

# Hyperchill

## Industrial Process Chillers for Precision Cooling



Extremely compact and easy to use, Hyperchill ensures an accurate control of water temperature.

Each model is designed for safe and reliable operation in the most varied working conditions, thanks to the modern technical solutions used and the availability of a wide range of accessories and options. Each individual Hyperchill unit is extensively tested to guarantee efficient operation and reliability in all working conditions.

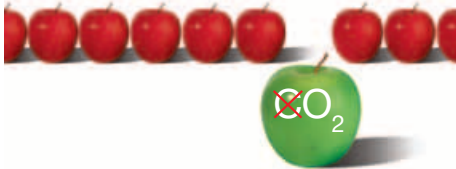


### Process cooling applications:

- Laser Technology
- Extruders
- Surface Processing
- Welding Engineering
- Blow Mould Machines
- Printing Systems
- Coating Systems
- Chemical and Pharmaceutical
- Plastics Processing
- Thermoform Machines
- Plasma Coating
- Medical Imaging
- Food & Beverage Industry
- Injection Moulding
- Cutting Machine Tools
- Electroplating Baths
- Bioenergy
- Compressed Air

### Philosophy

Parker Hiross specialises in cooling, purification, and separation technologies, where compressed air and gas purity, product quality, technological excellence and global support are paramount. We design and manufacture compressed air treatment products and cooling equipment for many key industries where ease of integration, low cost of ownership and energy saving can make the difference. Parker Hiross has been supplying industry with high efficiency products with low lifetime costs and reduced CO<sub>2</sub> emissions since 1964. Our philosophy 'to stand out from the crowd' is our credo, encouraging our employees to achieve continuous improvement and satisfy customer expectations.



### Product Features:

#### Complete solution, easy to install and manage

- Hydraulic circuit: water tank, immersed evaporator, pump with bypass provide a compact and easy to install solution
- Electronic controllers with proprietary software provide access to all the parameters of the units and allow special management for any specific need
- Available with remote monitoring
- Completely configurable with many options and kits to fit many industrial applications needs
- Condenser filters
- Independent condensing plenum
- Full access and easy service design

#### High reliability and back-up eliminate downtime

- Large water tanks allow minimum compressor cycling and precise temperature control
- Double independent fridge circuits (from ICE076)
- 2 compressors from ICE076 and 4 compressors from ICE150 with automatic rotation
- Double stand-by water pumps available
- Maximum ambient temperature up to 45°C

#### Lowest energy consumption in the market

- Oversized condensers and evaporators
- Use of compliant scroll compressors (from ICE022)

**Water and refrigerant manometers** permit full control of the working conditions.

**Microprocessors:** allow complete control of the unit parameters. Proprietary software from ICE015 onwards allows a wide range of programming and remote monitoring options.

**Compliant scroll compressors:** (from ICE022 onwards) with less moving parts and compliant technology provide excellent efficiency, high reliability, and very low noise levels.

**Air cooled with axial fans:** suitable for outdoor installation, no need for protection.

**Water pump (standard 3bar):** different head-pressures available to meet the requirements of specific applications. Configurable as a twin-system for 100% back-up.



**Mesh filters:** (from ICE010 onward) condenser protection from dirt and contamination, reduces maintenance costs and the risk of downtime.

**Evaporator:** located inside the water tank - reduces the overall dimensions, increases the efficiency and improves temperature control.

**Water by-pass:** protects the pump and supplies constant flow to the evaporator avoiding alarms and freezing.

**Water tank:** generously dimensioned to guarantee high reliability and improved temperature control.

### Versions:

- **Air cooled** with centrifugal fans (ICE 015-230): ideal for installation in enclosed environments. Can be ducted for air venting or heat recovery.
- **Water cooled** (ICE 015-230 alternative to the air cooled versions): Shell&tube condensers with pressostatic valves.

- **Low ambient** temperature (from ICE007 onwards): additional condensing control for continuous operation in cold ambients (negative temperature). Available for air cooled, axial fan units.
- **Low water** temperature (from ICE007 onwards): for negative water temperature control, down to -10 °C. (Low

ambient temperature option recommended).

- **Precision control** (ICE 015-ICE230): for precise water temperature control ( $\pm 0,5$  °C)
- **Non ferrous** (from ICE007 onwards): stainless steel tank, pump, and hydraulic components.
- **Bioenergy:** epoxy coating on all exposed copper as protection against aggressive environments.
- **Special and multiple pumps:** higher (P50-5bar) or lower (P15-1,5bar) head pressure available to suit different hydraulic circuits. Double stand-by pump for high reliability.
- **Antifreeze** heating (from ICE007 onwards): avoids freezing when the unit is switched off and glycol is not used.



### Options:

- **Water fill kits:** pressurized, automatic or ambient manual kits, for water filling in any installation.
- **Remote control kits:** base version for remote ON/OFF and general alarm monitoring.

Advanced version for complete remote unit management.

- **Wheels** (ICE005 - ICE010): for ease of transport.
- **Water filters** for circuit cleanliness and machinery protection.





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