CRA SAMPLE

D03 Plant description

Example after one year of operation, status 20.11.2027 · Nordwald Wärmetechnik GmbH, networked wood chip boiler NWT HACKTHERM 60 connect

Publisher	OT-Cyber.de, Max Gilg, Rosenheim
Sample company	Nordwald Wärmetechnik GmbH, networked wood chip boiler NWT HACKTHERM 60 connect (fictitious)
Note	Free sample, not legal advice

Company, people, data and numbers are fictitious. This is how the document looks after one year of operation.

1 Purpose and scope

Describes exactly what is placed on the market: product data, assemblies, interfaces, intended use, reasonably foreseeable misuse and life cycle phases. Basis for D06, D07 and the technical documentation.

2 Document control

Field	Entry
Document no.	NWT-CE-D03
Version, status	1.2, approved
Scope	NWT HACKTHERM 60 connect (18 to 60 kW), controller, gateway, portal and app
Author	Jonas Weiß, Engineering and Product Security (PSO)
Checked by	Ingenieurbüro Lechner (safety), Sichtwerk Security (security)
Approval	Michael Berger, Managing Director, 20.11.2027
Next review	15.03.2029 or in the event of a substantial modification
Confidentiality	internal
Filing	Technical documentation NWT-TD-HT60C, retained for at least 10 years after the last unit is placed on the market

3 Plant description: overview

Type: NWT HACKTHERM 60 connect, output 18 to 60 kW, fuel wood chips P16S to P31S, moisture content up to M35

Variants: HT60C-30, HT60C-45, HT60C-60; same controller and software

Software versions: Controller 3.0.3 (safety program 3.0.0 unchanged), gateway 1.5.1, portal 2028.02, app 3.4

Assembly	Supplier	Safety relevance
Boiler body, heat exchanger	Kesselbau Alpenrand	Pressure, temperature
Store discharge, rotary valve	Kesselbau Alpenrand	Burn-back SF1
Control cabinet with safety controller	Schaltanlagen Hofer	SF1 to SF10
STL 105 °C, thermal discharge safety device	Purchased part	SF2, no software
Gateway, portal, app	Datenwerk Embedded	No safety function
Thermal extinguishing device	Purchased part	No power required

Interface	Direction	Protocol	Protection
Gateway to portal	Outbound only	MQTT over TLS 1.3	Certificate per device
App to portal	User	HTTPS	MFA
Controller to gateway	Local	Modbus TCP, read only	Separate network Z2
Local engineering	Service	Engineering tool	Seal, password
Building management system	Optional	Modbus TCP, read only	Disabled ex works

Intended use: heat generation for buildings and local heating networks using wood chips, installation in a boiler room, operation by instructed operators, remote access via portal and app for comfort functions only. Reasonably foreseeable misuse: unsuitable fuel, operation with the fuel store door open, sharing of credentials, remote start without visual check of the system. These cases of misuse are assessed in D06 and D07 and named in the instructions (D13).

Life cycle phases: transport, installation, commissioning with initial security configuration (F11), operation, cleaning and maintenance, updates throughout the support period, decommissioning with deletion of data and certificates

4 Terms and abbreviations

CE: CE marking: the manufacturer declares that the product meets EU requirements

CHG: change request (number range)

HTTPS: encrypted web connection

MFA: multi-factor authentication

MQTT: messaging protocol between device and portal

NWT: abbreviation of the sample company in document and ticket numbers

SF: safety function

STL: safety temperature limiter

TCP: transport protocol in the network

TLS: encryption of the connection

5 Revision history and approval

Version	Date	Change	Approval
1.0	15.03.2027	First issue for placing on the market (CE)	M. Berger
1.1	05.09.2027	Control program 3.0.3 entered (NWT-CHG-2027-005)	M. Berger

Version	Date	Change	Approval
1.2	20.11.2027	Gateway firmware 1.5.0, new portal function for maintenance approval	M. Berger

Approved: Michael Berger, Managing Director, 20.11.2027 (signed in the original). Free sample from OT-Cyber.de, not legal advice. Company, persons, serial numbers and data are entirely fictitious.