

Solution For Brophy College, Arizona

NEX-GEN-80_{PH} ON-SITE CHLORINE GENERATOR



BROPHY COLLEGE PREPARATORY
A Catholic, Jesuit School for Young Men

A WHOLE NEW SYSTEM BEFORE OPENING DAY.

When the Brophy College Preparatory in Phoenix, Arizona designed their new state of the art outdoor 50m swimming pool only the best was acceptable. On-site chlorine generation was determined to be safer and more cost effective than any other sanitizing options. ChlorKing specified a NEX-GEN 80 on-site chlorine generator, capable of producing 80lb's of FAC per day for this 870,000g pool.



Safer water through smarter technology

SCOPE OF PROJECT

Current Situation

New construction

Location

Phoenix, Arizona

Recommendation

The ChlorKing® NEX-GEN_{pH} 80 as a stand-alone, on-site chlorine generator capable of producing 80 lbs of pH neutral FAC per day was determined to be sufficient for the 870,000g outdoor pool.

Specifications

- Touch-screen display
 - › Size 5" x 4" color display
 - › Resistive touch membrane overlay
- Built in safety sensors
 - › Air, water, pressure, & level sensors
 - › Power supply
 - › 100 amp 48v DC water-cooled
- Electrode stacks
 - › 4-20 lb, 15,000 hr forward polarity in clear housing
- Operating temperature
 - › 35°F (2°C) to 115°F (46°C) air temperature
 - › 40°F (4°C) to 104°F (40°C) water temperature

- Electrical specifications
 - › Max primary amps – (62)
 - › Voltage / Hz – (208-240v 60Hz single phase)
 - › Breaker required – (100 amp)
- Skid dimensions & weight
 - › 76" L x 32" W x 69" H (1,250 lbs)
 - › 56" L x 28" W x 48" H (salt feeder)
- Plumbing requirements
 - › 2" inlet and outlet requiring 80 gpm
 - › 3" outlet for hydrogen removal to atmosphere
 - › Maximum NEX-GEN venturi return line pressure 25psi (including pool return line)

Main Features

- On-site chlorine generator capable of producing 80 lbs FAC (equivalent to 80 gal of 12% bleach) per 24 hrs.
- Process uses swimming pool water to produce sodium hypochlorite (no fresh water added)
- No salt is required in the pool
- pH neutral chlorine produced
- Programmable touch-screen with auto correct features

Results

- A better, safer solution for a prestigious college.

ChlorKing pioneered on-site chlorine generating technology in the 1970's. Realizing the potential for swimming pools and commercial applications, the company began generating "ultimate water" with simple, yet highly advanced technology. Today, ChlorKing® leads the way in commercial saline chlorination and is consistently seeking new frontiers in sanitizing solutions including ultraviolet light technology and their NEX-GEN® pH onsite chlorine generators. These environmentally friendly solutions are changing the way we treat H₂O.



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BROPHY PREPARATORY COLLEGE
PHOENIX, ARIZONA
870,000 gallon outdoor 50m pool
ChlorKing NEX-GEN 80 chlorine generator

On-site Chlorine Generators

Ultraviolet Light Systems

Mixed Oxidant Systems