

Panasonic



HVAC Europe

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heating & cooling solutions



HYDRONIC



AQUAREA. Air to water heat pumps.

Peripherals: Fan coil units / Water Loop heat pumps / DHW Heat Pump / Hot water tanks / Smart solutions and connectivity / Room control.

5 kW - 30 kW (up to 300 kW with a cascade controller)



SINGLE HOUSES

2 kW - 7,1 kW

ETHEREA & More. Domestic air to air heat pumps.

Peripherals: Wi-Fi control and connectivity.



PACi NX. Light commercial air to air heat pumps.

Peripherals: Air to air indoor units / Low temperature configuration / Water Heat Exchanger.

2,5 kW - 25 kW



ECOi-W. Commercial chiller & heat pump.

Peripherals: Fan coil units / Water source heat pumps / Connectivity.

20 kW - 1550 kW



LIGHT COMMERCIAL



COMMERCIAL / INDUSTRIAL

40 kW - 210 kW



ECOi-RT. Commercial Rooftop.



Techline. Close Control.

10 kW - 500 kW



DATA CENTER



REFRIGERATION

MT: 2 kW - 42 kW
LT: 1 kW - 15 kW



iCORE / iCOOL. Commercial refrigeration.

DIRECT EXPANSION

VENTILATION

90 m³/h - 455 m³/h

Residential ventilation.

Peripherals: Air distribution solutions / Wi-Fi control and connectivity.

150 m³/h - 40 000 m³/h

Commercial ventilation.

Energy recovery ventilation with DX / Air curtains / AHU connection kit.

Service
&
Maintenance



Panasonic is ready to cover the challenge with unique & wide HVAC-R solutions.

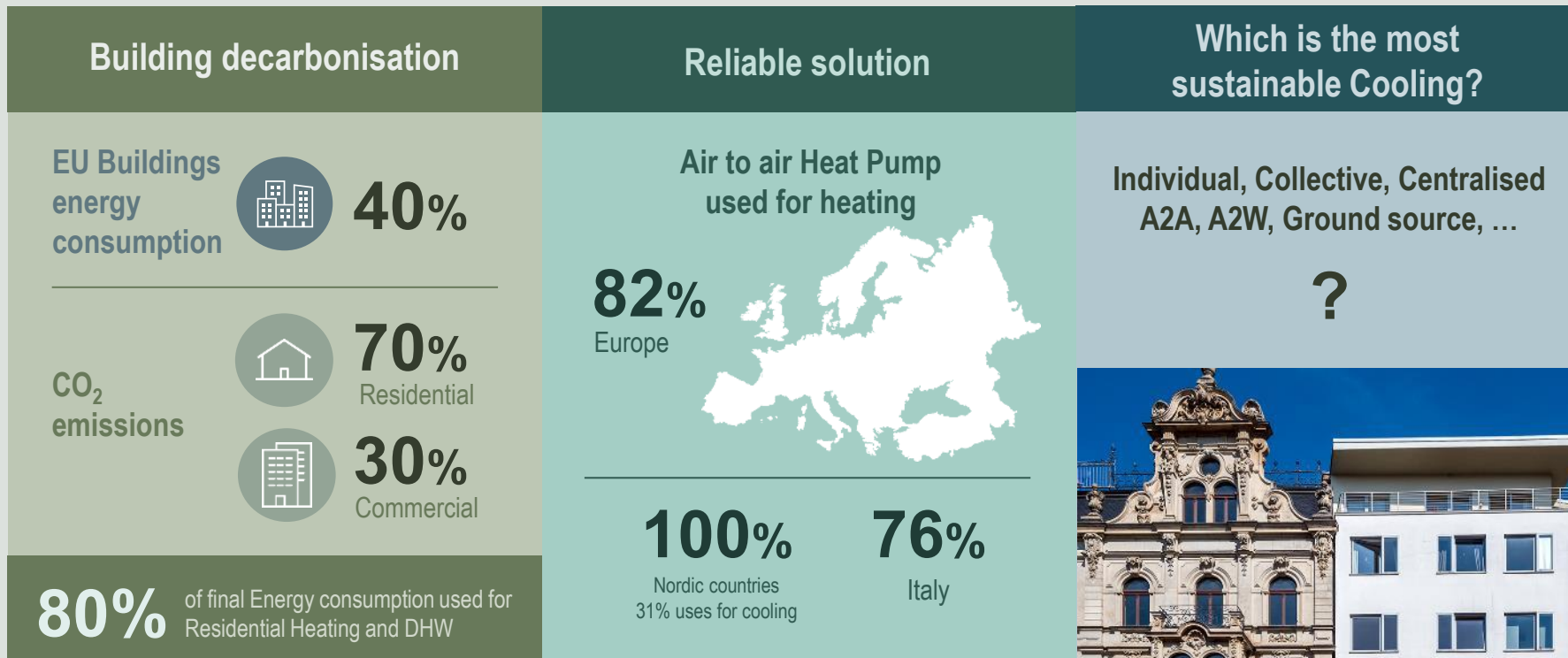
Residential

Commercial

Industrial



HVAC role in EU Residential and Commercial buildings:



Building attributes:

1. New/existing
2. Residential/Commercial
3. Type
4. Flexibility and scalability



Old architecture / New Building

Solution selection

- Design and sizing
- Efficient solution
- TCO



Modularity



Room integration

Control/Connectivity

Smart Grid ready, demand control

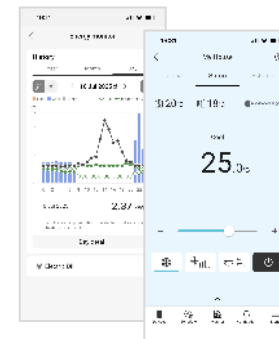
Renewable base powered:

- Locally: PV, SB, H2 Fuel Cell,...
- Dynamic tariffs, renewable energy contract, ...

Energy statistics

Smart operation

- Efficient and smart usage



End User control and energy stats



Multi site control and stats

Single homes



SMALL CAPACITIES

Multi-family homes



LARGER CAPACITIES

Commercial



Individual Systems

Social Housing – Cornella (Spain)

- 84 apartments in 6 floors
- 84 Air 2 Water Heat Pumps small capacity
- Supplying: Heating, Cooling and Domestic Hot Water



Centralised system

Residential building – Frankfurt (Germany)

- 36 apartments (105m²) + Restaurant
- 3 Big Air 2 Water Heat Pumps in cascade
- Supplying: Heating, Cooling and Domestic Hot Water



2 Building Offices in Berlin centralised system

- Cooling capacity: 640 kW
- 16 x Reversible Heat pump Aqua G Blue (R290)
- 1250m² Hybrid Solar collectors + 300 m² PV

Net-zero operation without the use of fossil fuels
Applying to LEED Zero Carbon



<https://www.arcguide.de/projekte/dockyard-berlin-tchoban-voss/#slider-intro-11>

https://www.aircon.panasonic.eu/DE_de/cases/case/chiller-kaskade-fur-buroprojekt-dockyard-waterfront-offices-1/

School space heating upgrade with cooling - Italy

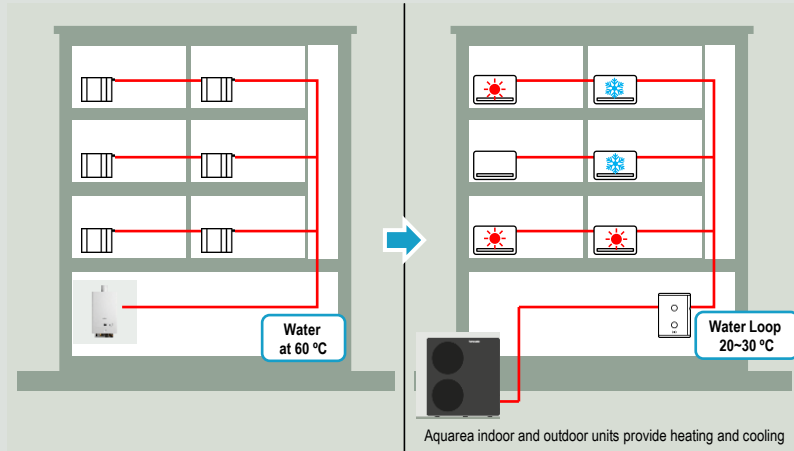
Challenge: Retrofit from gas boiler to electric solution while keeping existing indoor pipe distribution.

Existing School with 30 classrooms + common areas.

One technological partner supporting the design and solution



Application: replacing existing gas-boiler radiators with Aquarea Heat Pump and Aquarea Loop.

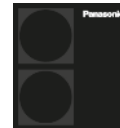


43 x



Aquarea Loop
P-CWSL20/30

2 x



Big Aquarea
WH-WXG30ME8

- Climate resilience
- Efficient cooling is possible, boosting sustainability when combined with heating and DHW
- Multiple solutions & Innovative solutions
- Flexible solutions to adapt to each city/neighbourhood/home/office...
- Technology is a choice, technology is evolving

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THANK YOU