Aqua

The Temperature Control People.

The Aqua Propane Range

Introducing our sustainability hero

Aqua Propane

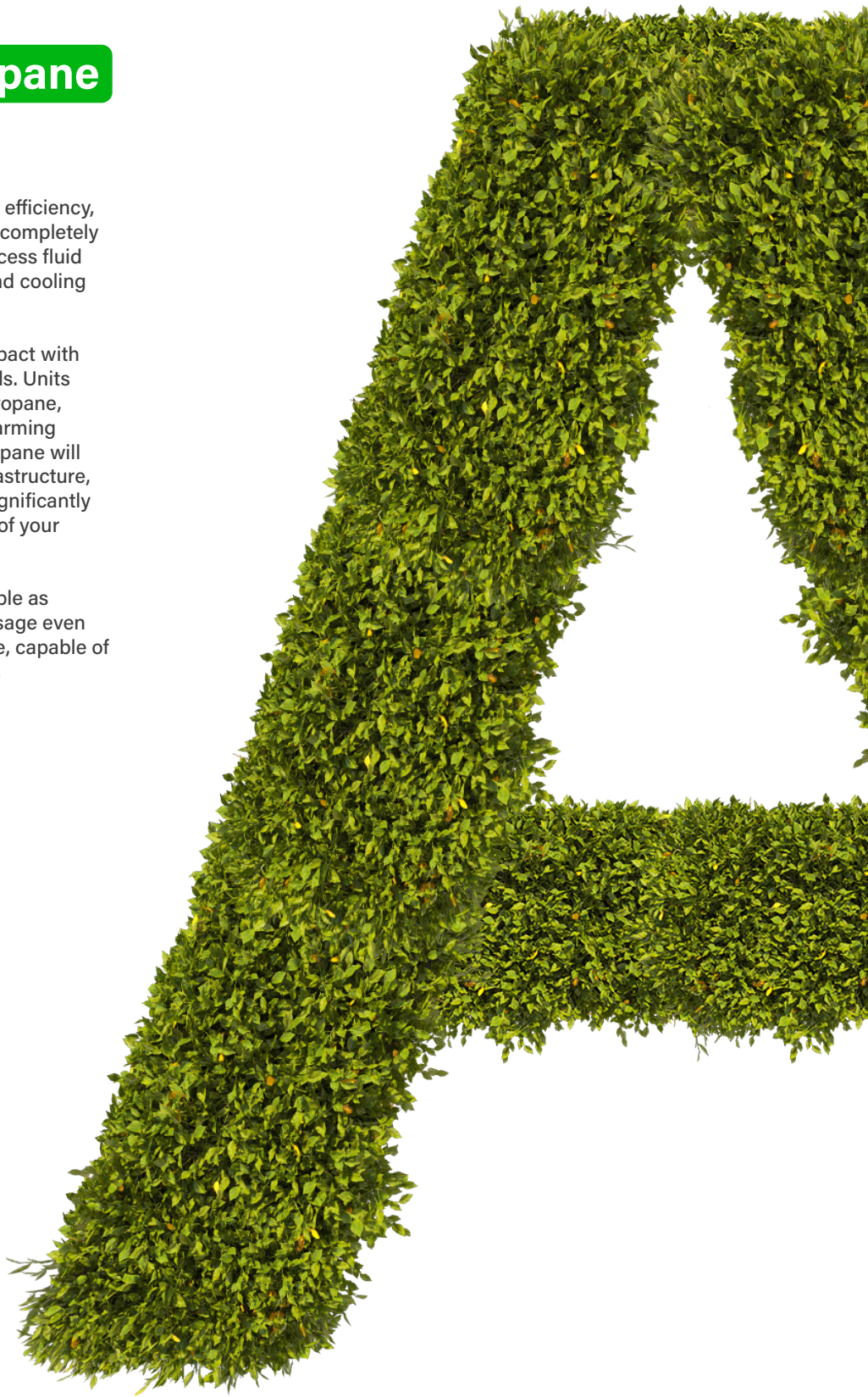
Aqua Propane chillers bring together efficiency, reliability, and sustainability into one completely packaged unit. The range covers process fluid temperatures from -30°C to +20°C and cooling capacities from 14kW to 1MW.

The Aqua Propane also makes an impact with it's impressive eco-friendly credentials. Units operate on R290, refrigerant grade propane, a natural refrigerant with a Global Warming Potential (GWP) of < 3. Choosing propane will future proof your cooling system infrastructure, keep your operating costs low and significantly impact the sustainability credentials of your business.

Fully integrated free cooling is available as standard, reducing costs & energy usage even further. Heat recovery is also possible, capable of achieving water temperature of 65°C.

NATURAL REFRIGERANT

PROPANE R290



Aqua Propane

Features and Benefits

Natural R290 refrigerant with zero Ozone Depletion Potential (ODP).

Operates with fluid temperatures from -30°C to +20°C.

Powder coated, galvanised steel frame.

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

Electronic expansion valves to maximise efficiency.

Atex rated compressor, extractor fan & sensor.

- 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
- 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

Integrated Free Cooling

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

Natural Refrigerant

Aqua Propane units are supplied with R290

Technical Specification

Aqua Propane		FAR 014	FAR 015	FAR 018	FAR 020	FAR 025	FAR 028	FAR 032	FAR 036	FAR 042	FAR 051	FAR 057	FAR 064
Nominal Cooling Capacity (1)	kW	9.57	11.41	12.53	14.88	17.47	20.54	24.56	27.00	30.43	35.87	40.21	44.41
Total Absorbed Power (1)	kW	3.86	4.37	4.82	5.64	7.07	8.00	9.41	9.90	11.29	12.70	16.02	17.44
EER (1)	-	2.48	2.61	2.60	2.64	2.47	2.57	2.61	2.73	2.70	2.82	2.51	2.55
Nominal Cooling Capacity (2)	°C	14.19	16.92	18.59	22.14	26.05	30.53	36.54	40.32	45.29	53.56	60.03	66.30
Total Absorbed Power (2)	kW	3.42	3.98	4.23	4.92	6.25	7.04	8.26	9.14	9.95	11.82	14.82	16.13
EER (2)	-	4.15	4.25	4.39	4.50	4.17	4.34	4.42	4.41	4.55	4.53	4.05	4.11
Nominal Cooling Capacity (3)	kW	9.35	11.14	12.24	14.54	17.07	20.07	23.99	26.38	29.73	35.04	39.29	43.39
Total Absorbed Power (3)	kW	3.86	4.37	4.82	5.64	7.07	8.00	9.41	9.90	11.29	12.70	16.02	17.44
EER (3)	-	2.42	2.55	2.54	2.58	2.41	2.51	2.55	2.66	2.63	2.76	2.45	2.49
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
Refrigerant	R	R290											
Type of Evaporator	-	SHELL & TUBE EVAPORATOR											
Tank Volume	Ltrs	120	120	120	120	190	190	190	190	190	190	250	250
Total Air Flow	m^3/h	6500	6500	6500	6500	13000	13000	13000	13000	13000	13000	31000	31000
Fans	nr.	1	1	1	1	2	2	2	2	2	2	2	2
Electric Feed	V/Ph/Hz	400/3/50											
Sound Pressure	dB(A)	54.50	54.50	54.50	55.40	55.40	55.40	55.40	55.40	55.40	55.40	58.30	58.30
Length	mm	1410	1410	1410	1410	1860	1860	1860	1860	1860	1860	1860	2455
Width	mm	755	755	755	755	780	780	780	780	780	780	1045	1045
Height	mm	1580	1580	1580	1580	1635	1635	1635	1635	1635	1635	2125	2125
Weight Operating	kg	425	425	425	425	520	520	520	520	520	520	900	900

Aqua EcoPropane		FAR 014	FAR 015	FAR 018	FAR 020	FAR 025	FAR 028	FAR 032	FAR 036	FAR 042	FAR 051	FAR 057	FAR 064
Nominal Cooling Capacity (1)	kW	9.57	11.41	12.53	14.88	17.47	20.54	24.56	27.00	30.43	35.87	40.21	44.41
Total Absorbed Power (1)	kW	3.86	4.37	4.82	5.64	7.07	8.00	9.41	9.90	11.29	12.70	16.02	17.44
EER (1)	-	2.48	2.61	2.60	2.64	2.47	2.57	2.61	2.73	2.70	2.82	2.51	2.55
Air Tempreature 100% Free Cooling (1)	°C	-1.00	-1.00	-1.00	-1.00	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.00	-0.00
Nominal Cooling Capacity (2)	kW	14.19	16.92	18.59	22.14	26.05	30.53	36.54	40.32	45.29	53.56	60.03	66.30
Total Absorbed Power (2)	kW	3.42	3.98	4.23	4.92	6.25	7.04	8.26	9.14	9.95	11.82	14.82	16.13
EER (2)	-	4.15	4.25	4.39	4.50	4.17	4.34	4.42	4.41	4.55	4.53	4.03	4.11
Air Tempreature 100% Free Cooling (2)	°C	7.00	7.00	7.00	7.00	7.50	7.50	7.50	7.50	7.50	7.50	8.00	8.00
Nominal Cooling Capacity (3)	kW	9.35	11.14	12.24	14.54	17.07	20.07	23.99	26.38	29.73	35.04	39.29	43.39
Total Absorbed Power (3)	kW	3.86	4.37	4.82	5.64	7.07	8.00	9.41	9.90	11.29	12.70	16.02	17.44
EER (3)	-	2.42	2.55	2.54	2.58	2.41	2.51	2.55	2.66	2.63	2.76	2.45	2.49
Air Tempreature 100% Free Cooling (3)	°C	-1.00	-1.00	-1.00	-1.00	-0.50	-0.50	-0.50	-0.50	-0.50	-0.00	-0.00	-0.00
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
Refrigerant	-	R290											
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"
Tank Volume	Ltrs	120	120	120	120	190	190	190	190	190	190	250	250
Total Air Flow	m^3/h	6500	6500	6500	6500	13000	13000	13000	13000	13000	13000	31000	31000
Fans	nr.	1	1	1	1	2	2	2	2	2	2	2	2
Electrical feed	V/Ph/Hz	400/3/50											
Sound Pressure	dB(A)	54.50	54.50	54.50	55.40	55.40	55.40	55.40	55.40	55.40	55.40	58.30	58.30
Length	mm	1410	1410	1410	1410	1860	1860	1860	1860	1860	1860	1860	2455
Width	mm	755	755	755	755	780	780	780	780	780	780	780	1045
Height	mm	1580	1580	1580	1580	1635	1635	1635	1635	1635	1635	1635	2125
Weight Operating	kg	425	425	425	425	520	520	520	520	520	520	520	900

Aqua Propane		FAR 072	FAR 081	FAR 096	FAR 115	FAR 128	FAR 145	FAR 150	FAR 162	FAR 180	FAR 210	FAR 230
Nominal Cooling Capacity (1)	kW	55.76	60.51	66.78	71.73	80.42	88.42	111.52	121.02	133.55	166.36	180.55
Total Absorbed Power (1)	kW	20.55	21.90	23.82	27.44	30.24	33.08	39.29	43.56	47.40	58.63	63.49
EER (1)	-	2.71	2.76	2.80	2.61	2.66	2.69	2.84	2.78	2.82	2.84	2.84
Nominal Cooling Capacity (2)	°C	81.98	88.98	98.18	107.13	120.06	132.59	163.97	177.96	196.36	243.80	264.78
Total Absorbed Power (2)	kW	18.09	19.42	21.05	25.52	27.99	30.62	34.54	38.61	41.89	52.85	56.65
EER (2)	-	4.53	4.58	4.66	4.20	4.29	4.33	4.75	4.61	4.69	4.61	4.67
Nominal Cooling Capacity (3)	kW	54.48	59.12	65.24	70.09	78.58	86.78	108.96	118.24	130.49	162.54	176.41
Total Absorbed Power (3)	kW	20.55	21.90	23.82	27.44	30.24	33.08	39.29	43.56	47.40	58.63	63.49
EER (3)	-	2.65	2.70	2.74	2.55	2.60	2.62	2.77	2.71	2.75	2.77	2.78
Compressor/Circuits/Steps	nr.	1/1/1	1/1/1	1/1/1	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2
Refrigerant	R	R290										
Type of Evaporator	-	SHELL & TUBE EVAPORATOR										
Tank Volume	Ltrs	250	250	250	500	500	500	500	750	750	750	750
Total Air Flow	m^3/h	31000	31000	31000	62000	62000	62000	62000	62000	62000	62000	62000
Fans	nr.	2	2	2	3	3	3	3	4	4	4	4
Electric Feed	V/Ph/Hz	400/3/50										
Sound Pressure	dB(A)	58.30	58.30	63.70	63.70	63.70	63.70	63.80	65.00	65.00	65.00	53.30
Length	mm	2455	2455	3220	3220	3220	3220	3220	4060	4060	4060	4060
Width	mm	1045	1045	1045	1305	1305	1305	1305	1305	1305	1305	1305
Height	mm	2125	2125	2125	2200	2200	2200	2200	2200	2200	2200	2200
Weight Operating	kg	900	900	900	1400	1400	1400	1400	1400	1525	1525	1525

Aqua EcoPropane		FAR 072	FAR 081	FAR 096	FAR 115	FAR 128	FAR 145	FAR 150	FAR 162	FAR 180	FAR 210	FAR 230
Nominal Cooling Capacity (1)	kW	55.76	60.51	66.78	71.73	80.42	88.82	111.52	121.02	133.55	166.36	180.55
Total Absorbed Power (1)	kW	20.55	21.90	23.82	27.44	30.24	33.08	39.29	43.56	47.40	58.63	63.49
EER (1)	-	2.71	2.76	2.80	2.61	2.66	2.69	2.84	2.78	2.82	2.84	2.84
Air Tempreature 100% Free Cooling (1)	°C	-0.00	-0.00	-0.00	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
Nominal Cooling Capacity (2)	kW	81.98	88.98	98.18	107.13	120.06	132.59	163.97	177.96	196.36	243.80	264.78
Total Absorbed Power (2)	kW	18.09	19.42	21.05	25.52	27.99	30.62	34.54	38.61	41.89	52.85	56.65
EER (2)	-	4.53	4.58	4.66	4.20	4.29	4.33	4.75	4.61	4.69	4.61	4.67
Air Tempreature 100% Free Cooling (2)	°C	8.00	8.00	8.00	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50
Nominal Cooling Capacity (3)	kW	54.48	59.12	65.24	70.09	78.58	86.78	108.96	118.24	130.49	162.54	176.41
Total Absorbed Power (3)	kW	20.55	21.90	23.82	27.44	30.24	33.08	39.29	43.56	47.40	58.63	63.49
EER (3)	-	2.65	2.70	2.74	2.55	2.60	2.62	2.77	2.71	2.75	2.77	278
Air Tempreature 100% Free Cooling (3)	°C	-0.00	-0.00	-0.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Compressor/Circuits/Steps	nr.	1/1/1	1/1/1	1/1/1	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2
Refrigerant	-	R290										
Type of Evaporator	-	SHELL & TUBE EVAPORATOR										
Hydraulic Connections	BSP	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
Tank Volume	Ltrs	250	250	250	500	500	500	500	750	750	750	750
Total Air Flow	m^3/h	31000	31000	31000	62000	62000	62000	62000	62000	62000	62000	62000
Fans	nr.	2	2	2	3	3	3	3	4	4	4	4
Electrical feed	V/Ph/Hz	400/3/50										
Sound Pressure	dB(A)	58.30	58.30	63.70	63.70	63.70	63.70	63.80	65.00	65.00	65.00	53.30
Length	mm	2455	2455	2455	3220	3220	3220	3220	4060	4060	4060	4060
Width	mm	1045	1045	1045	1305	1305	1305	1305	1305	1305	1305	1305
Height	mm	2125	2125	2125	2200	2200	2200	2200	2200	2200	2200	2200
Weight Operating	kg	900	900	900	1400	1400	1400	1400	1525	1525	1525	1525

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 Propane units incorporate a built-in free cooling coil, resulting in a fully packaged solution.

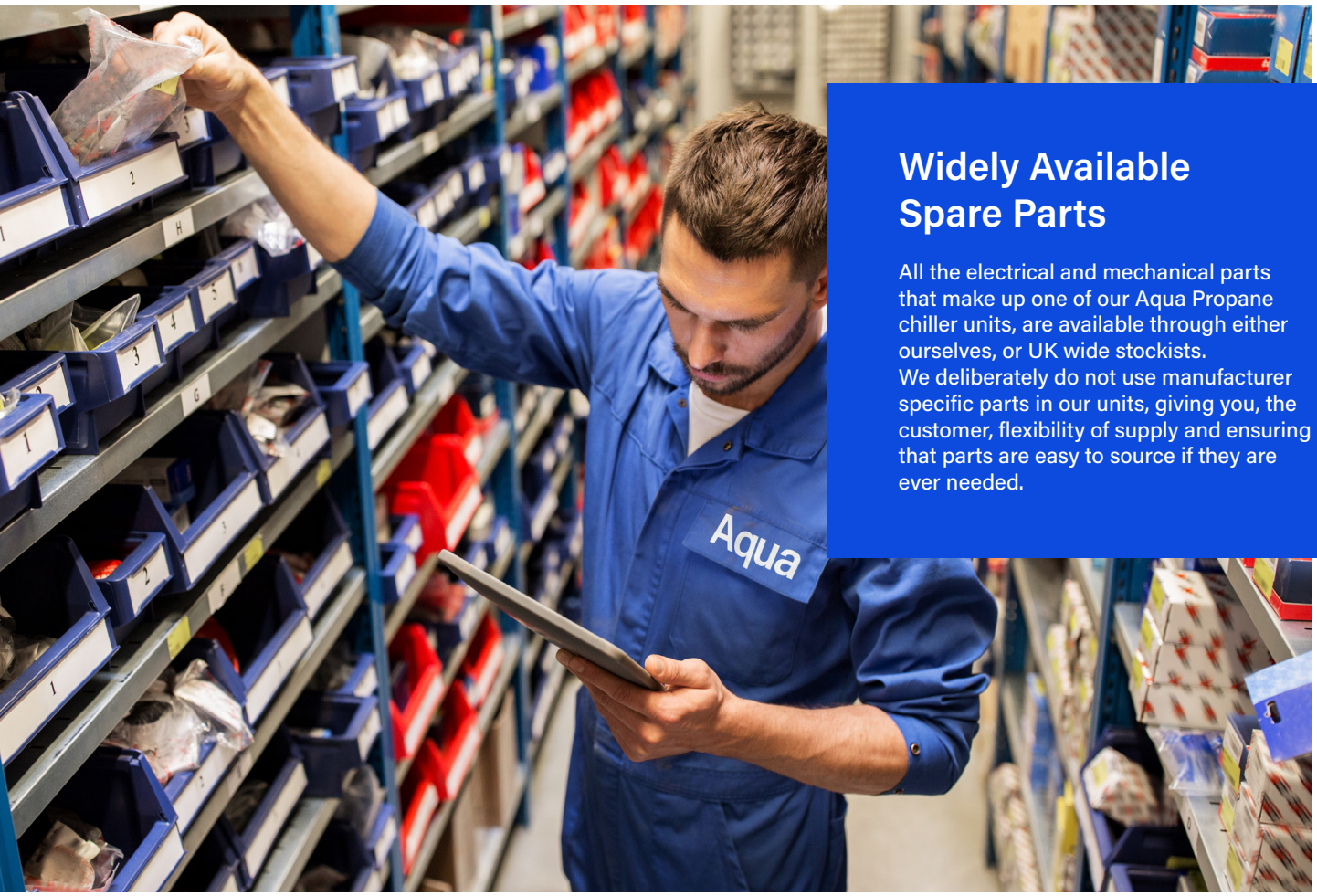
Plus, with an Aqua Propane chiller, free cooling is achievable at higher ambient temperatures than with any other chiller brand on the market.

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

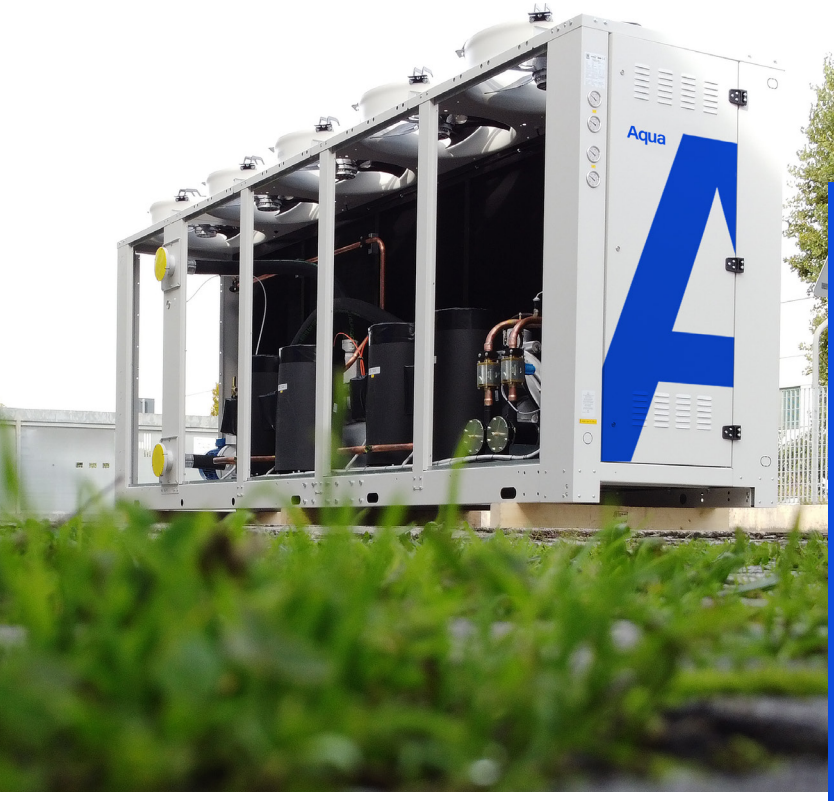


Widely Available Spare Parts

All the electrical and mechanical parts that make up one of our Aqua Propane 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 Propane 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 Propane 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 Propane and Aqua Propane+ 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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