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**Product Name :**  
Heat Pump For Cooling And Heating Operation

**Product Code :**  
LBNY-0005-125000129



#### **Description :**

Refrigeration circuit with compressor, condenser (heat exchanger with fan), 2 evaporators with fan (refrigeration and freezing stage)

Air-to-water heat pump for cooling or heating operation

Displays for temperature, pressure, flow rate and power consumption of the compressor.

Different operating modes selectable via solenoid valves

Glycol-water circuit with tank, pump and coaxial coil heat exchanger

1 thermostatic expansion valve each for all heat exchangers and evaporators

1 additional evaporation pressure controller and 1 capillary tube for the refrigeration stage evaporator

Coaxial coil heat exchanger and heat exchanger with fan can both be used as condenser or evaporator in the refrigeration circuit.

#### **Technical Specification :**

Compressor

Power consumption: 620W at -6,7/55°C

Refrigeration capacity: 934W at -6,7/55°C

Evaporators with fan

Refrigeration stage

Rate: 80m<sup>3</sup>/h, capacity: 140w (tl1=5°C, dt1=10k)

Transfer area: 1,21m<sup>2</sup>, volumetric air flow

Heat exchanger with fan

Rate: 650m<sup>3</sup>/h, capacity: 1148W at DT=15K

Transfer area: 1,25m<sup>2</sup>, volumetric air flow

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Freezing stage

Rate: 125m<sup>3</sup>/h, capacity: 330W (tL1=5°C, DT1=10K)

Transfer area: 3,62m<sup>2</sup>, volumetric air flow

Coaxial coil heat exchanger

Capacity: 1,6kW at 0°C; DT=9K.

**Measuring ranges:**

Power: 0...1150W

Flow rate (refrigerant): 1x 4...40l/h

Flow rate (glycol-water): 1x 2,5...65g/s

Temperature: 11x -50...150°C

Pressure: 2x -1...15bar, 1x -1...24bar.



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