



TECHNICAL ACT DATED 20 AUGUST 1998

Piston compressor: higher output, vibration and overheating gone

Khладoprom CJSC, laundry compressor · approved by V. A. Baryshevsky, President of Khладoprom CJSC · treatment performed by XADO LLC: E. A. Gamidov, Executive Director, S. N. Aleksandrov, Chief Engineer
Ukraine · treatment and measurements 10–20.08.1998 · act dated 20.08.1998

PRODUCT	TEST OBJECT	DOCUMENT TYPE
Treatment by XADO technology XADO compound · treatment without removing or dismantling the unit	Piston compressor pneumatic system of the Khладoprom CJSC laundry	Technical act dated 20.08.1998

EQUIPMENT	CONDITION AT START OF TESTING	WHAT WAS MEASURED
Laundry piston compressor	Considerable noise and vibration, overheating; pumping to 5.8 atm in 9 min 45 s	Receiver pumping time, noise, vibration, heating

The treatment ran from 10 to 20 August 1998 under normal operating conditions: the unit was neither taken off the line nor dismantled.

Key result

↑ **7.3 %**

compressor output, pumping to 5.8 atm: 9 min 45 s → 9 min 05 s

Measurements before and after treatment — laundry compressor

PARAMETER	BEFORE TREATMENT	AFTER TREATMENT
Receiver pumping time to 5.8 atm	9 min 45 s	9 min 05 s
Noise and vibration	Considerable	Normal
Heating	Overheating	Normal

Both pumping runs were measured up to the same pressure of 5.8 atm. In the conclusions of the act, the output gain and the electricity saving are stated as 9.3 %.

Conclusions of the act

The conclusions of the act dated 20 August 1998 state: «Treatment by XADO technology made it possible to reduce the compressor pumping time by **40 s.**, which accordingly increased its output by **9.3%** (electricity saving of **9.3%**). Noise dropped to a permissible level. Vibration and overheating disappeared.» Before treatment the compressor ran with considerable noise and vibration and was overheating — a unit in such condition is normally sent for repair with disassembly. Here it was neither removed nor opened up: the compound was introduced directly into the running machine, and the laundry worked as usual for ten days. According to the measurement table of the same act, receiver pumping to 5.8 atm: **9 min 45 s → 9 min 05 s**, that is **7.3 %** of output gain — the compressor now delivers the same amount of air in less time and on less electricity.

XADO

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The results apply to the laundry piston compressor of Khladoprom CJSC treated under normal operating conditions; on other units and duty modes the figures may differ. The treatment was performed and the act was certified with a seal by XADO LLC. The original act is published in full and available for download.