KAUKORA OY
Company presentation

Kaukora Ltd
P.O.Box 21
21201 Raisio, Finland

www.jaspi.fi
www.akvaterm.fi

Facts

KAUKORA LTD, FINLAND

ESTABLISHED in 1949

FACTORIES:

- RAISIO: stainless steel water heaters (electric & indirect), thermal storage systems, electric boilers, cool tanks, heat pumps
- TURKU: black steel accumulator tanks, buffers, central heating boilers, thermal storage systems

PERSONNEL: c. 160

TURNOVER 2024: 37.000.000 €

EXPORT: 10 %

Turku factory

Raisio heagquarter

Raisio factory

History of the company

OY JÄSPI & MÄKINEN AB

JÄMÄ

JÄSPI TUOTE

JÄSPI

AKVATERM

1949 Oy Jäspi & Mäkinen AB (JÄMÄ)

1976 Kaukora Oy (sub-company)
- District heating

1983 Jäspi
- Hot water heaters
- Accumulator tanks
- Electric boilers

1986 OY Turun Lämpötekniikka AB
- Boilers (wood & oil/gas)

1996 Pekkavaraajat Oy joined the Kaukora

1998 Sento Högfors joined the Kaukora

2004 NIBE Industrier AB
- owner

NIBE

2006 JÄMÄTEK joined the Kaukora

2008
- Heat pumps
- Hybrid systems

2017 AKVATERM joined the Kaukora

73 years of JÄMÄ history

46 years of JÄSPI history

KAUKORA OY

JÄSPI®

FEARLESS FINNS

OFFICIAL PARTNER




KAUKORA`s Brands

- Stainless steel domestic water heaters,
- Air to water heat pumps,
- Central heating boilers – electric, solid fuels,
- Thermal storage buffers,
- Solar heating systems

- Black steel & stainles steel buffers,
- cooling tanks,
- large domestic water accumulators

- Ground source Heat pumps

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OUR PRODUCTS

HYBRID BUFFERS

Main advantages:

- ✓ Unique square design.
- ✓ All connections conveniently in front.
- ✓ Size-optimized tank: narrow, low and square design.
- ✓ Fits in through narrow doors and fits in low basements.
- ✓ Very low heat loss: Closed-cell insulation.
- ✓ Equipped with three cells: 2 hot water coils and one solar coil.
- ✓ Installation friendly connections.

Jäspi accumulator tanks (buffers)

- **GTV HYBRID 500 | OVALI HYBRID 1000, 2000 | OVALI 2400**
  - 2 x Dhw-coil (2,5 sqm each – total 5 sqm heat eschange surface) made of finned copper
  - 1 x solar coil 1,3 sqm made of finned copper
  - finished connectors for various energy sources
  - steel plate
  - Polyurethan insolation

REFERENCES

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OUR PRODUCTS

CUSTOMIZED BUFFER TANKS

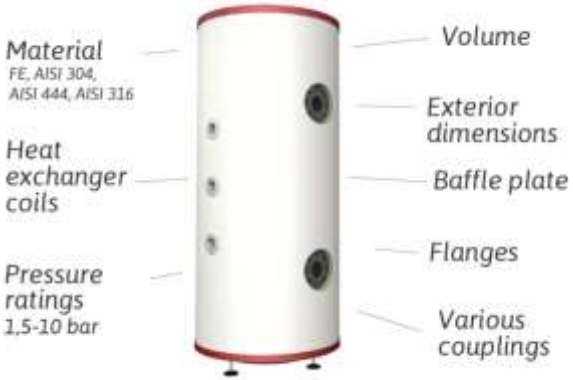
Main advantages:

- ✓ Material: Black steel: EN 10025, EN 1.4521 (AISI 444), EN 1.4301 (AISI 304), EN 1.4404 (AISI 316).
- ✓ All tanks can be produced to customer specifications.
- ✓ Short delivery time despite single order batches
- ✓ Energy class B on 300-1000L with closed-cell sprayed polyurethane.
- ✓ Flexibility and quality are key factors why customers choose Akvaterm.
- ✓ Over 2000 pieces of unique made-to-order products

Customised tanks

• AKVA PRO 300-10000 l

- Over 2000pcs manufactured products per year
- Material: Black steel: EN 10025, EN 1.4521 (AISI 444), EN 1.4301 (AISI 304), EN 1.4404 (AISI 316)
- All tanks can be delivered with a customer specific design
- Short delivery time despite single order batches
- Energy class B on 300-1000L with sprayed polyureth
- Flexibility and quality are key factors why customer choose Akvaterm



AKVATERM

HEAT LOSS DIFERENCES DEPENDING ON TYPE OF INSULATION

Tank size	Rockwool heat loss kWh / Year	Polystyrene heat loss kWh / Year	AKVATERM POLYURETHANE heat loss kWh / Year
			
500 L	1238	963	648
750 L	1514	1178	823
1000 L	1706	1327	929
1500 L	2147	1670	1121
2000 L	2513	1954	1270
2500 L	2785	2166	1547
3000 L	3070	2388	1705
4000 L	3676	2859	2073

Tested according to the EU: s Eco design directive (EU No 814/2013).

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Customised tanks

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ELECTRIC BOILERS

Jäspi FIL-SPL electric boilers are used in heating as the primary heat source, as well as backup or additional ones for private residences, schools, warehouses, multistorey buildings and industrial processes. Our boilers take care of all your heating and hot water supply needs. Available power ranges up to 1600 kW.

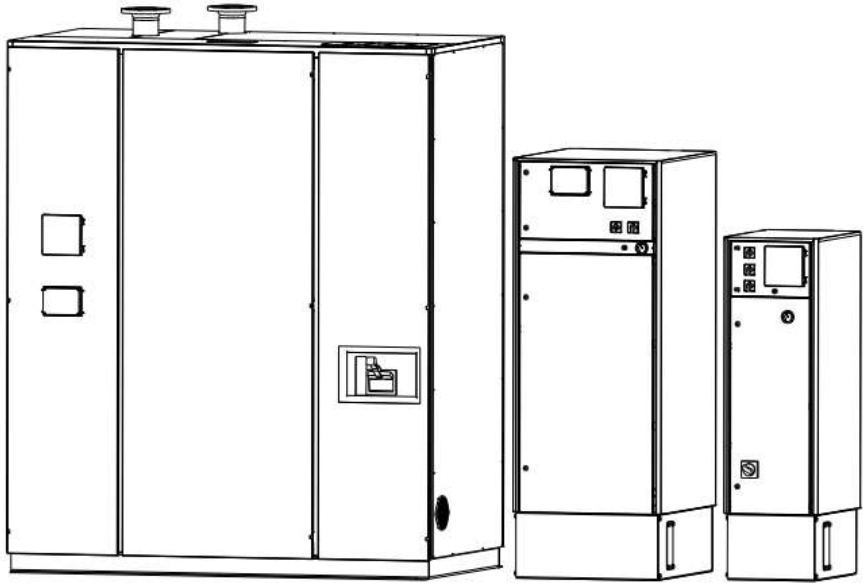
SEE ALL PRODUCTS →

Main advantages:

- ✓ Independent heat source or additional heat source for heat pump systems.
- ✓ Can be connected to many heating systems.
- ✓ For detached houses and terraced houses, blocks of flats and industrial properties.
- ✓ Electrical resistors and control unit.
- ✓ Can be controlled remotely.
- ✓ Does not include a hot water tank.
- ✓ Works with flow-through technology and requires an external circulating water pump that circulates water in the boiler.
- ✓ 7 or 15-stage control system.

FIL-SPL models

- Wide range with different powers
  - Small frame 31,5…140 kW
    - 400 V 3 N AC 50 Hz
  - Medium frame 150…400 kW
    - 400 V 3 N AC 50 Hz
    - 300 kW and over: 400 V 3 AC 50 Hz
  - Large frame 400+…1600 kW
    - 400 V 3 AC 50 Hz
    - Height of the frame differs by power
    - 400+…800 kW
    - 800+…1200 kW
    - 1200+…1600 kW



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Jäspi FIL-electric boilers

1980
FIL-S boilers 16 bar, district heating applications

1985
FIL-SPL electric boilers
Export countries: Russia, Estonia

1990
FIL-B electric boilers

1995
Export countries: am.+ Latvia, Lithuania

2000
Control card update
Export countries: am. + Uzbekistan, Georgia, Tadzikistan

2005
FIL-LP electric boilers

2010
Export countries: am.+ Armenia

2015
Increase in power of electric heating elements: 140 kW, 400 kW, 1600 kW
Control card EP15-30
Export countries: am.+ Ukraine, Abkhazia, Dominican Republic, Belarus, Kazakhstan

2020
FIL-SPL Remote
FIL Mini
Export countries: am.+ Norway, Belgium, Netherlands

2025
FIL-SG
Export countries: am.+ Slovakia, UK, Turkmenistan, Sweden, Romania, Germany

JÄSPI KAUKORA OY

End users:
- *Heating plants*
- *Hospitals*
- *Sports centers*
- *Stadiums*
- *Hotels*
- *Factory premises*
- *Shopping malls*
- *School centers*
- *Banks*
- *Nuclear power plants*
- *Airports*

Jäspi FIL-electric boilers

before 2000
about 260 pcs
25 MW

2000s:
about 250 pcs
37,5 MW

2010s:
about 1100 pcs
136 MW

2020s:
about 1300 pcs
163 MW

FIL-electric boilers

End users:
- *Water supply*
- *Wholesale stores*
- *Embassies*
- *Offices of the President*
- *Mine processes*
- *Olympic village*
- *Terminals*
- *Gardens*
- *Industrial processes*
- *Heat sources of buildings*
- *Marine industry*

In total:
more than 2900 delivered electric boilers with a combined power of more than 360 MW

KAUKORA OY

KAUKORA in the world

Russia: Metro of S.-Petersburg, Moscow, Kazan: since 1994 more 100 pcs. electric boilers **FIL-B and FIL-SPL**

Georgia: New hospital in Tbilisi, **2 x FIL-SPL 1000 kW,** winter 2007-2008.

Tadjikistan: Executive Office of the President of the Republic of Tajikistan, **FIL-SPL 1200 kW + FIL-SPL 1000 kW + FIL-SPL 400 kW,** 2009.

Russia: Olympic facilities in Sochi, 18 pcs. electric boilers **FIL-SPL 52,5 – 300 kW,** 2012.

Dominican Republic: Gold mine, **FIL-SPL 800 kW,** 2010 and 2018.

Ukraine: Eristovsky mining and processing plant, **3 x FIL-SPL 600 kW + 3 x FIL-SPL 720 kW + 3 x FIL-SPL 900 kW,** 2013.

Russia: Koashva, Murmansk region, **5 x FIL-SPL 1600 kW,** 2014.

Slovakia: Glassworks, **2 x FIL-SPL 1000 kW,** 2019.

Russia: Moscow, Administrative center, **FIL-SPL 1000 kW (16 bar) + FIL-SPL 1600 kW,** 2019.

UK: Saltholme, National Grid Power station, **2 x FIL-SPL 300 kW,** 2020.

Latvia: Adazi, Orkla Factory, **2 x FIL-SPL 1600 kW,** 2021.

Norway: Thermo Control Ost, **FIL-SPL 1000 kW + FIL-SPL 800 kW,** 2020-2021.

Jäspi FIL-electric boilers

- Three frame sizes:
  - 31,5 kW - 140 kW
  - 150 kW - 400 kW
  - 500 kW - 1600 kW
  - FIL-B with a larger water volume
- Control options
  - FIL-SPL
    - FIL-SPL Remote
  - FIL-LP
  - FIL-SG (150 kW - 1600 kW)
  - (FIL-B)

KAUKORA OY

NEW FIL-SPL SG serie for grid balancing

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DEMAND RESPONSE AND ELECTRIC BOILERS

More and more companies are utilising their electronic equipment, such as electric hot-water boilers, fans, ventilation, pumps, etc., as FCR-D demand response assets to earn revenues.

Demand response assets' energy consumption can be temporarily reduced to compensate for imbalances in the energy grid. Commercial electric boilers are perfect for this type of power grid balancing because they respond quickly and can preserve heat well, even when momentarily shut off.

USE YOUR E-BOILER AS A DEMAND RESPONSE ASSET

Jäspi's electric heating boilers paired with a demand response solution will give you

- revenues
- a smaller carbon footprint
- a safe, efficient and long-lasting heating solution

Comming soon!

Electric boilers – 31,5 kW – 1600 kW

KAUKORA OY contact data

Electric heating and heat pumps

Hybrid heating

Bio heating

Oil / bio oil and naturel gas heating

District heating

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