

# THE PROCESS HEAT COMPANY

**NESS** – More than 60 years  
solutions for process heating

**NESS**  
The Process Heat Company



SERVICE



TEAMWORK



QUALITY

As a family-owned business in its second generation, fostering a positive and collaborative environment is extremely important to us.

# ABOUT OUR COMPANY

NESS – your specialist for process heating solutions



solutions for our customers on all continents



## The minds behind Ness

**Dietmar Ness and Dr. Andreas Ness are Managing Directors of Ness Wärmetechnik GmbH.**

Dietmar Ness and Dr. Andreas Ness are the managing directors of NESS Wärmetechnik GmbH.

The two brothers are always hands-on and enjoy being right in the middle of the action. While Dietmar Ness focuses on marketing and sales promotion, Dr. Ing. Andreas Ness is dedicated to the strategic, technical, and economic direction of the company.

Together, they form an unbeatable team. They are passionately devoted to their company!

## SOLUTIONS FOR PROCESS HEATING SYSTEMS FOR MORE THAN 55 YEARS

**Cross-generational collaboration is the challenge of our time. We embrace it!**

For over 55 years, we have been developing innovative solutions for process heating systems in Remshalden, near Stuttgart. Our team of more than 90 employees works across development, planning, sales, and manufacturing.

In the engineering department alone, around 30 highly qualified and motivated engineers from all technical disciplines create customized solutions for our clients on every continent, supporting them all the way to implementation.

The expertise gained by our planning and service engineers in various projects is consistently transformed

into new products and services. We regularly undertake national and international development projects and bring them to successful completion. This is evidenced by the numerous utility models and patents granted to us over the past decades.

A high-performance service team ensures smooth, global logistics for products and spare parts, professional assembly, and commissioning of systems. Additionally, we offer maintenance, repairs, and modernization of existing systems, with a focus on performance, availability, safety, and energy efficiency.



**TEAMWORK IS OUR CORE COMPETENCE**





#### YOUR PROCESS

We offer a wide range of solutions for the heating of production processes.



#### ENGINEERING

Our greatest passion. This is where our biggest strength shines: our expertise.



#### OPTIMIZATION

Operator training, audits, and the knowledge of how to make optimal use of energy in existing systems.

## IN 1964



### FOUNDING OF NESS

Eduard Ness establishes his engineering office for thermal technology. One of the first mobile thermal oil systems is produced in the 1960s for Greece.

## IN 1987



### NEW FACILITIES

Relocation to the current offices and manufacturing buildings in the industrial area of Remshalden.

## IN 2014



### ANNIVERSARY 50 YEARS NESS WÄRMETECHNIK

In 2014, the company celebrates its 50th anniversary.

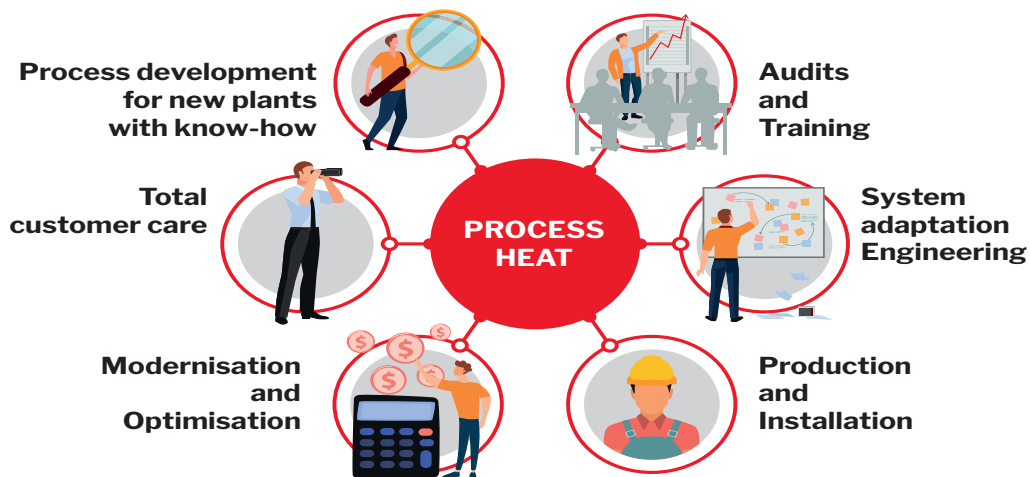
**MORE  
COMPANY HISTORY ON  
[WWW.NESS.DE](http://WWW.NESS.DE)**

Our knowledge is your advantage

# YOUR ADVANTAGE WITH NESS

**A SINGLE POINT OF CONTACT FOR ALL YOUR NEEDS — WE KNOW OUR BUSINESS LIKE NO ONE ELSE.**

Trust in our expertise.



# 30

**HIGHLY QUALIFIED AND  
MOTIVATED ENGINEERS FROM  
ALL TECHNICAL FIELDS**

Your needs are important to us. Together, we'll find a solution tailored to your individual process.

Full-service customer support, system customization, modernization, optimization, manufacturing, and installation are just a few of the areas where we can assist you.

Whether it's thoughtful planning by our engineering team, high-quality and flexible in-house manufacturing, or the extensive experience of our service team – our specialists work hand in hand.

**The advantage with us: we are team players and take a holistic approach to process heat.**

Some of Our Completed Projects

# REFERENCES



## HEATING AND COOLING SYSTEM

Hot water heating and cooling system with a 4-stage heat recovery system for a 20 daylight press. Combined air/water cooling circuit.



## BIOMASS HEATING SYSTEM

14 MW combustion chamber for wood dust firing, including radiation and convection sections with a total thermal oil capacity of 10 MW.



## HIGH EFFICIENCY, LOW NO<sub>x</sub> HEATER

12.5 MW thermal oil heater with combustion air preheater (LUVO), exhaust gas recirculation, and water mist quenching and cooling system.



FEEL FREE TO CONTACT US FOR YOUR INDIVIDUAL QUOTE  
[WWW.NESS.DE](http://WWW.NESS.DE) | [INFO@NESS.DE](mailto:INFO@NESS.DE) | TEL. +49 (7181) 9675 0



Products at a Glance

# OUR PRODUCTS

Our high-quality products offer a wide range of solutions for heating and cooling production processes.



**NESS OPERATES  
WORLDWIDE**



**ALL NECESSARY  
CERTIFICATIONS**



**RELIABLE  
IN USE**



**INTELLIGENT  
SOLUTIONS**



## THERMAL OIL SYSTEMS

**For high-temperature heating requirements**

Choosing a thermal oil system is almost a given for certain processes due to the numerous advantages of thermal oil. For instance, these systems can operate nearly pressure-free and highly efficiently at temperatures of up to approximately 350 °C.



## FIRED HEATERS

**For gaseous and liquid fuels**

Using a three-pass system, our fired heaters ensure uniform heating of thermal oil, preventing temperature peaks. Optimized heating surface design increases efficiency and system safety.



## ELECTRIC HEATERS

**The electric alternative to fired heaters**

The electric heater (EWE) is a genuine alternative to fired heaters. It is suitable for continuous operation, peak load bridging, and system modifications.



**MORE PRODUCT INFORMATION  
ON [WWW.NESS.DE](http://WWW.NESS.DE)**



## HEATING AND COOLING SYSTEMS

### Heating/Cooling Circuits for Machines and Equipment

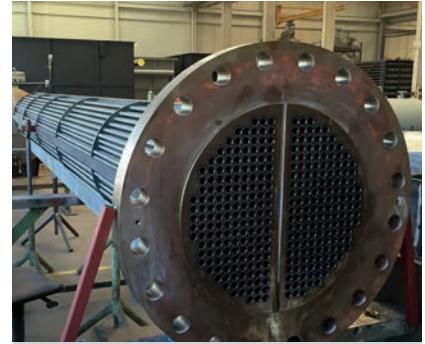
Numerous production processes require heating and cooling systems. These systems often depend on the precise maintenance of temperature gradients, as seen in printed circuit board production facilities or composite manufacturing in the aerospace industry.



## STEAM SYSTEMS / HOT WATER SYSTEMS

### With Direct-Fired or Indirectly Heated Thermal Generators

This type of heating system is characterized by its cost-effective heat transfer medium. Hot water is well-suited for lower temperatures up to 180 °C. Steam is often used as a heating medium for processes that require direct product contact.



## HEAT EXCHANGER SYSTEMS

### Efficient heat transfer between different fluids

Heat exchangers are needed in systems where thermal energy must be transferred between fluids (gases and liquids). In some processes, heat is generated as a byproduct.



## HEAT RECOVERY

### Efficient Use of Available Resources

A sustainable approach for your system is heat recovery using a combustion air pre-heater (Luvo). The Luvo harnesses the energy from the hot flue gases at the heater's outlet to save fuel and reduce energy costs.



## SECONDARY CIRCUITS

### Precise Process Temperatures Independent of Network Flow Temperatures

The secondary circuit allows for the heating parameters (temperature and flow rate) to be optimally adjusted to the process requirements. The temperature can be regulated with high precision, making it ideal for demanding processes.



## CUSTOM SYSTEMS

### Specialized Solutions by Experts for Experts

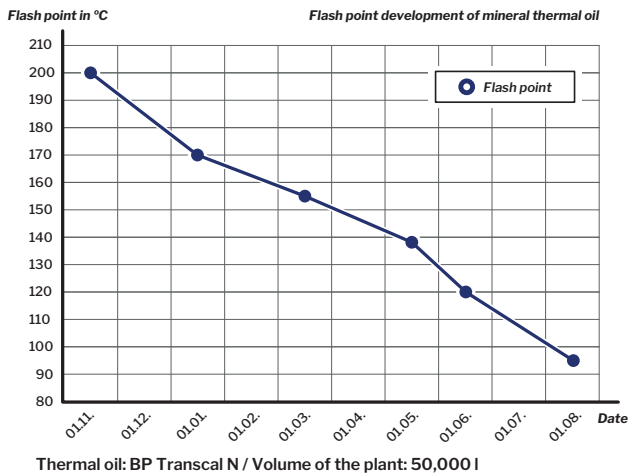
Customer requirements and requests often inspire the development of new concepts tailored to specific applications. Some solutions are fully designed and customized to meet specific needs.

More Safety, Availability, Longevity, and Efficiency for  
Every Thermal Oil System

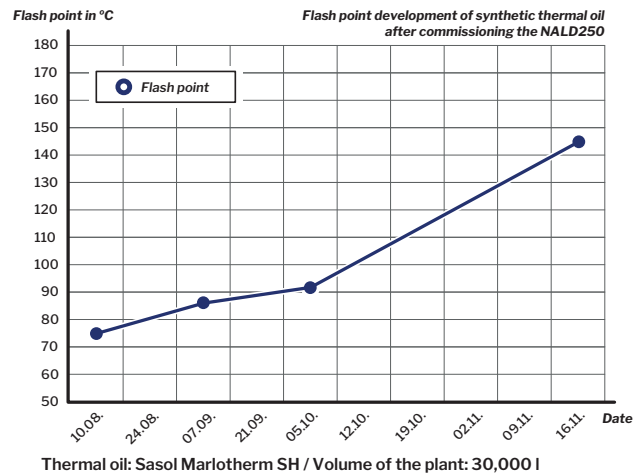
# NESSSITIES

## A SUCCESS STORY - NESS LIGHT-ENDS REMOVAL SYSTEMS ENABLE A BENEFICIAL PERMANENTLY HIGH FLASH POINT FOR THERMAL OIL SYSTEMS

### WITHOUT LIGHT-ENDS REMOVAL



### WITH LIGHT-ENDS REMOVAL



UP TO **120** LITERS OF  
LIGHT-ENDS  
REMOVED PER DAY



Your system operates more effectively and safely  
with a consistently high flash point. A constant high  
flash point means fewer downtimes.



Learn more about our light-ends removal  
systems and other solutions on our  
**NESS** YouTube channel

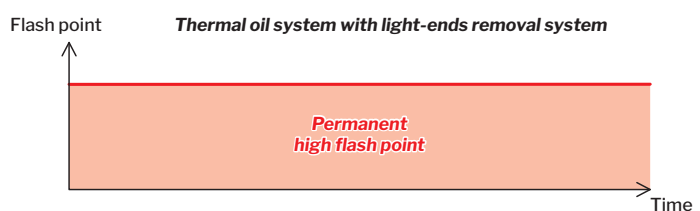
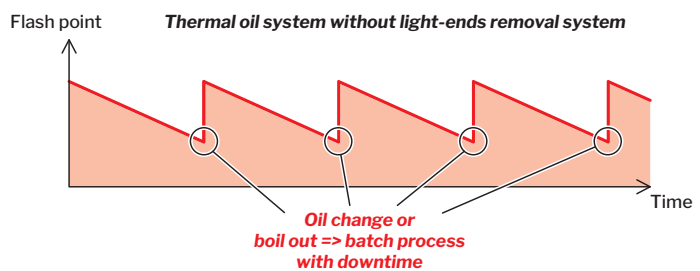




In thermal oil systems, light-boilers are continuously generated.

Generally, the higher the operating temperature, the more light-boilers are formed. As the proportion of light-boilers increases, the flash point of the thermal oil decreases.

NESS light-boiler removal systems eliminate these, keeping the flash point consistently high. This enhances system safety and reduces the risk of pump cavitation.



INTERESTED IN SMART SOLUTIONS THAT SAVE MONEY AND TIME?  
[WWW.NESS.DE](http://WWW.NESS.DE) | [INFO@NESS.DE](mailto:INFO@NESS.DE) | TEL. +49 (7181) 9675 0

Our service team offers you a wide range of solutions and services

# COMPREHENSIVE SERVICE

## SPARE PARTS SUPPLY AT NESS

Spare parts can be easily ordered through our hotline. We ship worldwide.

If a part is unavailable, we can procure it from our suppliers in the shortest time possible.



WE KNOW WHICH  
SPARE PARTS YOU  
NEED.



### INSTALLATION, MODERNIZATION, AND EXPANSION

Our specialists take  
care of your system

## INSTALLATION AND COMMISSIONING

From installation supervision to turn-key handover, we provide the right solution for your requirements.

Our installation supervisors and commissioning experts ensure the successful execution of modernizations and expansions.



## OUR TOTAL CUSTOMER CARE SERVICE IS READY FOR YOU

FEEL FREE TO CONTACT US!

# WE TAKE CARE OF YOU AND YOUR SYSTEM

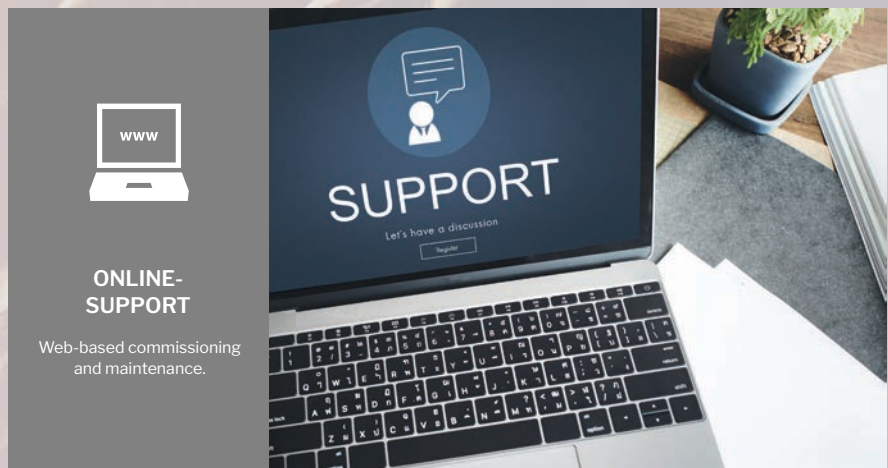
Our service - Your Advantage

Maintenance, safety inspections, and more.  
We offer you personalized and professional consultation!

Service forms the foundation for a safe and efficient investment.  
We value partnership and long-term collaboration. That's why we support you throughout the entire lifecycle of your system and assist with problems and inquiries.

To ensure this, we provide two dedicated numbers for reaching our service team.

Even outside of office hours, our service team is available to support you promptly.



**24/7** 

**CALL US SO WE CAN HELP YOU. IN  
CASE OF EMERGENCY, YOU CAN  
ALSO CALL OUTSIDE OFFICE HOURS.**

## HOTLINES FOR YOUR SERVICE

**During our office hours  
+49 (7181) 9675 20**

Monday to Friday from 7:00 am to 4:00 pm

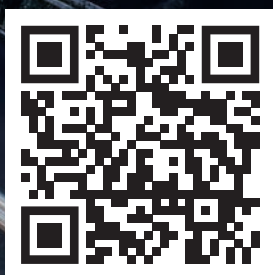
**Outside office hours  
+49 152 90014026**

Monday to Friday from 4:00 pm to 7:00 am,  
on weekends and on holidays





# WE LOOKING FORWARD TO HEARING FROM YOU



**MORE BROCHURES  
AND FACTSHEETS  
AT [WWW.NESS.DE](http://WWW.NESS.DE)**

**NESS**  
The Process Heat Company

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**Online**  
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or visit us on [xing.com](#),  
[linkedin.com](#) and [YouTube](#)



**Service**  
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Monday to Friday from  
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**Emergency number**  
**Outside office hours**

Monday to Friday from  
4:00 pm to 7:00 am  
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