

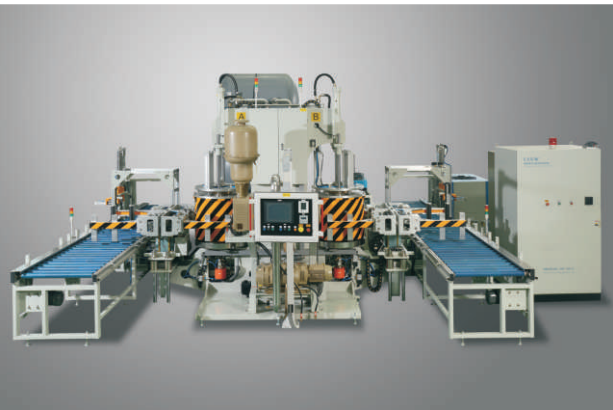


Automotive Industry Appliance

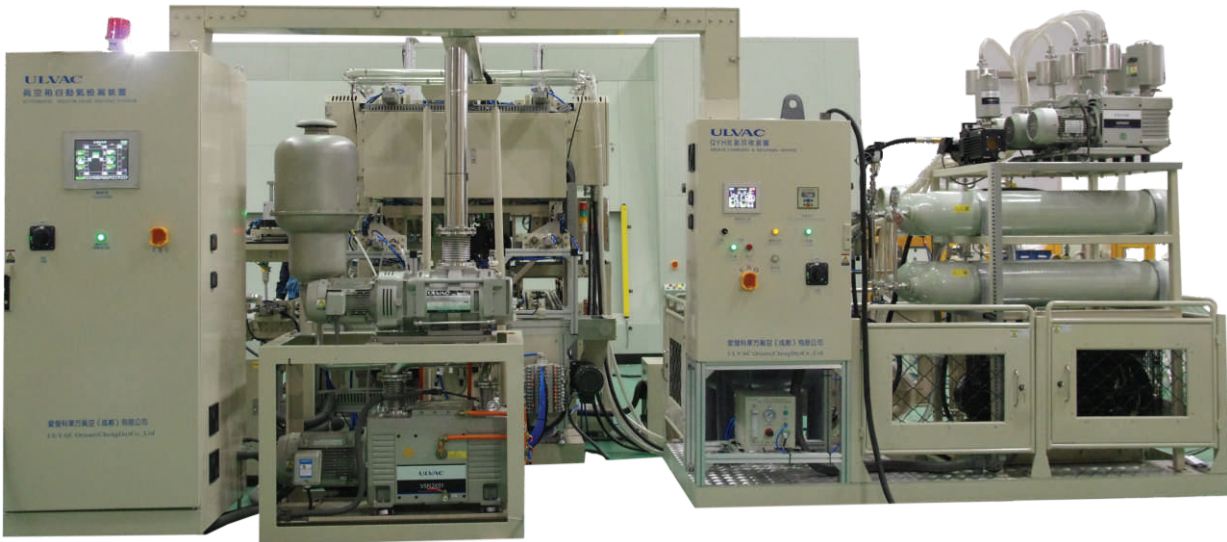
Automotive Industry Appliance

For Wheel Hub

For Automotive A/C Compressor



Auto wheel hub



Features

- Realize full automatic production without manual operation;
- Fast available to meet up with cycle time of 15s/per part;
- High recovery rate, low He consumption;
- Mature technology, can meet up with line mixing test of different size wheel hub.

Technical Parameters

- Cycle time: Single station lower or equal of 20s/per part, double station alternative cycle time $\leq 15s/per$ part (inclu.loading/unloading time)
- Test part He charging pressure: 0.2–0.4MPa;
- Test accuracy: 3.2×10^{-5} Pa.m³/S;

Features

- Adopt automatic logistic system incorpating manipulator production line,realizing full automation without manual operation;
- Automatically select OK/NG part;
- Fast cycle time: Meet up with 12s/per part;



Features

- Simple structure, tight compact;
- Convenient operation and mainteance;

Technical Parameters

- Cycle time:10–20s/per part;
- He charging pressure:0.8–1.5MPa;
- Test accuracy:1g/y



Automotive Industry Appliance

Automotive Industry Appliance

For Auto Expansion Valve

For Auto A/C Two Parts



Features

- Realize full automation without manual operation;
- Be fitted with special fixture, gaining highly reliable sealing;
- Fast cycle time: meet up with 6s/per part;



Features

- Mature technology, large market share;
- High recovery rate, low He consumption;
- Adopt special internal hose technology, excellent sealing performance, more convenient.

Technical Parameters

- Cycle time: 6–10s/per part;
- He charging pressure: 1.5–2.5 MPa;
- accuracy: 2g/y



Auto A/C Condensor



Auto A/C Evaporator

Technical Parameters

- ycle time: 30–100s/per part;
- He charging pressure: 2.5–4.5 MPa;
- Test accuracy: 2g/y



Wide Industry Application



Automotive Industry Appliance

Wide Industry Application

For Automotive Oil Cooler



Features

- Adopt highly reliable fixture, realizing test part's automatic sealing;
- Simple operation, convenient loading/unloading;
- Leak test accuracy is high;

Technical Parameters

- Cycle time: 20–30S/per part;
- He charging pressure: 0.8–3.0 MPa;
- Test accuracy: 1g/y



Oil cooler

Automotive Industry Appliance

For Automotive A/C Refrigerant Storage Tank



Features

- Simple structure, mature technology;
- Convenient operation and maintenance;
- Leak test accuracy is high;

Technical Parameters

- Cycle time:8–20s/per part;
- He charging pressure:0.8–1.5MPa;
- Test accuracy: 1g/y



Automotive A/C Refrigerant Storage Tank



Wide Industry Application

Automotive Industry Appliance

For Automotive Water Tank



Features

- Mature technology, large market share;
- High recovery rate, low He consumption;
- Accurate He charging pressure control, ensuring test part will not be deformed due to high He charging pressure;



Automotive Water Tank

Technical Parameters

- Cycle time:30s/part;
- He charging pressure \leq 0.8MPa;
- Test accuracy:2cc.atm/min;



Wide Industry Application



Automotive Industry Appliance

For Vechicle Fuel Distribution Pipe



Features

- Employ highly reliable fixture, realizing test part's automatic sealing;
- Design according to high pressure system standard,ensuring safety;
- Mature technology, large market share;



Fuel Distribution Pipe

Technical Parameters

- Cycle time:15–20S/per part;
- He charging pressure:10–25MPa;
- Test accuracy:1g/y



Wide Industry Application



Automotive Industry Appliance

Residential Refrigeration Industry Application

For Automotive Gas Tank

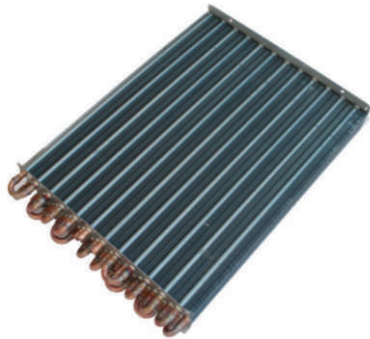
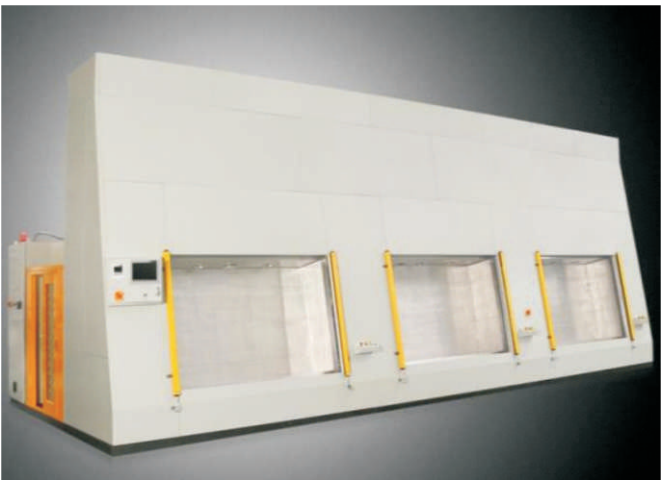
For Residential A/C Evaporator & Condensor



Automotive Gas Tank



Evaporator



Condensor

Features

- Effectively prevent test part from being deformed;
- Fast cycle time, meet up with 45s/per part;
- High recovery rate, low He consumption;

Technical Parameters

- Cycle time: 45S/part-80S/part;
- He charging pressure: 10KPA-30KPA,adjustable;
- Test accuracy: 1.0×10^{-5} Pa.m³/s ;

Features

- Mature technology, large production amount;
- High recovery rate,low He consumption;
- Convenient operation & maintenance;

Technical Parameters

- Cycle time: 10-30S/per part;
- He charging pressure: 0.8- 1.5MPa;
- Test accuracy: 1g/y;



Residential Refrigeration Industry Application

For Residential A/C Cut-off Valve



Cut-off Valve

Features

- Realize full automation without manual operation;
- Automatically select OK/NG test part;
- Fast cycle time, meet up with 6S/per part;
- Adopt highly reliable sealing fixture, achieving high precision and reliable leak test.

Technical Parameters

- Cycle time: 6–10S/per part;
- He charging pressure: 4.5MPa;
- Test accuracy: 5×10^{-7} Pa.m³/S;



Cut-off Valve

Wide Industry Application



Residential Refrigeration Industry Application

For Residential A/C 4-Port Valve



4-port Valve

Features

- Employ highly reliable fixture, achieving test part automatic sealing;
- Convenient operation and maintenance;
- No damage about test part;

Technical Parameters

- Cycle time: 15–20S/per part;
- He charging pressure: 10–25MPa;
- Test accuracy: 1g/y



Residential Refrigeration Industry Application

For Residential A/C Heat Expansion Valve



Vacuum Chamber Automatic Leak Testing System For Heat Expansion Valve



Vacuum Chamber Automatic Refrigerant Leak Testing System for Heat Expansion Valve

Features

- High leak test accuracy;
- Convenient operation & maintenance;
- Can realize highly reliable leak test.

Note

- For test part charged with refrigerant, it can be loaded into vacuum chamber and adopts quadrupole mass spectrometer to do leak test.

Technical Parameters

- Cycle time: 30S/per part;
- He charging pressure: 3.0MPa;
- Leak test accuracy: $1 \times 10^{-7} \text{Pa} \cdot \text{m}^3/\text{S}$

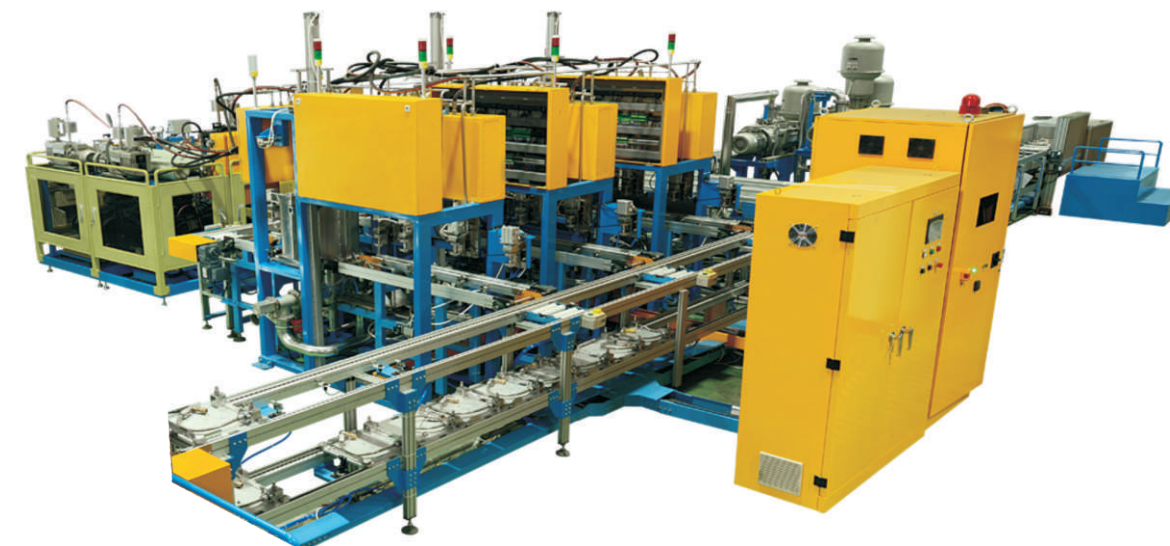


Heat Expansion Valve



Residential Refrigeration Industry Application

For Residential A/C Compressor



Features

- Mature technology, high stability;
- Test accuracy is high;
- High recovery rate, low He consumption;
- Be fitted with chamber inside roller without power, reducing labor intensity;

Technical Parameters

- Cycle time: 10–30S/per part;
- He charging pressure: 0.8–2.0MPa;
- Test accuracy: 1g/y;



Residential A/C Compressor



Wide Industry Application

Residential Refrigeration Industry Application

For Residential A/C Storage Tank



Features

- Adopt reasonable logistic design, reducing space layout;
- High test accuracy;
- Highly automated, labor intensity is lower;



Residential A/C Storage Tank

Technical Parameters

- Cycle time: 10–30S/per part;
- He charging pressure: 0.8–2.0MPa;
- Leak test accuracy: 1g/y;

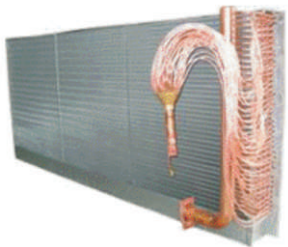


Wide Industry Application



Commercial Refrigeration Industry Application

For Commercaill A/C Heat Exchanger



Commercial A/C Heat Exchanger

Features

- Highly automated, achieving test part automatic loading/unloading; Lower labor intensity;
- High recovery rate, low He consumption;

Technical Parameters

- Cycle time:60–80S/per part;
- He charging pressure:0.8–3.0MPa;
- Leak test accuracy: 2g/y;



Wide Industry Application

Commercial Refrigeration Industry Application

For Commercial A/C Whole Unit



Technical Parameters

- Cycle time: 80–120S/per part;
- He charging pressure: 0.8–0.5MPa;
- Test accuracy:2g/y;

Features

- Mature technology, large market share;
- Realize automatic production, lower labor intensity;
- High recovery rate, lower He consumption;



Wide Industry Application



Other Industry Application

For High Pressure Switch



Features

- Internal volume of vacuum chamber is large, about 10m3, high intensity;
- High accuracy, able to meet up with high accuracy test requirement;
- Be equipped with automatic conveyor inside chamber, achieving test part automatic moving into/out of vacuum chamber;

For Fire-fighting Industry



Features

- Adopt high standard design & manufacturing, has exported to Japan;
- Realize high accuracy and stable leak test;
- Fast cycle time, meet up with 10S/per part;

For Water Heater Tank



Features

- Specially design according to inside liner leak test of water heater;
- Highly automated, only need one operator;
- Fast cycle time, meet up with 15S/per part;
- High recovery rate, low He consumption;