

EXPERIENCE THE  
**ALLIANCE**  
**DIFFERENCE**

# Alliance Cycle Heating Commercial Heat Pump Range

*ALLCH100R410 · ALLCH230R410 · ALLCH370R410 ·  
ALLCH480R410*

- Cost-effective hot water solutions for bulk usage
- COPs of up to 4.6
- Advanced control logic specifically for commercial applications – fast, stable hot water supply
- Eco-friendly R410A refrigerant



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# Alliance Cycle Heating Commercials Heat Pump Range

ALLCH100R410 · ALLCH230R410 · ALLCH370R410  
ALLCH480R410 models

Alliance Cycle Heating Heat Pumps are the economical solution for commercial bulk hot water supply. Their robust design combines innovative technology that drastically reduces the electricity cost of hot water. Each time water cycles through the Heat Pump, temperature is raised by 5° to 10°C until pre-set levels are reached. Advanced control logic ensures a stable hot water supply. Alliance Cycle Heating Heat Pumps: the ideal solution for economical bulk hot water usage. Backed nationwide by Alliance branches in all major metropolitan areas.



Model		ALLCH100R410	ALLCH230R410	ALLCH370R410	ALLCH480R410
Operating air temperature	°C	-15 to 43	-15 to 43	-15 to 43	-15 to 43
Heating Capacity	kW	9.5	23	37	48
Consumed power	kW	2.37	4.84	7.45	9.97
COP		4	4.75	4.96	4.81
Power supply		230V~/50Hz	380~415V/3N~/50Hz	380~415V/3N~/50Hz	380~415V/3N~/50Hz
Max power input	kW	2.86	6.9	10	14.3
Nominal Running current	A	10.3	8.7	13.3	17.8
Rated hot water capacity	L/hr	204	494	795	1031
Controller		5 inch colour touch screen	5 inch colour touch screen	5 inch colour touch screen	5 inch colour touch screen
Heat exchanger		Patented tube in shell	Patented tube in shell	Patented tube in shell	Patented tube in shell
Compressor quantity		1	1	2	2
Compressor type		Rotary	Rotary	Rotary	Rotary
Refrigerant		R410a	R410a	R410a	R410a
Fan quantity		1	2	2	2
Fan power input	W	60	2 x 75	2 x 200	2 x 200
Fan rotary speed	RPM	840	800	700	800
Fan direction		Horizontal	Horizontal	Vertical	Vertical
Noise	dB(A)	55	56	57	61
Maximum set temperature	°C	55	55	55	55
Water connection	Inch	1	DN32	DN40	DN40
Nominal water flow	m <sup>3</sup> /h	1.6	4	6.5	8.3
Water pressure drop (max)	kPa	60	129	64	110
Unit net dimensions (L*W*H)	mm	1048*445*605	1000*395*1315	1700*800*1735	1700*800*1735
Unit shipping dimensions (L*W*H)	mm	1140*470*745	1070*450*1445	1830*880*1900	1830*880*1900
Net weight	kg	90	152	327	250
Shipping weight	kg	105	175	377	400

Test conditions: Air 20°C / Water 15°C - 55°C

Alliance reserves the right to discontinue or change specifications at any time without notice and without incurring obligation. E&OE.

**Alliance**

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