

2026



HEAT PUMPS MINI INVERTER WATER-TO-WATER



DESIGN MADE IN ITALY



Heating Solutions

FOR THE RESIDENTIAL AND
COMMERCIAL SECTORS

FINTEK AT THE FOREFRONT OF HEATING DECARBONIZATION

TOWARDS THE COMPLETE PHASE-OUT OF FOSSIL FUELS BY 2050

Within the framework of European climate policies, the gradual elimination of fossil-fuel-based heating represents a crucial milestone. The thermal sector is one of the most energy-intensive in the European Union: approximately 64% of total energy consumption is used for space heating and domestic hot water production.

Although eco-design regulations and energy labeling systems will significantly contribute to achieving climate neutrality by 2050, structural intervention on existing systems will be essential, accelerating the phase-out of traditional gas- and oil-fired boilers beyond 2030.

Fintek's Strategy for Sustainable Commercial Heating

To support the European target of reducing greenhouse gas emissions by 55% by 2030 and achieving full carbon neutrality by 2050, the commercial heating sector must undergo a profound transformation.

This transition requires moving from fossil-fuel-based systems to high-efficiency, low-environmental-impact solutions capable of integrating technological innovation, energy security, and economic sustainability.



THE GRADUAL PHASE-OUT OF TRADITIONAL BOILERS

As of 2020, more than 60% of the European building stock was still heated using commercial boilers powered by natural gas or petroleum derivatives.

In addition to their high carbon footprint, these technologies face:

- **Increasingly stringent European and local regulation**
- **Growing volatility in raw material prices**
- **Uncertainty regarding the future availability of fossil resources**

Several countries have already introduced restrictions or bans on the installation of new fossil-fuel boilers in residential and collective buildings. Their technological lifecycle is clearly declining: the transition can no longer be postponed.

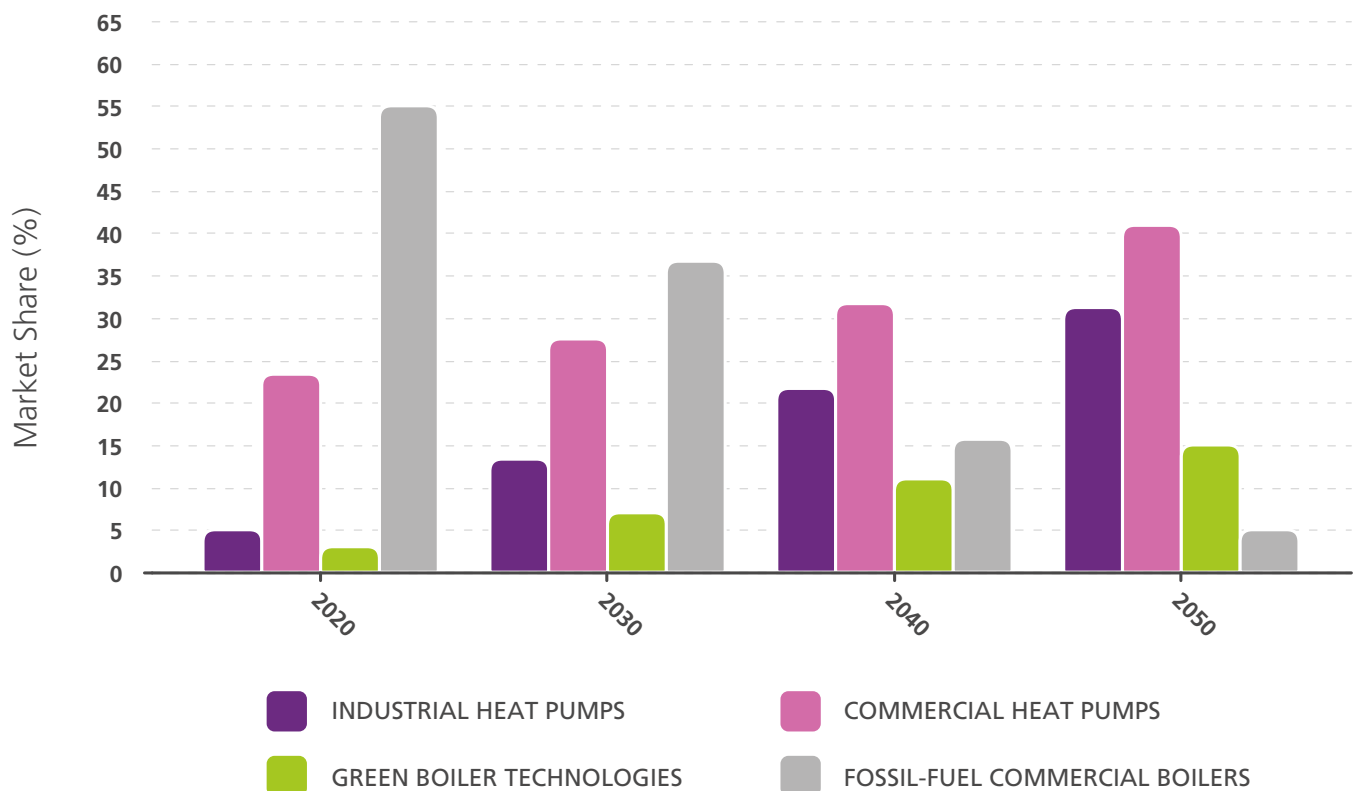
The Challenges of “Green” Alternatives

Low-impact solutions are a fundamental part of the replacement pathway, yet they present technical and operational complexities.

Hydrogen systems: currently at an advanced development stage, they require dedicated distribution infrastructure. The creation of “hydrogen-ready” urban networks will demand significant investment and multi-decade implementation timelines.

Biomass boilers: potentially viable in the short term, but operationally more demanding. They require frequent maintenance, continuous pellet or wood-chip supply, weekly cleaning operations, residue disposal, and adequate fuel storage space.

The challenge for European heating lies not only in replacing one technology with another, but in rethinking the entire building energy model, steering it toward systemic efficiency, renewable integration, and structural emission reduction.



STRATEGIC VALORIZATION OF RESIDUAL THERMAL FLOWS

FINTEK AS A LEADER IN SMART URBAN TRANSFORMATION

Recent European analyses reveal a remarkable fact: within the European Union, enough residual heat is generated to fully cover the heating demand of the entire building stock.

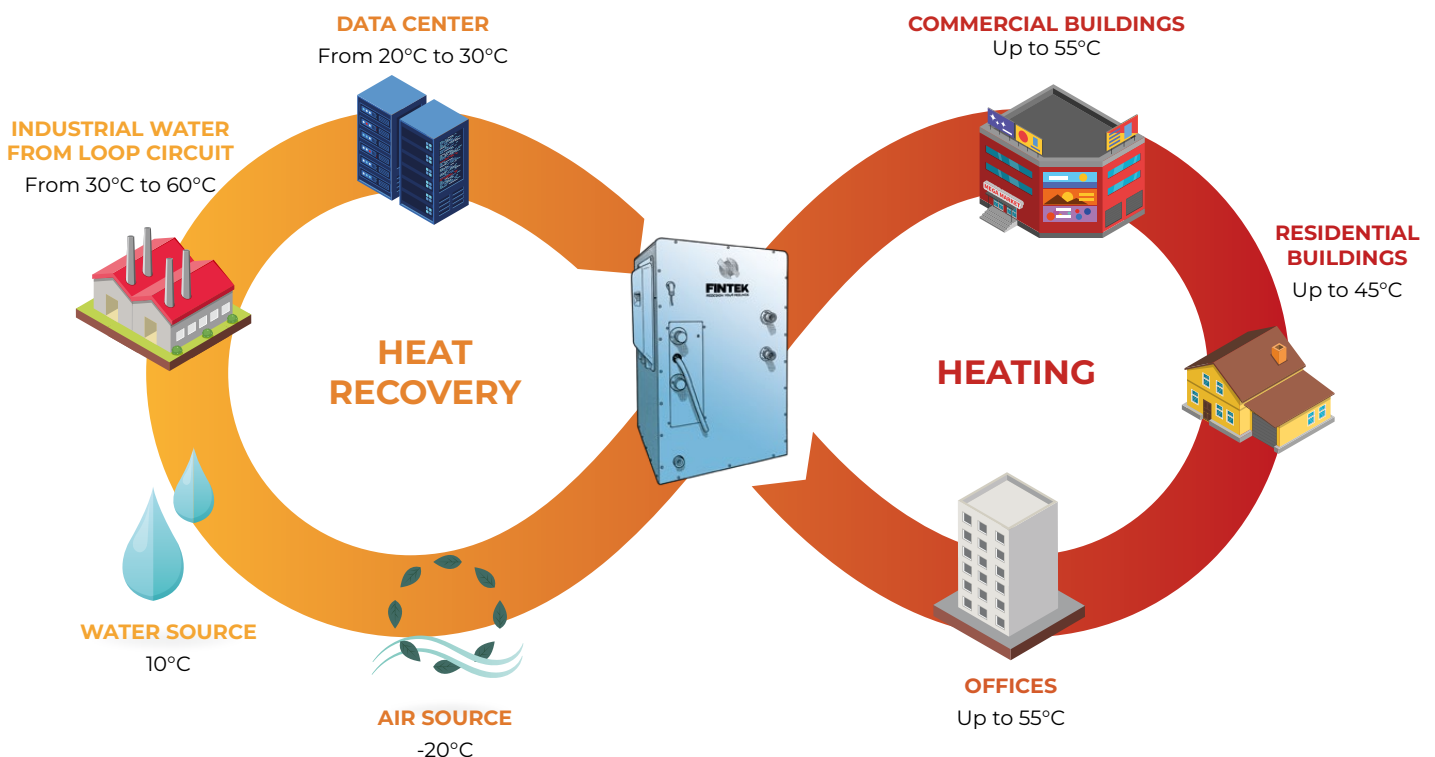
Yet this immense resource is still largely dissipated into the atmosphere or discharged into water networks without recovery.

Why continue wasting such a valuable energy asset when it can become a driver of efficiency and sustainability?

Advanced urban models will rely on integrated systems for recovering and reusing heat from:

- High-energy-density digital infrastructures such as data centers
- Wastewater networks and greywater circuits
- Industrial processes and production facilities
- Loop circuit systems
- Combustion systems and thermal generators (biomass, gas, and other sources)
- Chillers and cooling plants

Transforming wasted heat into a strategic resource means building cities that are more efficient, interconnected, and sustainable—where every energy flow is optimized within a truly intelligent urban ecosystem.



PERFORMANCE DATA 12 °C / 7 °C - 40 °C / 45 °C FH20WC SINGLE-PHASE - Power supply: M

Cooling performance 12 °C / 7 °C (1)

Size		005	007	009	012	014	016
Cooling capacity	kW	5,2	6,6	8,3	11,3	13,7	16,5
Power input	kW	1,4	1,5	1,8	2,5	2,3	3,05
Total current absorbed in cooling mode	A	6,4	7,20	9,20	12,00	11,00	14
EER	W/W	3,36	4,30	4,50	4,56	4,49	4,02
Source water flow rate	l/h	1146	1.386	1.731	2.359	2.548	2800
Source side pressure drop	kPa	30	28	29	36	46	55
Load water flow rate	l/h	896	1.137	1.430	1.955	2.100	2240
Load side pressure drop	kPa	24	15	17	23	29	35

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW	5,4	7,6	9,4	12,5	16,3	21,0
Power input	kW	1,7	2	2,4	3,1	4,0	5,1
Total current absorbed in heating mode	A	7,72	9,3	12,00	15,00	20,00	23,10
COP	W/W	3,11	3,86	3,89	4,05	4,05	4,17
Source water flow rate	l/h	1.092	1662	2.053	2.778	3.602	4.708
Source side pressure drop	kPa	32	32	35	46	42	52
Load water flow rate	l/h	939	1319	1.626	2.171	2.819	3.647
Load side pressure drop	kPa	21	25	26	30	27	34

Power supply: THREE-PHASE 400/3/50

Cooling performance 12 °C / 7 °C (1)

Size					012	014	016
Cooling capacity	kW				11,3	14,7	19,3
Power input	kW				2,6	3,1	4,0
Total current absorbed in cooling mode	A				4,90	6,40	7,40
EER	W/W				4,39	4,70	4,77
Source water flow rate	l/h				2.375	3.054	3.978
Source side pressure drop	kPa				35	32	40
Load water flow rate	l/h				1.955	2.541	3.320
Load side pressure drop	kPa				23	21	26

Heating performance 40 °C / 45 °C (2)

Heating capacity	kW				12,6	16,3	21,0
Power input	kW				3,2	4,0	5,1
Total current absorbed in heating mode	A				6,10	8,20	9,20
COP	W/W				3,94	4,05	4,17
Source water flow rate	l/h				2.767	3.602	4.708
Source side pressure drop	kPa				46	42	52
Load water flow rate	l/h				2.181	2.819	3.647
Load side pressure drop	kPa				30	27	34

(1) Data 14511:2022; Load side water 12 °C / 7 °C; Source side water 30 °C / 35 °C

(2) Data 14511:2022; Load side water 40 °C / 45 °C; Source side water 10 °C / 7 °C

Energy indices

Power supply: Single-phase

SEER - 12/7 (EN14825: 2018)

Size		005	007	009	012	014	016
SEER	W/W	3,36	3,77	4,13	4,27	4,26	4
Seasonal efficiency	kW	131,4	147,90	162	167,60	167,4	157
Water Regulation (l)	tipo	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW

Performance in average climate conditions - 35 °C (2)

Energy efficiency class		A++	A+++	A+++	A+++	A+++	A+++
Pdesignh	kW	8	11	14	17	23	30
SCOP	W/W	4,01	5,15	5,50	5,18	5,93	5,92
ηsh	%	157,4	198,00	212,00	199,00	234	234
Water Regulation (l)	tipo	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW

Performance in average climate conditions - 55 °C (3)

Energy efficiency class		A++	A++	A++	A++	A+++	A+++
Pdesignh	kW	7,2	10	13	16	21	26
SCOP	W/W	3,1	3,75	3,83	3,75	4,04	3,98
ηsh	%	131	142,00	145,00	142,00	154	150
Water Regulation (l)	tipo	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW	FW/VO-FW

Power supply: Three-phase - SEER - 12/7 (EN14825: 2018)

Size					012	014	016
SEER	W/W				4,13	4,51	4,66
Seasonal efficiency	%				162,10	177,30	183,30
Water Regulation (l)	tipo				FW/VO-FW	FW/VO-FW	FW/VO-FW

Performance in average climate conditions - 35 °C

Energy efficiency class					A+++	A+++	A+++
Pdesignh	kW				17,00	23,00	30,00
SCOP	W/W				5,38	5,50	5,48
ηsh	%				207,00	212,00	211,00
Water Regulation (l)	tipo				FW/VO-FW	FW/VO-FW	FW/VO-FW

Performance in average climate conditions - 55 °C

Energy efficiency class					A+++	A+++	A+++
Pdesignh	kW				16,00	21,00	26,00
SCOP	W/W				3,98	4,00	3,98
ηsh	%				151,00	152,00	151,00
Water Regulation (l)	tipo				FW/VO-FW	FW/VO-FW	FW/VO-FW

(1) VW/VO - variable water flow / variable outlet temperature; FW/VO - fixed water flow / variable outlet temperature; VW/FO - variable water flow / fixed outlet temperature; FW/FO - fixed water flow / fixed outlet temperature

(2) Efficiencies in low temperature applications (35°C)

(3) Efficiencies in medium temperature applications (55°C)

Fintek reserves the right to make any modifications deemed necessary at any time for product improvement, with possible changes to the related technical data

PERFORMANCE DATA MOTOR-DRIVEN EVAPORATORS

Power supply: M

Cooling performance 12 °C / 7 °C (I)

Size		005	007	009	012	014	016
Cooling capacity	kW	5,2	6,6	8,3	11,3	14,7	19,3
Power input	kW	1,4	1,5	1,8	2,5	3,1	4,0
Total current absorbed in cooling mode	A	6,6	7,20	9,20	12,00	14	18
EER	W/W	6,6	4,30	4,50	4,56	4,7	4,77
Load water flow rate	l/h	6,6	1.137	1.430	1.955	3320	3770
Load side pressure drop	kPa	6,6	15	17	23	21	26

Cooling performance 12 °C / 7 °C (I)

Size					012	014	016
Cooling capacity	kW				11,3	14,7	19,3
Power input	kW				2,6	3,1	4,0
Total current absorbed in cooling mode	A				4,90	6,40	7,40
EER	W/W				4,39	4,70	4,77
Load water flow rate	l/h				1.955	2.541	3.320
Load side pressure drop	kPa				23	21	26

ELECTRICAL DATA

Size			005	007	009	012	014	016
Maximum current (FLA)	220/50/1	A	12	14,0	18,0	21,0	34,0	38,0
	400/50/3	A				15,0	17	21
Starting current	220/50/1	A	52	63,0	84,0	119,0	140,0	165,0
	400/50/3	A				65,0	75	75

GENERAL TECHNICAL DATA REFRIGERATION CIRCUIT

Size		005	007	009	012	014	016
Compressor							
Type	tipo	DC inverter					
Number	n°	1	1	1	1	1	1
Circuits	n°	1	1	1	1	1	1
Refrigerant	tipo	R32					
Total refrigerant charge (l)	kg	1,25	1,25	1,25	1,80	1,80	1,80
Global warming potential (GWP)		675	675	675	675	675	675
Load side heat exchanger							
Type	tipo	Piastre	Piastre	Piastre	Piastre	Piastre	Piastre
Number	n°	1	1	1	1	1	1
Load side hydraulic connections							
Connections (in/out)	Tipo	Gas-F	Gas-F	Gas-F	Gas-F	Gas-F	Gas-F
Diameter (in/out)	Ø	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
Source side heat exchanger							
Type	tipo	Piastre	Piastre	Piastre	Piastre	Piastre	Piastre
Number	n°	1	1	1	1	1	1
Source side hydraulic connections							
Connections (in/out)	Tipo	Gas-F	Gas-F	Gas-F	Gas-F	Gas-F	Gas-F
Diameter (in/out)	Ø	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
Sound data							
Sound data calculated in cooling mode (l)	dB(A)	55,5	57,0	57,5	59,0	60,0	60,5
Dimensions and weights							
Height	mm	850	850	850	850	850	850
Width	mm	410	410	410	410	410	410
Length	mm	560	560	560	560	560	560
Weight	kg	120	130	150	160	160	170

(l) Sound power: calculated based on measurements carried out in accordance with UNI EN ISO 9614-2 in compliance with Eurovent certification requirements; Sound pressure measured in free field at 10 m distance from the external surface of the unit in accordance with UNI EN ISO 3744



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