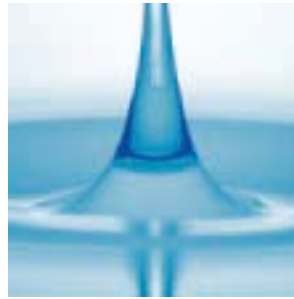


Cooling

10,000Btu/h - 204,000Btu/h
2.93kW - 60.01kW

Heating

10,000Btu/h - 215,000Btu/h
2.93kW - 63.00kW



inverter Hydrotech Mini Chiller

A5ACV 30/55/75/100/135/210 CR

Hydrotech

Water and not refrigerant flows through building pipe work and fan coils, minimising health hazards.

Inverter technology

The inverter compressor is programmed to run at optimum speed, which is regulated by the input frequency and varies according to the heat load requirement.

Energy savings

Energy savings of up to 30% can be achieved compared with fixed speed units.

Advanced control system

Controls allow for individual chiller as well as fan coil unit control.

Long piping lengths

No restriction on maximum allowable lengths and elevations. Additional water pumps boost water flow without capacity loss.

No special fittings required

Standard plumbing fittings mean reduced installation costs.

Multiple indoor units

Provided the chiller capacity is sufficient, there are no restrictions on the number of or type of indoor fan coils that can be connected to a system.

Less refrigerant handling

Pre-charged chiller units require no extra refrigerant adding during installation.

Better room temperature control

Room temperature control using chilled water is very stable. Modulating control valves regulate water flow thereby maintaining a constant temperature.



A5ACV 030CR



A5ACV 55-75CR



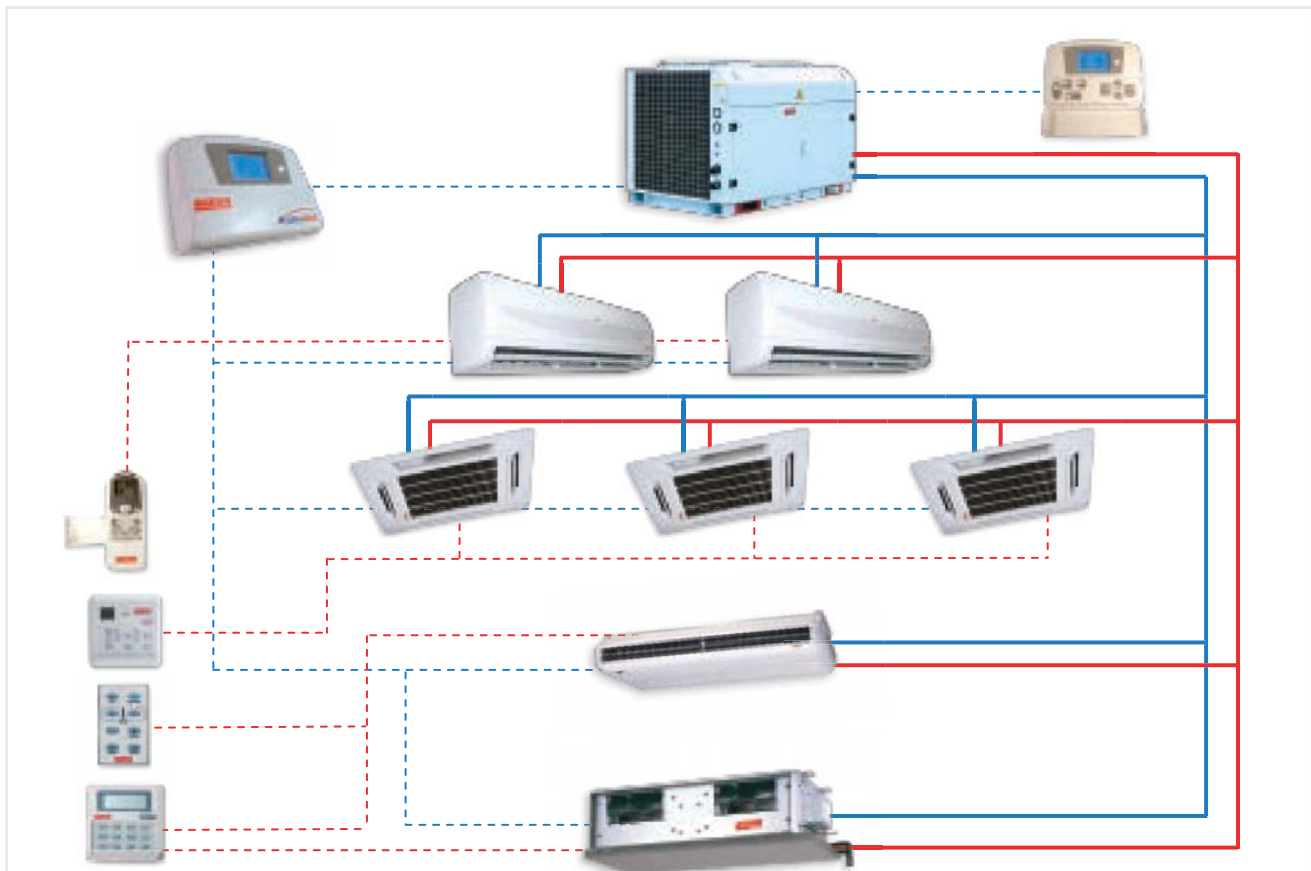
A5ACV 100-210CR

R410A

Fan Coil units

G Series Wall Mount	A & C Series Cassette	RCM Series Ceiling Exposed	ACC Series Ceiling Concealed
			
Cooling 10,000 Btu/h - 21,000 Btu/h 2.93 kW - 6.15 kW	Cooling 9,000 Btu/h - 39,000 Btu/h 2.64 kW - 11.43 kW	Cooling 20,000 Btu/h - 48,000 Btu/h 5.86 kW - 14.07 kW	Cooling 10,000 Btu/h - 54,000 Btu/h 2.93 kW - 15.83 kW
Heating 16,000 Btu/h - 32,000 Btu/h 4.69 kW - 9.38 kW	Heating 20,000 Btu/h - 57,000 Btu/h 5.86 kW - 16.71 kW	Heating 30,000 Btu/h - 67,000 Btu/h 8.79 kW - 19.85 kW	Heating 16,000 Btu/h - 90,000 Btu/h 4.69 kW - 26.38 kW

Example Installation



Inverter Mini Chiller Specifications R410A

MODELS	OUTDOOR UNIT	A5ACV030CR	A5VACV055CR	A5ACV075CR	A5ACV100CR	A5ACV135CR	A5ACV210CR	
Nominal Cooling Capacity	W	7913	14654	20520	27800	38540	58562	
	Btu/h	27000	50000	70000	95000	131500	200000	
Inverter Capacity Range	W	2930 - 11720	7330 - 16120	7330 - 21980	7330 - 35760	7330 - 43960	7330 - 60015	
	Btu/h	10000 - 40000	25000 - 55000	25000 - 75000	25000 - 122000	25000 - 150000	25000 - 204000	
Nominal Heating Capacity	W	9663	16119	21980	29300	41470	61490	
	Btu/h	33000	55000	75000	100000	141500	210000	
Inverter Capacity Range	W	2930 - 11720	7330 - 16120	7330 - 21980	7330 - 35760	7330 - 43960	7330 - 63000	
	Btu/h	10000-40000	25000 - 55000	25000 - 75000	25000 - 122000	25000 - 150000	25000 - 215000	
Nominal Total Power Consumption (Cooling)	W	5279	7600	9050	12000	15750	22300	
Nominal Total Power Consumption (Heating)	W	4418	6100	7900	11400	16250	21800	
Nominal Total Running Current (Cooling)	A	19.9	15.2	16.6	24.4	30.0	44.6	
Nominal Total Running Current (Heating)	A	17.3	13.1	15.4	23.9	31.4	44.6	
Power Source	V/Ph/Hz	220 - 240 / 1 / 50		380 - 420 / 3 / 50				
Refrigerant / Control		R410a Electronic Expansion Valve						
Condenser Fan								
Type / Drive		Propeller / Direct						
Quantity		1	2	2	2	2	2	
Diameter	mm/in	457.2 / 18.0		609.6 / 24.0		660.4 / 26.0	812.8 / 32.0	
Motor Output	W	6 Poles 145	2 x 6 Poles 145	2 x 8 Poles 145	2 x 8 Poles 200	2 x 6 Poles 450	2 x 8 Poles 550	
Compressor								
Type		AC Inverter Scroll			AC Inverter Scroll & Scroll			
Hydraulic Kit								
Pump	Type	Horizontal Multi Stage End Suction						
	Max Water Oper. Pressure	kPa / psi	1000 / 145					
	Water Flow Rate (Cooling)	l/s - m³/hr	0.3 / 1.3	0.7 / 2.5	0.9 / 3.4	1.3 / 4.8	1.8 / 6.6	2.7 (9.6)
	Water Flow Rate (Heating)	l/s - m³/hr	0.4 / 1.5	0.8 / 2.7	1.0 / 3.7	1.4 / 5.0	2.0 / 7.1	2.9 (10.3)
Piping	Connection Size	mm/in	25.4 / 1		31.75 / 1 1/4		38.0 / 1 1/2	
	Head (Cooling)	l/s - m³/hr	7.7	12.7	22.3	17.3	16.5	25
	Head (Heating)	l/s - m³/hr	7.0	11.5	21.3	15.7	14.5	25
Safety Device	High Pressure Switch Open	Pa / Psi	4140 / 600 (Open)		3312 / 480 (Close)			
	Low Pressure Switch Open	Pa / Psi	124 / 18 (Open)		193 / 28 (Close)			
	Phase Protection		Built On Board					
	Discharge Thermostat Setting	°C / °F	110° / 230°					
	Other Safety Devices		Differential Pressure Switch / Anti-freeze Protection Sensor / Over Pressure Relief Valve Anti-Freeze Heater on BHPE / Compressor & Pump Overload Protection					
Dimension	Height	mm/in	790 / 31.1	1410 / 55.5	1460 / 57.5	1260 / 49.6		1786 / 70.3
	Width	mm/in	1010 / 39.8		1150 / 45.3	1500 / 59.1	1800 / 70.9	2093 / 82.4
	Depth	mm/in	460 / 18.1		550 / 21.7	900 / 35.4	1150 / 45.3	1192 / 46.9
Weight	kg / lb	128 / 282	195 / 430	200 / 440	360 / 794	560 / 1235	642 / 1415	
Sound Pressure Level	dba	58	59	65	63	67	85	
Refrigerant Charge	kg / lb	2.1 / 4.6	4.1 / 9.0	4.8 / 10.6	2 x 4.7 / 10.4	2 x 6.0 / 13.2	2 x 9.5 / 20.9	

- All specifications are subject to change by the manufacturer without prior notice
- All units are tested and comply with ISO5151 & ISO13253
- Nominal cooling and heating capacities are based on the conditions below:
 - Cooling +12°C / +7°C Entering / Leaving evaporator water temperature & +35°C Ambient air temperature
 - Heating +40°C / +45°C Entering / Leaving Evaporator water temperature & +7°C Ambient air temperature
- Sound pressure levels according to the JIS B 8615 standard.
Position of the measurement point is 1.0 m in front and 1.0 m below the unit.



HydrolIntel Controller