

# Hyperfree

## Drycoolers



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

All models are easy to install with low running and maintenance costs, designed for outdoor installation, with IP54 grade protection and epoxy coated galvanized aluminium frames. The new generation of Parker Hiross dry coolers is a competitive product Line of robust construction, offering excellent performance and an outstanding integration with other components. Highly-efficient fan motors combine excellent sound characteristics and low energy consumption.



### Process cooling applications:

- Refrigeration
- Air-conditioning Applications
- Free Cooling
- Industrial Cooling Applications

### 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.



### Contact Information:

Parker Hiross S.p.A. - Strada Zona Industriale 4  
S. Angelo di Piove PD - Italy  
Tel: +39 049 9712 217 - Fax: +39 049 9701 911  
Email: [info@parker.com](mailto:info@parker.com)  
[www.dh-hiross.com](http://www.dh-hiross.com)

### 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)

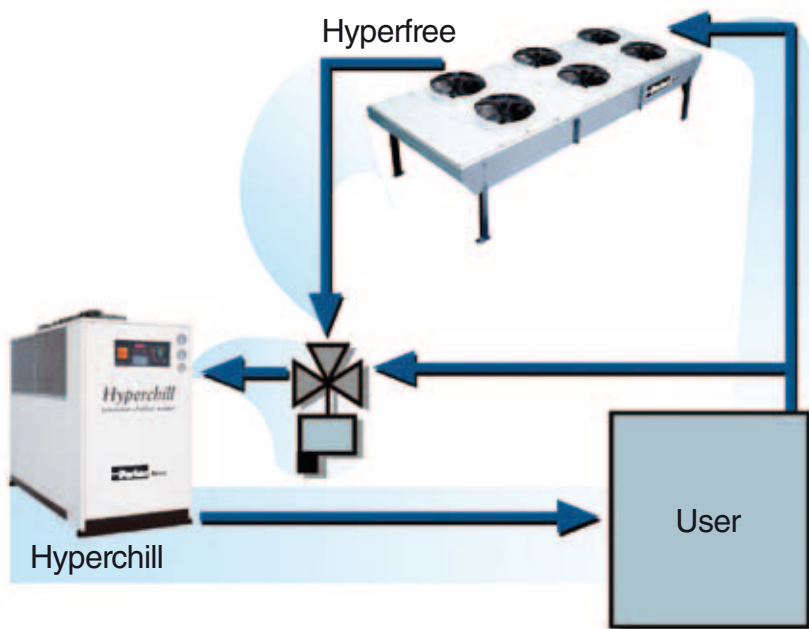


ENGINEERING YOUR SUCCESS.

Innovative Parker Hiross dry coolers combine an excellent heat transfer with minimized cooler dimensions, thanks to the fin corrugation developed, combined with advanced cross-fin tubes. For double fan row units, double connections provide the possibility of two completely independently operating heat exchangers.



## Freecooling



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

A freecooling system makes it possible to switch from Hyperfree in the colder periods to Hyperchill in the warmer periods, resulting in significant energy savings and guaranteeing fresh water supply at the required temperature in any condition, optimising the running costs.

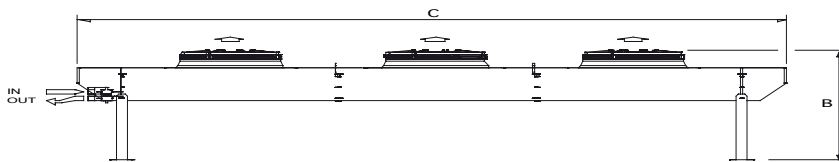
### Options:

- Support feet, for horizontal installation
- Junction box for common power connection
- Control panel and cabling
- Control panel with fan step control
- Control panel with stepless control (fan speed regulation)
- Vibration dampers
- Spray water system
- Coil treatments

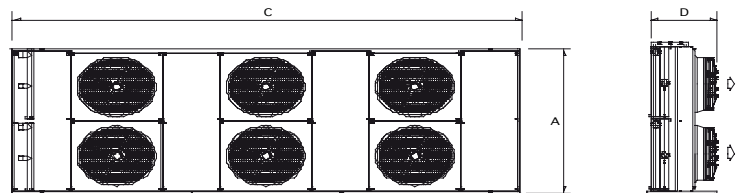
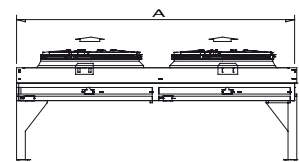
# Technical data

Model	Cooling Capacity*	Water Flow	Water pressure drops	Fans n° x D	Air flow	Max abs. power (1 fan)	Noise level	Conn. IN/OUT	Dimensions	Weight
	kW	m³/h	kPa	n° x mm	m³/h	kW	db (A)	in	(AXBxCxD)	kg
HDC040	39,5	6,8	39,3	2x500	15729	0,8	47	1"1/4	830x950x2042x530	97
HDC060	59,1	10,2	37,3	3x500	23593	0,8	49	1"1/2	830x950x2942x530	134
HDC080	80,7	13,9	80,8	3x500	20638	0,8	49	2"	830x950x2942x530	165
HDC110	107,9	18,6	74,8	4x500	27517	0,8	50	2"	830x950x3842x530	223
HDC 140	137,7	23,7	17,3	2x630	33848	2,6	59	2"	1255x1220x3235x850	380
HDC 165	164,1	28,2	44,5	3x630	53118	2,6	61	2"	1255x1220x4635x850	480
HDC 190	192,2	33,0	39,7	3x630	51951	2,6	61	2"	1255x1220x4635x850	525
HDC 210	207,0	35,6	30,4	3x630	50709	2,6	61	2"1/2	1255x1220x4635x850	570
HDC 250	247,4	42,5	44,4	2x910	60529	3,6	58	2"1/2	1494x1290x4635x850	580
HDC 345	344,5	59,3	8,3	3x910	93167	3,6	60	3"	1494x1290x6735x850	795
HDC 440	438,1	75,3	48,7	4x910	112224	3,6	60	2x3"	2290x1290x4650x790	940
HDC 510	506,6	87,1	72,8	6x910	183482	3,6	62	2x4"	2290x1290x6750x790	980
HDC 580	579,7	99,7	9,7	6x910	175746	3,6	62	2x4"	2290x1290x6750x790	1073
HDC 660	655,1	112,7	71,2	6x910	168088	3,6	62	2x4"	2290x1290x6750x790	1159
HDC 710	714,4	122,9	18,6	8x910	244541	3,6	63	2x4"	2290x1290x8850x790	1318

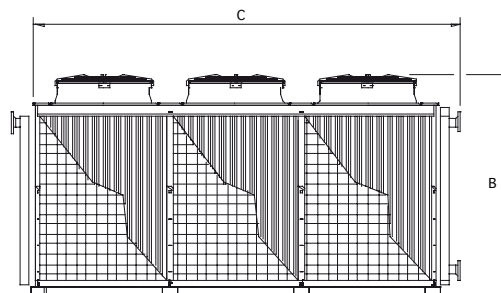
HDCV 490	486,2	83,6	30,5	6x800	123000	2,0	58	2 x DN80	2230x2208x4251	1323
HDCV 540	535,5	92,1	34,2	6x910	185200	3,6	64	2 x DN80	2230x2208x4251	1167
HDCV 620	622,7	107,1	34,0	6x910	178100	3,6	64	2 x DN80	2230x2208x5560	1347
HDCV 720	717,2	123,3	42,0	8x910	247000	3,6	65	2 x DN80	2230x2208x5560	1628
HDCV 820	823,2	141,6	32,0	8x910	237700	3,6	65	2 x DN80	2230x2208x6870	1826



HDC (horizontal configuration)  
HDC040-345: 1 row fans  
HDC440-710: 2 row fans



HDC (vertical configuration)  
HDC040-345: 1 row fans  
HDC440-710: 2 row fans



HDCV ("V" configuration)

