

# ARMSTRONG HEAT PUMP – THE MASTER IN ENERGY SAVING



Armstrong Heat Pumps are custom-engineered, packaged solutions for hydronic heating/cooling and general use on process hot water systems up to 120°C (248°F).

Armstrong Heat Pumps improve thermal efficiency by reclaiming waste heat and are an excellent option for facilities which are implementing cost reduction, de-steaming, decarbonization, or Net Zero-related initiatives.

In numerous industrial processes, waste heat is generated that often cannot be used efficiently, and therefore needs to be released into the environment. With the use of high temperature heat pumps, we provide the opportunity to process this energy for a specific further use.

[Learn more about Armstrong heat pumps](#)

## Features

- | Our tried and tested HFO and HCFO refrigerant based machines can be employed for a temperature range of up to 120°C (248°F)
- | 120°C (248°F) high temperature hot water can be generated by operating heat pump at low refrigerant pressure
- | Source temperature from -15 °C to 90 °C
- | Environmentally friendly solution with low GWP
- | The low pressure levels in combination with the thermodynamic capability

## Compressor

- | Equipped with Semi-hermetic Screw compressors or reciprocating compressors
- | Available displacements 95 m<sup>3</sup>/hr to 3360 m<sup>3</sup>/hr

## Pumps

- | Electronic in-line pumps with integrated frequency converter

## Expansion Valve

- | Electromagnetic expansion valve for optimal refrigerant injection in the evaporator

## Controller and Control Cabinet

Control of the unit by electronic PLC regulation via touch panel for:

- | Visualization of refrigeration cycle
- | Operation point
- | Application limits
- | Temperatures
- | Pressures
- | Clear text fault messages in case of malfunctions.

## Heat Pump Accessories:

- | High and low pressure switches
- | Heat exchanger for liquid sub cooling and suction gas super-heating
- | Sound-absorbing housing to reduce the noise level of the compressors by about 10 - 15 d B(A).
- | Equipped with standard equipments like Inspection glass, Refrigerant Collector etc ...

Armstrong International

The Americas | Asia | India | Europe, Middle East, Africa

[armstronginternational.com](http://armstronginternational.com)