

# ROTATION HEAT PUMP

## K7.2.4

**AVAILABLE  
from mid  
2023**

The decarbonization of heat processes in the industry is essential for our economic and environmental future.

ecop Technologies is a clean-tech company and has developed the rotation heat pump, which is regarded as the first economically effective heat pump for temperatures up to 150°C.

Heat recovery and efficient raising to high temperature levels are thus ecologically enabled for industrial processes. Flexibility in the application as heat booster, in combined heating/cooling processes and the control of flexible operating points becomes possible by ecop technology.



Highly efficient industrial heat pump  
- 700 kW, up to 150°C

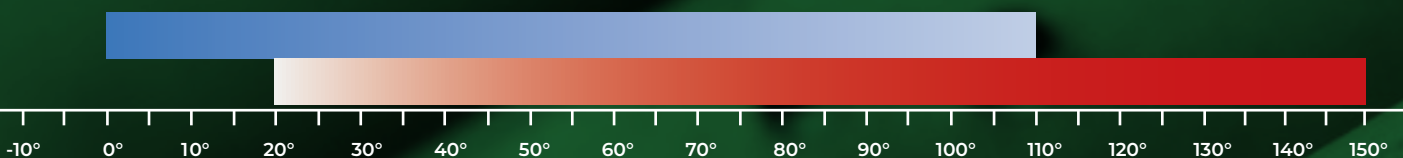


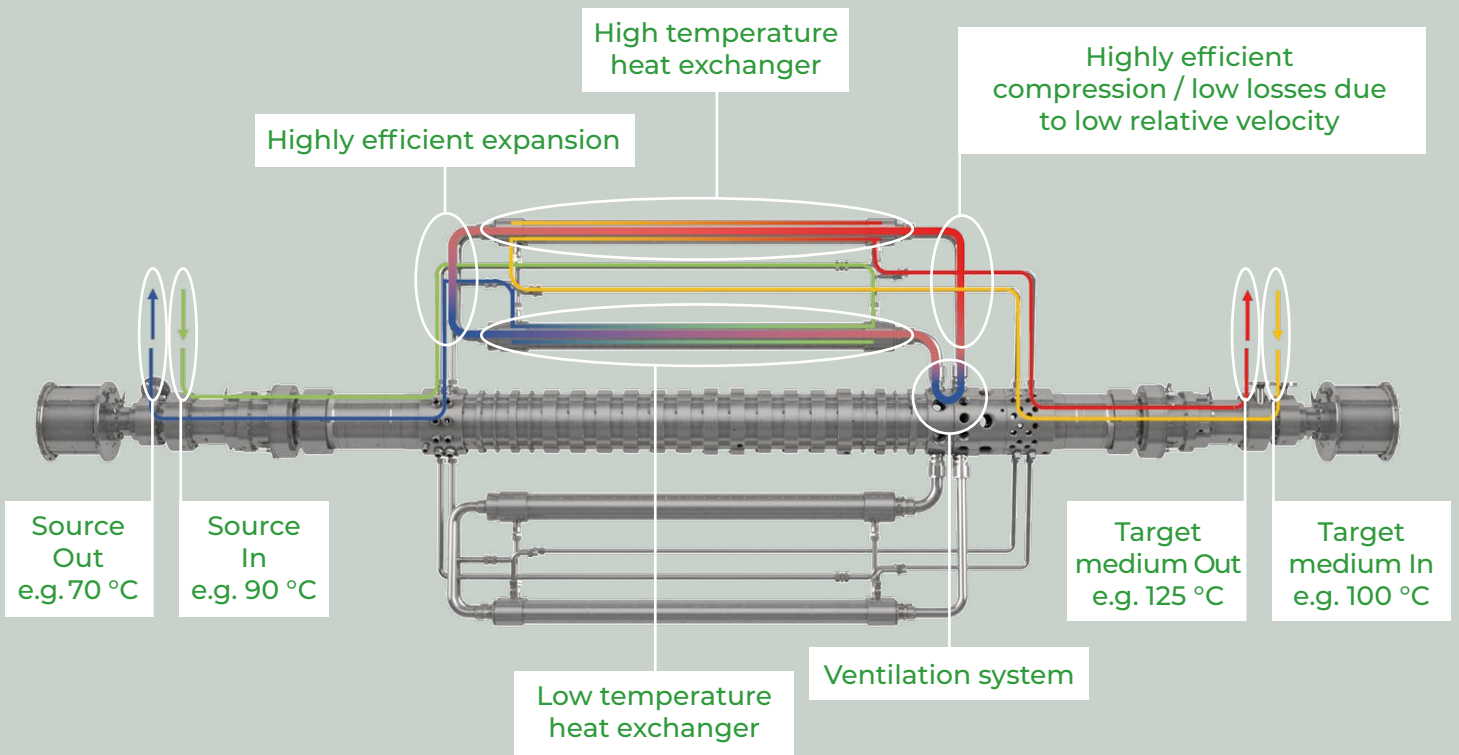
Core innovation is a patented process for **cycle compression**



Use of a **climate-neutral working gas**

### OPERATING RANGES





## CHARACTERISTICS

- // High temperature > 150 °C
- // Flexibility of temperatures
- // Cooling of the source
- // Significant cooling of media possible
- // Climate-neutral working medium

## TECHNICAL DATA

Weight	16 to
Dimensions (W x L x H)	2,2 x 8,1 x 2,7 m
Thermal power	700 kW
Power supply	Max 280 kW (400 V / 690 V, 50Hz)
Working Medium	noble gas mixture (He, Kr, Ar) <small>GWP=0, ODP=0, non-flammable, non-toxic</small>
Hydraulic connection	H2O / DN80 for source and sink
Temperature	up to 150 °C
Temperature lift (source in/target medium out)	up to 55K

## ECOP ENABLES HIGH ECONOMIC BENEFITS



Independence -  
self-sufficient heat  
generation & recovery



Fast ROI  
< 2 years



Significant  
savings of energy costs  
- EUR 400k/year



Cut CO2 emission  
by 2500 tons  
CO2/year

\* Numbers per plant (700 kW)

[www.ecop.at](http://www.ecop.at)