



ENVIRONMENTAL TECHNOLOGY

LabTecta®IAP solves ash dust problem

The installation of a LabTecta®IAP labyrinth seal has solved a persistent problem for the Danish wastewater company Biofos Lynetten.

The company was using a single cartridge seal, but this was unable to prevent cold air leaking into the system, resulting in the crystallization of ash dust and condensate and the formation of small rocks which caused tears in the metal casing and blockages in the pipework. This required regular changes to axles, pipes and plates, resulting in three weeks' of downtime each year while the work was carried out.

The problem was resolved with the installation of the 38mm LabTecta®IAP, which uses labyrinth technology to direct the air purge inboard, and has been designed specifically for use in extreme environments.

The LabTecta®IAP was installed in September 2024, and has been operating effectively for more than eighteen months. The new system has made it possible to purge hot air from the furnace back in through the IAP purge point, ensuring that the seal is kept at the optimum temperature. Maintenance can now be carried out by two employees in just two weeks, compared with the previous requirement for four employees, working for three weeks. It has also removed the additional expense involved in replacing axles, metalwork and pipes.



before



after installation

‘Reliability increased from 2 months to >18 months’

Industry:	Water & Waste
Product:	LabTecta®IAP
Application:	Furnace
MTBF Increase:	800% (and counting)
Reference N.O:	TD3125421



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