Reducing Energy Costs & CO_2 Emissions

- recovering heat from flue gasses, steam and process air

exodraft

1 THE CHALLENGES

Many industries face the challenge of having to reduce energy consumption and minimize their carbon footprint by focusing on green energy.

3 MAJOR CHALLENGES

STRICTER GOVERNMENT REGULATIONS

FUTURE ENERGY COSTS

DEMANDS FOR CORPORATE SOCIAL RESPONSIBILTY

Sources of waste heat:

- Boilers, furnaces, heaters, kilns, combustion turbines, engines etc.
- Exhaust air from ovens, dryers etc.
- Hot liquids or water from processes
- Steam from various sources
- Hot products discharged from the heating equipment (e.g. hot steel, clinkers, glassware, castings)
- Radiation – convection heat from hot sources (e.g. ducts, conveyors)
- Cooling air from compressors
- AC-/climate control systems

Typical food & beverages industries generating waste heat


Bakeries


Food production


Industrial coffee roasteries


Juice production


Breweries & Distilleries


Dairies

Light and heavy industries generating waste heat


Heat treatment plants


Can manufacturing


Paper mills


Industrial painting


Metal processing


Automotive industry

2 THE SOLUTION & PROCESS

We supply the heat recovery solution and take care of the complete process from start to finish.

Thanks to our extensive range of services and experience, we can analyse, plan and implement your system while tailoring it to your individual needs and requirements.

A TYPICAL PROCESS FROM OUR FIRST VISIT TO FINISHED INSTALLATION

CUSTOMER VISIT

Our engineers make:

- Chimney draught analysis
- Heat recovery analysis
- Data logging

ROI CALCULATION

- **exodraft** OptiCalc software
- System design
- Financial, energy and CO_2 benefits

SUBSIDIES

- Considerable subsidies in most countries
- We assist with energy advisor

FINAL DESIGN

- Calibration of chimney fan, heat recovery units
- Utilisation of hot water on site

INSTALLATION

- Modular design = short delivery
- System supplier or turn-key installation

WE OFFER AFTER SALES SUPPORT

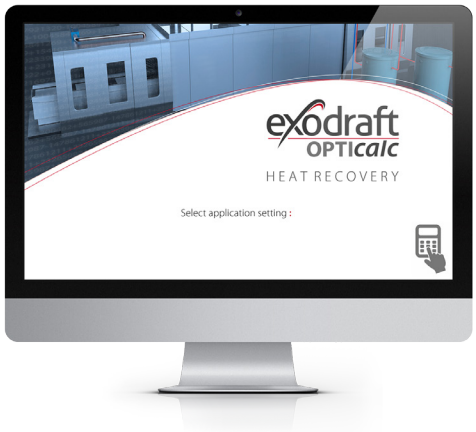
Staff Training

Preventive check & optimisation

Maintenance

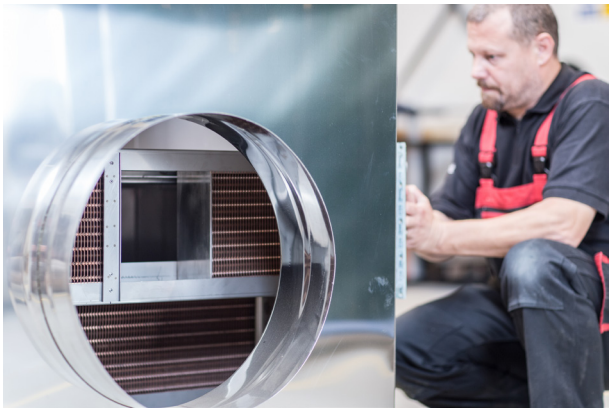
Professional advice

exodraft OptiCalcHR™



Using our **exodraft** OptiCalcHR™ software, we can calculate how much energy can be recycled, how much you can save and how much less CO_2 will be emitted. Let us calculate your savings today.

Research & Development

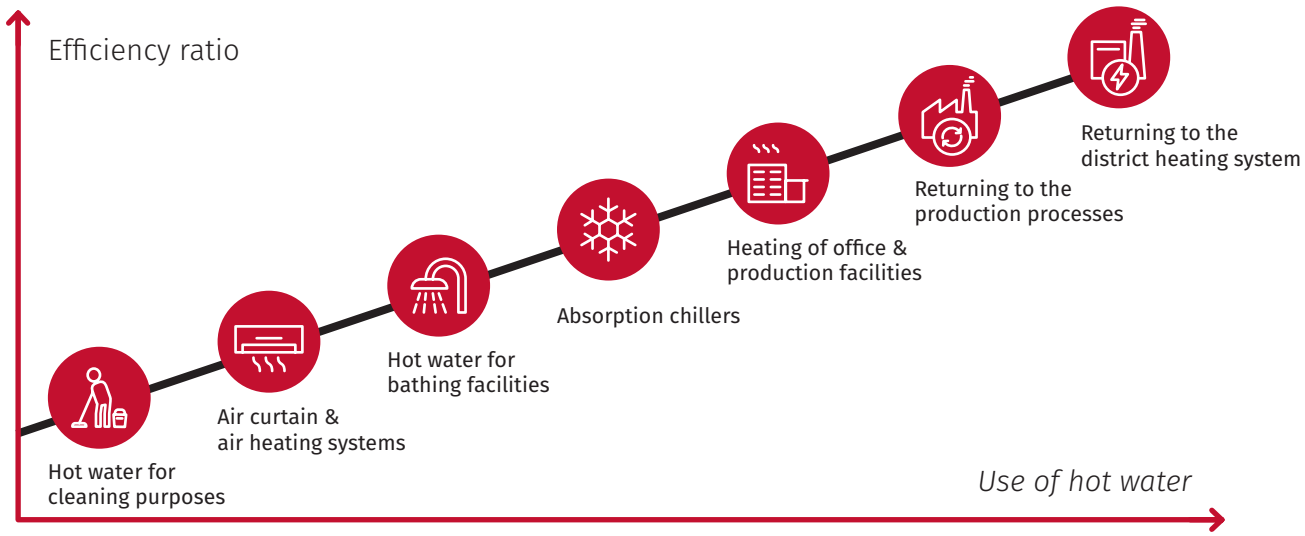


Our R&D department ensures that we are constantly ahead of market demand and thus able to maintain our position as market leader in heat recovery, chimney draught and combustion.

3 THE USE & BENEFITS

By turning flue gasses, steam or hot process air into hot water, the basis is created for reusing otherwise wasted energy—saving money, reducing CO_2 emissions and helping the environment.

Where to use the recovered energy:



Benefits of choosing an exodraft heat recovery system:

- Quick return on investment – usually less than 2 years
- Most compact and lightweight heat recovery system on the market
- Easy maintenance due to removable heat exchangers
- Our bypass systems ensure stable and continuous operation
- A single dedicated contact person to ensure the best customer service experience
- PLC control allows for both onsite and remote control and monitoring (optional)
- Can be installed in both vertical and horizontal orientations

The Basic Series can be supplied as a single or modular system

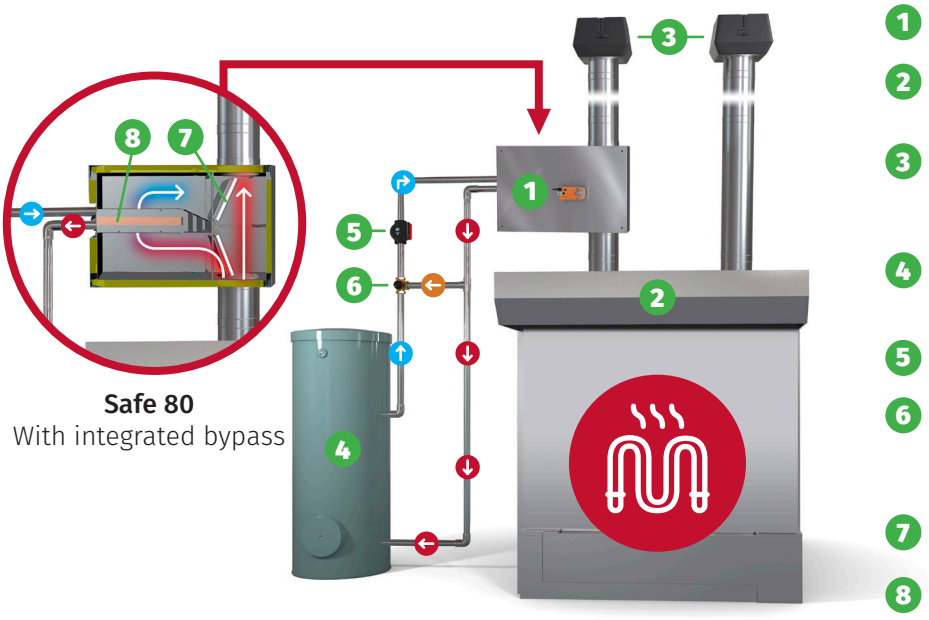
WE WERE CHOSEN FOR MANY REASONS

HERE IS ONE EXAMPLE

The roof of this customer's building could not carry the load of heavier, competing solutions

THE SYSTEM

By installing an exodraft heat recovery system, excess heat from flue gasses, steam or hot process air can be turned into hot water without influencing production uptime.



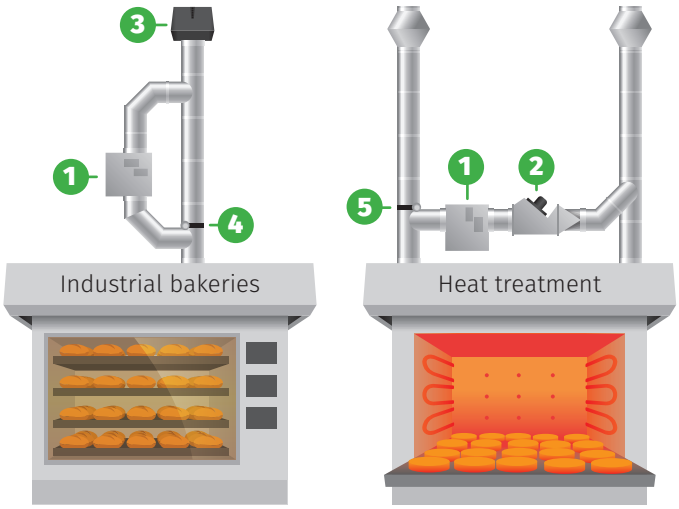
Safe 80
With integrated bypass

1. **Safe 80** heat recovery unit
2. Heat generating process, e.g. boiler, engine, oven, dryer
3. **exodraft** chimney fan which ensures an optimal draught and perfect production results
4. Buffer tank to store hot water for later use
5. Circulation pump
6. 3-way mixer valve which ensures correct temperature of the water
7. Integrated bypass damper
8. Compact heat exchanger

Concern:
Will **exodraft** heat recovery affect the reliability of my production?

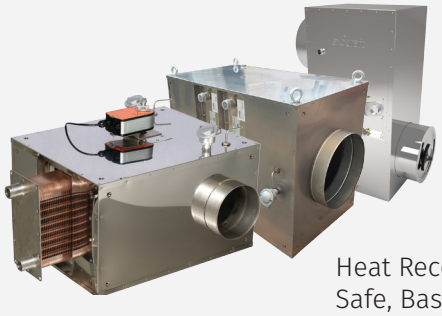
Answer:
No – our bypass system ensures no change in uptime.

1. **Basic 500** heat recovery unit
2. **exodraft** CFI-inline fan
3. **exodraft** chimney fan
4. **exodraft** bypass damper BD350 (single chimney)
5. **exodraft** bypass damper BD350 (separate chimneys)



THE COMPLETE SYSTEM

With our efficient air-to-water heat exchangers, modern chimney technology and smart controls, we are able to supply a unique solution that benefits your production and economy, as well as the environment.



Heat Recovery Units
Safe, Basic & Steam

Controls

Chimney & Inline Fans

Who is exodraft?

exodraft is a Danish company that manufactures and develops heat recovery & chimney draught systems for various industries and private users worldwide.

A clear mission:

We want to develop and sell heat recovery systems and mechanical exhaust systems of the highest quality possible. Our systems shall recover otherwise wasted energy effectively, thereby helping to protect the environment.

Comprehensive knowledge:

Our system solutions are built on 60 years of experience within chimney draught technology as well as extensive knowledge about the relationship between combustion and the draught in the chimney.

ISO certified quality:

At **exodraft**, we constantly optimise and develop our products further. Quality and documentation are two of the cornerstones in the production of our systems solutions. We are ISO9001 certified which is why we can document our high quality.

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Visit our heat recovery website for more info:

www.exodraft-heatrecovery.co.uk

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