



The application of a chiller in industrial processes offers significant productivity improvements and cost reductions. Aircel's Hydrocel industrial chiller, goes one step further, having been specifically designed for, and together with, industrial users. The cUL listed range couples numerous benefits with extreme flexibility to all individual needs, born from Aircel's extensive industrial cooling knowledge.

Aircel Hydrocel chillers perfectly match the needs of a diverse range of industries and offers precise water temperature control, with numerous benefits.

The Hydrocel was designed for:

- Generous operating conditions regarding both the water inlet and outlet temperature.
- A robust construction with high ambient temperature limits, allowing operation in all conditions worldwide.
- An extensive range of accessories which allows Hydrocel to be personalized to all individual applications.
- A fully packaged and easy to use solution, with integrated pump and tank, perfectly suited to the needs of the industrial User.

Hydrocel Chiller Features

- Closed pressurized water circuit (HC-015 and larger)
- Environmentally friendly refrigerant gas R407C
- Hermetic scroll compressors (HC-065 and larger)
- Microprocessor control
- Large volume buffer tank with finned coil evaporator inside: Shell and tube from HC-005 to HC-010, Finned coil from HC-015 to HC-400
- Air filters on condenser coils (HC-030 and larger)
- Suitable for outdoor installations (HC-015 and larger)
- 40 psi standard (70 psi pump available)
- Centrifugal fluid pumps on all models
- Axial fans

Hydrocel Chiller Benefits

- Microprocessor control designed to modify the unit settings and personalize the chiller management
- Consistent outlet water temperatures
- Large accumulation tank accommodates sudden thermal loads
- Compact foot print
- Flexible use in industrial process cooling
- Higher COP (5.1) thanks to the SCROLL compressors and the oversized heat exchangers
- Simple panel removal for easy access
- Compatible with the latest supervisory systems and BMS interfaces

HC SERIES Hydrocel - Complete Process Water Chillers

Ton Capacity: 0.5 - 40.16
Tank Volume: 6 - 125 (gal)

Standard Voltages (V/Ph/Hz)
HC-005 - HC-010: 230-1-60
HC-015 - HC-400: 460-3-60



HYDROCEL TECHNICAL SPECIFICATIONS



HC SERIES Model Comparison

HC MODEL	TON ¹	Btu/Hr ¹	CONN.	W"	D"	H"	Wt. (lbs) ²	Kw ³	V/PH/Hz	Tank ⁴ (gal)
HC-005	0.5	6,012	1/2" NPT	23	26	32	170	1.38	230/1/60	6
HC-010	0.99	11,904	1/2" NPT	23	26	32	184	2.13	230/1/60	6
HC-015	1.55	18,575	3/4" NPT	22	50	32	280	3.32	460/3/60	15
HC-020	2.04	24,463	3/4" NPT	22	50	32	291	3.71	460/3/60	15
HC-030	3.07	36,847	1" NPT	26	52	55	441	6.13	460/3/60	30
HC-045	4.42	52,991	1" NPT	26	52	55	485	7.85	460/3/60	30
HC-065	6.62	79,495	1-1/2" NPT	30	73	57	730	11.03	460/3/60	35
HC-100	9.85	118,200	1-1/2" NPT	30	73	57	851	15.26	460/3/60	65
HC-120	12.36	148,283	1-1/2" NPT	30	73	57	893	19.07	460/3/60	65
HC-140	13.76	165,129	1-1/2" NPT	30	73	57	917	22.22	460/3/60	65
HC-160	15.89	190,654	2" NPT	34	88	81	1219	26.77	460/3/60	90
HC-180	18.08	216,958	2" NPT	34	88	81	1433	27.69	460/3/60	90
HC-210	21.07	252,808	2" NPT	34	88	81	1631	31.57	460/3/60	90
HC-230	23.16	277,879	2" NPT	34	88	81	1669	38.35	460/3/60	90
HC-290	28.81	345,693	2-1/2" NPT	49	130	84	2745	47.15	460/3/60	125
HC-330	33.1	397,240	2-1/2"	49	130	84	2833	52.35	460/3/60	125
HC-400	40.16	481,885	2-1/2"	49	130	84	2965	60.21	460/3/60	125

¹Capacity based on 45°F CWS, 55°F CWR, 95°F ambient.

²Weight (lbs) less water

³Kw based on total power absorbed by the Compressor, Pump & Fan Motor

⁴Net inside volume of tank in gallons.

Due to a continuous program of product improvement, specification and dimensions are subject to change without notice.

HC SERIES Specifications

HC SERIES Process Water Chillers

Water Outlet Temperature (°F)	30	35	40	45	50	55	60
Corection Factor	0.681	0.787	0.909	1	1.095	1.194	1.271

Ambient Temperature (°F)	70	77	85	90	95	100	105
Correction Factor	1.176	1.123	1.074	1.038	1	0.961	0.921

Ethylene Glycol Solutions	0	10%	20%	30%	40%	50%
Correction Factor	1	0.99	0.98	0.97	0.96	0.93



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