

PORTABLE CHILLERS

PC-W Series WATER-COOLED

- 2 to 30 Tons Capacity
- Proprietary Microprocessor Control
- Generously Sized Water Condensers
- 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 and 3 ton units)
- 20° - 80°F (all other units)

MECHANICAL FEATURES

- Scroll compressor (2-15 ton units)
- Copeland Discus compressor (20-30 ton units)
- Tube-in-tube water-cooled condenser (2, 3 and 5 ton units)
- Shell-and-tube water-cooled condenser (8-30 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 (5-15 ton units)
- 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)

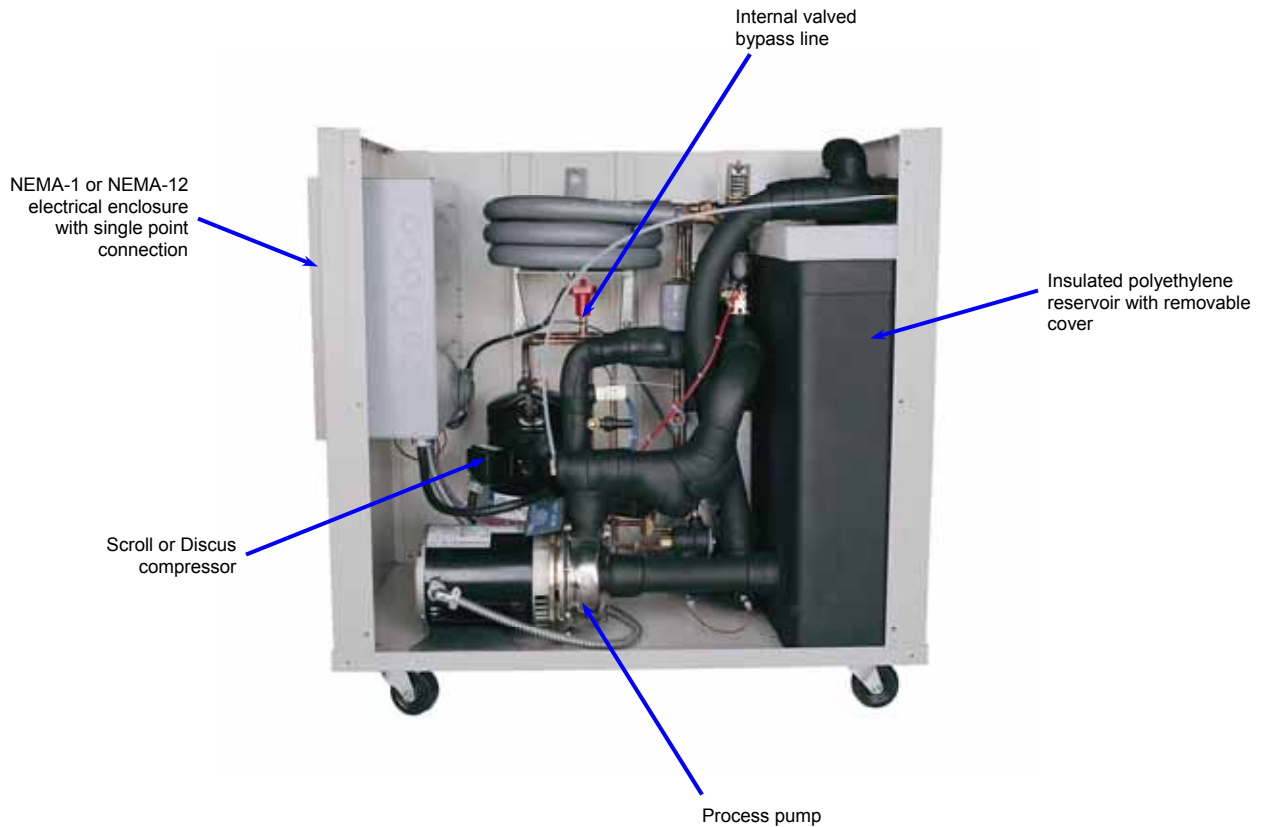


Engineered Water Systems

PC-W SERIES SPECIFICATIONS

MODEL		2-W	3-W	5-W	8-W	10-W	15-W	20-A	25-A	30-W
COMPRESSOR	Capacity ¹	2.2	3.3	5.8	7.5	10.6	15.5	18.6	24.2	27.2
	HP	2	3	5	7.5	10	15	20	25	30
	Quantity	1	1	1	1	1	1	1	1	1
	Type	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
PROCESS PUMP	HP	1	1	1 ½	1 ½	1 ½	3	3	3	3
	GPM	5	8	14	18	25	37	45	58	65
	PSI	39	37	43	39	37	46	47	43	41
CONNECTION SIZE (in)	Process	1	1	1 ½	2	2	2	2	2	2 ½
	Condenser	1	1	1	1 ½	1 ½	1 ½	2	2 ½	2 ½
CONDENSER	Type ²	T-T	T-T	T-T	S-T	S-T	S-T	S-T	S-T	S-T
	GPM	7	11	14	23	32	47	56	73	82
FULL LOAD AMPERAGE	230/3/60	16	20	30	36	44	80	76	92	204
	460/3/60	8	10	15	18	22	40	38	46	52
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22	22	22
RESERVOIR CAPACITY	Gallons	11	11	11	22	22	20	70	70	70
DIMENSIONS (in)	Height	36 ½	36 ½	49 ½	46 ¾	46 ¾	46 ¾	55	55	55
	Width	24	24	34	32 ½	32 ½	32 ½	33	33	33
	Depth	39 ½	39 ½	44	69 ½	69 ½	69 ½	59	59	59
WEIGHT (Lbs)	Shipping	390	410	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
 2. T-T – Tube-in-tube water-cooled condenser, S-T – Shell-and-tube water-cooled condenser



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