

# Industrial cooling solutions



# Protect the Environment

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## and your Investments

The use of chilled water is essential in many industrial production and transformation processes. The range of needs varies from heat absorption to the need to keep components, rooms and working phases under controlled temperature conditions. Reliability and ease in adjusting the cooling system to the specific application are key factors in order to ensure an uninterrupted production and to optimize the process reducing its costs.

Parker Hiross' range of individual and integrate solutions includes:

- **Hyperchill water chillers**, ideal for water or antifreeze fluid cooling in a closed circuit by means of a refrigeration cycle, featuring superior reliability, high energy efficiency and particularly accurate temperature control of the chilled fluid;
- **Hyperfree drycoolers**, heat exchangers where water is cooled down thanks to forced circulation ambient air, with an extremely low energy consumption.

### Respecting the environment:

As an ISO14001 certified company, Parker Hiross based its product development philosophy and manufacturing processes on the respect of the environment. The industrial cooling solutions ensure:

- **No water wastage**, thanks to the use of water in closed circuit;
- **No pollution risk**, thanks to a refrigerant circuit developed, assembled and carefully tested in order to prevent any leak of refrigerant in the environment;
- **The maximum energy efficiency**, which allows in any case the minimum energy consumption.

### A safe investment:

Designed for industrial applications, Parker Hiross cooling solutions ensure:

- **Careful energy consumption**, by means of R407C refrigerant and compliant scroll or screw compressors, which allow up to 20% energy saving if compared with traditional reciprocating compressors. Hyperchill water chillers work in a part load logic, which aim to reach the maximum energy efficiency and control accuracy in any condition.
- **Reduced maintenance**, thanks to the closed circuit operation, to the technology development made on the oversized evaporators, but also to the design and the tests made on all refrigerant circuits.

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# With the Parker Hiross solutions

## Waterchillers



Hyperchill  
(3 - 360 kW)



Hyperchill Maxi  
(460 - 760 kW)



Hyperchill Laser  
(5 - 57 kW)

## Drycoolers



Hyperfree  
(40 - 820 kW)

# Water chillers

## Hyperchill



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

Each model is designed for safe, reliable operation in the most varied working conditions, thanks also 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.

### Versions

- **centrifugal** (ICE015-230): ideal for installation in closed environments, with high-pressure fans to convey the condenser hot air.
- **water-cooled** (ICE015-230): with shell & tube condenser and pressostatic water control valve.
- **low ambient temperature** (from ICE007): for continuous operation in very cold environments.
- **low water temperature** (from ICE007): for water outlet temperatures to as low as  $-10^{\circ}\text{C}$ .
- **low noise** (from ICE007): for even lower noise levels.
- **precision control** (ICE015-116): when high precision temperature control is required ( $\pm 0,5\text{K}$ ).
- **non-ferrous** (ICE007-230): with water circuit made entirely out of non-ferrous materials.
- **BioEnergy**: with protection for aggressive environments.

### Accessories

- multiple & special pumps
- water fill kit
- remote control kit

### Operation

The water is chilled in a closed circuit by one or more refrigeration compressors.

The systems consists of a chilling circuit and a water circuit: the refrigerant flows around the former and the process water around the latter.

Heat exchange between the two fluids, which never come into direct contact, takes place in the evaporator, where the refrigerant evaporates and absorbs the heat contained in the water.

The water thus comes out of the chiller at the temperature required by the application.

### The range Hyperchill ICE003-360

Standard version:

Water inlet temperature up to  $30^{\circ}\text{C}$  and outlet temperature to as low as  $0^{\circ}\text{C}$ , a thermal difference of up to  $15^{\circ}\text{C}$  between intake and outlet. Can operate in ambient temperatures of up to  $45^{\circ}\text{C}$ .

- Ecological R407C refrigerant with all models.
- Built-in water tank (ICE003-230).
- Integrated water pump (ICE003-230).
- Metal filters to protect condensers (standard from ICE007).

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# Water chillers

**Microprocessor:** allows simple, precision control of the unit; the advanced version (from ICE015) also has a vast range of programming options.

**Mesh filter:** (from ICE007) metal mesh to protect the condenser, reducing maintenance costs and downtime risk.

**Compliant scroll compressors:** (from ICE022) give excellent efficiency and extremely quiet operation; the reduced number of moving parts also means much less vibration, thus reducing the risk of breakage and lengthening the life of the chiller.

**Evaporator:** positioned inside the tank (ICE003-230) to reduce overall dimensions, with increased heat exchange efficiency and more precise temperature control.



Generously dimensioned **built-in water tank** (optional for models ICE310-360): guarantees high-precision water temperature constancy and efficient system operation.

**Circulating pump:** installed internally. Pumps with higher or lower head pressures are available, and twin internal pumps can be fitted (from ICE029).

**Water by-pass:** (standard supply on ICE005-230) protects the pump even when the water flow in the circuit is cut off.

*The Parker Hiross solutions*

# Water chillers

## Hyperchill Maxi

**Hyperchill Maxi:** a high cooling-capacity water chiller with all the distinctive technical features of the Hyperchill range.

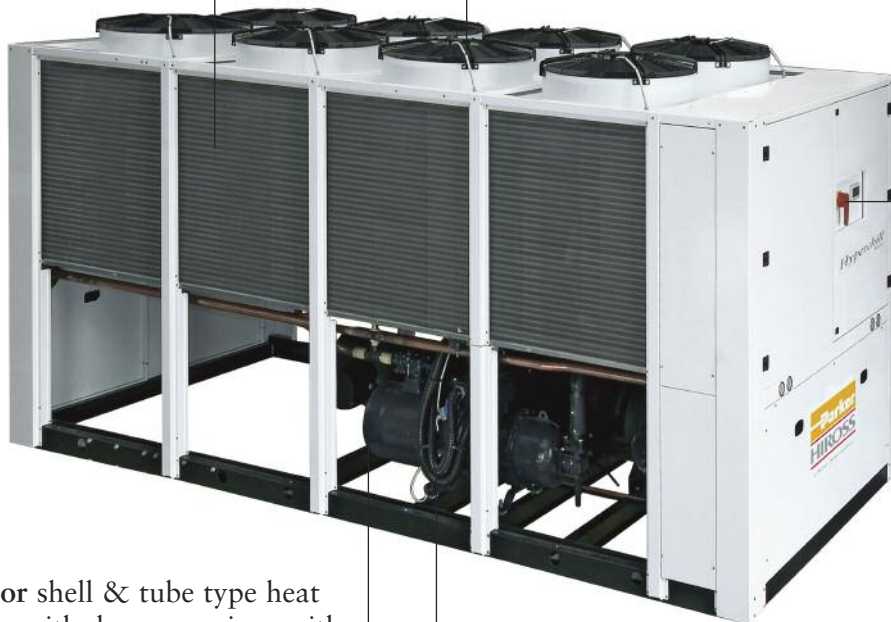
Compact, sturdy design, made from galvanized steel sheet panels coated with epoxy powder paints, for outdoor installation.

**Air-cooled condenser** with copper tubes and high turbulence aluminium fins. Each ventilation section is separate. The coil has independent circuits for each compressor.

**Fans:** dynamically and statically balanced motors and impellers with specially dimensioned cowlings to improve aerodynamic performance and reduce noise.

**The range**  
**Hyperchill Maxi**  
**ICE 460-760**

4 models with cooling capacities ranging from 460 to 760kW



**Evaporator shell & tube type** heat exchanger with dry expansion, with two independent circuits thermally insulated with closed-cell elastomer, differential pressure switch and anti-freeze protection probe.

Semi-hermetic screw **compressors** with shutoff valves and vibration-damping mounts with 4-step hydraulic slide valve capacity control. Fitted with high-efficiency oil separator and filter. Liquid injection cooling for more extensive application possibilities.

**Electrical panel** with double closure, suitable for outdoor use and manufactured in compliance with CE standards.

### Standard accessories

- refrigerant high and low pressure gauges
- compressor shutoff valves
- step condensation control
- compressor crankcase heater
- water flow differential pressure switch
- liquid injection for compressor cooling
- compressor oil level control
- part winding start and phase sequence control

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# Water chillers

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## Hyperchill Laser

**Hyperchill Laser:** designed to meet the needs of many applications requiring stable working conditions with maximum quality and cleanness of the process fluid.

Laser marking, cutting and welding are typical industrial processes where the characteristics of Hyperchill Laser are necessary to obtain the very best performance and to optimise the production process.

In addition to the Hyperchill components described in the previous pages, the Laser range also has the following distinctive technical features:

Fully insulated stainless steel plate-type evaporators, guaranteeing high heat exchange efficiency and reduced pressure drops.



### The Range Hyperchill Laser ICE 005-057

9 models with  
refrigeration capacity  
ranging from 5 to 57 kW

Storage tanks made from high-density polyethylene with double structure - an external supporting layer and an internal insulating layer.

### Versions

- low ambient temperature (ICL010-057)
- precision control (ICL005-057)
- antifreeze (ICL005-057)
- low noise (ICL015-057)

### Accessories

- water fill kit (ICL010-057)
- remote control (ICL010-057)
- wheels kit (ICL005-015)
- protection panel (ICL022-057)
- settable hydraulic by-pass (ICL005-057)
- flow switch (ICL005-057)
- automatic shutoff valves (ICL005-057)
- deioniser (ICL005-007)

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# Water coolers

## Hyperfree

Hyperfree is the ideal solution where water is required at temperatures above ambient.

All models are easy to install with low running and maintenance costs. Also, they are designed for outdoor installation, with IP54 grade protection and epoxy coated galvanized aluminium frames.

Each unit is individually tested to guarantee maximum performance.

Low noise fans, mounted on conveyors for improved performance, with external rotors and integral thermal protection.



### Operation

In the coolers, the water circulates inside a heat exchanger coil while an external flow of air is forced through by one or two fans, cooling the water to the required temperature.

### The range

#### Hyperfree

HDC040-710

HDCV490-820

20 models with refrigeration capacities ranging from 40 to 820 kW

The unique “wave” configuration fin design optimizes cooling performance, whilst the smooth bore tubes guarantee high operating reliability and minimum pressure loss.

### Versions

- horizontally mounted coil configuration
- vertically mounted coil configuration
- compact “V” configuration
- anti-corrosion

### Accessories

- fan cabling
- electrical panel
- water temperature control
- water fill kit
- pump set
- freecooling 3-way control valve

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# Applications and industrial sectors

Water chilling and cooling is needed in almost all areas of industry. Hyperchill and Hyperfree are particularly suitable for the textiles, food processing, plastics, pharmaceutical, beverages, engineering, glass, laser and electronics industries for the following applications:

**Product cooling:** plastic, rubber, aluminium, steel & similar materials, foodstuffs, paints, gases.

**Process cooling:** air, combustion fumes, solvents, contact surfaces, work surfaces.

**Machine cooling:** direct or indirect (cooling oil temperature control).

**Ambient cooling:** cold rooms, air conditioning, electrical panels, cooling tunnels.

**Drying (in combination with aftercoolers) of:** compressed air, technical and biogases, air for alimentary use, chemical/pharmaceutical products, paints.

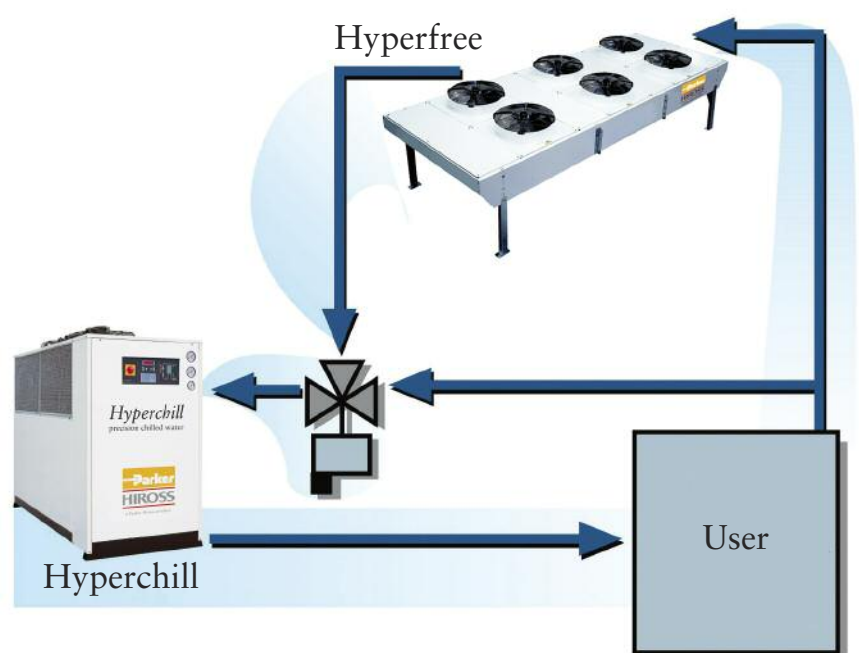
**Other applications:** temperature control of baths, ovens, chemical reactors, special applications.



## Freecooling

If used in combination with Hyperchill water chillers, Hyperfree water coolers guarantee an effective and extremely efficient solution.

A freecooling system makes it possible to switch automatically from Hyperfree in the colder months to Hyperchill in the warmer months, resulting in significant energy savings and guaranteeing a supply of water at the same required temperature in all seasons of the year, thus optimising running costs.



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# Technical data

## Hyperchill

Model ICE		003	005	007	010	015	022	029	039	046	057	076	090	116	150	183	230	310	360			
air-cooled	Cooling capacity <sup>1</sup>	kW	2,5	5,1	7,0	9,5	14,3	21,8	28,1	38,2	45,2	56,4	76,0	90,2	115,5	149,2	182,3	227,9	309,1	359,7		
	Compr. abs. power <sup>2</sup>	kW	0,70	1,40	2,0	2,27	3,43	5,19	5,66	7,69	10,1	12,3	15,4	20,3	24,9	30,8	40,1	51,4	46,4	81,5		
	Cooling capacity <sup>3</sup>	kW	1,8	3,8	5,2	7,0	10,6	16,2	20,8	28,4	33,8	42,1	56,5	67,1	86,4	110,9	135,4	165,3	223,7	259,1		
	Compr. abs. power <sup>2</sup>	kW	0,62	1,31	1,67	2,16	3,24	4,46	5,93	8,26	10,6	13,1	16,4	21,2	25,8	33,5	42,1	54,3	66,4	83,7		
water-cooled	Cooling capacity <sup>1</sup>	kW	N.A.				on request			29,6	39,5	47,6	59,0	79,8	97,5	120,1	156,7	195,0	on request		N.A.	
	Compr. abs. power <sup>2</sup>	kW	N.A.				on request			5,16	7,13	9,04	11,0	13,8	17,3	22,6	27,6	34,8	on request		N.A.	
	Cooling capacity <sup>3</sup>	kW	N.A.				on request			21,9	29,3	35,3	43,9	59,1	72,3	89,4	116,1	144,6	on request		N.A.	
	Compr. abs. power <sup>2</sup>	kW	N.A.				on request			5,17	7,17	8,93	11,1	13,9	17,0	22,8	27,8	34,4	on request		N.A.	
<b>Compressors</b>																						
Compr./circuits		1/1															2/2		4/2			
Max abs. power - 1 compr.	kW	0,7	1,5	2,0	3,0	4,3	6,9	7,8	11,1	13,7	16,8	11,1	13,7	16,8	11,1	13,7	16,8	23,3	28,7			
<b>Axial fans</b>																						
Quantity	n°	1						2			3			2		3		4				
Max abs. power - 1 fan	kW	0,12	0,12	0,14	0,14	0,61	0,61	0,78	0,61	0,61	0,61	0,78	0,78	0,78	2,0	2,0	2,0	2,0	2,0			
Air flow	m <sup>3</sup> /h	2300	2300	4400	4100	7100	6800	9200	12400	12000	17400	25500	25000	26400	47000	46000	66000	88000	86000			
<b>Centrifugal fans</b>																						
Quantity	n°	N.A.				on request			2	2	2	3	3	3	3	3	3	on request	N.A.			
Max abs. power - 1 fan	kW	N.A.				on request			1,1	1,1	1,1	1,1	1,5	1,5	1,5	3	3	on request	N.A.			
Air flow	m <sup>3</sup> /h	N.A.				on request			9200	12400	12000	17400	25500	25000	26400	47000	46000	on request	N.A.			
Head pressure	kPa	N.A.				on request			200	180	160	200	100	100	100	180	180	on request	N.A.			
<b>Water-cooled version</b>																						
Condenser water flow <sup>1</sup>	m <sup>3</sup> /h	N.A.				on request			2,57	3,94	5,36	7,79	10,84	10,96	16,16	18,88	29,17	on request	N.A.			
Connections (in/out)	"	N.A.				on request			1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	on request	N.A.		
<b>Pump P30 (standard on ICE003-230, optional on ICE230-360)</b>																						
Max absorbed power	kW	0,5	0,5	0,78	0,78	1,04	1,34	1,34	1,34	2,35	2,35	1,85	2,24	2,24	4	4	4	7,5	7,5			
Water flow (nom/max) <sup>1</sup>	m <sup>3</sup> /h	0,2/2,4	0,8/2,4	1,3/3	1,5/3	2,3/6	3,5/9,6	4,5/9,6	6,3/9,6	7,6/18	9,3/18	13/18	15/26	19/27	25/50	30/50	39/48	52/90	62/90			
Head pressure (nom/min) <sup>1</sup>	mH <sub>2</sub> O	36/6	30/6	35/8	31/8	29/21	28/17	27/17	24/17	28/22	27/22	26/22	28/16	25/16	34/20	32/20	28/21	34/21	31/21			
Water flow (nom/max) <sup>2</sup>	m <sup>3</sup> /h	0,3/2,4	0,6/2,4	0,9/3	1,0/3	1,6/6	2,4/9,6	3,2/9,6	4,5/9,6	5,5/18	6,7/18	9,0/18	11/26	13,4/27	18/50	22/50	28/48	38/90	45/90			
Head pressure (nom/min) <sup>2</sup>	mH <sub>2</sub> O	38/6	34/6	42/8	38/9	30/21	29/17	28/17	27/17	28/22	28/22	27/22	32/16	30/16	36/20	35/20	32/21	36/21	35/21			
<b>Dimensions &amp; weight</b>																						
Width (A)	mm	750	750	534	534	730	730	744	744	744	744	898	898	898	1290	1290	1290	1510	1510			
Height (B)	mm	800	800	1228	1228	1358	1358	1358	1358	1358	1358	1954	1954	1954	2272	2272	2272	2238	2238			
Depth (C)	mm	530	530	980	980	1122	1122	1650	1650	1650	2200	2200	2200	2200	3000	3000	3270	4210	4210			
Connections in/out	"	1"	1"	1"	1"	1 ¼"	1 ¼"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2 ½"	2 ½"	2 ½"	4"	4"			
Tank capacity	l	25	25	25	45	120	120	180	180	250	300	500	500	500	1000	1000	1000	400	400			
Weight <sup>3</sup>	kg	105	110	170	180	250	270	380	410	430	520	800	900	1000	1500	1800	2100	2900	3100			
<b>Noise level</b>																						
Sound pressure <sup>4</sup>	dB(A)	52	52	53	53	50	50	53	52	52	56	58	58	58	62	62	64	65	65			

1) at water in/out temperature = 20/15°C, glycol 0%, either 25°C ambient temperature (air-cooled models) or 20°C condenser water inlet temperature with 35°C condensing temperature (water-cooled models).  
 2) at water in/out temperature = 12/7°C, glycol 0%, either 32°C ambient temperature (air-cooled models) or 20°C condenser water inlet temperature with 35°C condensing temperature (water-cooled models).  
 3) weights are inclusive of pallet and refrigerant charge.  
 4) referred to axial fan version in free field conditions at a distance of 10m from unit, measured on condenser side, 1m from ground.  
 Power supply: 230V / 1ph / 50Hz for ICE003-005, 400V / 3ph / 50Hz for ICE007-360.  
 Protection class: IP33 for ICE003-005, IP44 for ICE007-010, IP54 for ICE015-360.

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# Technical data

## Hyperchill Maxi

Model ICE		460	550	650	760
Cooling capacity <sup>1</sup>	kW	457,9	544,8	650,7	757,5
Absorbed power <sup>1</sup>	kW	98,5	110,3	139,8	157,8
COP		4,6	4,9	4,7	4,8
Water flow <sup>1</sup>	m <sup>3</sup> /h	78,8	93,7	111,9	130,3
$\Delta p$ H <sub>2</sub> O evaporator	kPa	33,8	44,8	42,2	56,3
Cooling capacity <sup>2</sup>	kW	331	393	471	545
Absorbed power <sup>2</sup>	kW	107	118	151	177
COP		3,1	3,3	3,1	3,1
Water flow <sup>2</sup>	m <sup>3</sup> /h	56,9	67,6	81,0	93,7
$\Delta p$ H <sub>2</sub> O evaporator	kPa	18,5	24,1	23,3	30,6
<b>Compressors</b>					
Compressors / circuits	n°	2/2			
Nominal power (1 compr.)	Hp	70	80	100	120
Max absorbed power (1 compr.)	kW	71	81,3	98,1	118,1
<b>Fans</b>					
Quantity	n°	6	8	8	10
Nominal power (1 Fan)	kW	2,1	2,1	2,1	2,1
Air flow	m <sup>3</sup> /h	126000	168000	168000	210000
<b>Dimensions &amp; weight</b>					
Width (A)	mm	2200	2200	2200	2200
Height (B)	mm	2500	2500	2500	2500
Depth (C)	mm	4000	5100	5100	6200
Weight	kg	3178	3848	3961	4455
Connections in/out	"	4"	4"	6"	6"
<b>Noise level</b>					
Sound pressure <sup>3</sup>	dB(A)	73	74	74	75

1) at water inlet/outlet temperature = 20/15°C, glycol 0%, ambient temperature 25°C.

2) at water inlet/outlet temperature= 12/7°C, glycol 0%, ambient temperature 35°C.

3) measured in free field conditions at a distance of 10m from unit, on condenser side, 1m from ground.

Power supply: 400V / 3ph / 50Hz for all models. Protection class: IP54.

# Technical data

## Hyperchill Laser

Model ICL		005	007	010	015	022	029	039	046	057	
Cooling capacity <sup>1</sup>	kW	5,0	6,7	9,5	14,2	21,8	27,8	38,2	45,2	56,4	
Absorbed power <sup>1</sup>	kW	1,4	1,9	2,3	3,4	5,2	5,6	7,7	10,1	12,3	
Cooling capacity <sup>2</sup>	kW	4,7	6,2	8,7	13,0	20,6	26,2	36,4	42,9	53,7	
Absorbed power <sup>2</sup>	kW	1,6	2,2	2,6	3,9	6,5	7,1	9,6	13,0	15,3	
Controller		µchiller 2					pCO xs				
Compressors		hermetic pistons					hermetic pistons scroll				
Compressors/circuits	n°						1/1				
Max. abs. power	kW	1,5	2,0	2,5	2,9	6,7	7,8	11,	13,7	16,8	
FLA - 1 fans	A	7,5	9,9	5,5	10,0	11,4	14,6	19,2	25,6	27,8	
LRA	A	37	75	28	42	74	99	127	167	198	
Expansion device		capillary			thermostatic valve (MOP)						
Evaporator		copper-brazed plate evaporator									
Type											
Pressure drop <sup>1</sup>	kPa	5,3	8,9	23,5	48,5	41,2	36,6	40,1	33,5	45,7	
Fans		1			2			3			
Quantity	n°										
Max abs. power	kW	0,12	0,12	0,35	0,35	0,78	0,78	0,61	0,61	0,61	
FLA - 1 fans	A	0,57	0,57	0,44	0,44	1,35	1,35	1,15	1,15	1,15	
Tot. Air Flow	m <sup>3</sup> /h	2300	1900	4100	3500	6800	9200	12400	12000	17400	
Pump P30		peripheral				centrifugal					
Type											
Max. abs. power	kW	0,37	0,37	0,5	0,5	1,34	1,34	2,28	2,28	2,28	
FLA	A	2,5	2,5	1,7	1,7	2,6	2,6	4,8	4,8	4,8	
Water flow <sup>1</sup> (nom/max)	m <sup>3</sup> /h	0,86/2,4	1,1/2,4	1,6/6	2,4/6	3,7/9,6	4,8/9,6	6,6/18	7,8/18	9,7/18	
Head pressure <sup>1</sup> (nom/min)	m H <sub>2</sub> O	30/6	25/6	30/21	29/21	28/17	27/17	28/22	28/22	27/22	
Pump P50		peripheral				centrifugal					
Type											
Max. abs. power	kW	0,75	0,75	0,75	0,75	2,2	2,2	2,2	2,2	30	
FLA	A	2,1	2,1	2,1	2,1	5,2	5,2	5,2	5,2	6,5	
Water flow <sup>1</sup> (nom/max)	m <sup>3</sup> /h	0,86/2,7	1,1/2,7	1,6/4,9	2,4/4,9	3,7/9,0	6,6/12,5	7,8/12,5	7,8/12,5	9,7/12,5	
Head pressure <sup>1</sup> (nom/min)	m H <sub>2</sub> O	58/22	52/22	52/35	50/35	58/38	55/38	48/37	47/37	46/37	
Dimensions & weight											
Width (A)	mm	750	750	550	550	760	760	760	760	760	
Height (B)	mm	800	800	1478	1478	1358	1358	1358	1358	1358	
Depth (C)	mm	530	530	980	980	1650	1650	1650	1650	1650	
Water connections	"	3/4"	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/2"	
Tank capacity	l	30	30	70	70	140	140	210	210	280	
Weight <sup>3</sup>	kg	90	110	146	156	259	321	355	375	500	
Noise level											
Sound pressure <sup>4</sup>	dB(A)	52	52	50	50	53	53	52	52	56	

(1) at water inlet/outlet temperature = 20/15°C, glycol 0%, ambient temperature 25°C. Net cooling capacity, without pump heat load.

(2) at water inlet/outlet temperature = 25/20°C, glycol 0%, ambient temperature 35°C. Net cooling capacity, without pump heat load.

(3) weights are inclusive of pallet and refrigerant charge.

(4) referred to free field conditions at a distance of 10m from unit, measured on condenser side, 1 m from ground.

Power supply: 230V / 1ph / 50Hz for ICL003-005; 400V / 3ph / 50Hz for ICL010-057.

Protection class: IP33 for ICL003-005; IP44 for ICL010-015; IP54 for ICL022-057.

All models equipped with ecological refrigerant R407C.

### Correction factors for the calculation of the cooling capacity

A) Ambient temperature correction factor (f1)	°C	5	10	15	20	25	30	35	40	45
		1,05	1,05	1,05	1,05	1	0,95	0,89	0,83	0,77
B) Water outlet temperature correction factor (f2)	°C	5	10			15	20			25
			0,72		0,86	1	1			1
C) Glycol (in weight) correction factor (f3)	%		0		10		20		30	
			1		0,99		0,98		0,97	

To obtain the required cooling capacity multiply the value at nominal conditions by the above correction factors (i.e. cooling capacity = Pxf1xf2xf3, where P is the cooling capacity at conditions (1)). Hyperchill Laser, in its standard configuration, can operate up to ambient temperatures of max 45°C and min. 5°C and water temperatures of max 30°C inlet and min. 0°C outlet. The above correction factors are approximative: for a precise selection always refer to the software selection program.

## Free your Energy

# Technical data

## Hyperfree

Model	Cooling capacity kW <sup>1</sup>	Water flow m <sup>3</sup> /h	Water pressure drop kPa <sup>2</sup>	Fans n° x ø mm	Fan motor power (par vent.) kW	Sound pressure dB(A) <sup>3</sup>	Connec. in/out in	Dimensions (mm)				Weight kg
								(A) Width	(B) Height	(C) Depth	(D) Thickness	
<b>Configuration standard (horizontal/vertical)</b>												
HDC040	39,5	6,8	39,3	2 x 500	0,78	47	1 ¼"	830	950	2042	530	97
HDC060	59,1	10,2	37,3	3 x 500	0,78	49	1 ½"	830	950	2942	530	134
HDC080	80,7	13,9	80,8	3 x 500	0,78	49	2"	830	950	2942	530	165
HDC110	107,9	18,6	74,8	4 x 500	0,78	50	2"	830	950	3842	530	223
HDC140	137,6	23,7	17,3	2 x 630	2,6	59	2"	1255	1220	3235	850	380
HDC165	164,1	28,2	44,5	3 x 630	2,6	61	2"	1255	1220	4635	850	480
HDC190	192,1	33,0	39,7	3 x 630	2,6	61	2"	1255	1220	4635	850	525
HDC210	206,9	35,6	30,4	3 x 630	2,6	61	2 ½"	1255	1220	4635	850	570
HDC250	247,4	42,5	44,4	2 x 910	3,6	58	2 ½"	1494	1290	4635	850	580
HDC345	344,5	59,2	8,3	3 x 910	3,6	60	3"	1494	1290	6735	850	795
HDC440	438,1	75,3	48,7	4 x 910	3,6	60	2 x 3"	2290	1290	4650	790	940
HDC510	506,6	87,1	72,8	6 x 910	3,6	62	2 x 4"	2290	1290	6750	790	980
HDC580	579,7	99,7	9,7	6 x 910	3,6	62	2 x 4"	2290	1290	6750	790	1073
HDC660	655,1	112,7	71,2	6 x 910	3,6	62	2 x 4"	2290	1290	6750	790	1159
HDC710	714,4	122,9	18,6	8 x 910	3,6	63	2 x 4"	2290	1290	8850	790	1318
<b>"V" configuration</b>												
HDCV490	486,9	83,6	30,5	6 x 800	2,0	58	2 x DN80	2230	2210	4250	N.A	1323
HDCV540	535,5	92,1	34,2	6 x 910	3,6	64	2 x DN80	2230	2210	4250	N.A	1167
HDCV620	622,6	107,1	34,0	6 x 910	3,6	64	2 x DN80	2230	2210	4250	N.A	1347
HDCV720	717,1	123,3	42,0	8 x 910	3,6	65	2 x DN100	2230	2210	5560	N.A	1628
HDCV820	823,2	141,6	32,0	8 x 910	3,6	65	2 x DN100	2230	2210	5560	N.A	1826

1) at water inlet/outlet temperature = 40°/35°C, ambient temperature 25°C, glycol 0%.

2) pressure drop referred to the maximum performance configurations: these can be decreased on request.

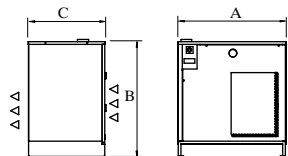
3) sound pressure level is weighted average of values measured at 10m on parallelepiped surface with reflection plain, 1m from ground.

Power supply 400/3/50Hz for all models.

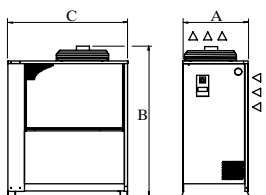
Data contained in this publication is indicative only. The manufacturer reserves the right to modify data without prior notice.

*The Parker Hiross solutions*

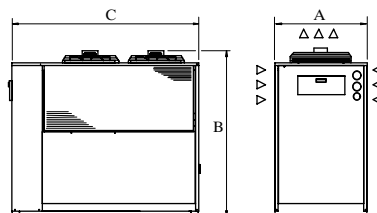
# Dimensional drawings



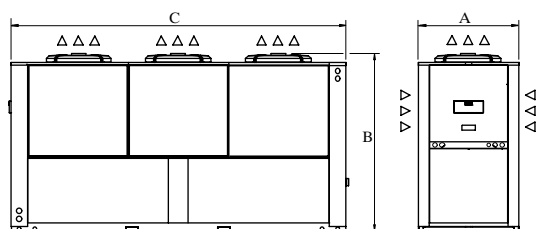
ICE003-005 / ICL005-007



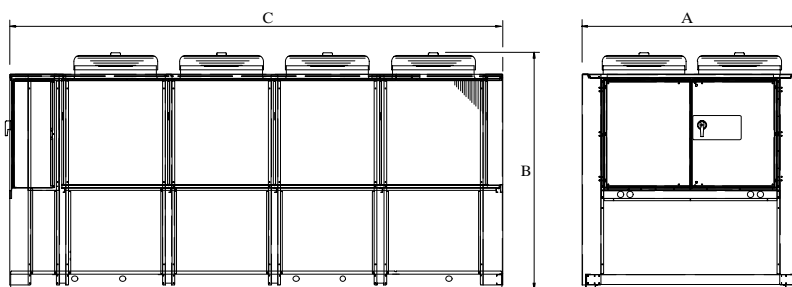
ICE007-010 / ICL010-015



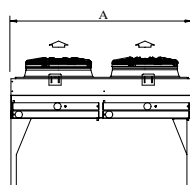
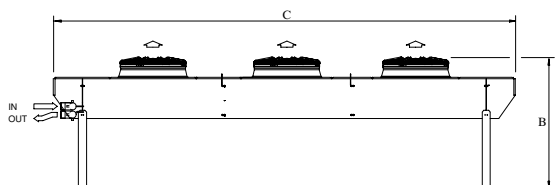
ICE015-057 / ICL022-057



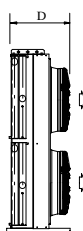
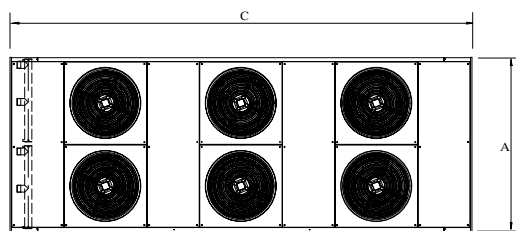
ICE076-360



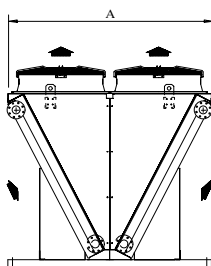
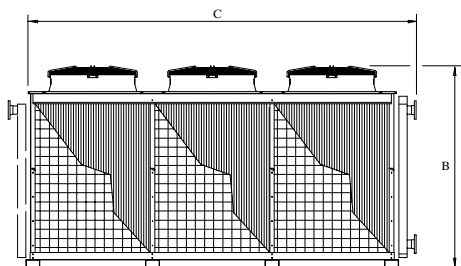
ICE460-760



HDC (horizontal configuration)  
 HCD040-345 (1 row fans)  
 HDC440-710 (2 row fans)



HDC (vertical configuration)  
 HCD040-345 (1 row fans)  
 HDC440-710 (2 row fans)



HDCV ("V" configuration)



# Free your Energy

Release your Power

Save Energy

Purify your Air

Stop Wasting Water

Respect the Environment

Improve your Factory's performances

Focus on your Core Business



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