

Heli Machinery industrial chiller is mainly used for mold cooling in the plastic processing industry, which helps to improve the surface finish of plastic products, reduce the surface marks and internal stress of plastic products, so that the products do not shrink, deform, and facilitate the removal of plastic products. The mold reduces the molding cycle of the product, improves the molding efficiency of the plastic, and stabilizes the product quality. It is suitable for plastic molding technology such as injection molding, extrusion, plastic, blow molding machine, laminating machine and film blowing machine.

They can also be used for cooling equipment to ensure that the equipment is maintained at normal temperature or other industrial fields where cooling is required.

**Electronic industry:** Applied to the ultrasonic cleaning fluid cooling, stable electronic components within the production line of molecular structure, improve the passing rate of electronic components, effectively prevent the expensive cleaning agent volatile and volatile harm to people.

**Electroplating industry:** used in the plating tank cooling, control the plating temperature, increase plating density and smooth, shorten the plating cycle, improve production efficiency and improve product quality. For galvanized, tin, anodizing, hard oxidation, tung acid plating, hard chromium plating, and so on.

**Machinery industry:** control oil pressure system oil temperature, oil temperature and stability of oil pressure, extend oil use time, improve the efficiency of mechanical lubrication and reduce wear and tear.

**Construction industry:** Applied to concrete cooling, optimize the molecular structure of concrete, effectively enhance the hardness and toughness of concrete.

**Vacuum coating:** control the temperature of vacuum coating machine, in order to ensure the high quality of plating.

**Food industry:** for food processing after the high-speed cooling, to adapt to packaging requirements. In addition, the temperature of the fermented food can be controlled.

**Pharmaceutical industry:** mainly used to control the temperature of fermentation drugs.

**Leather industry:** mainly used for embossing machinery, the effective control of the roll temperature, extend the mechanical life, making the leather can be quickly cooled, leather gloss, increase production.

**Other:** chemical industry a variety of cooling, metal processing, such as welding cooling.



## Air-cooled chiller

### Features:

- The cooling host adopts the completely sealed low-noise, low vibration, energy-efficient Copeland compressor, strong refrigeration, environmental protection and high efficiency.
- High-quality coil-type / shell-tube evaporator, finned condenser, and brand-name low-noise axial fans, heat transfer efficiency can be high.
- Built-in brand-name cycle refrigeration stainless steel water pump, working range, low noise, reliable performance without leakage, maintenance-free.
- energy-saving mode: the use of capillary / external balance expansion valve.
- Frozen accessories: Denmark Danfoss and so on



- Schneider, Chint and other brand-name components are used in the electrical control part to ensure stable operation and prolong the service life of the machine. .
- Microcomputer-based controller, can accurately control the water temperature at 5 ° C to 35 ° C or less. Accurate temperature control, easy operation.
- Safe protection, fault real-time display, with compressor overload, oil pressure protection, high and low voltage protection, liquid level protection, low temperature antifreeze protection.
- Electrostatic spray, European design, durable, beautiful and generous.
- Installation is simple, mobile and flexible. Cooling towers are not required, and the cost of piping engineering can be saved.

### Specification :

| MODEL  | HL-AC5W                 | HL-AC10W      | HL-AC15W       | HL-AC20W                | HL-AC30W       |       |
|--|-------------------------|---------------|----------------|-------------------------|----------------|-------|
| POWER  | 380V 50HZ               |               |                |                         |                |       |
| REFRIGERATING CAPACITY<br>( KW ) ( Kcal/hr ) | 14.1                    | 28.8          | 43.5           | 58.2                    | 45.5×2=91      |       |
|  | 12127                   | 24780         | 37472          | 50075                   | 75980          |       |
| Compressor                                   | Hermetic scroll         |               |                |                         |                |       |
|  | TYPE                    |               |                |                         |                |       |
|  | POWER ( HP )            |               |                |                         |                |       |
| Refrigerant                                  | R22                     |               |                |                         |                |       |
|  | CONTROL                 | Capillary     |                | Thermal expansion valve |                |       |
| Evaporator                                   | Coil type               |               | Shell and tube |                         |                |       |
| Condenser                                    | High-performance finned |               |                |                         |                |       |
| Draught Fan                                  | Low-noise axial fan     |               |                |                         |                |       |
|  | POWER ( W )             | 190×2         | 250×2          | 780×2                   | 800×2          | 780×3 |
| Pump   |                         | 1             | 1.5            | 2                       | 3              | 5     |
|  | FLOW ( L/min )          | 70            | 100            | 217                     | 315            | 315   |
| TANK CAPACITY ( L )                          | 50                      | 80            | 外置水箱           |                         |                |       |
| PIPE DIAMETER                                | G1                      | G1.5          | 2              | 2                       | 2.5            |       |
| DIMENSIONS ( L*W*H )                         | 1250×760×1450           | 1500×800×1450 | 1950×1000×1660 | 2000×1000×1950          | 2200×1350×1550 |       |
| APPROX WEIGHT ( KG )                         | 150                     | 280           | 320            | 480                     | 650            |       |

\*Special design upon request.

## Water – cooled chiller



### Features: :

- The United States Copeland compressor, high efficiency shell and tube evaporator, condenser combination, the internal thread to strengthen the heat exchange brass, super-cooling, energy saving and durable.
- Using microcomputer controller, can accurately control the water temperature at 5 ° C to 35 ° C or less, when the failure occurs, the fault real-time display, convenient and timely identify the cause.
- energy-saving mode: the use of capillary / external balance expansion valve.
- Frozen accessories: Danfoss and other brand-name components.
- Schneider, chint and other brand-name components are used in the electrical control part to ensure stable operation and prolong the service life of the machine. .
- Microcomputer-based controller, can accurately control the water temperature at 5 ° C to 35 ° C or less. Accurate temperature control, easy operation.
- Copper tube with oxygen-free welding method, easy cleaning and maintenance, reliable performance without leakage.
- Electrical control all imported brand-name originals, to ensure efficient and stable operation of the machine, long service life.
- Safe protection, fault real-time display, with compressor overload, oil pressure protection, high and low voltage protection, liquid level protection, low temperature antifreeze protection.

### Specification :

| MODEL  | HL-WC5W         | HL-WC10W      | HL-WC15W                | HL-WC20W      | HL-WC30W      |     |
|--|-----------------|---------------|-------------------------|---------------|---------------|-----|
| POWER  | 380V 50HZ       |               |                         |               |               |     |
| REFRIGERATING CAPACITY<br>( KW ) ( Kcal/hr ) | 15              | 30.5          | 45.5                    | 61            | 91.5          |     |
|  | 12900           | 26230         | 39130                   | 52460         | 78690         |     |
| Compressor                                   | Hermetic scroll |               |                         |               |               |     |
|  | TYPE            | R22           |                         |               |               |     |
|  | CONTROL         | Capillary     | Thermal expansion valve |               |               |     |
| Refrigerant                                  | R22             |               |                         |               |               |     |
| Evaporator                                   | Shell and tube  |               |                         |               |               |     |
| Condenser                                    | Shell and tube  |               |                         |               |               |     |
| Pump   | POWER ( HP )    | 1             | 1.5                     | 2             | 3             | 5   |
|  | FLOW ( L/min )  | 70            | 100                     | 217           | 315           | 315 |
|  | HEAD ( M )      | 15            | 15                      | 19            | 22            | 22  |
| TARK CAPACITY ( L )                          | 50              | 80            | 外置水箱                    |               |               |     |
|  |                 |               | 180                     | 220           | 260           |     |
| PIPE DIAMETER                                | G1              | G1.5          | 2                       | 2             | 2.5           |     |
| DIMENSIONS ( L*W*H )                         | 1200×550×1100   | 1300×600×1280 | 1600×850×1300           | 1800×950×1400 | 1950×970×1580 |     |
| APPROX WEIGHT ( KG )                         | 155             | 265           | 350                     | 450           | 525           |     |

\*Special design upon request.

## Extrusion Line Chillers



Heli machinery production of the extrusion line chillers, also known as extruder chiller, extruder cooling device, is mainly used for plastic extruder and rubber extruder rear cooling, the product quickly cooling stereotypes, can be widely used in continuous extrusion of different cross-section of the geometric shape of plastic products, Such as sheet, sheet, sheet, hard tube, hose, bellows, profile, cable, film, composite film products such as cooling. Formed plastic, rubber extrusion cladding from the extruder head, should be immediately cooled stereotypes, otherwise it will under the effect of gravity deformation. Cooling is usually water cooling, and according to the water temperature is divided into rapid cooling and slow cooling. Quenching is the direct cooling of cold water, quenching on the plastic, rubber extruded bag shape favorable, but the crystallization of polymers, due to sudden cooling, easy to squeeze the inner layer of residual stress within the organization, resulting in the use of cracks, General PVC plastic layer with quench. Slow cooling is to reduce the internal stress products, in the cooling water tank placed in different stages of water temperature, the products gradually cooling stereotypes, the PE, PP extrusion on the use of slow cooling, that is, after hot water, warm water, cold water Three-stage cooling. As the production rate is high, and thus generally require large cooling unit.

### Specification :

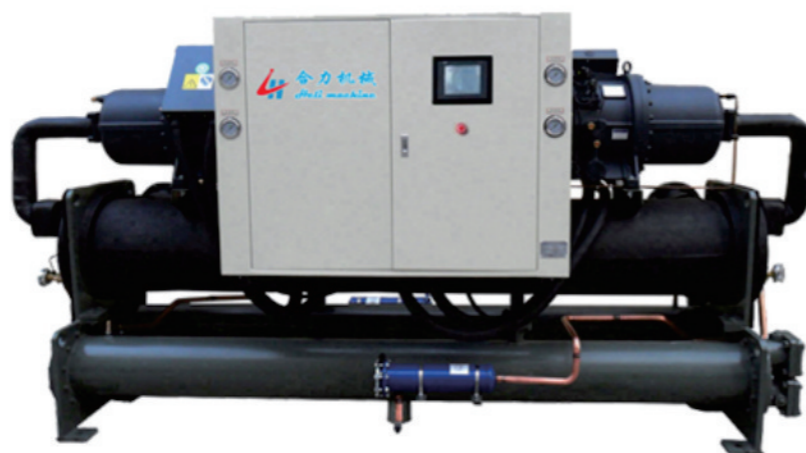
| MODEL  | HL-EC15W        | HL-EC20W                | HL- EC30W | HL-EC40W |     |
|--|-----------------|-------------------------|-----------|----------|-----|
| POWER  | 380V 50HZ       |                         |           |          |     |
| REFRIGERATING CAPACITY<br>( KW ) ( Kcal/hr ) | 45.5            | 61                      | 91.5      | 122      |     |
|  | 39130           | 52460                   | 78690     | 105200   |     |
| Compressor                                   | Hermetic scroll |                         |           |          |     |
|  | TYPE            | R22                     |           |          |     |
|  | CONTROL         | Thermal expansion valve |           |          |     |
| Refrigerant                                  | R22             |                         |           |          |     |
| Evaporator                                   | Shell and tube  |                         |           |          |     |
| Condenser                                    | Shell and tube  |                         |           |          |     |
| Pump   | POWER ( HP )    | 2                       | 3         | 5        | 5   |
|  | FLOW ( L/min )  | 217                     | 315       | 315      | 315 |
|  | HEAD ( M )      | 15                      | 15        | 19       | 22  |
| TARK CAPACITY ( L )                          | 180             | 220                     | 无内置水箱     |          |     |
|  |                 |                         | 260       | 300      |     |
| PIPE DIAMETER                                | G2"             | G2"                     | G2.5"     | G2.5"    |     |

\*Special design upon request.

## Screw chillers

Heli Machinery Screw chiller has the characteristics of low noise, energy saving, strong cooling, stable operation, safe and reliable, precise temperature control and convenient operation. It is widely used in plastics, plastics, electroplating, electronics industry, raising Fish industry, construction industry, machinery industry, hardware industry, chemical industry, pharmaceuticals, food processing and preservation, boiler roller sandwich, electronic circuit board, wave solder reflow, space purification, pool temperature, medical storage, papermaking, etc.

### Water-cooled screw chiller



#### Features:

- Compressor power 40HP-480HP optional, cooling capacity of up to 129518—1427955Kcal/hr.
- Refrigeration host Taiwan Hanbell semi-closed screw compressor, low noise, energy saving and durable, cooling effect is strong.
- Using high-efficiency shell and tube evaporator, condenser combination, the internal thread to strengthen heat exchange copper tube, high heat transfer efficiency, super-cooling, energy efficient.
- The energy-saving way uses the external balanced expansion valve control, guarantees the load energy efficiency ratio, causes the cold volume control adjustment to be more precise, causes the unit movement to be more stable more highly effective.
- Denmark Danfoss, USA Alco, and other brand-name refrigeration accessories, cooling effect.
- Refrigeration system welding interface using oxygen-free welding method to reduce the oxide, the surface is smooth.
- Control part of the overall microcomputer controller, temperature control precision, easy operation.
- Schneider electric part of the use of brand-name electrical components to ensure efficient and stable operation of the machine, long service life.
- Safe protection, fault real-time display, with compressor overload, overheating, hydraulic protection, high and low voltage protection, liquid level protection, low temperature antifreeze protection, chilled water flow protection, cooling water flow protection, cooling tower fan overload protection.
- Electrostatic spray, European design, durable, beautiful and generous.

## Specification :

| Style                               |                  | Single head series                |        |        |        |        |        |        |        |        |
|-------------------------------------|------------------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model                               |                  | 40                                | 50     | 60     | 80     | 100    | 120    | 140    | 160    | 180    |
| Power                               |                  | 380V 50HZ                         |        |        |        |        |        |        |        |        |
| Cooling Capacity ( KW ) ( Kcal/hr ) |                  | 150                               | 191    | 207    | 278    | 342    | 410    | 489    | 545    | 620    |
|                                     |                  | 129518                            | 164575 | 177989 | 238728 | 294252 | 353400 | 420895 | 470428 | 527508 |
| Compressor                          | Type             | Semi-sealed Spiral long Rod style |        |        |        |        |        |        |        |        |
|                                     | Start mode       | Y-△Staring                        |        |        |        |        |        |        |        |        |
|                                     | Capacity control | 100-75-50-25                      |        |        |        |        |        |        |        |        |
| Refrigerant                         | Type             | R22/R407C/R134A                   |        |        |        |        |        |        |        |        |
|                                     | Control method   | Thermal expansion valve           |        |        |        |        |        |        |        |        |
| Evaporator                          | Type             | Shell and tube                    |        |        |        |        |        |        |        |        |
| Condenser                           | Type             | Shell and tube                    |        |        |        |        |        |        |        |        |
| Pipe diameter ( Inch )              |                  | 3                                 | 3      | 3      | 4      | 4      | 4      | 4      | 5      | 5      |
|                                     |                  | 3                                 | 3      | 4      | 4      | 4      | 5      | 5      | 5      | 5      |
| Approx weight ( KG )                |                  | 750                               | 850    | 900    | 1280   | 1600   | 1800   | 2080   | 2200   | 2700   |

| Style                               |                  | Double head series                |        |        |        |        |        |        |         |         |
|-------------------------------------|------------------|-----------------------------------|--------|--------|--------|--------|--------|--------|---------|---------|
| Model                               |                  | 80                                | 100    | 120    | 140    | 160    | 200    | 280    | 360     | 480     |
| Power                               |                  | 380V 50HZ                         |        |        |        |        |        |        |         |         |
| Cooling Capacity ( KW ) ( Kcal/hr ) |                  | 301                               | 382    | 415    | 480    | 555    | 682    | 978    | 1240    | 1670    |
|                                     |                  | 258812                            | 329159 | 355977 | 412898 | 477215 | 536755 | 841788 | 1066218 | 1427955 |
| Compressor                          | Type             | Semi-sealed Spiral long Rod style |        |        |        |        |        |        |         |         |
|                                     | Start mode       | Y-△Staring                        |        |        |        |        |        |        |         |         |
|                                     | Capacity control | 100-75-50-25                      |        |        |        |        |        |        |         |         |
| 冷媒<br>Refrigerant                   | Type             | R22/R407C/R134A                   |        |        |        |        |        |        |         |         |
|                                     | Control method   | Thermal expansion valve           |        |        |        |        |        |        |         |         |
| Evaporator                          | Type             | Shell and tube                    |        |        |        |        |        |        |         |         |
| Condenser                           | Type             | Shell and tube                    |        |        |        |        |        |        |         |         |
| 冷冻水配管<br>pipe diameter ( Inch )     |                  | 4                                 | 4      | 4      | 4      | 5      | 5      | 6      | 6       | 8       |
|                                     |                  | 3+3                               | 3+3    | 3+3    | 4+4    | 4+4    | 4+4    | 5+5    | 5+5     | 6+6     |
| Approx weight ( KG )                |                  | 1400                              | 1600   | 1700   | 2100   | 2500   | 3200   | 4000   | 5200    | 6500    |

\*Special design upon request.

## Air-cooled screw chiller



### Features:

- Low refrigeration host adopt Taiwan hang zhong semi-hermetic screw compressor, low noise, power saving, durable, strong cooling effect.
- Low use efficiency of shell and tube evaporator, efficient combination of fin condenser, internal thread strengthened heat exchange tubes, high heat transfer efficiency, super cooling, energy conservation and high efficiency. Can save energy more than 30%.
- Low energy saving way outside using balanced expansion valve control, to ensure that the load can effect comparing, make cold quantity control more accurate, more stable operation of generating unit is more efficient.
- Low by Denmark danfoss, famous brand refrigeration parts, such as the United States also refrigeration effect is better.
- Low refrigeration system welding mouth without oxygen welding method is used to reduce oxides, smooth surface.
- Control part adopts monolithic microcomputer control system, temperature control precision, the operation is convenient.
- Schneider electric part adopts famous brand electrical components, such as, to ensure the efficient and stable machine operation, long service life.
- Low security protection, fault real-time display, equipped with compressor overload, overheating, hydraulic protection, high and low voltage protection, liquid level, low temperature freeze protection, freezing water flow is insufficient protection, overload protection, etc.
- Electrostatic plastic spraying, European design, durable, beautiful and easy.

### Specification :

| Style                                  |                  | Single compressor series          |        |        |        |        |        |        |        |        |
|--|------------------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model                                  |                  | 50                                | 60     | 70     | 80     | 100    | 120    | 140    | 160    | 180    |
| Power                                  |                  | 380V 50HZ                         |        |        |        |        |        |        |        |        |
| Cooling Capacity<br>( KW ) ( Kcal/hr ) |                  | 145                               | 165    | 192    | 221    | 275    | 318    | 385    | 438    | 492    |
|  |                  | 125522                            | 142152 | 165725 | 191528 | 254508 | 282125 | 329125 | 375782 | 425758 |
| Compressor                             | Type             | Semi-sealed Spiral long Rod style |        |        |        |        |        |        |        |        |
|  | Start mode       | Y-△Staring                        |        |        |        |        |        |        |        |        |
|  | Capacity control | 100-75-50-25                      |        |        |        |        |        |        |        |        |
| Refrigerant                            | Type             | R22/R407C/R134A                   |        |        |        |        |        |        |        |        |
|  | Control method   | Thermal expansion valve           |        |        |        |        |        |        |        |        |
| Evaporator                             | Type             | Shell and tube                    |        |        |        |        |        |        |        |        |
| Condenser                              | Type             | High performance finned           |        |        |        |        |        |        |        |        |
| Pipe diameter ( Inch )                 |                  | 62980                             | 69575  | 80658  | 92878  | 112970 | 137280 | 162880 | 181780 | 217228 |
|  |                  | 3                                 | 3      | 3      | 3      | 4      | 4      | 4      | 4      | 4      |
| Approx weight ( KG )                   |                  | 1100                              | 1200   | 1500   | 1680   | 2000   | 2280   | 2800   | 3000   | 3680   |

| Style                                  |                  | Double compressor series          |        |        |        |        |
|--|------------------|-----------------------------------|--------|--------|--------|--------|
| Model                                  |                  | 80                                | 100    | 120    | 140    | 160    |
| Power                                  |                  | 380V 50HZ                         |        |        |        |        |
| Cooling Capacity<br>( KW ) ( Kcal/hr ) |                  | 228                               | 292    | 329    | 381    | 442    |
|  |                  | 197456                            | 251805 | 282952 | 329652 | 382267 |
| Compressor                             | Type             | Semi-sealed Spiral long Rod style |        |        |        |        |
|  | Start mode       | Y-△Staring                        |        |        |        |        |
|  | Capacity control | 100-75-50-25                      |        |        |        |        |
| Refrigerant                            | Type             | R22/R407C/R134A                   |        |        |        |        |
|  | Control method   | Thermal expansion valve           |        |        |        |        |
| Evaporator                             | Type             | Shell and tube                    |        |        |        |        |
| Condenser                              | Type             | High performance finned           |        |        |        |        |
| Pipe diameter ( Inch )                 |                  | 100585                            | 126958 | 139280 | 161528 | 187080 |
|  |                  | 4                                 | 4      | 4      | 4      | 4      |
| Approx weight ( KG )                   |                  | 1800                              | 2000   | 2400   | 3000   | 3200   |

\*Special design upon request.