management practices to eliminate or reduce adverse impacts. Desalinating seawater involves some processes that could impact marine life. How many desalination (brackish water and seawater) plants are there in the United States? Unit cost of desalinated water is a function of capital cost, debt service, and operating cost. The increasing demand for water, coupled with the state's vulnerability to drought events, has compelled water planners to consider all potential sources of water in their planning efforts. Desalination is the process of removing dissolved salts from water. For example, intake of seawater can entrain marine life, but screens placed at intake locations at power plants and industrial facilities have successfully demonstrated that this type of impact can be significantly reduced. Texas currently has a total municipal desalination capacity of approximately 142 million gallons per day (159,060 acre-feet per year) which includes 85 million gallons per day (95,212 acre-feet per year) of brackish groundwater desalination, 54 million gallons per day (60,488 acre-feet per year) of brackish surface water desalination, and 2.5 million gallon per day (2,800 acre-feet per year) of reclaimed water advanced treatment. However, the TWDB's financial assistance programs are tools to support the development of water management strategies identified in the Regional and State Water Plans rather than as a permitting process. How much does it cost to build a desalination plant? What happens to the salt that is removed from the water? If desalination plants become widespread, could Texas avoid having to build new dams and reservoirs to meet water needs in the future? Back to List of Questions 2. Concentrate management can become one of the most important factors in determining the feasibility of a plant. Back to List of Questions 13. In a reverse-osmosis system, the greater the TDS concentration of the water, the higher the pressure needed for the pumps to push water through the membranes, and consequently, the higher the energy costs. In the 2017 State Water Plan, 9 of 16 regional water planning groups (regions E, F, H, J, L, M, N, O, and P) recommended desalination as a water management strategy to meet at least some of their projected water need. Brackish water typically contains TDS in concentrations ranging from 1,000 milligrams per liter (mg/l) to 10,000 mg/l. Back to List of Questions 3. I often hear terms like brackish water, saline water, seawater, and brine in reference to desalination. However, those impacts can be avoided or minimized by implementing environmental safeguards at every phase of the project from planning its location to operating it in a manner that results in acceptable water quality and brine loading at the discharge. In some instances, the concentrate can also be utilized beneficially for industrial processes. Are there desalination plants in other countries? Collectively, these plants have a capacity of approximately 123 MGD (Source: TWDB Desalination Plant Database, 2012). EIS studies are conducted to identify and investigate possible impacts of disposing waste on the state's soil, air, and water resources and to recommend steps to avoid or reduce these impacts. Back to List of Questions 18. However, in winter 2017, M&G Resins USA, LLC will finish building and begin operating the first seawater desalination plant for industrial use in the Port of Corpus Christi Inner Harbor. Where are most of them located? Membrane processes can be pressure-driven (reverse osmosis or RO, the most common method used in desalination), or voltage-driven (electrodialysis and electrodialysis reversal). Regardless of the funding mechanism, a whole host of local, state, and federal permit requirements apply to desalination plants, and appropriate permits must be obtained by the entity seeking to build the plant before construction can begin. As an example, planning for the 27.5-MGD Kay Bailey Hutchison Brackish Groundwater Desalination Plant started in 2001, a draft Environmental Impact Statement was completed in July 2004, construction of the plant commenced in early spring 2005, and the construction was completed in 2007. Design capacity of the KBH plant is 27.5 million gallons per day (MGD). The concentrate stream contains the majority of the dissolved minerals and other contaminants, which needs to be safely disposed of. Seawater and brackish groundwater desalination are one of many tools in the State's long-term water supply toolbox. Whom can I contact at the Texas Water Development Board for more information about desalination and desalination projects? The 2010 biennial report on seawater desalination projected that it will cost approximately \$32 million to build a 2.5 MGD seawater desalination plant, and approximately \$658 million to build a 100 MGD seawater desalination plant in Texas. Saline water or salt water has more than 10,000 mg/l TDS. California has a total of 10 operating seawater desalination facilities, where 6 plants are active and four are not (Cooley, 2016). An additional 50 municipal desalination plants with a design capacity of 35,000 mg/l. Desalinating seawater is, therefore, usually more costly than desalinating brackish water (see Question 8, below). Obviously, it depends on the size and complexity of the plant, and whether it has to be built from scratch or can use existing water intake structures. (Source: TWDB Desalination Plant Database, 2016) In 2012, there was 46 desalination plants in Texas with a design capacity of >0.023 million gallons per day (MGD) that are used for municipal purposes. The primary difference between the types of water mentioned above is in the amount of total dissolved solids (TDS) they contain. Projects submitted for TWDB funding must demonstrate consistency with those plans. The time required for full implementation of a desalination plant varies from project to project. It is now routinely considered in the regional water planning process as a tool to meet future water needs. Back to List of Questions 15. The 50-MGD desalination plant at Carlsbad, California is the largest seawater desalination plant in the country and the 25-MGD desalination plant at Tampa Bay, Florida, is the second largest. Seawater? Back to List of Questions 17. How can water users not located on the coast benefit from desalinated seawater?

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