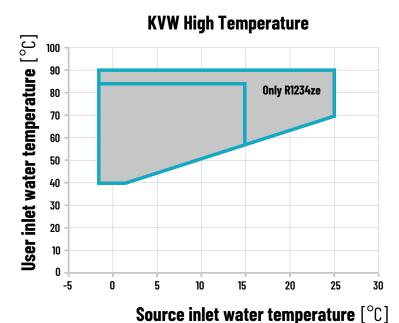


KVW is HiRef's range of water-condensed high-temperature heat pumps with **two-stage screw compressors**, **spray flooded shell and tube evaporator** and **shell and tube condenser**. The units are available with traditional refrigerant R134a or R1234ze, with a **very low GWP** (Global Warming Potential) value. The range covers the thermal power range from 400 to 2000kW* and reaches COP values of 2.2 producing water at +90°C (with R1234ze) from a source at -2°C. The KVW **extra high temperature heat pump series is ideally suitable for low-medium temperature heat recovery to produce hot water for district heating networks or industrial processes.**



- Refrigerant R1234ze and R515B
- Available in version: heating only heat pumps for high temperatures and chiller with total high temperature recovery.
- Monitoring and limitation of the maximum absorbed power
- Available with screw compressors driven by inverters
- Thermal insulation hoods on the compressors for the high temperature heat pump versions (optional)
- Modulation and supervision managed by the software
- Available in a single-circuit version with a single compressor and a dual-circuit version with two compressors
- External inverter for compressor modulation from 50% to 100%





Power and flexibility

Screw compressor allows achievement of **high cooling capacities** with load modulation via the special slide valve, **with obvious advantages in terms of energy efficiency.**

Production of hot water up to 90°C

The units of the KVW range can produce water at a temperature of 90°C even from a very cold source. Thanks to this feature, the heat pumps can be integrated into the district heating circuits even in replacement of traditional heat generators.



Two-level evaporation

The unit is equipped with a flooded evaporator with spray technology and double water-side passage. With this technology, **the refrigerant charge is reduced by 30% compared to a standard flooded bundle.**

Optimised installation space

The unit is available in both standard and 'mirrored' layout versions. When ordered together, the two versions can be placed adjacent to each other on the long side in order to occupy as little space as possible in the heating plant and facilitate maintenance operations.



Standard touch screen display

The KVW series comes with a **touch screen display and customized software and screens as standard.** On request, total web monitoring can be integrated through an Ethernet card

Economiser, power and flexibility

The integration of the refrigeration circuit with the economiser allows the heat output of the heat pump and also the efficiency (COP) to be increased.



KVW		500K	1001K	2001K
User water temperature 65/85°C, Source water temperature 4/1°C 20% ethylene glycol				
Thermal power	kW	535	1104	2208
Total absorbed power	kW	227.6	460	920
Sound power [Standard]	dB(A)	96	99	102
Dimensions [LxHxD]	mm	3045X2574X1800	5180X2574X1800	5180X2574X3600