

Plant Utility Equipment Specification Sheet

Boilers, cooling towers, air compressors and chillers sized to the process they serve.

Four utility machines that every food and beverage plant needs and that are usually specified last. A boiler in electrical or steam heating types, a cooling tower in round or square configurations, an air compressor in oil free screw or frequency converter types, and a chilling unit in air cooled or water cooled versions. All are built to the working capacity the process requires.

4 products in this category. Every figure below is published on the product pages at trueglowimaging.com/categories/auxiliary-power-system-equipment.html

Boiler

HTK-GL-01 · Electrical or steam heating

A boiler built to the working capacity you specify, in electrical heating or steam heating types, for beer, beverage, soft drinks, fruit juice, pure water, mineral water, dairy and seasoning plants. Minimum order is one unit and monthly production capacity is 20 units, so a single machine for a line extension is a normal order rather than an exception.

Specification

Product Model	HTK-GL-01
Working Capacity	Customised to requirement
Type	Electrical heating type, steam heating type
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Key benefits

Capacity Set by Your Process. Working capacity is built to customer requirement rather than selected from fixed steps. A boiler oversized for the line wastes fuel every hour it runs.

Two Heating Types. Electrical heating where steam is not already available on site, steam heating where it is. The choice usually follows what utilities the plant already has.

One Unit Minimum Order. A single boiler can be ordered, which is what a line extension or a replacement actually needs.

Easy Operation and Maintenance. The design priority is stable running with straightforward maintenance, which matters more than peak efficiency on a plant without a dedicated boiler engineer.

Where it is used

Supplying process heat to a beer brewing line • Heating in beverage and soft drink production • Fruit juice processing requiring steam for pasteurisation • Pure water and mineral water bottling plants • Dairy processing plants needing process steam • Seasoning and condiment production

Cooling Tower

HTK-LQT-01 · Round or square type

A cooling tower in two configurations, circular flow inverse (round type) and square transverse, with working capacity built to your requirement. It serves beer, beverage, soft drink, fruit juice, pure water, mineral water, dairy and seasoning plants, rejecting the process heat that pasteurisers, chillers and compressors generate. Minimum order is one unit with a monthly production capacity of 20 units.

Specification

Product Model	HTK-LQT-01
Working Capacity	Customised to requirement
Type	Circular flow inverse (round type); square transverse
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Key benefits

Two Layouts for Two Site Shapes. The round counter-flow tower has the smaller footprint; the square transverse tower is easier to place against a wall or in a line of plant. The site plan usually decides.

Capacity Built to Your Heat Load. Working capacity follows the customer requirement, so the tower matches the actual rejected heat rather than a catalogue step above it.

Low Power Consumption in Operation. Efficiency in a cooling tower is measured in fan and pump power over a whole season, which is where the running cost of a chilled water system actually sits.

Single Unit Orders Accepted. A minimum order of one unit means the tower can be replaced or added without a wider project.

Where it is used

Rejecting heat from pasteurisers and UHT plant • Condenser cooling for refrigeration and chilling units • Cooling compressed air systems in a bottling plant • Brewery wort cooling support systems • Dairy processing cooling circuits • Water and soft drink plants with year-round cooling loads

Air Compressor

HTK-KYJ-01 · Oil free screw or frequency converter

An air compressor for food and beverage production, available as an oil free screw compressor or a frequency converter compressor, with working capacity built to requirement. Oil free matters wherever compressed air contacts product or packaging, and the frequency converter type matches output to demand instead of running unloaded. Minimum order is one unit with 20 units produced per month.

Specification

Product Model	HTK-KYJ-01
Working Capacity	Customised to requirement
Type	Oil free screw air compressor; frequency converter air compressor
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Key benefits

Oil Free Where Air Touches Product. Compressed air reaches bottles, caps and conveyors. An oil free screw compressor removes the contamination route that an oil-lubricated machine leaves open.

Frequency Converter Matches Demand. A fixed-speed compressor spends much of a shift unloaded and still consuming power. Variable speed follows the actual air demand of the line.

Capacity Built to the Line. Working capacity is customised, which matters because compressed air is usually the largest single electrical load in a bottling plant.

Single Unit Orders. One unit minimum order covers a replacement or an additional machine for a line extension.

Where it is used

Compressed air for PET bottle blowing and filling lines • Pneumatic actuation on packaging machinery • Air supply for dairy and juice processing plant • Pure water and mineral water bottling plants • Seasoning and condiment production lines • Replacing a fixed-speed compressor to reduce energy cost

Chilling Unit

HTK-C-01 · Air cooled or water cooled

A chilling unit in air cooled or water cooled types, with working capacity built to your requirement, for beer, beverage, soft drink, fruit juice, pure water, mineral water, dairy and seasoning production. The choice between the two types is normally decided by whether cooling water is available on site and by the local ambient conditions. Minimum order is one unit and monthly production capacity is 20 units.

Specification

Product Model	HTK-C-01
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Working Capacity	Customised to requirement
Type	Air cooler type chilling unit; water cooler type chilling unit
Minimum Order	One unit
Production Capacity	20 units per month
Industries	Beer, beverage, drinks, fruit juice, pure water, mineral water, dairy, seasoning

Key benefits

Two Condenser Types. Air cooled needs no cooling water circuit at all; water cooled holds condensing temperature better in hot ambient conditions. Site utilities and climate decide which is right.

Capacity Sized to the Process. Working capacity is built to requirement, which matters because a chiller oversized for the load short-cycles and wears its compressor.

Long Service Life by Design. The stated design priorities are stable running and long service life rather than the lowest first cost, which is the right trade on plant that runs every production day.

Single Unit Minimum Order. One unit can be ordered, so a chiller can be replaced or added without a plant-wide project.

Where it is used

Chilled water for dairy pasteurisation cooling sections • Cooling fruit juice after thermal treatment • Brewery fermentation temperature control • Cold water supply for beverage filling lines • Process cooling in seasoning and condiment production • Cooling in bottled water production

How To Enquire

Send the process rather than a model number: capacity or flow rate, the product being handled, the container format where relevant, and the utilities already on site. WhatsApp +86 150 5517 9418 or email sales@trueglowimaging.com.

Minimum order is one unit on the process, packaging, utility and crane ranges. Machined, fabricated and moulded parts are quoted from single pieces upward.