

# Chillers



**Air Cooled Water Chillers**



**Fawcett Christie Hydraulics Ltd**

# HLA Water Chillers

## A Revolution In Industrial Cooling

The HLA range of air cooled water chillers offers the most advanced design to satisfy today's industrial cooling equipment requirements.

The entire range is packed with the latest technology and assembled with components developed with our world-renowned manufacturing partners including Maneurop, Danfoss, Siemens and Grundfos. The complete HLA range of packaged air cooled water chillers offer maximum efficiency together with total reliability and are manufactured to the highest quality standard.

This new generation of water chillers are built on years of experience, the result of which is the HLA range which incorporates many major advanced standard features that other suppliers charge as extra.

### Integral Stainless Steel Water Tank:

The high volume integral water tank is manufactured entirely from stainless steel. The large water capacity maintains the water at optimum temperature for longer and reduces the compressor starts to a minimum ensuring longer compressor life and maximum efficiency.

### Coated Condenser Fins:

The aluminium fins on the condenser are coated with special anti-corrosion material ensuring long life for the condenser.

### Microprocessor Controls:

Standard microprocessor controls incorporating many advanced features and alarms.



### Integral Pump:

The centrifugal pumps are manufactured with a stainless steel water circuit and standard 3 bar pressure. Higher pressure pumps available as an option.

### Compressor(s):

All models (except HLA S05) feature "Maneurop" hermetic compressors. These highly reliable European manufactured units are protected by an internal thermal overload and can be isolated from the refrigeration circuit by valves fitted to the suction and discharge connections.

## Standard Features

Stainless steel large volume thermal buffer tank as standard across the entire HLA range

Coated condenser fins to protect the aluminium condenser from corrosion

100% non-ferrous water circuit

Heavy duty industrial condenser fan with low ambient operation

Strong galvanised epoxy coated steel frame construction

Microprocessor control and alarm fault display

Improved component positioning for easy service access

Weatherproofed for external siting (IP54)

# HLA Water Chillers: specifications

Models	HLA S05	HLA 08	HLA 010	HLA 015	HLA 020	HLA 030	HLA 040	HLA 050	HLA 060	HLA 090	HLA 120	HLA 150	HLA 180
<b>Duty</b>													
cooling capacity @ 15°C (1) kW	4.5	7.5	9.7	13	20	28.8	38	46	58	90.5	122	152	182
cooling capacity @ 7°C (2) kW	3.4	5.3	6.8	9.9	14.5	20.5	28	33.5	41.5	66	87.5	109	131
(3) compressor power kW	1.25	1.72	2.1	3.65	5.45	7.3	9.2	12.3	2x7.3	2x12.3	4x7.3	4x9.2	4x12.3
<b>Electric Supply</b>													
V/ Ph/Hz	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
(1) nominal current A	8.5	3.63	4.22	7.65	10.4	14.1	17	22	27.5	46.2	57.5	76.4	93.6
maximum current A	12	4.8	5.7	9.5	14.3	20.8	27.2	33.4	38.6	69.8	78.8	108.7	135
<b>Compressor</b>													
Manufacturer	Panasonic	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop	Maneurop
type	4KS225EBA	MTZ 22	MTZ 28	MTZ 40	MTZ 64	MTZ 100	MTZ 125	MTZ 160	2xMTZ 100	2xMTZ 160	4xMTZ 100	4xMTZ 125	4xMTZ 160
Number of circuits	1	1	1	1	1	1	1	1	1	1	2	2	2
<b>Axial Fans</b>													
number of fan	1	1	1	1	1	1	2	2	2	3	2	2	2
total nominal power kW	0.05	0.15	0.16	0.48	0.48	0.82	0.64	0.64	1.36	1.35	3.44	3.44	3.44
(1) nominal air flow m³/h	1100	3200	3850	6150	5750	8460	10400	10400	19000	20700	44260	43230	42200
<b>Pump 3 bar (standard)</b>													
Grundfos model	CH2-40	CH2-40	CH2-40	CH4-40	CH4-40	CH8-30	CH8-30	CH8-40	CH12-30	NB32-125/130	NB32-160/163	NB40-160/158	NB40-160/158
total nominal power kW	0.57	0.52	0.52	0.91	0.91	1.03	1.03	1.29	1.53	2.2	4	5.5	5.5
(1) water flow m³/h	0.58/3.6	0.89/3.6	1.1/3.6	1.6/8	2.5/8	3.7/10	4.9/10	6.0/10	7.6/14	12.1/34	15.1/37	19.3/60	23.2/60
(1) available pressure kPa	335/160	345/160	335/160	300/90	280/90	280/160	260/160	300/165	295/195	220/135	340/215	335/205	330/205
<b>Pump 5 bar (optional)</b>													
Grundfos model		CH2-60	CH2-60	CH4-60	CH4-60	CH8-60	CH8-60	CH8-60	CH12-60	NB32-200.1/188	NB32-200/210	NB40-200/210	NB40-200/210
total nominal power kW		0.78	0.78	1.49	1.49	1.93	1.93	1.93	3.18	4	7.5	11	11
(1) water flow m³/h		0.89/3.6	1.1/3.6	1.6/8	2.5/8	3.7/10	4.9/10	6.0/10	7.6/14	12.1/26	15.1/36	19.3/67	23.2/67
(1) available pressure kPa		530/240	505/240	475/160	435/160	510/260	480/260	450/260	525/355	440/260	560/430	575/380	565/380
<b>Tank Capacity</b>													
tank liters	25	60	60	110	110	175	250	250	400	400	600	600	600
<b>Water Connections</b>													
in/out inch (BSF)	1/2"	3/4"	3/4"	1"	1"	1.1/2"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	2.1/2"
<b>Dimensions of unit</b>													
width	683	539	539	743	743	743	743	743	860	860	1258	1258	1258
depth	547.5	984	984	1090	1090	1653	1653	1653	2230	2230	3588	3588	3588
height	833	1226.5	1226.5	1350	1350	1286	1286	1286	1900	1900	2210	2210	2210
weight	80	127	140	190	215	340	400	430	715	770	1375	1430	1500
<b>Sound Pressure Level</b>													
(4) dB(A)	49	62	62	65	65	67	67	67	68	68	70	70	70

**Note :**

- (1) water outlet temp = 15°C ; water DELTA T = 5°C; ambient temperature = 25°C.
- (2) water outlet temp = 7°C ; water DELTA T = 5°C; ambient temperature = 32°C.
- (3) refers to compressor, absorbed power
- (4) refers in free field at 10m distance from the unit at condenser side and at 1.2m from the ground.

**Capacity Correction Factors (indicative values):** Refrigerating capacity or Heat = nominal value xCF1xCF2

Water Outlet Temperature °C	-5	0	5	7	10	Ambient Temperature °C	20	25	30	32	35	40
CF1	0.63	0.77	0.93	1	1.1	(air) CF2	1.12	1.07	1.02	1	0.97	0.91

We reserve the right to change the specifications within this publication in whole or in part without prior notice. This brochure is to be used as a general guide and does not form any part of a contract or is binding in any way. We reserve the right when necessary, or at our discretion to use alternative suppliers or components manufactured by other suppliers.

## Industrial Applications:

- Plastics & Rubber
- Chemical
- Pharmaceutical
- MRI Machines
- Food
- Breweries
- Printers
- Engineering
- Lasers



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