

PORTABLE CHILLERS

PC-W Series WATER-COOLED

- 2 to 40 Tons Capacity
- Proprietary Microprocessor Control
- Generously Sized Water Condensers
- Nonferrous Water Circuit
- Solid State Freezestat Safety Switch
- Brazed Plate Evaporator

The PC-W 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° - 65°F (2, 3 ton units)
- 20° - 80°F (all other units)

MECHANICAL FEATURES

- Scroll compressor
- Tube-in-tube water-cooled condenser (2 and 3 ton units)
- Shell-and-tube water-cooled condenser (5-40 ton units)
- Condenser water regulating valve to provide constant head pressure
- Brazed plate evaporator
- Electronic hot gas bypass
- Filter-drier
- Refrigerant sight glass
- Stainless steel process pump (5-15 ton units)
- Y-strainer on evaporator
- Insulated polyethylene reservoir with removable cover
- Nonferrous coolant circuit
- Factory tested under full load prior to shipment

SAFETY FEATURES

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



PC3-W shown

ELECTRICAL FEATURES

- NEMA-12 electrical enclosure with single point electrical connection (NEMA-1 on 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 (2 and 3 ton units)
- 18 months parts, 12 months labor (5-30 ton units)



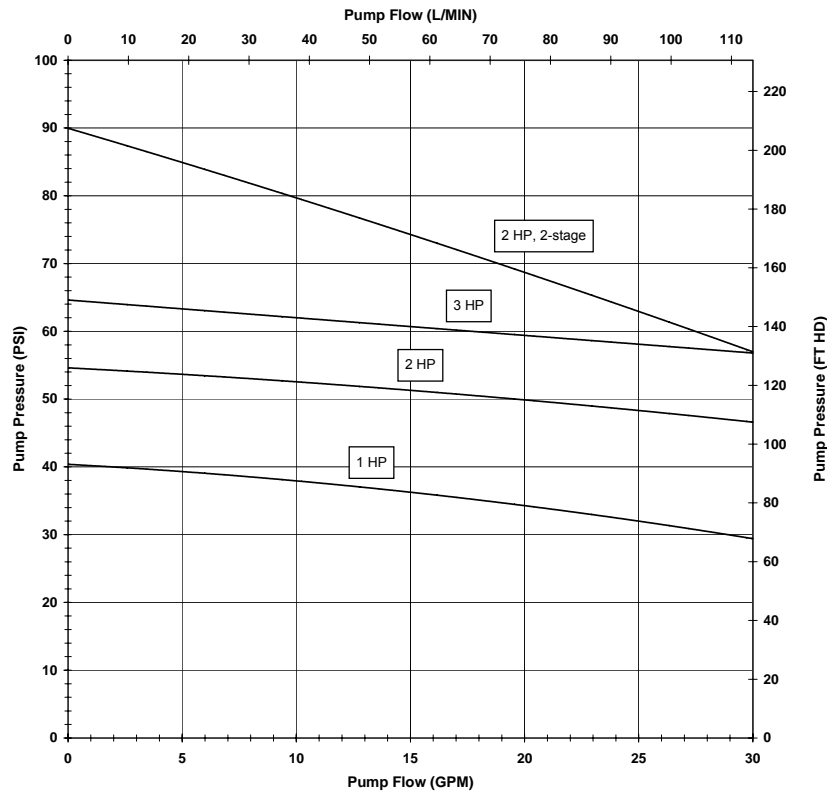
Engineered Water Systems

PC-W SERIES SPECIFICATIONS

MODEL		2-W	3-W	5-W	8-W	10-W	15-W	20-W	25-W	30-W	35-W	40-W
COMPRESSOR	Capacity ¹	2.2	3.3	5.5	7.7	10.8	15.9	21.2	26.2	31.4	36.4	40.7
	HP	2	3	5	7.5	10	15	20	25	30	35	40
	Quantity	1	1	1	1	1	1	1	1	1	1	1
	Type	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
PROCESS PUMP	HP	1	1	1 ½	1 ½	1 ½	3	3	5	5	5	7 ½
	GPM	5	8	13	19	26	37	51	63	75	83	96
	PSI	39	37	43	41	40	56	51	67	65	62	63
CONNECTION SIZE (in)	Process	1	1	1 ½	1 ½	1 ½	2	2	2	2 ½	2 ½	2 ½
	Condenser	1	1	1	1 ½	1 ½	1 ½	2 ½	2 ½	2 ½	2 ½	3
CONDENSER	Type ²	T-T	T-T	S-T	S-T	S-T	S-T	S-T	S-T	S-T	S-T	S-T
	GPM	7	11	17	23	33	47	64	79	93	105	120
FULL LOAD AMPERAGE	230/3/60	16	20	30	36	44	80	76	92	104	92	104
	460/3/60	8	10	15	18	24	40	47	58	71	79	88
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22	22	22	22	22
RESERVOIR CAPACITY	Gallons	11	11	11	22	22	20	70	70	70	70	70
DIMENSIONS (in)	Height	36 ¾	36 ¾	49 ½	49 ½	49 ½	46 ¾	55	55	55	89	89
	Width	24	24	34	34	34	32 ½	33	33	33	42	42
	Depth	39 ¾	39 ¾	44	44	44	69 ½	59	59	59	81	81
WEIGHT (Lbs)	Shipping	390	410	575	950	950	1,500	1,900	2,100	2,250	3,400	3,900

- Cooling tons based on 12,000 BTU/Hr/ton with 50°F leaving water temperature and 95°F ambient air
- T-T – Tube-in-tube water-cooled condenser, S-T – Shell-and-tube water-cooled condenser

Pump Curves (60 Hz)



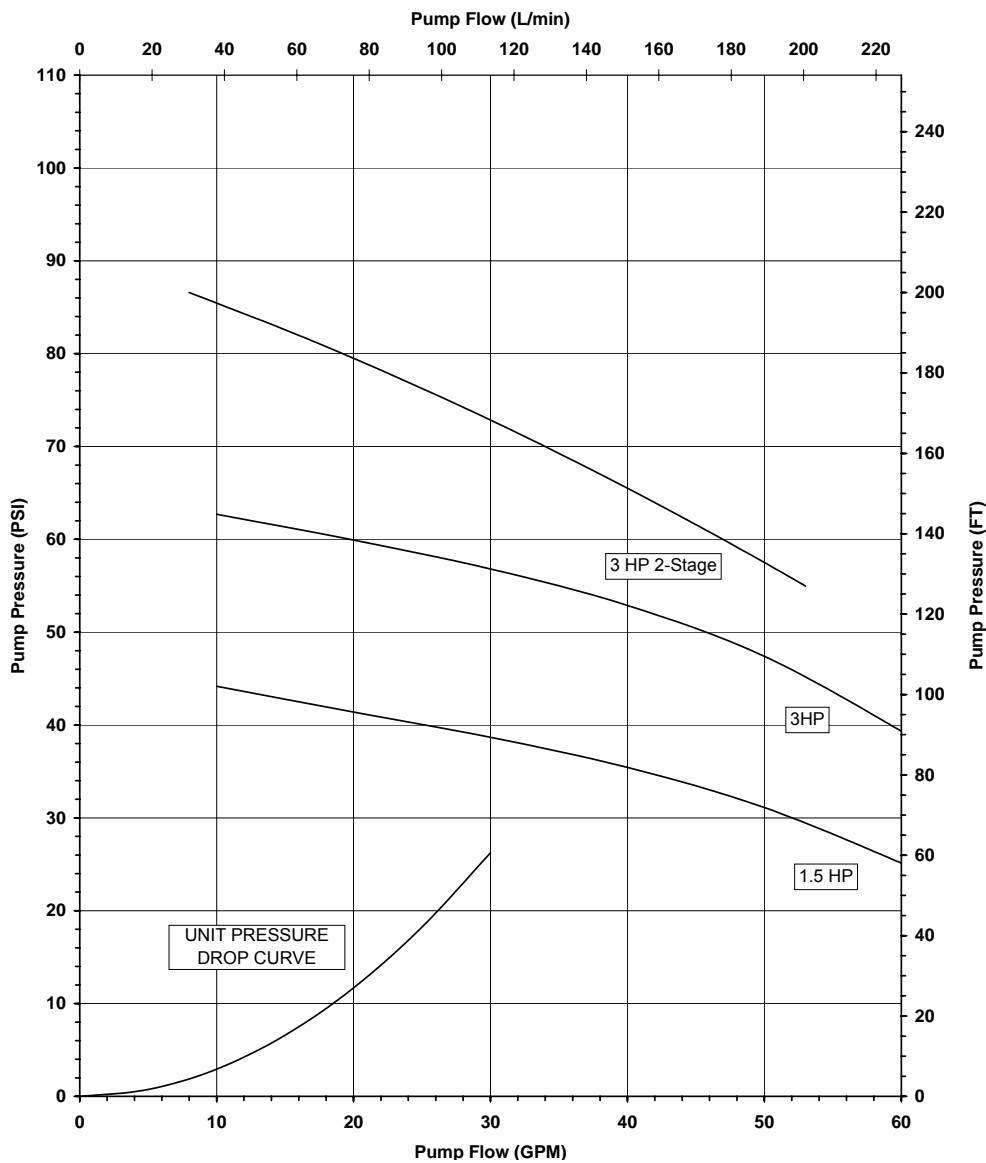
Unit MCA @ 460/3/60

Pump	PC2-W	PC3-W
1 HP	8	11
2 HP	10	13
2 HP, 2-stage	11	13
3 HP	12	14



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Pump Curves (60 Hz)



Unit MCA @ 460/3/60

Pump	PC5-W
1½ HP	15
3 HP	17
3 HP, 2-Stage	17

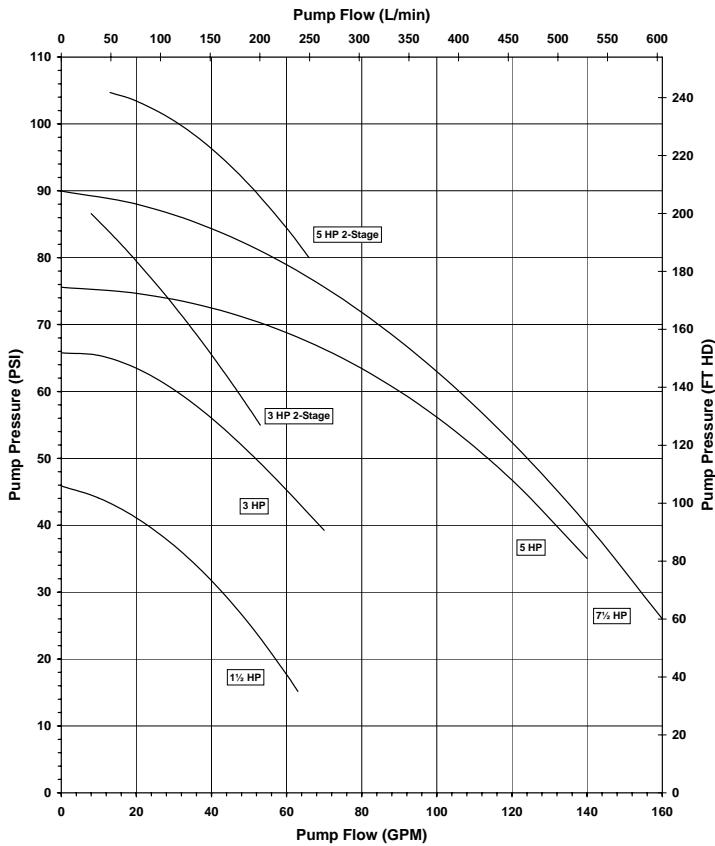


Engineered Water Systems

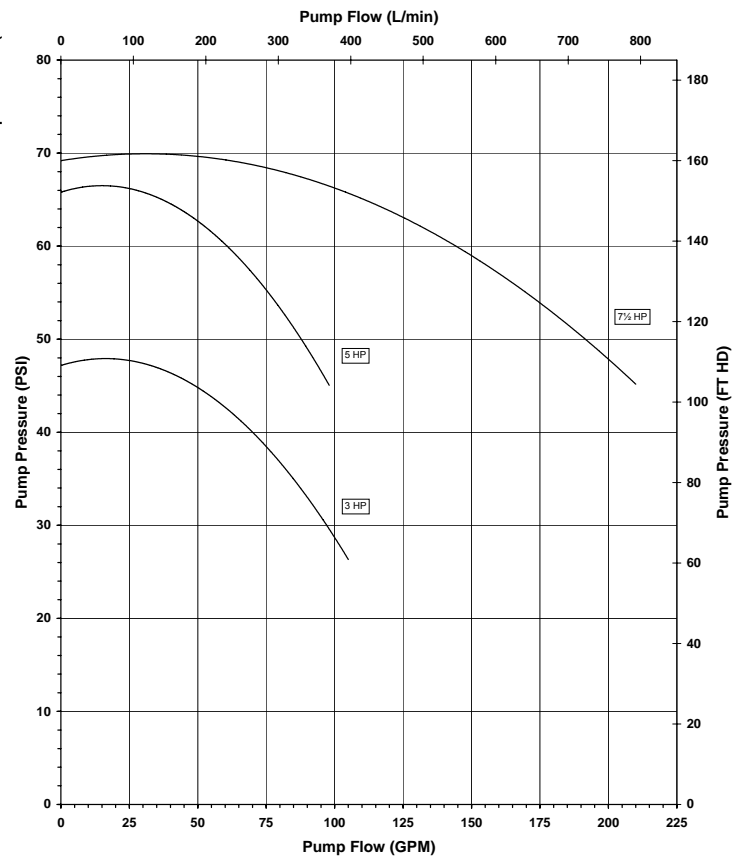
Unit MCA @ 460/3/60

Pump	PC8-W	PC10-W	PC15-W
1½ 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
7½ HP	26	31	47

Pump Curves (60 Hz)



Pump Curves (60 Hz)



Unit MCA @ 460/3/60

Pump	PC20-W	PC25-W	PC30-W
3 HP	38	46	52
5 HP	41	49	55
7½ HP	45	53	59

