



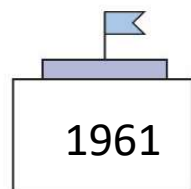
oilon[®]

The warm way

Industrial heat pumps

oilon[®]

Oilon briefly

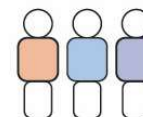


ESTABLISHED

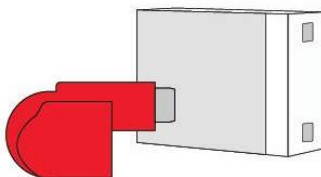


FAMILY-OWNED

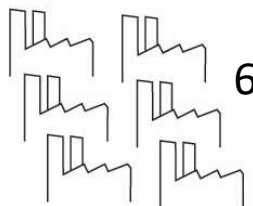
360+



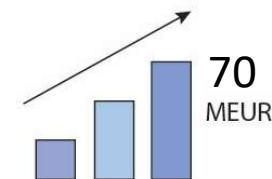
EMPLOYEES



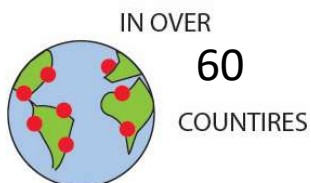
PRODUCTS



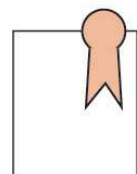
FACTORIES



TURNOVER



DEALERS



ISO9001
ISO140001

CERTIFICATES



6%
OF TURNOVER

R&D

Oilon Factories



Lahti, Finland



Kokkola, Finland



Lapua, Finland



Thomasville, USA

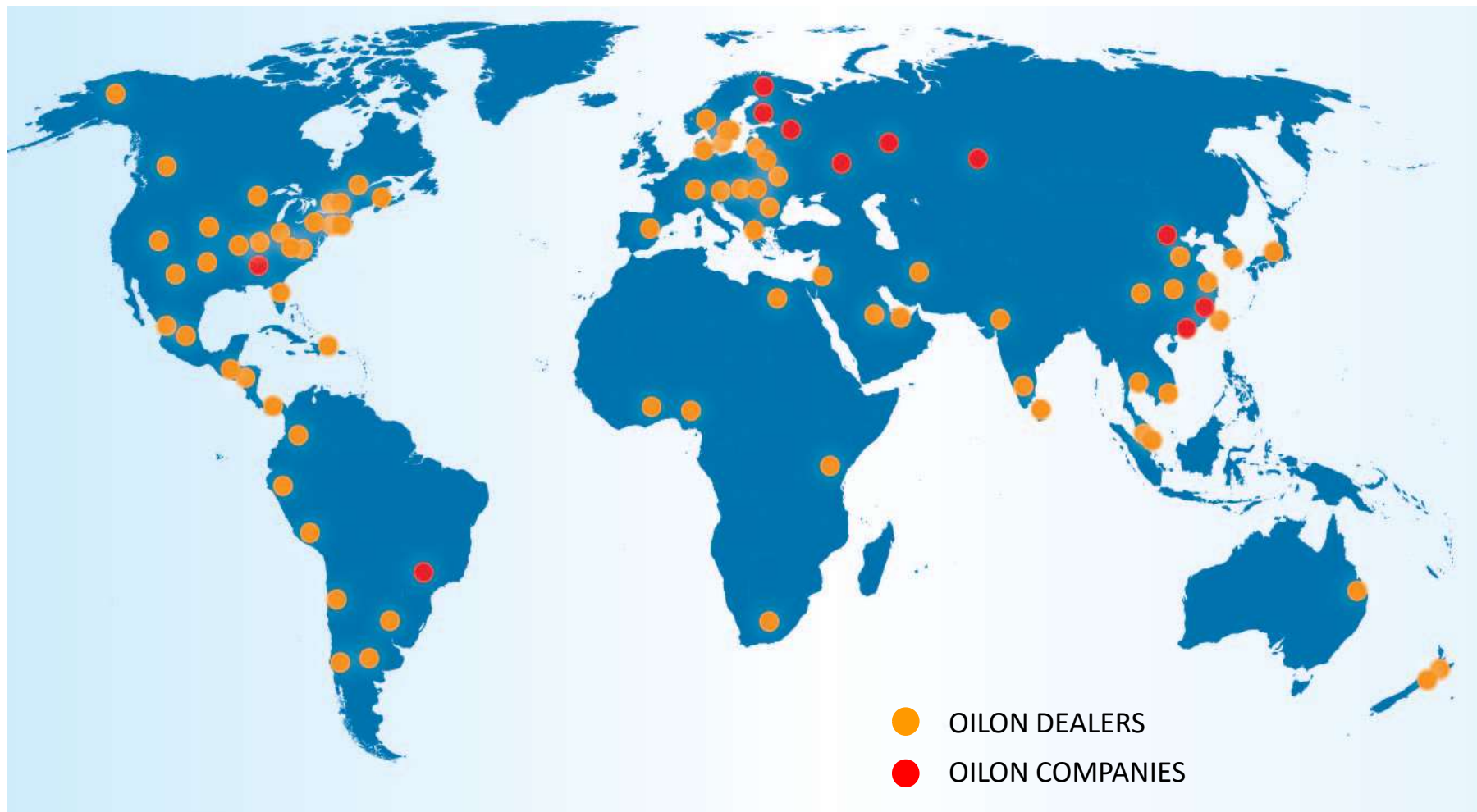


St. Petersburg, Russia



Wuxi, China

Oilon Dealers and Companies



Oilon Products



ChillHeat industrial heat pumps and chillers
30kW-3000 kW



Ground source heat pumps
4kW-96 kW



Burners 10 kW-90 MW

Oilon ChillHeat applications

Industry



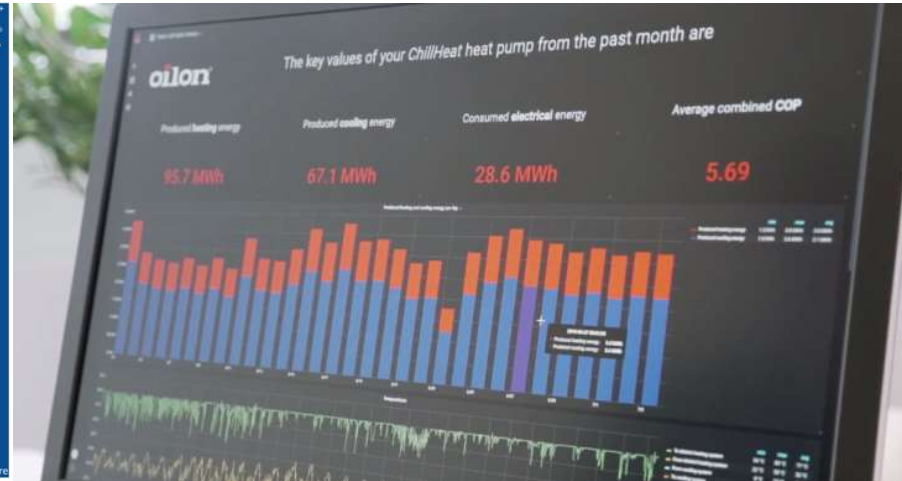
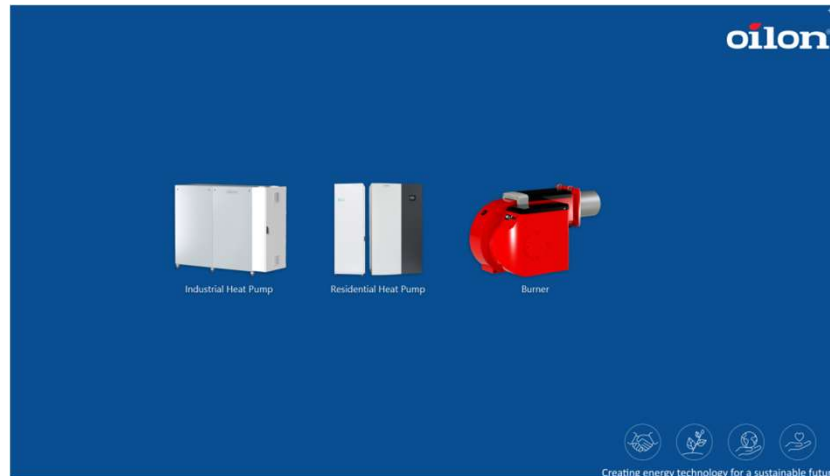
Large real estates



District heating and cooling



Important tools



Selection of products and systems in fast, precise and easy way

- Industrial heat pumps
- Ground source heat pumps
- Burners

- Remote monitoring of one or several ChillHeat heat pumps or the whole system
- The client must organize an internet connection with a cable or mobile connection
- Versatile and visual reporting and comprehensive trend monitoring.
- Operations support and optimization as a remote service to destinations around the world.
- High usability, minimizing maintenance costs and downtime.

Why the choice is ChillHeat

- Energy efficient cooling and heating simultaneously
- Waste heat utilization for heat production
- Water chilling and hot domestic water
- High temperatures, up to +120°C
- Reliable
- Environmentally friendly HFO-refrigerant
- Low operating and maintenance cost, cost effective investment
- Flexible and advanced remote control system



Diverse customer base



Industry: Snellman, Pietarsaari

- Heat source: Refrigeration waste heat
 - Heat sink: Sterilization water and Kathabar Dehumidification System
- Water temperature (cooling/heating): **25°C/90°C**



ChillHeat heat pumps: **2x**
P300 SU HC+ VFDx2
Refrigerant: **R1234ze**
Cooling capacity: **768 kW**
Heating capacity: **1067 kW**
COPh: **3,5**



oilon®

Large real estates: Copenhagen Airport, Denmark

- Heat source: Exhaust gas from natural gas boiler (intermediate water circuit)
 - Heat sink: Local heating network
- Water temperature (cooling/heating): **30°C/70°C**



ChillHeat heat pump: **P300**

SU VFDx2

Refrigerant: **R1234ze**

Cooling capacity: **470 kW**

Heating capacity: **623 kW**

COP: **4,0**



District heating and cooling: E.ON Data center, Stockholm

- Heat source: Data center
 - Heat sink: District heating network
- Water temperature (cooling/heating): **20°C/85°C**



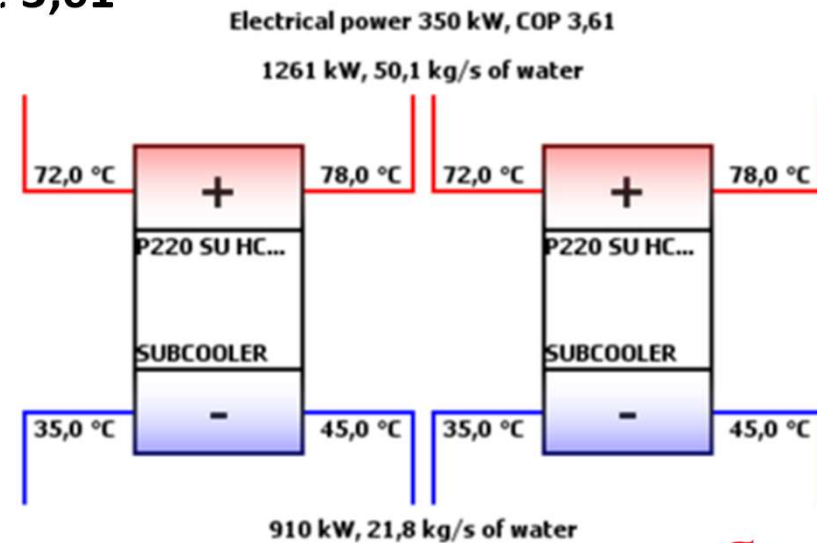
ChillHeat heat pumps: **2x**
P300 SU HC VFDx1
Refrigerant: **R1234ze**
Cooling capacity: **590 kW**
Heating capacity: **860 kW**
COP: **4,8**



CHC: Wärtsilä CHP Plant, Germany

- Heat source: CHP engine cooling
 - Heat sink: District heating network
- Water temperature (cooling/heating): **35°C/78°C**

- ChillHeat heat pumps: **2x P220 SU HC VFDx2**
- Cooling capacity: **925 kW**
- Heating capacity: **1265 kW**
- COP: **3,61**



E.ON Ectogrid, Medicon Village

ChillHeat heat pumps:

2x P100 SU HC VFDx1 R1234ze

2x P150 SU HC+ VFDx1 R1234ze



After the current expansion of Medicon Village is completed, Medicon Village will consist of some 140.000 m2.



An illustrative view of the ectogrid™ at Medicon Village

Source: <http://ectogrid.com/use-cases/medicon-village/>



CHC: Synchrotron Radiation Laboratory, Sweden

- Heat source: Synchrotron radiation laboratory
 - Heat sink: District heating network
- Water temperature (cooling/heating): **23°C** and **10°C/80°C**
- ChillHeat heat pumps: **3x S-series and 8x P-series units**
- Cooling capacity: **3 900 kW**
- Heating capacity: **5 570 kW**
- COPcombined: **5,9**



Who to contact?

- **Northern Europe (FI, Baltics), Eastern Europe, APAC**
 - Jussi Alpua, sales manager, jussi.alpua@oilon.com
- **Northern Europe (SE, NO, DK, IS, UK), the Americas**
 - Samuel Östman, sales manager, samuel.ostman@oilon.com
- **Western and Southern Europe, Middle-East, Africa**
 - Heli Liedes, sales manager, heli.liedes@oilon.com