

# HeatWork®

industrial heating solutions

# HW 1800

Thawing • Heating • Concrete work with more



## HW 1800

- a powerful little brother to HW 3600

.....

70 kW • 0-100°C • Environmentally friendly • Reliable

# HW 1800

- a powerful little brother to HW 3600

## Mobile heating solutions for use year-round – anywhere!

The key component in HeatWork's system is the mobile heating solution. HeatWork relies on patented hydronic technology as an energy carrier. This means most problems can be solved by providing the necessary heat, either by contact heat, or by exchange to hot air.

Since HeatWork's systems are closed, there is no water or humidity introduced to the environment during the thawing or heating process.

All of our machines have adjustable temperatures up to 100 degrees Celsius and weigh under 2000 kg.

Simple transport, set-up, hook-up and monitoring make this machine one of a kind.

HeatWork have set a new standard for concrete work, heating buildings and thawing frozen soil in cold climates. This is the future!

**HeatWork is the most environment-friendly and cost-efficient heating option on the market!**



*HeatWork is the leading manufacturer of ground thawers and frost prevention machinery in Europe!*

# HW 1800

- effective thawing and flexible use

## HW 1800 is the leader in the market for effective thawing, heating and concrete work

Two hose circuits allows for great flexibility of operation and optimizes the working process. The machine is great for thawing out larger areas, as well as for heating buildings, halls, etc. by attaching optional equipment.

The pump has a capacity of 2100 litres per hour and the water in the hoses holds 100°C, which allows for efficient energy transfer.

- 70 kW boiler
- Low weight - 1680 kg
- Automatic start, generator
- Can also run on AC power
- Produced in Norway
- High quality, long lifetime of our quality products
- Environmentally friendly, easy and reliable
- New! CliWi for heating

### Areas of application:

- Thawing frozen ground, ice and snow
- Controlled supply of heat for curing of concrete
- Heating buildings, garages, workshops
- Preheating concrete prior to laying membranes
- Point-thawing of foundations, manholes, signs
- Frost protection of materials, construction ground
- Preheating prior to casting concrete in winter
- Thawing roofs prior to roofing work



# HeatWork

- the most environmentally friendly, economical and effective thawing solution on the market

| Compared                                 | Coal               | Hot air             | HeatWork           |
|--|--------------------|---------------------|--------------------|
| Thawing area                             | 200 m <sup>2</sup> | 20 m <sup>2</sup> * | 200 m <sup>2</sup> |
| Heatloss                                 | 90%                | 85%                 | 5%                 |
| Operating costs NOK pr m <sup>2</sup>    | 140                | 211                 | 6,72               |
| CO2 emissions per m <sup>2</sup>         | 60,8               | 70,2                | 2,23               |
| Operating cost per unit, vs HW           | 20,8               | 31,5                | 1,0                |
| CO2 emissions, kg/m <sup>2</sup> , vs HW | 27,3               | 31,5                | 1,0                |

\* thawing an area of 20 m<sup>2</sup>, as it is not realistic to set up hot air machines to cover an area of 200 m<sup>2</sup>

#### Premise:

Thawing time: 48 hours • Depth: 60-80 cm under normal conditions • Price of diesel: NOK 8 per litre • Price of coal: NOK 7 per kg • Average consumption: HeatWork: 3.5 l/h. Hot air: 11 l/h. Coal: 20 kg/m<sup>2</sup>

#### HeatWork - best for the environment

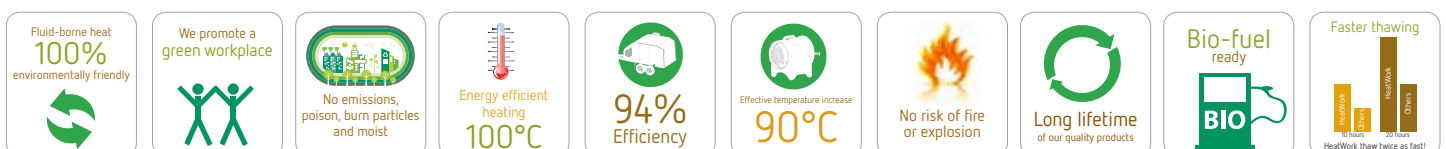
CO2 emissions per kg/m<sup>2</sup> during thawing:



**NEW!** CliWi Exchanger & Air Systems - visit [www.heatwork.com](http://www.heatwork.com) for more information

#### HeatWork - best for the environment:

- **Best for the environment!**  
93 % lower emissions than coal
- **Lowest operating costs** per m<sup>2</sup> thawed
- **The GSM unit** alerts the supervisor at home via text message if there is an anomaly
- **Closed system** – no other impacts on the environment, such as noise, smoke, etc.
- **Biodiesel BFO2G**
- **CliWi** - environmentally friendly heating
- **No open flame** - does not require a fire supervisor
- **Can operate unsupervised** for 3.5 days due to the integrated fuel tank
- **No clean-up** reconditioning when using Heatwork
- **Simpler set-up and disassembly** than the other methods





HeatWork has developed unique insulation mats for use during the winter season. Three layers of insulating material and a reflective aluminium coating ensures a unique reflection of radiating heat. This is the ultimate insulation mat for both businesses and private individuals, regardless of your needs.

HeatWork the most environmentally friendly, cost-efficient and effective method for ground thawing on the market.

HeatWork sets a new benchmark for concrete work - reduce curing times by 85%!

### Technical specifications - HW 1800

|  |   |
|--|---|
| Weight                                   | 1680 kg   |
| Pump capacity, max                       | 2100 l/h  |
| Number of pumps                          | 1x2100  |
| Primary system pressure                  | 2-6 bar   |
| Maximum heating effect                   | 70 kW   |
| Type of burner                           | Single stage  |
| Technical heating efficiency factor      | 94%   |
| Fluid temperature                        | 0 -100°C  |
| Fuel consumption                         | Average fuel consumption 3,5 l/h when thawing 200 m <sup>2</sup> .<br>Max 7,0 l/h constant burner operation |
| Diesel                                   | Winter diesel, Arctic Class 2 / Biodiesel BFO2G   |
| Run Time (up to)                         | Up to 90 Hour   |
| Diesel tank capacity                     | 320 liter   |
| VTV fluid*                               | HW VTV-fluid  |
| VTV fluid* tank volume                   | About 50 liter  |
| Fluid volume, heater hoses               | 0,2 liter/meter   |
| Industrial HW-hose                       | Reinforced heater hose. Max. pressure 30 bar  |
| Total length, heater hoses               | 630 m   |
| Length, individual hoses per circuit     | 315 m   |
| No of hoses                              | 2   |
| Electrical connection/energy consumption | 230V/ 1000W   |
| External fuel connection                 | Included  |
| Service doors                            | 4 doors for easy access when servicing  |

\*VTV fluid = heat transfer fluid.

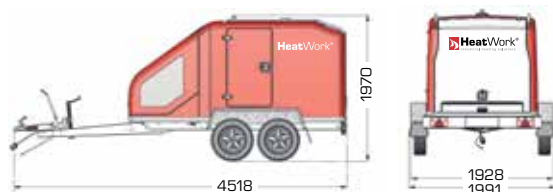
#### Additional equipment:

- GSM-control monitoring ..... Receive alerts via SMS in the event of a problem
- GPS Track Unit..... GPS positioning and operating log (subscription required)
- Generator, soundproofed..... Cummins 4.8 kW, liquid-cooled 2-cylinder engine
- Automatic start, generator ..... Generator starts automatically if mains power is interrupted
- Extra power outlet..... 16A outlet on power supply
- LED lights on mast..... LED floodlight. Practical and robust floodlight. Attached to the machine

#### Thawing and heating capacity

|   |   |
|---|---|
| Recommended thawing area, internal reel | Thawing: 0-200 m <sup>2</sup> . Frost prevention up to 400 m <sup>2</sup> . |
| Max. no. of CliWi exchanger 200         | 9* - 12**   |
| Max. no. of CliWi exchanger 300         | 2* - 4**  |

\*with full effect \*\*with greater heat distribution



#### Compatible accessories:

- CliWi Exchanger and CliWi Air systems
- CliWi 100 kW
- Ice Guard Systems
- Concrete Systems



HeatWork headquarter and production site in Narvik, Norway – 3300 m<sup>2</sup> state of the art production facilities.

# Developed, manufactured and tested for operation under the toughest conditions

HeatWork develops, manufactures and tests its machines in rough winter conditions, north of the Arctic circle in Norway. Technology and expertise are key components in the development of high-quality products and efforts to satisfy our customers' needs.

HeatWork strives to be at the forefront of technology development in our focus area. Our designs are characterized by high performance, high quality and user-friendliness.

More and more customers are finding new areas of application for HeatWork machines, year-round, all over Europe. Our developments are the result of patented technology and a strong focus on R&D.

In addition, we always pay attention to the feedback we get from customers. Your opinion matters to us!

Our central location, in one of Norway's primary logistics hubs, means we have immediate access to shipping options—road, rail, air or sea, direct to our customers.



HeatWork provides technology that has earned EU's top score for energy efficiency.

*The new standard  
– expect only the **best!***



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