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Calor Air best air/water heat pumps

The number of heat pump units sold in the European heat pump market increased by 3.5% last Year . A total of over 800 000 units were sold in the 21 European countries.

New models of (air/water) heat pumps and technology can solve main 3-main challenges existing on this market:

- refrigerant QTY reduction** in the **(air/water)** heat pumps
- noise level reduction** in the **(air/water)** heat pumps
- increasing COP efficiency** in the **(air/water)** heat pumps

Our heat pumps are built according to the latest technical solutions. **Ebmpapst** fans, **full inverter** compressors, **SEST-LUVE** evaporators, smart controlling systems with connection to the Internet, cooling mode. All of them are a norm for a high-class devices but Our engineers team have had ambitions to go much more further, setting a new standards for this class of devices...

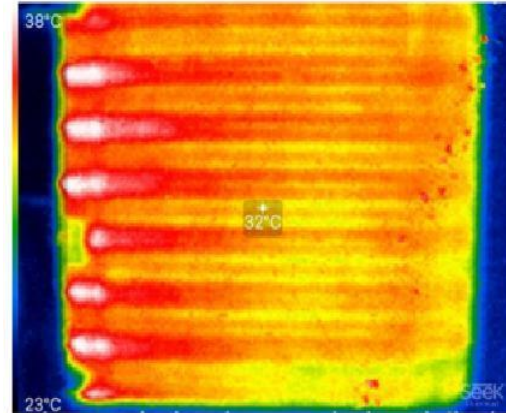
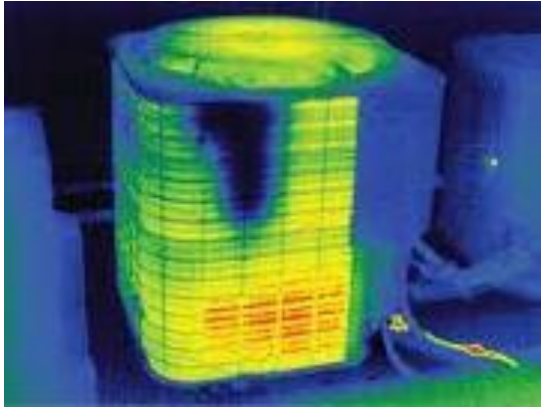
Last year our company developed method **improving evaporator efficiency (called WXE system)** in air/water heat pump and launched pilot installation to compare results.



Regular air/water heat pump unit was changed . Existing epeporator was modified into WXE system, new type of rerfigerant nozzle was also installed. We were able to compare results before modifications and after.

The main result was **increasing COP factor (+20%). Regular air/water heat pump used 20% less energy.**

In traditional air/water heat pump evaporator only 30% of evaporators surface is working. It happens due to too quick refrigerant expansion in the evaporator. **WXE system** relies on refrigerant flow and expansion control in the pump evaporator, thanks to which **evaporators work more effectively**



Advantages

- 1 Increasing (COP +20%), water temperature,
- 2 Reduction Qty of refrigerant up to 50%
- 3 Reduction of noise level dB
- 4 Change defrosting period and defrosting temperature

We would like to invite you to co-operation or distribution/installing heat pumps in the EU , venture capital as well...

OEM cooperation field

- heat pumps delivery (ready models 8,13,15,20 kW)
- setting up complete units up to 60kW power.
- improved evaporators for existing models
- improved tube condensers for existing models
- also available for R290,R32 refrigerant
- any further R&D

