

PORTABLE CHILLERS

PC-A Series AIR-COOLED

- 1 to 25 Tons Capacity
- Proprietary Microprocessor Control
- Generously Sized Condenser
- Nonferrous Water Circuit
- Scroll Compressor
- Brazed Plate Evaporator

The PC-A 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.

TEMPERATURE RANGE

- 30° - 65°F (1 ton unit)
- 20° - 65°F (2 and 3 ton units)
- 20° - 80°F (5 tons and up)

MECHANICAL FEATURES

- Rotary compressor (1 ton unit)
- Scroll compressor (2 tons and up)
- Top discharge fan and cleanable air inlet filter
- Air-cool condenser for up to 115° ambient temperatures (105° on 1, 2, 3 and 5 ton units)
- Brazed plate evaporator
- Electronic hot gas bypass
- Filter-drier
- Refrigerant sight glass
- Stainless steel process pump
- Y-strainer on evaporator
- Insulated polyethylene reservoir with removable cover
- Nonferrous water circuit
- Factory tested under full load prior to shipment

SAFETY FEATURES

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



PC10-A shown

ELECTRICAL FEATURES

- NEMA-12 electrical enclosure with single point electrical connection (NEMA-1 on 1, 2 and 3 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 (1, 2 and 3 ton units)
- 18 months parts, 12 months labor (5-25 ton units)



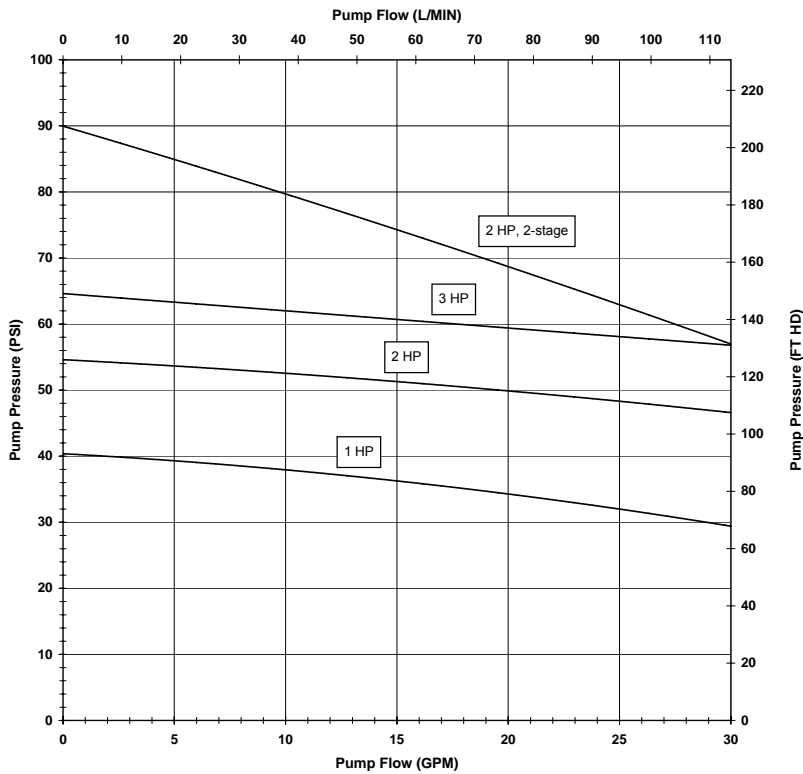
Engineered Water Systems

PC-A SERIES SPECIFICATIONS

MODEL		1-A	2-A	3-A	5-A	8-A	10-A	14-A	15-A	15-AD	20-A	20-AD	25-A	25-AD
COMPRESSOR	Capacity ¹	1	2	3	5.5	7.5	10	13.1	15	15	20	20	23.2	23.2
	HP	1	2	3	5	7.5	10	14	15	15	10	10	10/15	10/15
	Quantity	1	1	1	1	1	1	1	1	1	2	2	2	2
	Type	Rotary	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
PROCESS PUMP	HP	¼	1	1	1 ½	1 ½	1 ½	1 ½	3	3	3	3	5	5
	GPM	2.4	5	7	13	18	24	31	36	36	48	48	56	56
	PSI	8-80	39	38	43	42	40	38	48	48	42	56	74	74
CONNECTION SIZE (in)	Process	1	1	1	1 ½	1 ½	1 ½	1 ½	2	2	2	2	2	2
CONDENSER	Type	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Blower	Fan	Blower	Fan	Blower
	Motor Qty.	1	1	1	1	2	2	2	2	2	2	2	2	2
	Motor HP	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
	CFM	1,100	1,585	2,470	4,400	8,100	8,100	8,100	14,000	14,000	14,000	14,000	14,000	14,000
FULL LOAD AMPERAGE	230/3/60	12 @ 230/1/60	18	24	36	44	52	74	92	98	112	122	134	152
	460/3/60	N/A	9	12	18	22	26	37	46	49	56	61	67	76
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22	22	22	22	22	22	22
RESERVOIR CAPACITY	Gallons	3	11	11	11	22	22	22	70	70	70	70	70	70
DIMENSIONS (in)	Height	33 ¼	41 ½	41 ½	54 ½	54 ½	54 ½	54 ½	93 ½	89 ¼	93 ½	89 ¼	93 ½	89 ¼
	Width	18 ¾	24	24	34 ¼	34 ¼	34 ¼	32 ½	41 ½	41 ½	41 ½	41 ½	41 ½	41 ½
	Depth	27 ¾	39 ⅝	39 ⅝	44	74 ¾	74 ¾	74 ¾	81	81	81	81	81	81
WEIGHT (Lbs)	Shipping	205	390	410	575	950	950	1,000	3,200	3,300	3,300	3,400	3,800	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	PC2-A	PC3-A
1 HP	9	11
2 HP	11	14
2 HP, 2-stage	11	14
3 HP	12	16

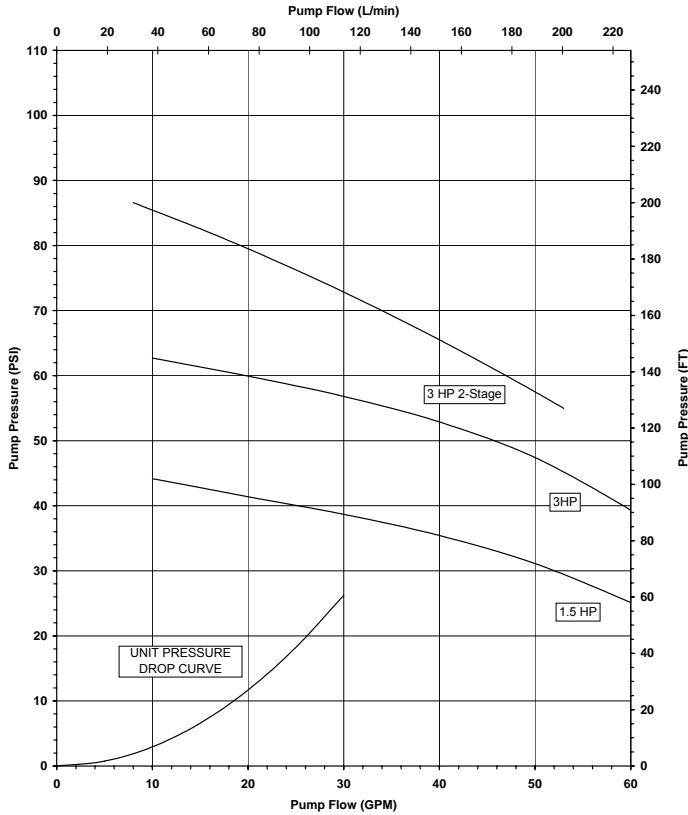


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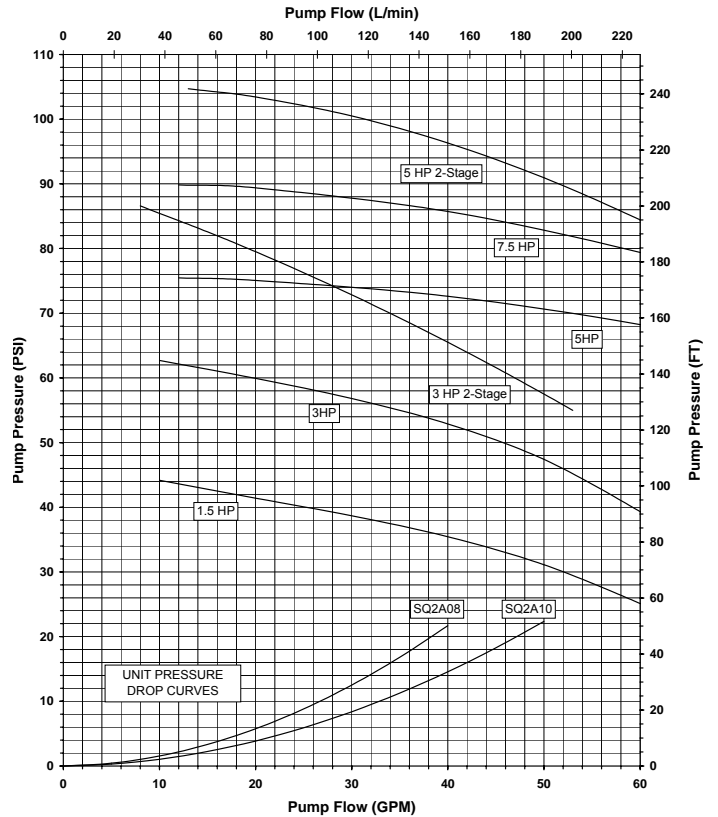
Unit MCA @ 460/3/60

Pump	PC5-A
1½ HP	18
3 HP	19
3 HP, 2-stage	19

Pump Curves (60 Hz)



Pump Curves (60 Hz)



Unit MCA @ 460/3/60

Pump	PC8-A	PC10-A	PC14-A
1½ HP	22	27	37
3 HP	23	28	38
3 HP, 2-stage	23	28	38
5 HP	26	31	41
5 HP, 2-stage	27	32	42
7½ HP	30	35	45

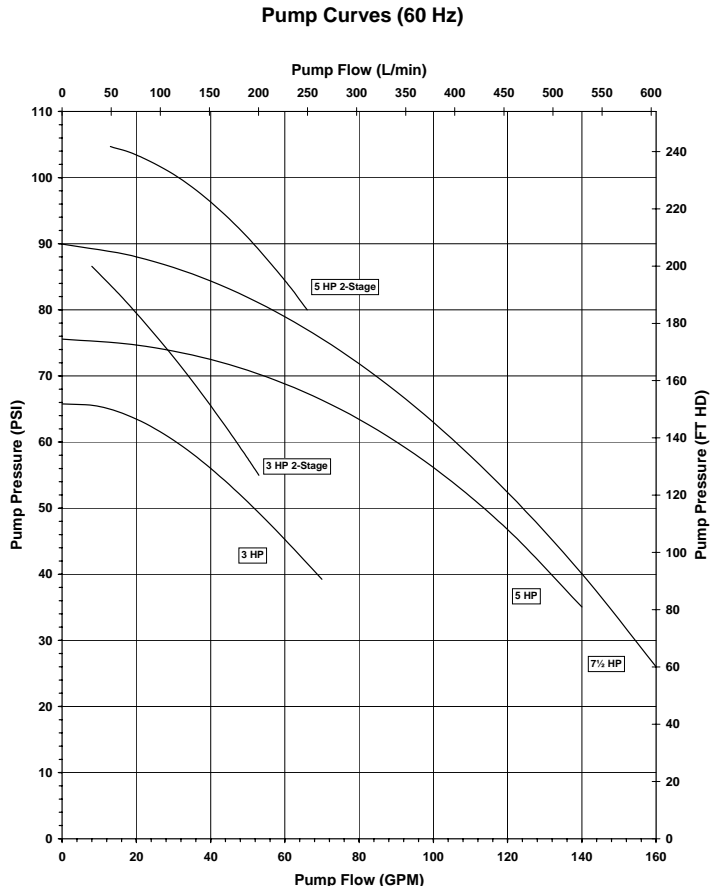
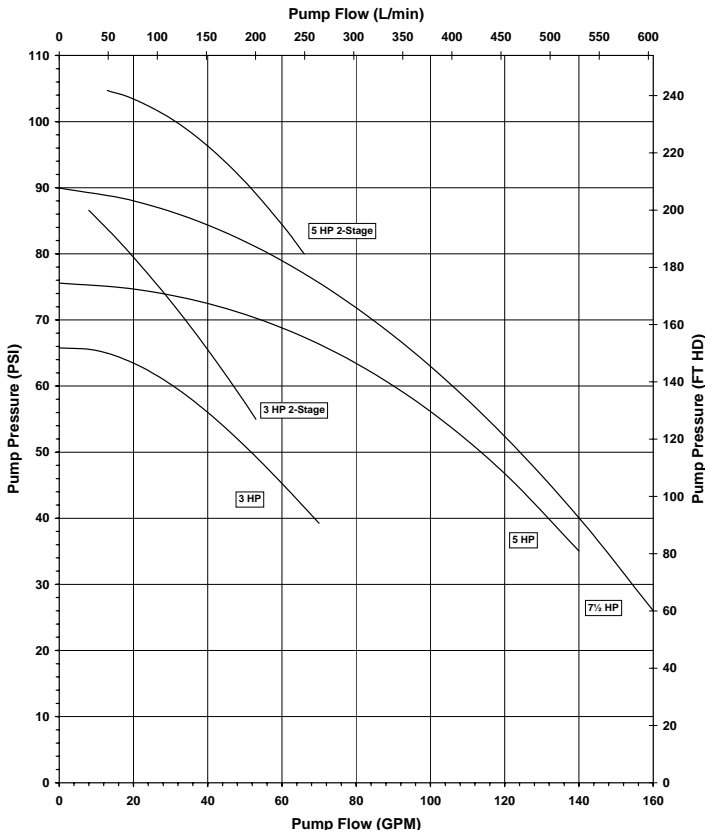


Engineered Water Systems

Unit MCA @ 460/3/60

Pump	PC15-A	PC20-A	PC25-A							
3 HP	46	53	not available							
3 HP, 2-stage	46	53	65							
5 HP	50	68	5 HP, 2-stage	50	57	69	7½ HP	53	60	71
5 HP, 2-stage	50	57	69							
7½ HP	53	60	71							

Pump Curves (60 Hz)



Unit MCA @ 460/3/60

Pump	PC15-AD	PC20-AD	PC25-AD
3 HP	49	61	not available
3 HP, 2-stage	49	61	72
5 HP	53	64	76
5 HP, 2-stage	53	65	76
7½ HP	56	67	79

