

PORTABLE CHILLERS

PC-AR Series REMOTE AIR-COOLED

- 5 to 40 Tons Capacity
- Proprietary Microprocessor Control
- Generously Sized Condenser
- Nonferrous Water Circuit
- 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

MECHANICAL FEATURES

- Scroll compressor
- 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
- 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



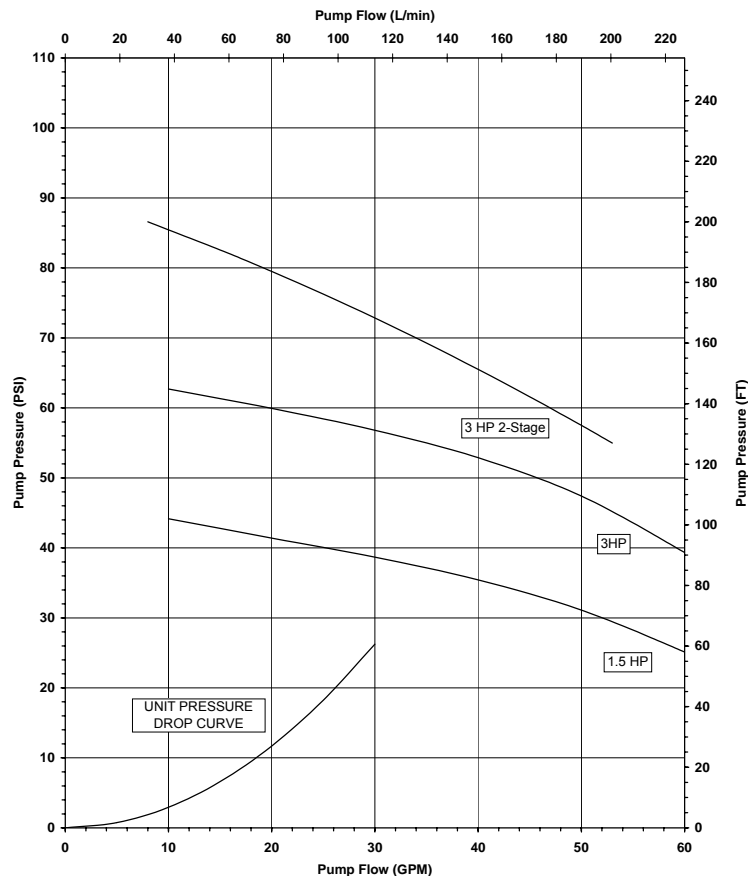
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PC-AR SERIES SPECIFICATIONS

MODEL		5-AR	8-AR	10-AR	15-AR	20-AR	25-AR	30-AR	35-AR	40-AR
COMPRESSOR	Capacity ¹	5.5	7	10	15.9	19.7	24.2	29.3	33.0	38.4
	HP	5	7.5	10	15	20	25	30	25	30
	Quantity	1	1	1	1	1	1	1	1	1
	Type	scroll	scroll	scroll	scroll	discus	discus	discus	discus	discus
PROCESS PUMP	HP	1 ½	1 ½	1 ½	3	3	5	5	5	7 ½
	GPM	12	17	24	35	51	63	75	83	96
	PSI	43	40	37	47	51	67	65	62	63
CONNECTION SIZE (in)	Process	1 ½	2	2	2	2	2	2	2 ½	2 ½
	Liquid	7/8	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝	2 1/8	2 1/8
	Discharge	7/8	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝	2 5/8	2 5/8
CONDENSER	Type	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Fan
	Motor Qty.	1	2	2	3	3	4	5	5	6
	Motor HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	CFM	6400	13500	12500	19200	18000	24000	32000	30000	35850
FULL LOAD AMPERAGE	230/3/60	36	36	44	80	94	116	142	158	176
	460/3/60	18	18	22	40	47	58	71	79	88
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22	22	22
RESERVOIR CAPACITY	Gallons	11	22	22	20	70	70	70	70	70
DIMENSIONS (in)	Height	49 ½	47	47	47	47	47	47	89	89
	Width	34	33	33	33	33	33	33	42	42
	Depth	44	70	70	70	70	70	70	81	81
WEIGHT (Lbs)	Shipping	575	1,200	1,300	1,500	1,900	2,100	2,250	3,400	3,900

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

Pump Curves (60 Hz)

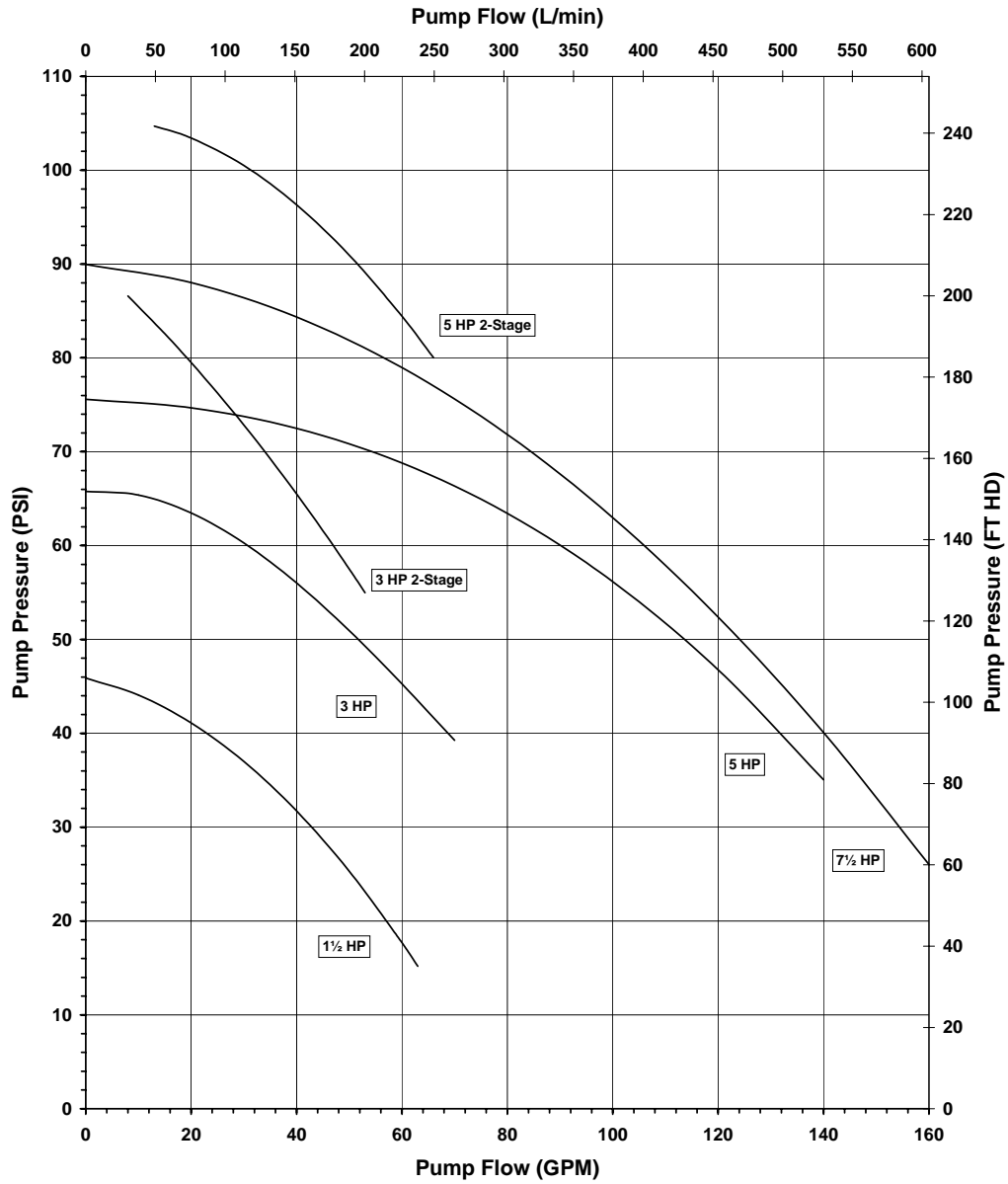


Unit MCA @ 460/3/60

Pump	PC5-AR
1 ½ HP	15
3 HP	17
3 HP, 2-Stage	17

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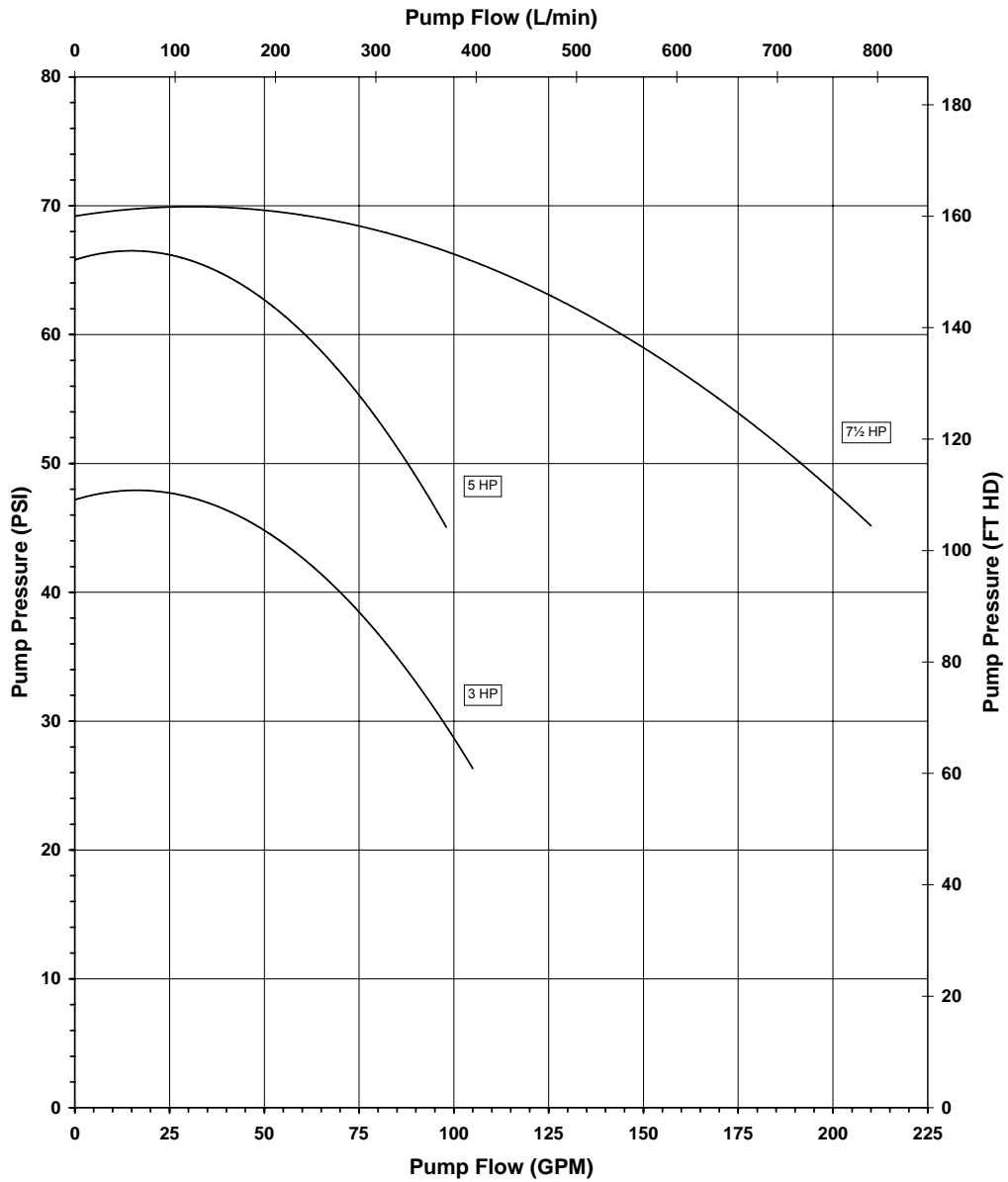
Pump Curves (60 Hz)



Unit MCA @ 460/3/60

Pump	PC8-AR	PC10-AR	PC15-AR
1 1/2 HP	18	22	not available
3 HP	19	24	40
3 HP, 2-stage	19	24	40
5 HP	23	28	44
5 HP, 2-stage	23	28	44
7 1/2 HP	26	31	47

Pump Curves (60 Hz)



Unit MCA @ 460/3/60

Pump	PC20-AR	PC25-AR	PC30-AR
3 HP	38	46	52
5 HP	41	49	55
7 1/2 HP	45	53	59



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