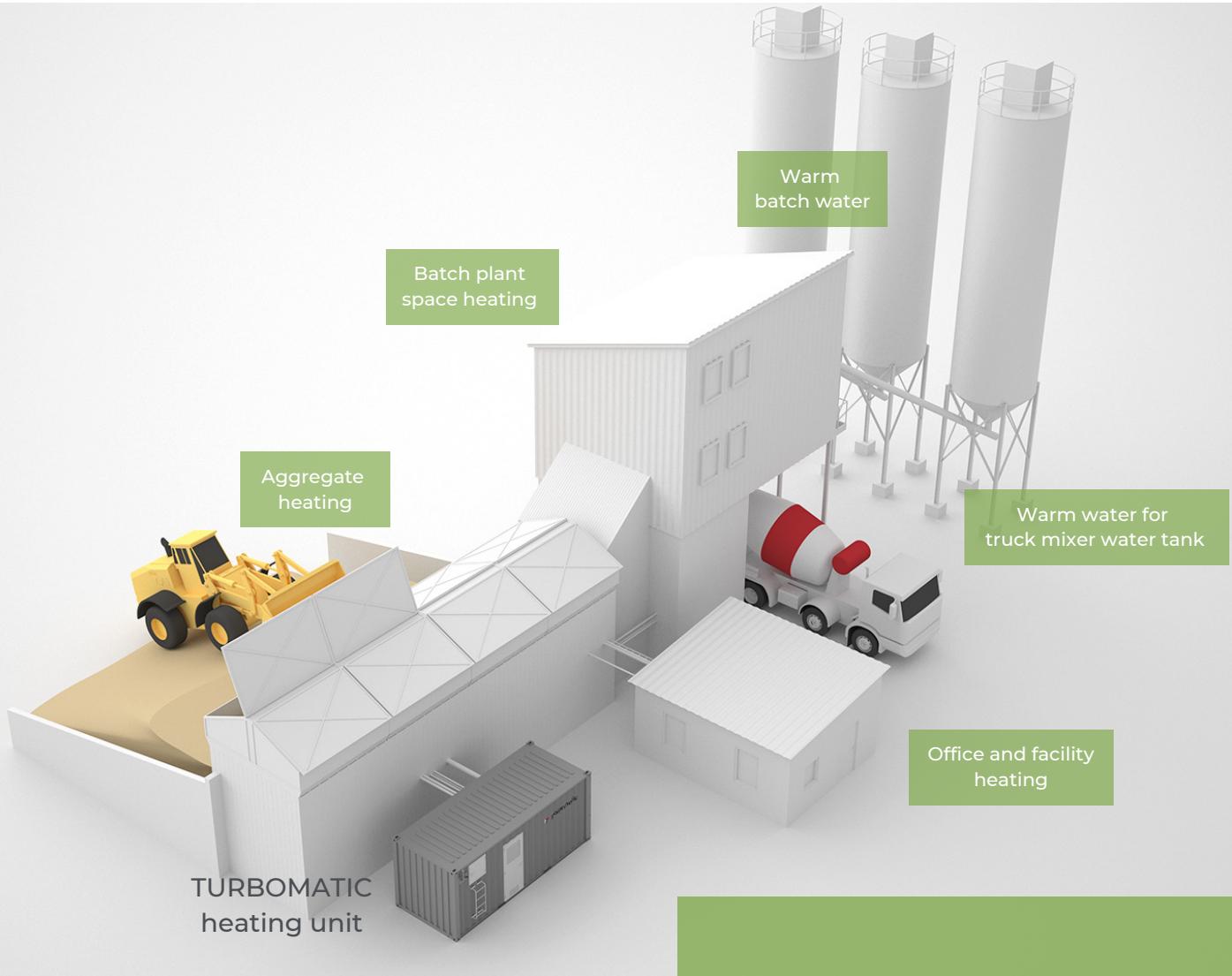


TURBOMATIC™



Sustainable Heating for All Concrete Production Plants



Produce Premium Quality Concrete All Year Round

TURBOMATIC heating system enables concrete producers to produce premium quality concrete sustainably and with full production capacity all year around - even during the coldest winter days.

TURBOMATIC systems are known to be extremely **energy-efficient** despite of the surrounding climate and weather conditions. By heating the concrete production plant with TURBOMATIC, companies will achieve remarkable savings in energy costs but also considerable reductions in concrete production emissions.



90% less emissions with 100% renewable fuels



80% savings with 100% fuel efficiency



Produce premium quality concrete & concrete products



Higher productivity and increased turnover

Total Heating Solution

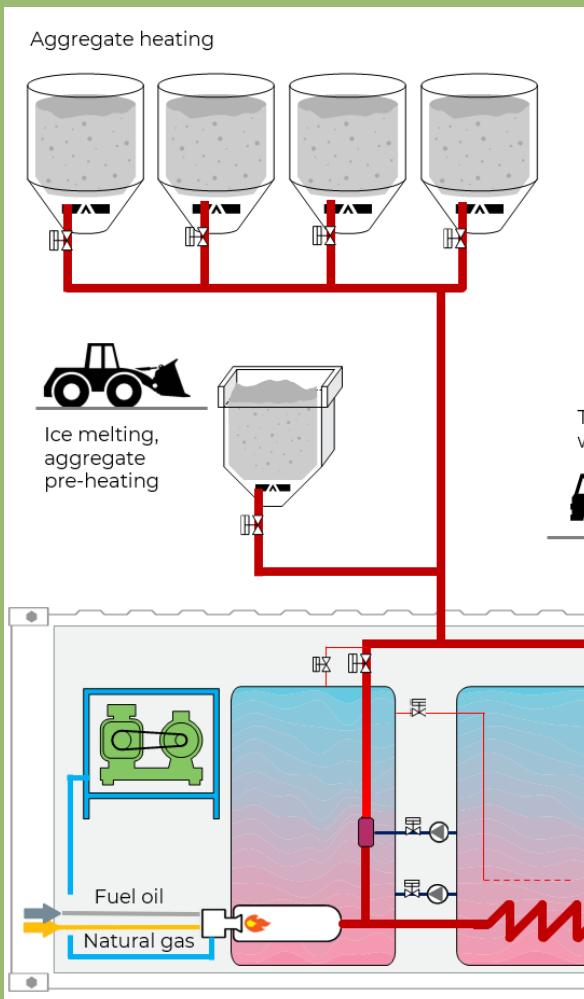


TURBOMATIC is an ideal heating system that works perfectly on every concrete production site in all climate conditions; whether it concerns arctic surroundings or warmer climate zones, ready-mix concrete or precast concrete production.

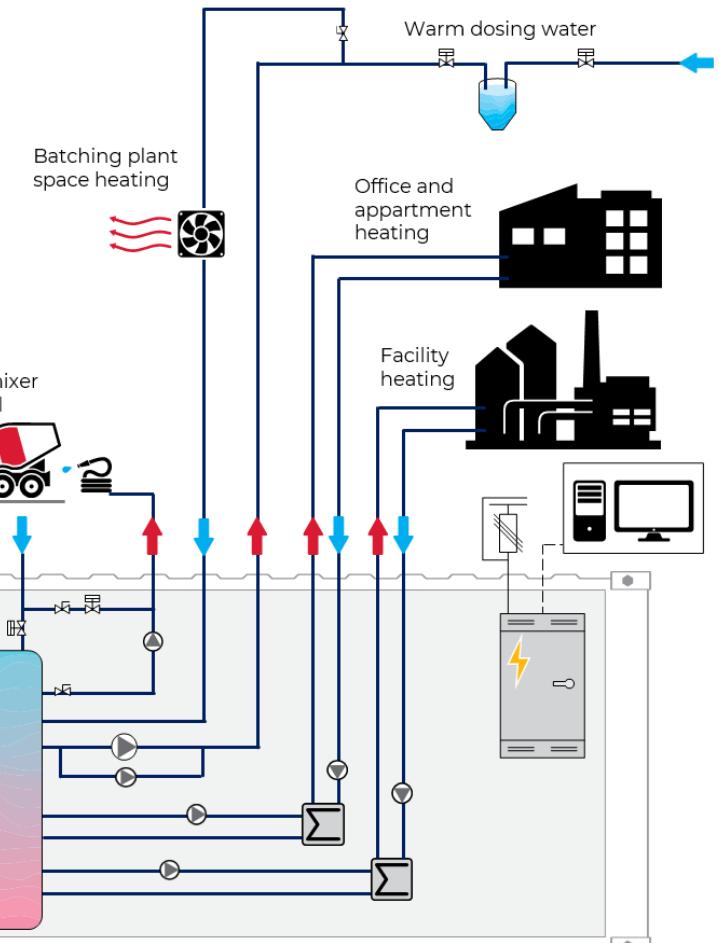
With help of TURBOMATIC, concrete producers will be able to produce concrete also during the colder season, and at the same time, ensure remarkable **cost savings** through system's energy-efficiency.

The containerized heating unit quickly and efficiently provides all the heating needed at the concrete production:

- Melt the ice and snow from the aggregates without manual work
- Heat the cold aggregates into the requested temperature
- Generate warm water for dosing but also for washing and filling of truck mixer as well as utility water for the plant
- Heat the office and production facilities into a comfortable temperature



Flow chart of TURBOMATIC Thermal Energy Unit



Heating Solution for All Needs

Polarmatic offers a heating solution for all capacity and environmental needs with several different fuel options and over 100 different system variants.

Application examples:

- Ready-mix concrete production in both central-mix and dry batch plants
- Precast concrete producers
- Pipe, block and paver producers

Climate conditions:

- Mild - moderate - severe weather conditions
- Heating capacity 300-2500 kW

Fuel options:

- Bio-fuels, e.g. bio diesel, bio gas
- Fuel oil
- Natural gas
- Propane

Different structures and layouts:

- Insulated model for outdoors or non-insulated option for indoor use
- 20'/40' container or rack assembly

Standard Designs

Thermal Energy Unit, heating solution that will heat the aggregates, water and premises.

Depending on the type of the production and climate zone, the ideal solution for each concrete production site can be found from the following configurations:

- STANDARD: ready-mix batching plants in moderate and severe climate conditions
- MAX: large scale concrete production e.g. precasters and production units in extreme climate conditions
- ECO: medium scale ready-mix plants in moderate and mild climate zones
- MICRO: small but efficient aggregate and water heating unit for volumetric concrete mixers

TURBOsteam Generator, heating solution for the plants where only heating of the aggregates is needed.

Warm Water Unit, heating solution for the applications where only the hot water production is to be considered.

Sustainability

Sustainability is a part of Polarmatic's strategy and business culture and we do our best to consider it throughout our functions from designing to the final system running at customer's site.

- Our products are designed to last and we encourage our customers to convert their older systems to run on bio-fuels.
- We use only durable and high quality parts in our systems, which are sourced from our responsible and long-time vendors.
- Our systems are, and have always been, energy-efficient and they use all the produced energy in the system bringing companies 80% savings in energy costs.
- There is no chimney nor direct emissions in our systems, and by using Polarmatic solutions, it is possible to cut concrete production emissions even by 90%.
- For over 50 years of production and after 1.300 delivered units, Polarmatic is the industry leader and trusted partner of all the biggest and numerous smaller concrete and precast concrete producers, worldwide.



Benefits

- Emission reductions of 90% or more when the system is running on renewable fuels
- 80% savings in fuel costs with 100% fuel efficiency
- Increased annual concrete production without winter stoppage in production
- Production of high quality concrete with optimal water-cement ratio and temperature at required capacity and at all ambient temperature conditions
- Low operating costs – no need for annual inspection, no need for separate certified operating personnel, no special requirements for water
- Low maintenance costs, systems are designed and built for demanding conditions
- Environmentally friendly solution; low fuel consumption and no emissions directly in the air
- Fully automated and computer-operated system, fast, flexible and stable operation



After Sales Care

For the optimal operation of the heating systems, we offer preventive annual maintenance service. Our experienced service teams and partners are visiting customer sites prior the heating season in order to guarantee a smooth operation of the heating system when it is needed.

For more information about Polarmatic service contracts, please e-mail to: sales@polarmatic.com

Polarmatic solutions are made to last long, but sometimes spare parts are needed, and they can easily be purchased from our webshop parts.polarmatic.com



Polarmatic Oy

- Established: 1968
- Domicile: Tampere, Finland, local presence also in Germany, Sweden and United States
- Delivered units (9-2022): ~1.300 worldwide
- Brands:
 - TURBOMATIC heating systems
 - COOLMATIC cooling systems
 - CUREMATIC curing systems
 - ProCon X control system
 - POLARMOIST moisture sensors



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