

A controlled noise study of QuantumFlo's  
Triplex WisperFlo™ System operational dB levels.

# NOISE STUDY: QUANTUMFLO'S

# WISPERFLO™ SYSTEM

## HYPOTHESIS

QuantumFlo's systems operate at a dB level equal to or less than a normal conversation between two people (50 dB).

## METHOD

A noise test after hours in a "controlled" noise environment. The control baseline dB was set during the system's OFF position. Testing compared the operating dB levels of the pumps at "full flow" to the baseline.



### SCENARIO #1

All pumps in the ON position and the controller cooling fan running. Mic placed approximately 2.5' from the front of the control panel - a typical distance for a technician accessing the HMI.

#### ▶ RESULT

35 dB, all pumps in a FULL FLOW condition



### SCENARIO #2

All pumps operating at full flow ON position and the controller cooling fan running. Mic placed approximately 2.5' from an isolation valve during a high velocity flow condition (over 20 FPS).

#### ▶ RESULT

47 dB, all pumps in a FULL FLOW condition



### SCENARIO #3

All pumps in the ON position and the controller cooling fan running. Mic placed approximately 2.5' from the pumps and the valve fully closed providing no velocity noise. Pumps operating in HAND at 60 Hz (max. speed) to record full power noise without any interference from valves & water velocity. Simulated full flow in a mechanical room with no water noise.

#### ▶ RESULT

35 dB, in the HAND position FULL SPEED at DEAD HEAD