



НАШІ РОЗРОБКИ
ЗРОБЛЯТЬ ВАШЕ
ПІДПРИЄМСТВО БІЛЬШ
ЕНЕРГОЕФЕКТИВНИМ



HydroFLOW

УКРАЇНА



Test results of HydroFLOW system Rozhyschenskyy cheese

Hydroflow – water treatment system.
www.h-flow.com.ua





Test of HydroFLOW unit on Rozhyshe cheese.

Purpose of the test:

- Protection of plate heat exchangers from biological deposits;
- Test the effect of the device on E. coli, mesophilic anaerobic and facultative anaerobic organisms.
- Reduce the use of chemicals

Test period: 05.06.2018-10.07.2018

Nanofiltration.

Serum enters into the nanofiltration system for cleaning – i.e. the separation of whey from the water. After the nanofiltration of the serum, the product goes on to production of milk powder and the water cooling heat exchanger.



Hydroflow system was installed before nanofiltration

The device was installed on 6.5.2018 on the pipeline supplying water to the heat exchanger.



The heat exchanger operates 12-14 hours a day.

Before Hydroflow, within 14 days, the flow and heat transfer was reduced and the heat exchanger needed to be disassembled to wash off the biological deposits that significantly impaired their operation

On the day of installation, routine analysis of the heat exchanger was carried out. Photographs were taken of the plate condition and then the heat exchanger was cleaned.



2018.06.05 Before installation of Hydroflow device



2018.06.05 Before installation of Hydroflow device

2018.07.05 (36 days of operation of the device)



Over the 36 days of operation of the unit, biological deposits were not formed, the capacity of the heat exchanger was at maximum, and there was no need to conduct regular washing.

05.06.2018 before installing the Hydroflow device

10.07.2018 After installing the Hydroflow device



Deposits found in the pipe



No deposits

Analysis of serum given to plant personnel 6/15/18.

Концентрация сыворотки
неактивированной

БГКП	КМАФАнМ	Др.	Бц.
внеш 10^{-3}	$1.9 \cdot 10^4$	—	—

Analysis of serum given to plant personnel 9/7/18.

Сыворотка з Т. ББ до М. Ф. - Врєвченко

БГКП	КМАФАнМ
10^{-2}	$34,5 \cdot 10^3$
Др + Бц.	
1	2

Сыворотка після М. Ф. - Врєвченко

БГКП	КМАФАнМ
10^{-3}	$17,5 \cdot 10^3$
Др + Бц.	
—	1

During operation of the device within 36 days, the results was positive, namely:

- Biological deposits were prevented;
- Stoppage to clean equipment and heat exchanger was no longer necessary;
- The number of mesophilic anaerobic and facultative anaerobic organisms decreased 2 times;
- Before the Hydroflow system, approximately 150-180 m³ of water was discharged into the sewer. After Hydroflow, water could be reused in industrial processes, significantly reducing costs for the company.

The use of “Hydroflow” modern environmental technology – is a sign of cleaner production in the future, increased competitiveness and reduced cost of product ...



Join the professionals who have tested and installed HydroFLOW equipment at their facilities.

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