

# THE PROCESS HEAT COMPANY

**NESS** – More than 55 years  
solutions for process heating

**NESS**  
The Process Heat Company



SERVICE



TEAMWORK



QUALITY

As a family business – in its second generation –  
**positive cooperation is very 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.**

The two brothers like to join in and be in the middle of it all. While Dietmar Ness is responsible for marketing and sales promotion, Dr. Ing. Andreas Ness focuses on the strategic, technical and economic orientation of the company.

Together they are an unbeatable team. They love their company with passion!

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

**Working across generations is the challenge of our time.  
We master it!**

For more than 55 years we have been developing solutions for process heating systems in Remshalden near Stuttgart.

We employ more than 90 people in development, planning, sales and manufacturing. In engineering, around 30 highly qualified and motivated engineers of all technology fields work on solutions for our customers on all continents.

The experience of our planning and service engineers gained in our projects is consistently implemented into new products and services. National and inter-

national development projects are regularly carried out and successfully completed. This is also evidenced by the high number of registered designs and patents granted to us in recent decades.

An efficient service team ensures a smooth worldwide logistics of products and spare parts, professional assembly and commissioning of the equipment. In addition, we offer maintenance, repair and modernization of existing plants – focusing on performance, availability, safety and energy efficiency.



**TEAMWORK IS A CORE COMPETENCE  
OF OUR COMPANY**



#### YOUR PROCESS

We offer high quality systems which deliver heat to a variety of processes in different industries.



#### ENGINEERING

Engineering is our passion, because in this field our greatest strength comes to bear: Our know-how.



#### OPTIMIZATION

Operator training, audits and knowledge how to use energy optimally in existing systems.

## IN 1964



### FOUNDING OF NESS

Eduard Ness founds his engineering office for heating technology. One of the first mobile thermal oil systems was produced in the 60's for a Greek company.

## IN 1987



### MOVING TO TODAY'S PREMISES

Relocation to today's offices and production buildings in Remshalden.

## IN 2014



### ANNIVERSARY 50 YEARS NESS WÄRMETECHNIK

The company celebrates its 50th anniversary.

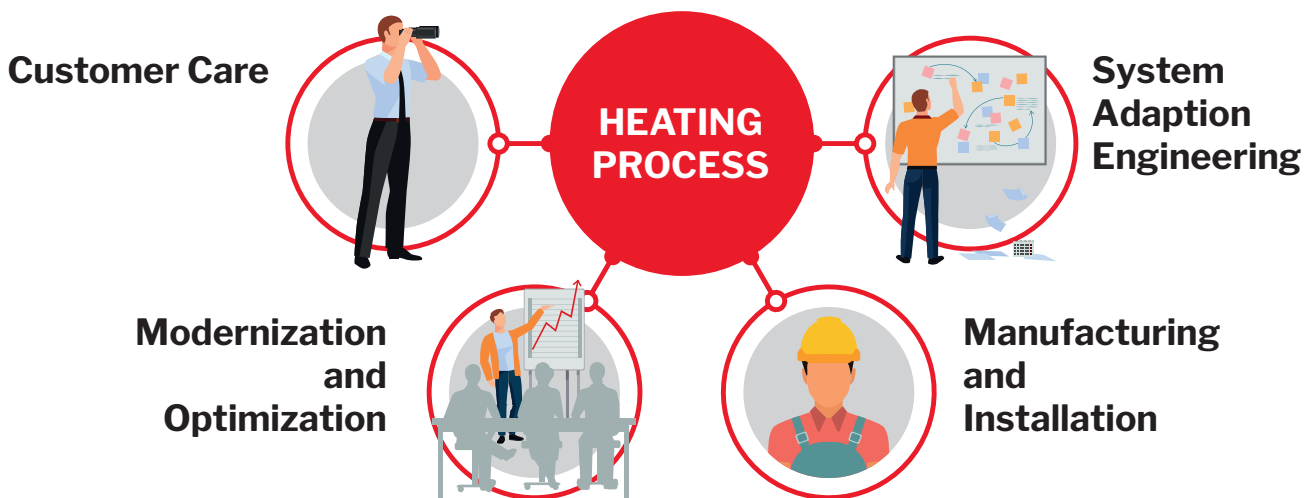
**MORE  
COMPANY HISTORY ON  
[WWW.NESS.DE](http://WWW.NESS.DE)**

Our knowledge is your advantage

# YOUR BENEFIT WITH NESS

**ONE BUSINESS PARTNER FOR ALL YOUR REQUESTS -  
WE KNOW OUR BUSINESS LIKE NO OTHER**

Trust in our knowledge



# 30

**HIGHLY QUALIFIED AND  
MOTIVATED ENGINEERS OF  
ALL TECHNOLOGY FIELDS**

Your request is important for us. Together we will find a solution for your individual heating process.

Comprehensive service and dedicated customer care, system adaption, modernization, optimization, construction and manufacturing are some of the individual solutions and innovative concepts that NESS can offer.

Be it the elaborate planning by our engineering team, our flexible, high-quality inhouse manufacturing or our experienced service team - all of our departments work hand in hand.

**Your benefit with NESS - We are teamplayers and see the whole picture.**

Some examples of what we've done

# REFERENCES



## HEATING AND COOLING SYSTEM

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



## BIOMASS FIRED HEATING SYSTEM

14 MW combustion chamber for wood dust firing, radiation and convection heating elements with a total thermal oil output of 10 MW.



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

12,5 MW thermal oil heater with combustion air pre-heater, flue gas recirculation and water mist fire extinguishing and cooling system.



FEEL FREE TO CONTACT US FOR YOUR INDIVIDUAL OFFER  
[WWW.NESS.DE](http://WWW.NESS.DE) | [INFO@NESS.DE](mailto:INFO@NESS.DE) | TEL. +49 (7181) 9675 1

Product overview

# OUR PRODUCTS

We offer high quality and sustainable systems and customized concepts to improve a variety of **processes in different industries**



**NESS OPERATES  
WORLD WIDE**



**ALL NEEDED  
CERTIFICATIONS**



**RELIABLE  
IN USE**



**INTELLIGENT  
SOLUTIONS**



## THERMAL OIL SYSTEMS

**For heating at a high  
temperature level**

The decision for a thermal oil plant is almost obvious for some processes, as thermal oil has many compelling properties. For example, the operation of the plant is possible up to a temperature of about 350 °C almost without pressure and extremely efficient.



## FIRED HEATERS

**Fired heaters for  
gaseous and liquid fuels**

By using a 3-pass system in our heaters, the thermal oil is heated up constantly in order to avoid temperature peaks. An optimal coil design increases efficiency and plant safety.



## ELECTRIC HEATERS

**Electrical heaters as an  
alternative to fired heaters**

The electric thermal oil heater (EWE) is a real alternative to fired heaters and, in addition to continuous operation, it is also suitable for bridging peak loads and during retrofits to the system.



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



## HEATING AND COOLING SYSTEMS

### Heating-cooling circuits for machines and devices

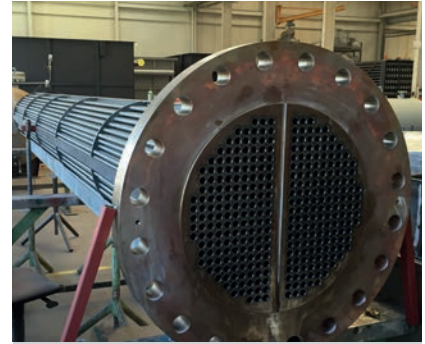
In particular, these processes are dependent on the precise control of temperature gradients, such as in printed circuit board production or composites production for the aerospace industry.



## STEAM SYSTEMS / HOT WATER SYSTEMS

### With fired or indirectly heated heat generators

This type of heating system is characterized mainly by the economical heat transfer medium. Hot water works well if lower temperatures up to 180 ° C are required. Steam is often used as a heating medium with direct product contact.



## HEAT EXCHANGER SYSTEMS

### Effective heat transfer between different fluids

Heat exchangers are needed in a plant when heat energy has to be transferred between fluids (gases and liquids). In some processes, heat is generated as a by-product.



## HEAT RECOVERY

### More efficient use of existing resources

A sustainable option for your plant is heat recovery through a combustion air preheater (Luvo). Thanks to the Luvo, the energy of the hot flue gases at the outlet of the heater can be used to save energy costs and resources!



## SECONDARY CIRCUITS

### Independent control of your process temperature

With secondary circuits, the heating parameters (temperature and volume flow) can be optimally adapted to the requirements of the process. The temperature can be regulated very precisely and is therefore ideal for demanding processes.



## SPECIAL INSTALLATIONS

### Special installations from experts for experts

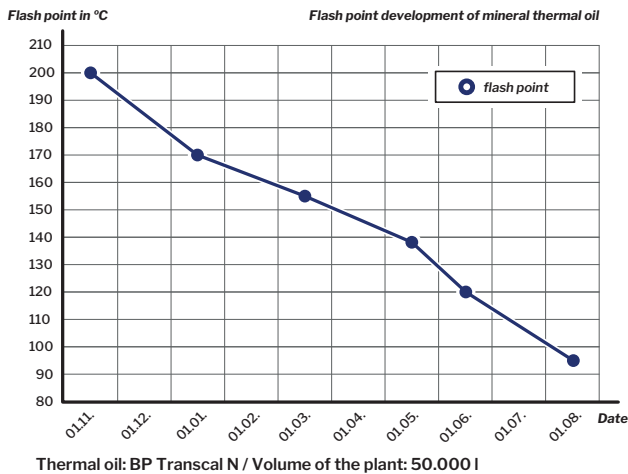
Custom requirements and wishes are often the reason to develop new concepts that are customized to specific applications. Some solutions are therefore completely re-viewed by us and "refreshed" as needed.

More **safety, availability, durability and efficiency**  
for every thermal oil system

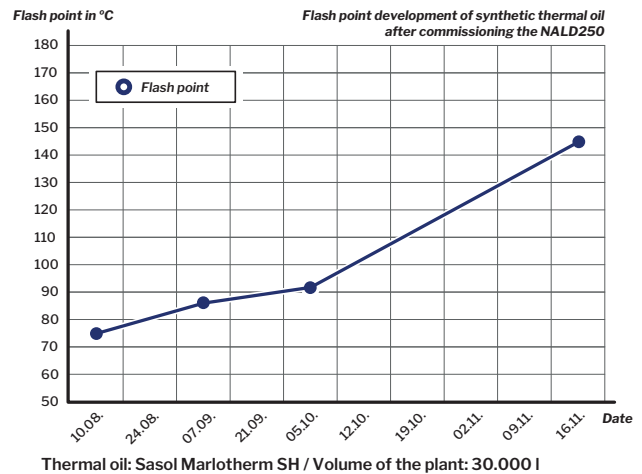
# NESSSITIES

## A SUCCESS STORY - NESS LIGHT-ENDS REMOVAL SYSTEMS ENABLES A BENEFICIAL PERMANENT HIGH FLASHPOINT FOR THERMAL OILS SYSTEMS

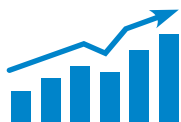
### WITHOUT LIGHT-ENDS REMOVAL



### WITH LIGHT-ENDS REMOVAL



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



Your system works more effectively and safely with  
a permanently high flash point.  
A constantly high flash point means less downtime.



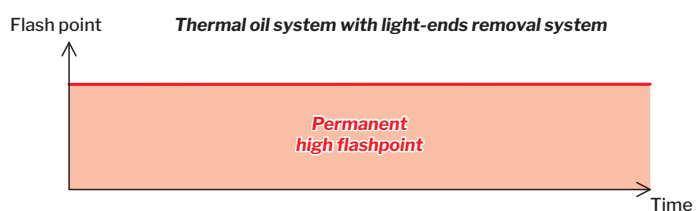
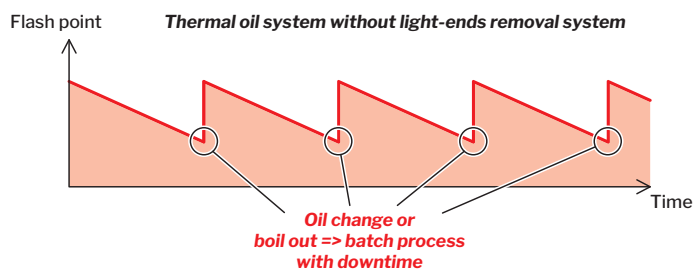
Learn more about our light-ends removal  
systems and other solutions on our  
**NESS** Youtube channel



Light-ends are continuously generated in thermal oil systems depending on the operating temperature.

**Basically: The higher the operating temperature, the more light-ends are formed. If the light-ends content increases, the flashpoint of the thermal oil decreases.**

The NESS light-ends removal systems remove them and the flash point is constantly maintained on a high level. This improves plant safety and reduces cavitation risk in pumps.



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 1

Our service team offers you a variety of solutions and services

# COMPREHENSIVE SERVICE

## SPARE PARTS SUPPLY FROM NESS

You can easily order spare parts via our hotline. We will dispatch them worldwide.

If a part is not available, we can procure it from our suppliers in the shortest possible time.



**WE KNOW THE  
SPARE PARTS  
YOU MIGHT NEED**



**INSTALLATION,  
MODERNIZATION  
AND EXPANSION**

Our specialists take  
care of your system

## INSTALLATION AND COMMISSIONING

From installation supervision to turnkey services, we have the right solution for your needs.

Assembly managers and commissioning engineers also take care of the successful implementation of modernization and expansion.



## OUR TOTAL CUSTOMER CARE SERVICE IS WAITING FOR YOU

Feel free to contact us!

# WE TAKE CARE OF YOU AND YOUR SYSTEM

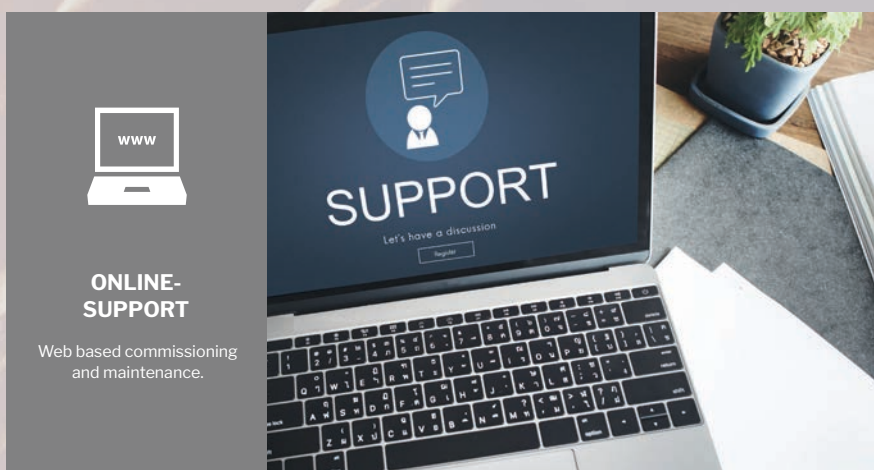
## Our service - your benefit

**Maintenance, safety checks and more.  
We advise you personally and competently!**

Service forms the basis for a safe and efficient investment. We value partnership and long-term cooperation. That's why we look after you throughout the lifecycle of your system and help with problems and questions.

To ensure this, we offer you two direct dial numbers that will allow you to reach our service team.

Even outside our office hours, a customer service representative is available to assist you in a timely manner.



# 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**

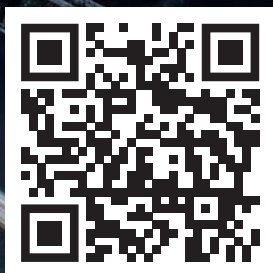
Monday to Friday from 7:00 am to 4:00 pm

**Outside office hours  
+49 (7181) 9675 88**

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



# WE'RE 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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[linkedin.com](#) and [youtube](#)



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Emergency number  
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