

Big Springs UV Review

Additional Data Required

- ① Reactor schematic/drawings, lamp & sensor specs, lamp & sensor locations, inlet & outlet configuration and piping, etc
for both the validated (UV Fit) and the installed (UV Phox) reactors
(Note: The validation report describes the inlet & outlet piping for the validated reactor; we need the same information on the actual installation)

Validation conditions

Inlet piping: 90° elbow → 90" of 16" D pipe → 16" x 20" reducer → 86" of 20" D pipe → reactor

No. of Lamps: 72 Configuration: mounted horizontally, parallel to flow

Lamp Specs: Heraeus Noblelight, LPHO lamp (Trojan P/N 794447)

Reactor Model: Trojan UV Fit 72AL75

?! → No. of Sensors: 1 Configuration:

Sensor Specs: Trojan P/N 015389-PX-S-480N

$Q = 0.725 - 7.39$ MGD (0.7-7.4 in the Brassay Tables, see p14-15 and elsewhere)

→ UVT = 40% - 81% (40.3-81 in the Brassay Tables, see p14-15 and elsewhere)

Power = 60-100%

(UVT adjusted w/ Super Hume)

② ANSI/NSF Std 61 Certification

- ③ Monitoring and Off-spec Alarms & Shutoffs - "Only 1 sensor, how do we monitor individual lamp failure"