

PORTABLE CHILLERS

PC-AR Series REMOTE AIR-COOLED

- 5 to 30 Tons Capacity
- Proprietary Microprocessor Control
- Generously Sized Condenser
- Solid State Freezestat Safety Switch
- Brazed Plate Evaporator

The PC-AR series portable chillers are quiet, reliable and economical. Available in a wide range of capacity sizes, these units are perfect for beside the machine applications. Product features include:

TEMPERATURE RANGE

- 20° - 80°F (all other units)

MECHANICAL FEATURES

- Scroll compressor (5-15 ton units)
- Copeland Discus compressor (20-30 ton units)
- Remote air-cool condenser for up to 115° ambient temperatures
- Brazed plate evaporator
- Electronic hot gas bypass for capacity control
- Filter-drier
- Refrigerant sight glass
- Stainless steel process pump (5-15 ton units)
- Centrifugal process pump on 20-30 ton units
- Y-strainer on evaporator
- Insulated polyethylene reservoir with removable cover
- Nonferrous coolant circuit (5-15 ton units)

SAFETY FEATURES

- Solid state Freezestat switch
- Encapsulated high and low refrigerant pressure switches
- Fail safe pressure switch interlocked with compressor
- Internal valved bypass line



PC5-AR shown

ELECTRICAL FEATURES

- NEMA-12 electrical enclosure with single point electrical connection (NEMA-1 on 20-30 ton units)
- Control transformer to provide 115/1/60 control voltage
- Dual LED digital displays of "actual" and "set point" temperatures
- PID control algorithm
- Anti-cycle timer to prevent short-cycling of compressor
- Easily switch between °F and °C
- Diagnostic lights (No Flow, High Refrigerant Pressure, Low Refrigerant Pressure, Freezestat, Under Set Point, Over Set Point, Pump On, Compressor On, Partial Load, High Water Temperature, Probe Fault)
- Switches with indicating lights (Power, Start, Stop, Alarm Reset)

WARRANTY

- 5 year controller, \$175 lifetime exchange policy
- 12 months parts/labor



Engineered Water Systems

PC-AR SERIES SPECIFICATIONS

MODEL		5-AR	8-AR	10-AR	15-AR	20-A	25-AR	30-AR
COMPRESSOR	Capacity ¹	5.5	7	10	14.4	16.7	21.8	24.5
	HP	5	7.5	10	15	20	25	30
	Quantity	1	1	1	1	1	1	1
	Type	scroll	scroll	scroll	scroll	discus	discus	discus
PROCESS PUMP	HP	1 ½	1 ½	1 ½	3	3	3	3
	GPM	12	17	24	35	40	52	59
	PSI	43	40	37	47	48	44	42
CONNECTION SIZE (in)	Process	1 ½	2	2	2	2	2	2
	Liquid	7/8	1 ⅜	1 ⅜	1 ⅜	1 ⅜	1 ⅜	1 ⅜
CONDENSER	Discharge	7/8	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝
	Type	Fan	Fan	Fan	Fan	Fan	Fan	Fan
	Motor Qty.	1	2	2	3	3	4	5
	Motor HP	1/2	1/2	1/2	1/2	1/2	1/2	½
FULL LOAD AMPERAGE	CFM	6400	13500	12500	19200	18000	24000	32000
	230/3/60	36	36	44	80	76	92	104
	460/3/60	18	18	22	40	38	46	52
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22
RESERVOIR CAPACITY	Gallons	11	22	22	20	70	70	70
DIMENSIONS (in)	Height	49 ½	46 ¾	46 ¾	46 ¾	55	55	55
	Width	34	32 ½	32 ½	32 ½	33	33	33
	Depth	44	69 ½	69 ½	69 ½	59	59	59
WEIGHT (Lbs)	Shipping	575	1,200	1,300	1,500	1,900	2,100	2,250

1. Cooling tons based on 12,000 BTU/Hr/ton with 50°F leaving water temperature and 95°F ambient air

