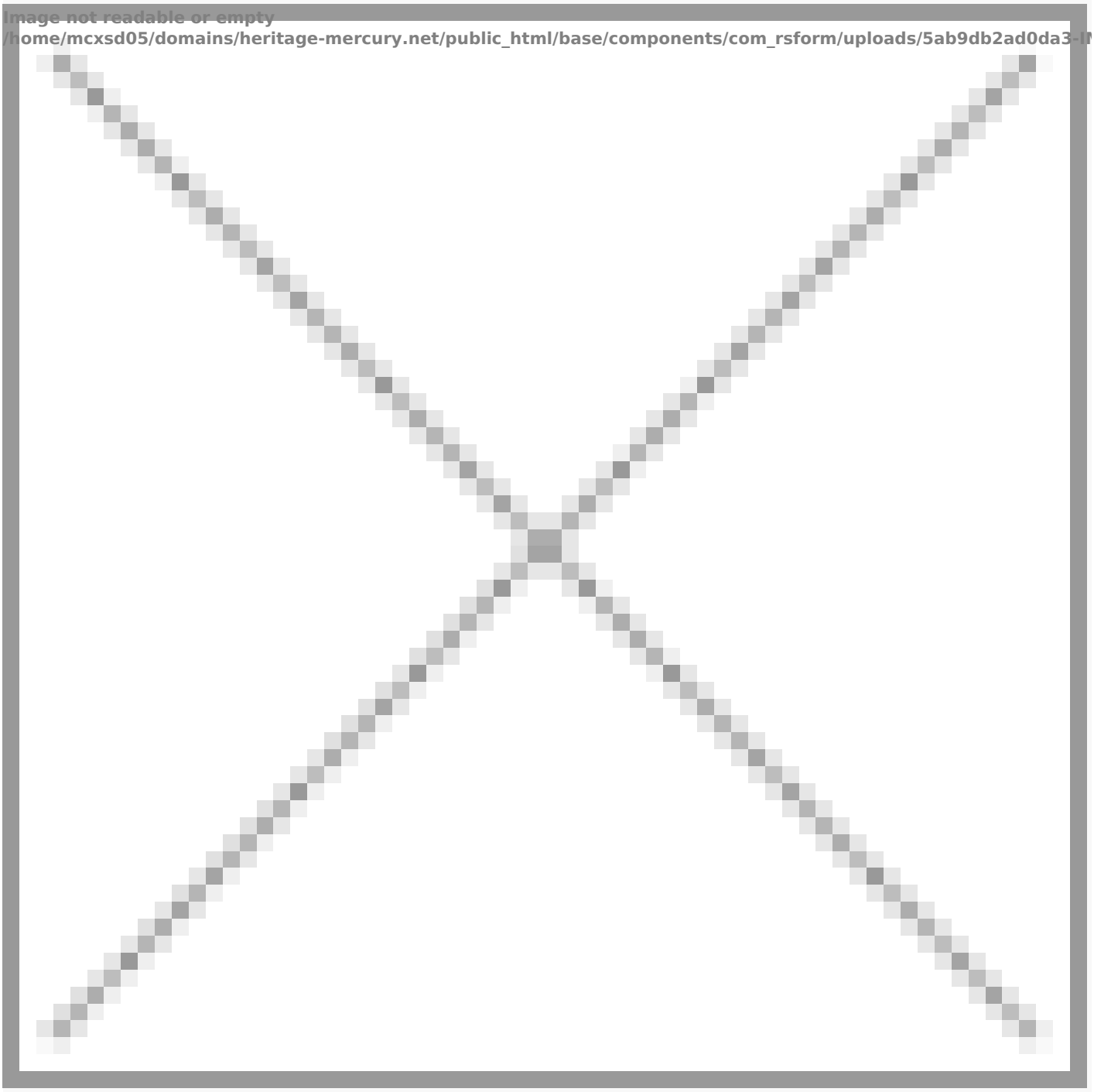
Name 1	WATER-COOLED COMPRESSOR
Name 2	/
ID number	002.115.Idrija
Manager / Administrator	Idrija Municipal Museum, Prelovčeva 9, SI-5280 Idrija
Ownership	Public
Owner	Municipality of Idrija, Mestni trg 1, SI-5280 Idrija
Local / Original ID Number	510:IDR;RS-7
Type of Object	Mine

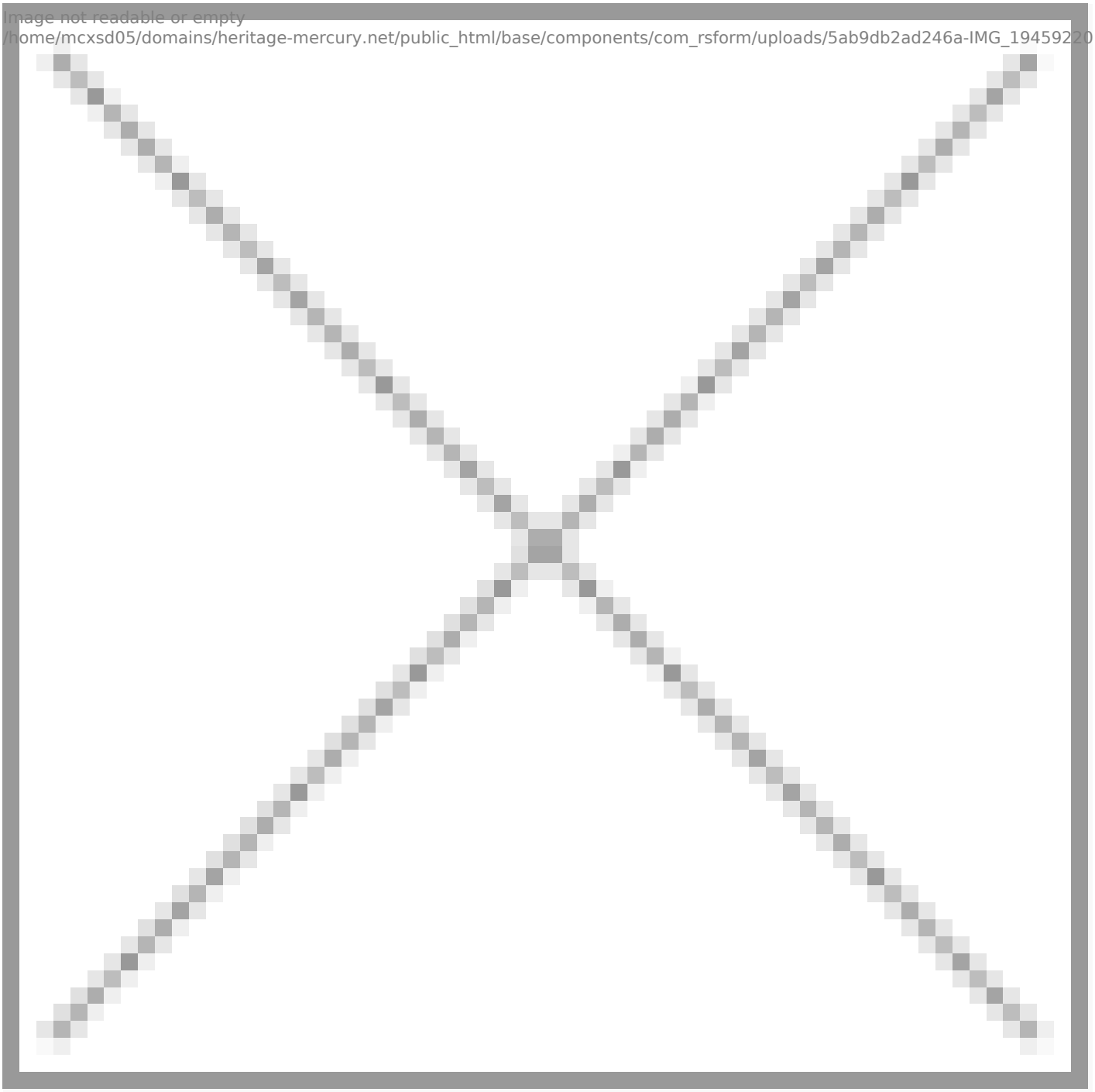
DESCRIPTION

Short description	The two-stage vertical water-cooled compressor type K II/III. The housing of the compressor is mounted to the concrete stand, which is 63 cm high. The central part of the housing is in the shape of a rectangular cuboid (length 35 cm and height 39 cm), with a plate with manufacturer’s data. The compressor has stock number 168.
Measures	Length 85 cm, width 135 cm, height 221 cm.
Materials	Cast iron, brass.
Dating	1909

Author / Producer	Manufacturer Grazer Waggon – Maschinenfabriks A.G. Graz, vorm. Johann Weitzer

Picture attachments




Image not readable or empty
/home/mcxsd05/domains/heritage-mercury.net/public_html/base/components/com_rsform/uploads/5ab9db2ad246a-IMG_19459220

Original use	The water-cooled compressor, which was installed in the Mine power plant in Lenštat HE Idrija – town (Rinnwerk), which began operating in 1909. The building of the combined hydro-thermal (caloric) power plant was carried out in several stages. First, the water turbine and the diesel engine were installed. The described compressor produced compressed air and served for powering the diesel engine. Between the engine and the compressor, three steel flasks with compressed air were placed. The diesel engine and the Francis water turbine (manufacturer J.M. Voith St. Polten, 1909) powered the same three stage generator (manufacturer A.E.G. Union Wien, 1909). The engine served as a spare engine for covering the ends at times of shallow water. After the elimination, the compressor was displayed in the castle’s courtyard until spring 1990.
Present use	The described compressor is being preserved, secured and presented as an important monument of Idrija technical mining heritage with exceptional universal values. It is a part of the Idrija Municipal Museum collection “Mining machines and devices”. Along with other compressors from the Austria period, which are already displayed in the Francis’ Shaft building, this compressor also marks the period of the technological mercury exploitation process renovation in the Idrija Mercury Mine. It also represents the technological development of the first compressors that were no longer powered with steam. For this reason it represents technical heritage which greatly exceeds the Idrija Mercury Mine framework and is therefore of a larger, global importance. It is being commendably restored, all the pistons have piston rings, so that the rotation of the flywheel can present the principle of the machine operation.
Original location	Mine’s power plant HE Idrija-town.

Present location	Francis’ Shaft building (showroom 1).

STATE OF CONSERVATION

History of conservation:	The compressor was restored between 1990 and 1992. It was completely disassembled, surfaces of individual parts were cleaned with sandblasting process, reassembled and painted with foundation and top paint. With exception of copper pipes, all parts are original. Individual parts of the armature are missing. Additional interventions are not necessary. Security of the premises is ensured.
Present state	good
Necessary activities:	Regular seasonal maintenance.

DOCUMENTATION

Addresses / collections / links etc. where further in-depth information is accessible:	- Inventory Book of the Idrija Municipal Museum; - Zelenc, Anton. In vendar se giblje: katalog rudniških strojev in naprav. Idrija, Municipal Museum Idrija, 2001; - Zelenc, Anton. Electric power plants of the Idrija Mercury Mine. Collection of the lectures. 6th International Symposium Cultural Heritage in Geology, Mining and Metallurgy: libraries, archives, museums. Idrija, 2003, p. 89–98; - Zelenc, Anton. Rudniške elektrarne. Idrijski razgledi, 45/2,2000, p. 69–77; - Zelenc, Anton. Idrija Municipal Museum: restored mine machines and devices of the Idrija Mercury Mine. Patrimoine de l´industrie, 2004, p. 17–19.
Submitted	Mestni muzej Idrija

Submitted by	Miha Kosmač
Date Submitted	3. 3. 2018
Date Edited	Never