

Aqua

The Temperature
Control People.

The Aqua Pro Range



Introducing a real pro

Our Aqua Pro chillers have been specifically designed to stand up to the challenges of the process market. The range covers cooling capacities from 1kW to 1MW+, and works with process fluid temperatures from -25°C to +20°C.

Innovative evaporator design, combined with the latest energy saving technology results in a highly efficient, reliable, and completely packaged chiller.

The Aqua Pro also makes an impact with its impressive eco-friendly credentials. All models operate on low GWP and zero ODP refrigerant, with the option of fully integrated free cooling.



Aqua Pro Aqua EcoPro

Features and Benefits

Low GWP
R454B or
R513A
refrigerant.

Operates with
fluid temperatures
from -25°C to
+30°C.

Powder coated,
galvanised steel
frame.



EC fan technology
enhances energy
efficiency and keeps
noise levels low.

Electronic
expansion valves
to maximise
efficiency.

Unique, cleanable,
process evaporator.

- Unique, cleanable, process evaporator, with large water ways (units over 16kW). This eliminates risk of blockage and subsequent costly evaporator damage, a key factor to consider in process environments where water contamination levels can be higher than normal
- Low GWP R513A refrigerant (up to 16kW) or R454B refrigerant operation (over 16kW). Both are low GWP refrigerants with ratings of 573 and 466 respectively and 70%+ less than R410A
- Integrated free cooling option, from 16kW to MW+ (our Aqua EcoPro range) - with free cooling achievable at higher ambient temperatures than with any other chiller brand on the market. You can find more on how free cooling can dramatically cut your energy costs and carbon footprint [here](#)
- Robust construction, power coated, galvanised steel frame, with a 3mm base thickness



Integrated Free Cooling

Achievable at higher ambient temperatures than with any other chiller brand.



Natural Refrigerant

If you're looking for a natural refrigerant, Aqua Pro units can be supplied with R290.



Available From Stock

Next day, UK wide, delivery.

Technical Specification

AquaPro		M01	M02	M03	M05	M08	M10	M15	M20	M25	M30	M40	M50	031	041	051	061
Nominal Cooling Capacity (1)	kW	0.63	0.88	1.12	1.61	1.99	2.67	4.79	5.64	7.22	7.81	8.45	10.26	10.32	12.59	15.36	17.44
Total Absorbed Power (1)	kW	0.32	0.44	0.58	0.85	0.88	0.99	1.56	1.84	2.25	2.51	2.7	3.17	3.84	4.79	5.85	7.19
EER (1)	-	1.97	2.00	1.93	1.89	2.26	2.70	3.07	3.07	3.21	3.11	3.13	3.24	2.69	2.69	2.63	2.43
Nominal Cooling Capacity (2)	°C	0.96	1.38	1.82	2.44	3.11	4.18	7.4	8.7	11.52	12.64	13.68	16.61	15.30	18.43	22.93	26.11
Total Absorbed Power (2)	kW	0.32	0.45	0.60	0.85	0.85	0.99	1.25	5.88	1.89	2.07	2.23	2.61	2.99	3.23	4.72	5.36
EER (2)	-	3.00	3.07	3.03	2.87	3.66	4.22	5.92	1.48	6.10	6.11	6.13	6.36	5.12	5.71	4.86	4.87
Nominal Cooling Capacity (3)	kW	0.61	0.86	1.18	1.58	1.94	2.6	4.68	5.51	7.06	7.63	8.26	10.02	10.08	12.30	15.00	17.04
Total Absorbed Power (3)	kW	0.32	0.44	0.58	0.58	0.85	0.99	1.56	1.84	2.25	2.51	2.7	1"	3.84	4.79	5.85	7.19
EER (3)	-	1.91	1.95	2.03	1.86	2.28	2.63	3.00	2.99	3.14	3.04	3.06	3.16	2.63	2.57	2.56	2.37
Compressor/Circuits/Steps	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
Refrigerant	-	R513A												R454B			
Type of Evaporator	-	Copper Coaxial Evaporator												Shell & Tube Evaporator			
Hydraulic Connections	BSP	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Tank Volume	Ltrs	20	20	20	20	20	55	55	55	80	80	80	80	120	120	120	190
Total Air Flow	m³/h	2000	2000	2000	2000	2000	2500	2500	2500	6500	6500	6500	6500	6500	6500	6500	13000
Fans	nr.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Electrical Feed	V/Ph/Hz	230/1/50						400/3/50									
F.L.A (Full Load Amps) (5)	A	9.11	10.32	9.72	14.17	14.21	4.40	8.63	8.53	9.91	11.34	11.78	13.32	10.87	14.77	15.57	21.03
Sound Pressure	dB(A)	47.90	47.90	47.90	48.00	48.00	51.40	51.80	51.80	52.70	52.70	52.70	52.70	53.30	53.30	53.30	54.20
Length	mm	780	780	780	780	780	730	730	730	980	980	980	980	1410	1410	1410	1860
Width	mm	580	580	580	580	580	660	660	660	750	750	750	750	755	755	755	780
Height	mm	460	460	460	460	460	1090	1090	1090	1300	1300	1300	1300	1580	1580	1580	1635
Weight Operating	kg	85	85	85	90	95	160	175	175	240	240	240	240	410	410	410	500

AquaEcoPro		031	041	051	061	071	081	091	101	121	161	201	251	301	351	382	402
Nominal Cooling Capacity (1)	kW	10.32	12.59	15.36	17.44	20.69	23.59	26.97	30.83	34.31	41.37	41.19	53.93	61.66	68.63	82.75	94.38
Total Absorbed Power (1)	kW	3.84	4.79	5.85	7.19	8.01	9.49	9.84	10.88	12	16.61	19.59	20.27	22.36	24.61	31.42	37.37
EER (1)	-	2.69	2.63	2.63	2.43	2.58	2.49	2.74	2.83	2.86	2.49	2.41	2.66	2.76	2.79	2.63	2.53
Air Temperature 100% Free Cooling (1)	°C	-1.00	-1.00	-1.00	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.50
Nominal Cooling Capacity (2)	kW	15.30	18.43	22.93	26.11	30.72	35.03	40.06	45.76	50.33	61.44	70.05	80.11	91.51	100.67	122.87	140.1
Total Absorbed Power (2)	kW	2.99	3.23	4.72	5.36	6.04	7.82	7.5	8.39	9.41	12.63	16.18	15.56	17.34	19.37	23.61	30.72
EER (2)	-	5.12	5.71	4.86	4.87	5.09	4.48	5.34	5.45	5.35	4.86	4.33	5.15	5.28	5.20	5.20	4.56
Air Temperature 100% Free Cooling (2)	°C	7.00	7.00	7.00	7.50	7.50	7.50	7.50	7.50	7.50	8.00	8.00	8.00	8.00	8.00	8.50	8.50
Nominal Cooling Capacity (3)	kW	10.08	12.30	15.00	17.04	20.21	23.05	26.35	30.12	33.53	40.43	46.11	52.7	60.24	67.05	80.85	92.21
Total Absorbed Power (3)	kW	3.84	4.79	5.85	7.19	8.01	9.49	9.84	10.88	12	16.61	19.59	20.27	22.36	24.61	31.42	37.37
EER (3)	-	2.63	2.57	2.56	2.37	2.52	2.43	2.68	2.77	2.79	2.43	2.35	2.60	2.69	2.72	2.57	2.47
Air Temperature 100% Free Cooling (3)	°C	-1.00	-1.00	-1.00	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.50
Compressor/Circuits/Steps	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4
Refrigerant	-	R454B															
Type of Evaporator	-	Shell & Tube Evaporator															
Hydraulic Connections	BSP	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"
Tank Volume	Ltrs	120	120	120	190	190	190	190	190	190	250	250	250	250	250	500	500
Total Air Flow	m³/h	6500	6500	6500	13000	13000	13000	13000	13000	13000	31000	31000	31000	31000	31000	62000	62000
Fans	nr.	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3
Electrical feed	V/Ph/Hz	400/3/50															
F.L.A (Full Load Amps) (5)	A	10.87	14.77	15.57	21.03	22.93	25.73	26.43	30.02	32.63	46.66	52.26	53.66	60.86	66.06	89.54	100.74
Sound Pressure	dB(A)	53.30	53.30	54.20	54.20	54.20	54.20	54.20	54.20	54.20	56.90	56.90	56.90	56.90	56.90	62.30	62.30
Length	mm	1410	1410	1410	1860	1860	1860	1860	1860	1860	2455	2455	2455	2455	2455	3220	3220
Width	mm	755	755	755	780	780	780	780	780	780	1045	1045	1045	1045	1045	1305	1305
Height	mm	1580	1580	1580	1580	1635	1635	1635	1635	1635	1635	2125	2125	2145	2125	2200	2200
Weight Operating	kg	410	410	410	500	500	500	500	500	500	870	870	870	870	870	1360	1360

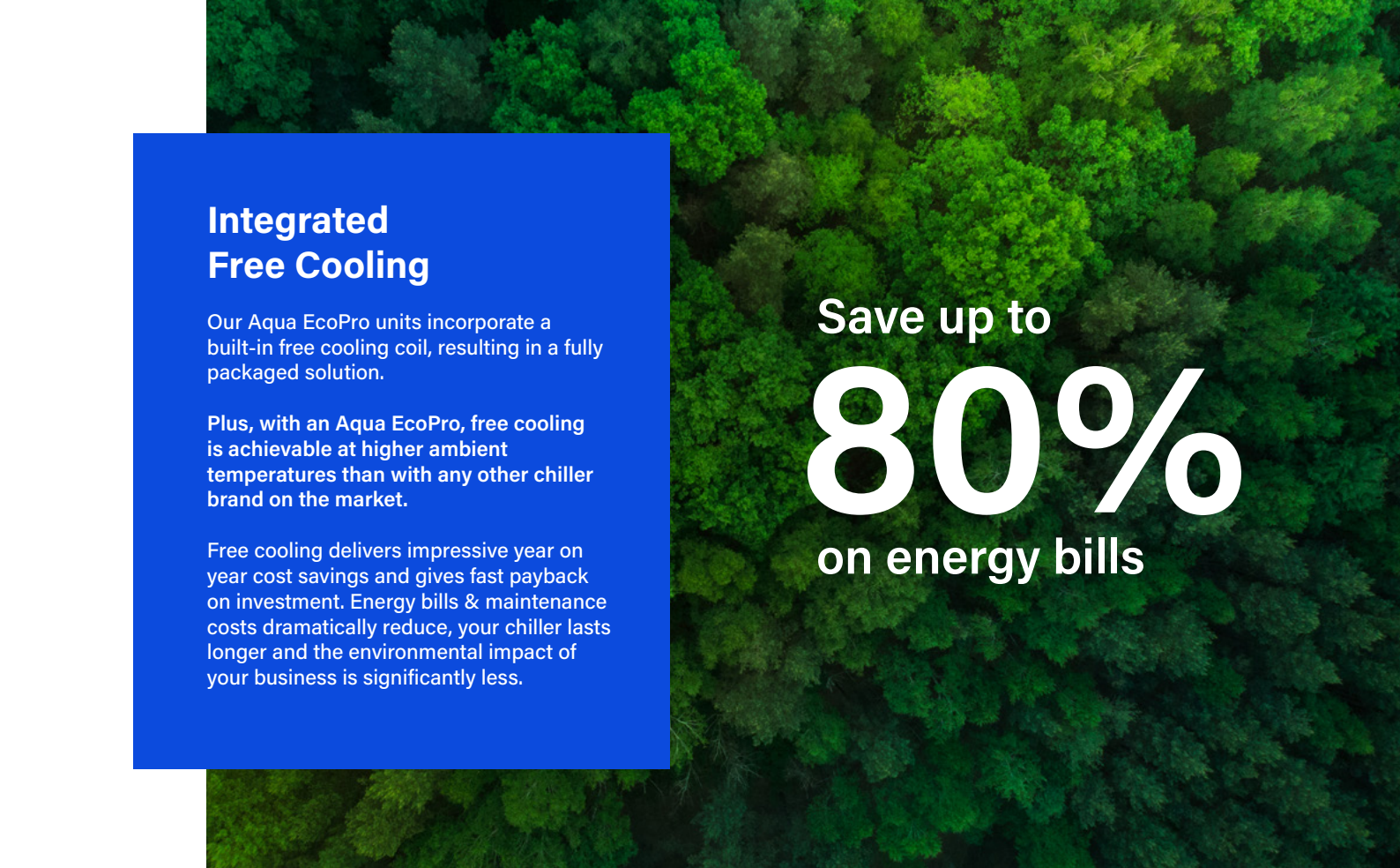
071	081	091	101	121	161	201	251	301	351	382	402	502	602	652	702	902	1102
20.69	23.59	26.97	30.83	34.31	41.37	41.19	53.93	61.66	68.63	82.75	94.38	107.87	115.59	123.31	137.26	160.31	183.36
8.01	9.49	9.84	10.88	12	16.61	19.59	20.27	22.36	24.61	31.42	37.37	38.75	40.84	44.48	48.98	56.77	64.57
2.58	2.49	2.74	2.83	2.86	2.49	2.41	2.66	2.76	2.79	2.63	2.53	2.78	2.83	2.77	2.80	2.82	2.84
30.72	35.03	40.06	45.76	50.33	61.44	70.05	80.11	91.51	100.67	122.87	140.1	160.23	171.63	183.02	201.34	236.19	271.04
6.04	7.82	7.5	8.39	9.41	12.63	16.18	15.56	17.34	19.37	23.61	30.72	29.46	31.24	34.46	38.52	44.38	50.23
5.09	4.48	5.34	5.45	5.35	4.86	4.33	5.15	5.28	5.20	5.20	4.56	5.44	5.49	5.31	5.23	5.32	5.40
20.21	23.05	26.35	30.12	33.53	40.43	46.11	52.7	60.24	67.05	80.85	92.21	105.4	112.94	120.48	134.11	156.63	179.15
8.01	9.49	9.84	10.88	12	16.61	19.59	20.27	22.36	24.61	31.42	37.37	38.75	40.84	44.48	48.98	56.77	64.57
2.52	2.43	2.68	2.77	2.79	2.43	2.35	2.60	2.69	2.72	2.57	2.47	2.72	2.77	2.71	2.74	2.76	2.77
1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
R454B																	
Shell & Tube Evaporator																	
1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
190	190	190	190	190	250	250	250	250	250	500	500	500	500	750	750	750	750
13000	13000	13000	13000	13000	31000	31000	31000	31000	31000	62000	62000	62000	62000	62000	62000	65000	62000
2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	4	4
400/3/50																	
22.93	25.73	26.43	30.02	32.63	46.66	52.66	53.66	60.86	66.06	89.54	103.54	103.54	110.74	121.02	131.42	148.22	165.02
54.20	54.20	54.20	54.20	54.20	56.90	56.90	56.90	56.90	56.90	62.30	62.30	62.30	62.30	63.50	63.50	63.50	63.50
1860	1860	1860	1860	1860	2455	2455	2455	2455	2455	3220	3220	3220	3220	4060	4060	4060	4060
780	780	780	780	780	1045	1045	1045	1045	1045	1305	1305	1305	1305	1305	1305	1305	1305
1635	1635	1635	1635	1635	1635	2125	2125	2125	2125	2200	2200	2200	2200	2200	2200	2200	2200
500	500	500	500	500	870	870	870	870	870	1360	1360	1360	1360	1480	1480	1480	1480

502	602	652	702	902	1102
107.87	115.59	123.31	137.26	160.31	183.36
38.75	40.84	44.48	48.98	56.77	64.57
2.78	2.83	2.77	2.80	2.82	2.84
0.50	0.50	0.50	0.50	0.50	0.50
160.23	171.63	183.02	201.34	236.19	271.04
29.46	31.24	34.46	38.52	44.38	50.23
5.44	5.49	5.31	5.23	5.32	5.40
8.50	8.50	8.50	8.50	8.50	8.50
105.4	112.94	120.48	134.11	156.63	179.15
38.75	40.84	44.48	48.98	56.77	64.57
2.72	2.77	2.71	2.74	2.76	2.77
0.50	0.50	0.50	0.50	0.50	0.50
4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
R454B					
Shell & Tube Evaporator					
2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
500	500	750	750	750	750
62000	62000	62000	62000	62000	62000
3	3	4	4	4	4
400/3/50					
103.54	110.74	121.02	131.42	148.22	165.02
62.30	63.50	63.50	63.50	63.50	63.50
3220	3220	4060	4060	4060	4060
1305	1305	1305	1305	1305	1305
2200	2200	2200	2200	2200	2200
1360	1360	1480	1480	1480	1480



Working Parameters:

- (1) Inlet/Outlet water temperature = +12/+7°C, Condenser air temperature= +35°C, Fouling factor= 0.000043 m²K/W
- (2) Inlet/Outlet water temperature = +20/+15°C, Condenser air temperature= +25°C
- 3) Inlet/Outlet water temperature = +12/+7°C, Condenser air temperature= +35°C, 25% Ethylene Glycol



Integrated Free Cooling

Our Aqua EcoPro units incorporate a built-in free cooling coil, resulting in a fully packaged solution.

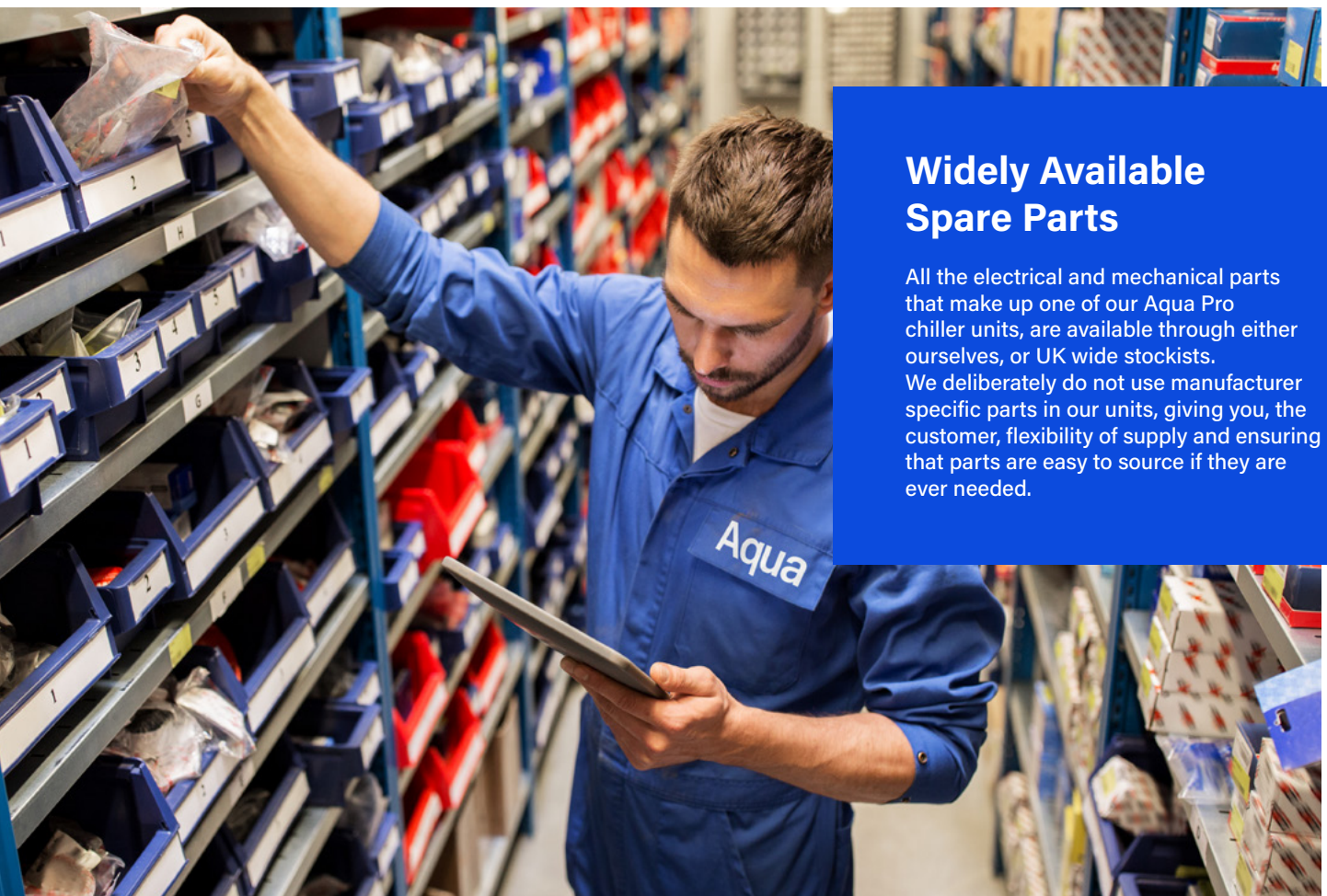
Plus, with an Aqua EcoPro, free cooling is achievable at higher ambient temperatures than with any other chiller brand on the market.

Free cooling delivers impressive year on year cost savings and gives fast payback on investment. Energy bills & maintenance costs dramatically reduce, your chiller lasts longer and the environmental impact of your business is significantly less.

Save up to

80%

on energy bills



Widely Available Spare Parts

All the electrical and mechanical parts that make up one of our Aqua Pro chiller units, are available through either ourselves, or UK wide stockists.

We deliberately do not use manufacturer specific parts in our units, giving you, the customer, flexibility of supply and ensuring that parts are easy to source if they are ever needed.

Extended Warranty

Every Aqua Pro chiller unit, supplied with a Planned Preventative Maintenance agreement, comes with a 3-year warranty, giving you complete peace of mind. As well as benefitting from fixed maintenance costs, you are safeguarding the lifespan of your chiller, saving further over the longer term.



Design Flexibility

An Aqua Pro chiller is highly configurable, depending on the intricacies of your specific process requirements. If your site is based near the sea, we can select a corrosion-resistant finish to the chiller's condenser coil and exterior panelling. For clients working in noise-sensitive environments, due for example to local planning restrictions, we can select low noise fans and soundproofing options. With our larger Aqua Pro+ and Aqua EcoPro+ chiller units, internal tanks, pumps and control valves can be included. This gives them flexibility to be used as standalone units, or as part of a system.





Sales. Hire. Service.

Discover the Aqua
Difference...



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