

Avante – Parkview Care Home



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care & support
'Everyone Matters'

Parkview care home, located in Bexleyheath on the outskirts of London, is part of the Avante group of sites which provides a wealth of support services for people living with dementia.

Their aim is not just to provide care and comfort, but also focus on the importance of social interaction and engagement to eradicate boredom by addressing the three plagues of loneliness, helplessness and boredom within the home.

Problem

Back in 2017, Avante care called us in as they acknowledged long established water systems can potentially be an issue and temperature control is not as

effective. They were also looking to make energy/cost savings and therefore were looking for a new solution, specifically at Parkview Care Home in the first instance.



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Solution

We proposed chlorine dioxide treatment and, after initial positive discussions, one of our **Dorado** range Dioxychlor III chlorine dioxide units was ordered for supply and install at Parkview Care Home.

After successful installation, the chlorine dioxide levels were monitored very closely for the next few months and Legionella samples were taken on each visit (weekly initially and then monthly thereafter) to prove the efficacy. The chlorine dioxide had soon broken down any biofilm potentially in the system, and we had several consecutive months of samples without any detection of Legionella.

At the point at which the system was under control via chlorine dioxide, and after confirming with the client that they did not class themselves as NHS Healthcare and did not need to follow the HTMs, site then started gradually reducing the hot water temperatures (by 5°C or so) from around 65°C at the calorifier to roughly 45°C over the course of a few months. We continued to take samples each month to ensure that control of the system was being maintained.

Since then, we have maintained control of the system using chlorine dioxide and taking regular Legionella samples. We have used chlorine dioxide as the primary control measure where temperature control is not as effective. It has also meant the client has been able to reduce HWS temperatures. Ideally you would use both temperature control and chlorine dioxide but where temperature control may not be as effective, such as in this case, then the use of the chlorine dioxide is more cost effective and energy efficient as the water in the calorifiers is not stored at 60°C. It also means you can eliminate the use of TMVs (thermostatic mixing valves) to prevent scalding, which require costly maintenance etc, as the HWS temperatures are lower and are not providing any risk of scalding.



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Lab Sample Number	Sample Description	Sample Type	Sampled Time	Temp. (°C)	Method Units Analysis Deviations	MIC003d ml Legionella - volume tested	MIC003d CFU/Vol of Other Legionella Species	MIC003d CFU/Vol Legionella pneumophila SG 1	MIC003d CFU/Vol Legionella pneumophila SG 2-14	Supplied °C Client Supplied Temperature
2832986	Parkview Care Home-HWS-Grd Holly Lounge Sink Round Sink	Drinking Water Non-Reg	0913	47.6	N/A	1000	Not Detected	Not Detected	Not Detected	47.6
2832987	Parkview Care Home-HWS-Grd Main Kitchen Sink RHS Food Wash Sink	Drinking Water Non-Reg	0922	47.7	N/A	1000	Not Detected	Not Detected	Not Detected	47.7
2832988	Parkview Care Home-HWS-Grd Willow Dining Sink Round Sink	Drinking Water Non-Reg	0932	47.9	N/A	1000	Not Detected	Not Detected	Not Detected	47.9
2832989	Parkview Care Home-HWS-Grd Sluice Room 2 Sink Sink	Drinking Water Non-Reg	0901	48.0	N/A	1000	Not Detected	Not Detected	Not Detected	48.0

Recent laboratory results with no Legionella detected. HWS temperatures are at 47-48°C posing no scalding risk to building users whilst also reducing energy costs.

Conclusion

Following the initial success of chlorine dioxide at Parkview, we continue to work very closely with Avante Care and now have chlorine dioxide in several of their homes and there will be more to follow.

Goodwater have been very professional throughout, offering sound advice and specialist knowledge whilst maintaining compliance at all times. We have worked closely with Avante Care to come up with a solution that suits their needs, and we are managing the control of Legionella in their systems effectively.

We have demonstrated we can manage a project from installation right through until the ongoing monitoring of chlorine dioxide and customer care going forwards.



“Goodwater provide a very reliable, professional service and sound advice with easy to digest explanations.”

- Julian M. Oliver | Maintenance Officer