

PORTABLE CHILLERS**Thermolator® PC Series Air and Water-Cooled****RELIABLE,
EFFICIENT AND
AFFORDABLE
COOLING**

Model PCA-25

Model PCW-7.5

Thermolator PC-Series portable chillers are quality engineered by Conair for year-round, 24/7 operation under the harshest of industrial conditions. Combine that with a compact design, state-of-the-art temperature controls and Conair's exclusive 3-year warranty and it adds up to the best line of chillers available today.

Designed with a large assortment of options so you decide on the feature sets you need, Conair chillers are also the most flexible choice in the industry.

Affordably priced, full-featured product line

Twelve Conair Thermolator Series PC air cooled portable models are available from 1.2 to 28.8 nominal tons. In addition, there are 11 water cooled models from 1.4 to 29.7 nominal tons. An extensive line at attractive prices.

Each chiller is a complete package, including all necessary refrigeration and water/coolant system components. Just roll them into place, bring 3-phase power to them, make your water connections and they are ready to go.

Easily removed panels and careful component placement result in ease of access and service. And the compact cabinet design takes up to 40% less of your valuable floor space compared to other chillers on the market.

■ ACCURATE TEMPERATURE CONTROL

Multi-function microprocessor/logic controller includes LED display, pump, compressor, hot gas bypass and alarm status lights. Full-featured PLC control system standard on 15 - 30 hp air cooled and 20 - 30 hp water cooled models (optional on other sizes).

■ NON-FERROUS CONSTRUCTION

All chilled water contact surfaces are non-ferrous for protection against corrosion. Pumps and reservoirs are stainless steel. All other wetted surfaces are brass, copper or other non-ferrous materials.

■ RELIABLE, HEAVY DUTY DESIGN

Time proven component suppliers like Copeland, Scot Pump, Sporlan, Ranco, Johnson Controls and Cutler-Hammer have been chosen for ultimate reliability and availability of parts. Each chiller is factory tested under load prior to shipment.

■ UNPARALLELED WARRANTY

Conair is so confident in the Thermolator portable chillers that we include an industry-best warranty for 3 years from date of shipment, including parts and labor. Add 24/7 parts and service support and none can compare.

BUILD YOUR OWN CHILLER

Choose Only the Options You Need

Basic Features (included on all models)



Basic Control – Large LED display of process temperatures. Scroll buttons allows you to display several readouts including setpoint, to process and from process. Selectable control point; choose between to process, from process and average of to process and from process. Three status lights that show, pump, hot gas bypass and compressor.



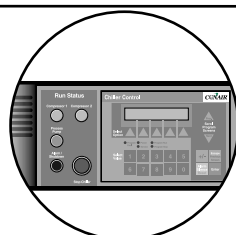
Standard Warranty – Full 3 year parts and labor warranty from the casters up, the best in the industry.



ADDITIONAL FEATURES

- **Controls** – in a NEMA-rated (sealed) enclosure.
- **Brazed Plate Evaporators** – High-surface area, rapid response.
- **Standard Hot Gas Bypass** that relieves all the way down to 25%.
- **Stainless Steel Construction** – Process pump and tank with non-ferrous construction of all wetted surfaces.
- **Compressor Service Valves** – Allows service of refrigeration circuit with out evacuation.

Options



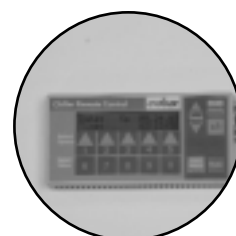
Optional PLC Control – Programmable logic control systems includes automatic fine tuning of PID control parameters, two line LCD display. Readouts include actual temperature, To and From Process, refrigerant suction and discharge pressure. Condenser fan cycling is standard.



Process Water Valves – Factory installed to and from process chilled water valves used to isolate/disconnect the chiller from process. Reduces field installation costs.



Process Pump Pressure Gauge – Provides a mechanical readout of the process pump discharge pressure for roughly estimating flow and detecting pump problems.



Optional Remote PLC Control—Redundant operational interface. Allows for control and readout of chiller locally or up to 50 feet away.



Process Water Bypass with Valves – Includes process water valves and a prepiped, external bypass line with bypass valve for low flow/high delta T processes which would limit flow through the chiller.



Evaporator Strainer – Protects the evaporator from solid contaminants in the process water stream (example: pellets in an open extrusion cooling tank). Bronze construction. Prepiped.

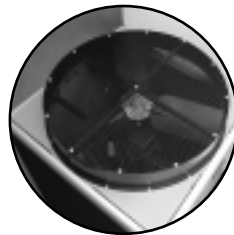
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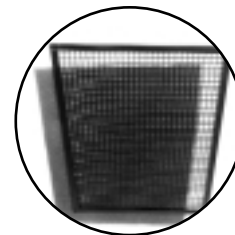
Autofill – Reservoir level sensor and solenoid to allow connection to city water for automatic water make-up. (Not recommended when chiller is charged with Glycol.)



Condenser Fan VFD – Variable frequency condenser fan motor drive matches energy consumption with chiller operating conditions under varying ambient air temperatures and cooling loads.



Vertical Air Discharge – Vertical condenser air discharge directs the condenser air upwards so personnel adjacent to the chiller are not exposed to the warm air stream. Available in size 2 cabinets only.



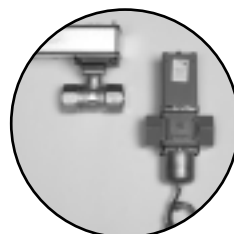
Condenser Air Filter(s) – Recommended when chiller is located in a dusty area. Filters help prevent dirt buildup on condenser surfaces, which can result in reduced capacity or high refrigerant pressure cutout. Filters for size 1 cabinets are disposable. Filters for size 2 cabinets are cleanable.



Alarm Bell – 4 inch bell indicates any chiller fault that may occur.



Alarm Strobe – Highly visible strobe light indicates any chiller fault that may occur.



Condenser Water Regulating Valve – Regulates chiller capacity when the condenser water is below the normal design point of 85°F. This option is *required* if the chiller will be exposed to condenser water temperatures below 80°F.

ADDITIONAL OPTIONS:

- **Dual Pumps** – Includes a second pump dedicated to recirculating water through the evaporator. Standard design is double flow (4.8 gpm/ton) for turbulent flow and increased heat transfer. Also recommended for applications where process flow varies greatly.
- **UL Labeling** – Includes UL labeled electrical enclosure only.
- **High Ambient** – Oversized condenser surfaces and increased air flow allow for operation in ambient temperatures as high as 120°F (115°F for 15 hp model). Includes condenser fan VFD.
- **Hot Gas Bypass Isolation Valve** – Used to shut off the hot gas bypass line and to verify proper operation of the hot gas bypass solenoid valve.
- **Large Selection of Process Pump Sizes** – Allow for various flow and pressure requirements.
- **Evaporator Water Pressure Differential Switch** – Clogged evaporator sensing.
- **Condenser Water Differential Pressure Switch** – Clogged condenser sensing.
- **Condenser Fan Cycling** – Regulates chiller capacity when the ambient air temperature is below the normal design point of 95°F. This option is *required* if the chiller will be exposed to ambient temperatures below 70°F.
- **Cleanable Shell and Tube Condenser** – In lieu of tube-in-tube or brazed plate. Cleanable with removable end bells. Recommended when contaminated water is supplied to the condenser (example: dirty cooling tower water).
- **Condenser Water Strainer** – Helps to protect the condenser from solid contaminants in the condenser water (example: dirty cooling tower water). Cast iron construction.
- **Vertical Air Discharge** – Vertical condenser air discharge directs the condenser air upward so personnel adjacent to the chiller are not exposed to the warm air stream. Available in size 2 cabinets only.
- **Extended Compressor Warranty** – All units include a standard limited warranty covering parts and labor for 3 years from date of shipment. This warranty extension covers the compressor(s) *only* for an additional 2 years. Labor, refrigerant or any other chiller parts are not included during the extended warranty period. Replacement compressor(s) are shipped F.O.B. points of origin, freight collect or freight prepaid and invoiced.

MECHANICAL SPECIFICATIONS

PORTABLE CHILLERS

Air-cooled models PCA-1.5 to PCA-7.5

MODEL	PCA-1.5	PCA-2	PCA-3	PCA-4	PCA-5	PCA-7.5
Performance characteristics						
Nominal capacity* tons {kcal/hr}	1.2 {3,629}	1.8 {5,443}	2.8-3.2 {8,467-9,677}	3.6 {10,886}	4.3-4.7 {13,003-14,213}	6.1-6.9 {18,446-20,865}
High ambient capacity* tons {kcal/hr}	NA	NA	NA	NA	3.8 {11,491}	5.8 {17,539}
Compressor quantity	1	1	1	1	1	1
Compressor Hp {kW}						
Size 1 cabinet	1.5 {1.1}	2.25 {1.7}	3.25 {2.4}	4.0 {3.0}	5.0 {3.7}	7.5 {5.6}
Size 2 cabinet	NA	NA	3.5 {2.6}	NA	5.0 {3.7}	7.5 {5.6}
Standard process pump [†] hp {kW}	0.75 {0.6}	0.75 {0.6}	1 {0.7}	1 {0.7}	1.5 {1.1}	1.5 {1.1}
Standard flow to process [‡] gpm {lpm}	6 {23}	9 {34}	7 {26}	9 {34}	11 {42}	16 {61}
Dual pump flow to process [§] gpm {lpm}	NA	NA	14 {53}	NA	22 {83}	31 {117}
Reservoir capacity gal {l}	8 {30}	15 {57}	15 {57}	15 {57}	15 {57}	25 {95}
Size 1 cabinet condensers						
Fan quantity	1	2	2	2	2	2
Fan hp {kW}	0.17 {0.13}	0.17 {0.13}	0.17 {0.13}	0.25 {0.19}	0.25 {0.19}	0.5 {0.37}
Air flow cfm {lpm}	1,050 {29,733}	1,705 {48,280}	2,420 {68,527}	4,240 {120,064}	4,240 {120,064}	5,300 {150,080}
Size 2 cabinet condensers						
Fan quantity	NA	NA	1	NA	1	1
Fan hp {kW}	NA	NA	1 {0.75}	NA	1.5 {1.1}	1 {0.75}
Air flow cfm {lpm}	NA	NA	2,545 {72,067}	NA	3,700 {104,773}	5,400 {152,912}
Size 2 cabinet condensers, high ambient						
Fan quantity	NA	NA	NA	NA	1	1
Fan hp {kW}	NA	NA	NA	NA	1.5 {1.1}	1.5 {1.1}
Air flow cfm {lpm}	NA	NA	NA	NA	3,725 {105,481}	5,650 {159,991}
Mechanical characteristics						
Size 1 cabinet (See line drawings on page 8)						
A - Height in. {mm}	52 {1,321}	52 {1,321}	52 {1,321}	56.5 {1,435}	56.5 {1,435}	74 {1,880}
B - Width in. {mm}	34 {864}	34 {864}	34 {864}	34 {864}	34 {864}	34 {864}
C - Length in. {mm}	38.5 {978}	38.5 {978}	38.5 {978}	48 {1,219}	48 {1,219}	48 {1,219}
Weight lb {kg} approximate						
Installed	610 {277}	830 {376}	830 {376}	1,030 {467}	1,030 {467}	1,230 {558}
Shipping	750 {340}	1,000 {454}	1,000 {454}	1,200 {544}	1,200 {544}	1,400 {635}
Process connections NPT in. {mm}	1 {25}	1 {25}	1 {25}	1 {25}	1.5 {38}	1.5 {38}
Size 2 cabinet (See line drawings on page 8)						
A - Height in. {mm}	NA	NA	71.5 {1,816}	NA	71.5 {1,816}	97.5 {2,477}
B - Width in. {mm}	NA	NA	35.5 {902}	NA	35.5 {902}	35.5 {902}
C - Length in. {mm}	NA	NA	48 {1,219}	NA	48 {1,219}	48 {1,219}
Weight lb {kg} approximate						
Installed	NA	NA	1,270 {576}	NA	1,370 {621}	1,570 {712}
Shipping	NA	NA	1,100 {499}	NA	1,200 {544}	1,400 {635}
Process connections NPT in. {mm}						
Single pump	NA	NA	1 {25}	NA	1.5 {38}	1.5 {38}
Dual pump	NA	NA	1.5 {38}	NA	2 {51}	2 {51}

SPECIFICATION NOTES:

* Based on supplying 50°F {10°C} water (no antifreeze) to process, standard pump selections, 95°F {35°C} condenser air and 60 Hz operation. High ambient ratings are based on 120°F {49°C} ambient air. Multiply nominal capacities by 0.833 for 50 Hz operation. Adjust capacities up 2% per degree for operation above 50°F {10°C} to a maximum of 65°F {18°C}. Likewise, lower capacities 2% per degree for operation below 50°F {10°C} to a minimum of 20°F {-7°C}. Capacities are +/- 5% based on the compressor manufacturer's ratings and are subject to change without notice. Consult factory for other conditions. Capacities change depending on option selection.

[†] Standard single pump 60 Hz chillers.

[‡] Standard design based on 50°F {10°C} to process with 60°F {16°C} return from process (except PCA-1.5 and PCA-2, which are designed for 55°F {13°C} return from process).

[§] Optional dual pump system includes dedicated process and evaporator recirculation pumps. Standard design is 50°F {10°C} to process with 55°F {13°C} return from process.

MECHANICAL SPECIFICATIONS

PORTABLE CHILLERS

Air-cooled models PCA-10 to PCA-30

MODEL	PCA-10	PCA-13	PCA-15	PCA-20	PCA-25	PCA-30
Performance characteristics						
Nominal capacity* tons	8.75-9.90	10.9	14.0-14.6	19.0-19.9	23.5-24.2	27.7-28.8
{kcal/hr}	{26,460-29,937}	{32,962}	{42,335-44,150}	{57,455-60,177}	{71,063-73,180}	{83,763-87,090}
High ambient capacity* tons {kcal/hr}	8.3 {25,099}	NA	12.5 {37,800}	NA	NA	NA
Compressor quantity	1	1	1	2	2	2
Compressor hp {kW}						
Size 1 cabinet	10 {7.5}	13 {9.7}	NA	NA	NA	NA
Size 2 cabinet	10 {7.5}	NA	15 {11.2}	10 {7.5}	10,15 {7.5,11.2}	15 {11.2}
Standard process pump [†] hp {kW}	1.5 {1.1}	2 {1.5}	2 {1.5}	3 {2.2}	3 {2.2}	5 {3.7}
Standard flow to process [‡] gpm {l/min}	23 {87}	26 {98}	34 {129}	47 {178}	58 {220}	68 {257}
Dual pump flow to process [§] gpm {l/min}	45 {170}	NA	69 {261}	94 {356}	115 {435}	136 {515}
Reservoir capacity gal {l}	25 {95}	25 {95}	25 {95}	46 {174}	46 {174}	46 {174}
Size 1 cabinet condensers						
Fan quantity	2	4	NA	NA	NA	NA
Fan hp {kW}	0.5 {0.37}	0.5 {0.37}	NA	NA	NA	NA
Air flow cfm {l/min}	5,300 {150,080}	9,800 {277,507}	NA	NA	NA	NA
Size 2 cabinet condensers						
Fan quantity	1	NA	1	1	1	1
Fan hp {kW}	1.5 {1.1}	NA	5 {3.7}	7.5 {5.6}	7.5 {5.6}	10 {7.5}
Air flow cfm {l/min}	7,640 {216,342}	NA	11,160 {316,018}	15,680 {444,011}	18,800 {532,360}	22,320 {632,035}
Size 2 cabinet condensers, high ambient						
Fan quantity	1	NA	1	NA	NA	NA
Fan hp {kW}	3 {2.2}	NA	5 {3.7}	NA	NA	NA
Air flow cfm {l/min}	7,800 {220,873}	NA	9,845 {278,781}	NA	NA	NA
Mechanical characteristics						
Size 1 cabinet (See line drawings on page 8)						
A - Height in. {mm}	74 {1,880}	82 {2,083}	NA	NA	NA	NA
B - Width in. {mm}	34 {864}	34 {864}	NA	NA	NA	NA
C - Length in. {mm}	48 {1,219}	48 {1,219}	NA	NA	NA	NA
Weight lb {kg} approximate						
Installed	1,230 {558}	1,440 {653}	NA	NA	NA	NA
Shipping	1,600 {726}	1,800 {816}	NA	NA	NA	NA
Process connections NPT in. {mm}	1.5 {38}	1.5 {38}	NA	NA	NA	NA
Size 2 cabinet (See line drawings on page 8)						
A - Height in. {mm}	97.5 {2,477}	NA	97.5 {2,477}	97.5 {2,477}	97.5 {2,477}	97.5 {2,477}
B - Width in. {mm}	35.5 {902}	NA	35.5 {902}	48 {1,219}	48 {1,219}	48 {1,219}
C - Length in. {mm}	48 {1,219}	NA	48 {1,219}	48 {1,219}	48 {1,219}	48 {1,219}
Weight lb {kg} approximate						
Installed	1,680 {762}	NA	1,730 {785}	1,780 {807}	1,880 {853}	1,980 {898}
Shipping	1,500 {680}	NA	1,550 {703}	1,600 {726}	1,700 {771}	1,800 {816}
Process connections NPT in. {mm}						
Single pump	1.5 {38}	NA	1.5 {38}	2 {51}	2 {51} 2 {51}	
Dual pump	2 {51}	NA	2 {51}	2.5 {64}	2.5 {64}	3 {76}

SPECIFICATION NOTES:

* Based on supplying 50°F {10°C} water (no antifreeze) to process, standard pump selections, 95°F {35°C} condenser air and 60 Hz operation. High ambient ratings are based on 120°F {49°C} ambient air (115°F {46°C}) for PCA-15. Multiply nominal capacities by 0.833 for 50 Hz operation. Adjust capacities up 2% per degree for operation above 50°F {10°C} to a maximum of 65°F {18°C}. Likewise, lower capacities 2% per degree for operation below 50°F {10°C} to a minimum of 20°F {-7°C}. Capacities are +/- 5% based on the compressor manufacturer's ratings and are subject to change without notice. Consult factory for other conditions. Capacities change depending on option selection.

[†] Standard single pump 60 Hz Chillers.

[‡] Standard design based on 50°F {10°C} to process with 60°F {16°C} return from process.

[§] Optional dual pump system includes dedicated process and evaporator recirculation pumps. Standard design is 50°F {10°C} to process with 55°F {13°C} return from process.

MECHANICAL SPECIFICATIONS

PORTABLE CHILLERS Water-cooled models PCW-1.5 to PCW-5

MODEL	PCW-1.5	PCW-2	PCW-3	PCW-4	PCW-5
Performance characteristics					
Nominal capacity* tons {kcal/hr}	1.4 {4,234}	1.9 {5,746}	3.2 {9,677}	4.4 {13,306}	4.9 {14,818}
Compressor quantity	1	1	1	1	1
Compressor hp {kW}					
Size 1 cabinet	1.5 {1.1}	2 {1.5}	3 {2.2}	4 {3.0}	5 {3.7}
Size 2 cabinet	NA	NA	3.5 {2.6}	NA	5 {3.7}
Standard process pump† hp {kW}	0.75 {0.6}	0.75 {0.6}	1 {0.7}	1 {0.7}	1.5 {1.1}
Standard flow to process‡ gpm {l/min}	7 {26}	5 {19}	8 {30}	11 {42}	12 {45}
Dual pump flow to process§ gpm {l/min}	NA	NA	15 {57}	NA	24 {91}
Reservoir capacity gal {l}	8 {30}	15 {57}	15 {57}	15 {57}	15 {57}
Condenser water flow gpm {l/min}	4 {15}	6 {23}	10 {38}	13 {49}	15 {57}
Mechanical characteristics					
Size 1 cabinet (See line drawings on page 8)					
A - Height in. {mm}	52 {1,321}	52 {1,321}	52 {1,321}	52 {1,321}	52 {1,321}
B - Width in. {mm}	34 {864}	34 {864}	34 {864}	34 {864}	34 {864}
C - Length in. {mm}	32.5 {826}	38.5 {978}	38.5 {978}	38.5 {978}	38.5 {978}
Weight lb {kg} approximate					
Installed	420 {191}	585 {265}	585 {265}	840 {381}	840 {381}
Shipping	550 {249}	755 {342}	755 {342}	1,010 {458}	1,010 {458}
Process connections NPT in. {mm}	1 {25}	1 {25}	1 {25}	1 {25}	1.5 {38}
Condenser connections NPT in. {mm}	1 {25}	1 {25}	1 {25}	1 {25}	1.5 {38}
Size 2 cabinet (See line drawings on page 8)					
A - Height in. {mm}	NA	NA	74 {1,880}	NA	74 {1,880}
B - Width in. {mm}	NA	NA	35.5 {902}	NA	35.5 {902}
C - Length in. {mm}	NA	NA	48 {1,219}	NA	48 {1,219}
Weight lb {kg} approximate					
Installed	NA	NA	1,050 {476}	NA	1,180 {535}
Shipping	NA	NA	880 {399}	NA	1,010 {458}
Process connections NPT in. {mm}					
Single pump	NA	NA	1 {25}	NA	1.5 {38}
Dual pump	NA	NA	1.5 {38}	NA	2 {51}
Condenser connections NPT in. {mm}	NA	NA	1 {25}	NA	1.5 {38}

SPECIFICATION NOTES:

* Based on supplying 50°F {10°C} water (no antifreeze) to process, standard pump selections, 85°F {29°C} condenser water supplied at 25 psi {1.7 bar} minimum and 60 Hz operation. Multiply nominal capacities by 0.833 for 50 Hz operation. Adjust capacities up 2% per degree for operation above 50°F {10°C} to a maximum of 65°F {18°C}. Likewise, lower capacities 2% per degree for operation below 50°F {10°C} to a minimum of 20°F {-7°C}. Capacities are +/- 5% based on the compressor manufacturer's ratings and are subject to change without notice. Consult factory for other conditions. Capacities change depending on option selection.

† Standard single pump 60 Hz chillers.

‡ Standard design based on 50°F {10°C} to process with 60°F {16°C} return from process (except PCW-1.5, which is designed for 55°F {13°C} return from process).

§ Optional dual pump system includes dedicated process and evaporator recirculation pumps. Standard design is 50°F {10°C} to process with 55°F {13°C} return from process.

PORTABLE CHILLERS

Water-cooled models PCW-7.5 to PCW-30

MODEL	PCW-7.5	PCW-10	PCW-15	PCW-20	PCW-25	PCW-30
Performance characteristics						
Nominal capacity* tons {kcal/hr}	7.0 {21,168}	9.8-10.2 {29,635-30,845}	14.3-14.9 {43,242-45,057}	19.5-20.4 {58,967-61,690}	24.2-25.3 {73,180-76,507}	28.4-29.7 {85,880-89,811}
Compressor quantity	1	1	1	2	2	2
Compressor hp {kW}						
Size 1 cabinet	7.5 {5.6}	10 {7.5}	15 {11.2}	NA	NA	NA
Size 2 cabinet	7.5 {5.6}	10 {7.5}	15 {11.2}	10 {7.5}	10,15 {7.5,11.2}	15 {11.2}
Standard process pump [†] hp {kW}	1.5 {1.1}	1.5 {1.1}	2 {1.5}	3 {2.2}	3 {2.2}	5 {3.7}
Standard flow to process [‡] gpm {l/min}	17 {64}	24 {91}	36 {136}	49 {185}	61 {231}	71 {269}
Dual pump flow to process [§] gpm {l/min}	34 {129}	49 {185}	71 {269}	98 {371}	121 {458}	143 {541}
Reservoir capacity gal {l}	25 {95}	25 {95}	25 {95}	46 {174}	46 {174}	46 {174}
Condenser water flow gpm {l/min}	21 {79}	31 {117}	44 {167}	61 {231}	76 {288}	89 {337}
Mechanical characteristics						
Size 1 cabinet (See line drawings on page 8)						
A - Height in. {mm}	64 {1,626}	64 {1,626}	64 {1,626}	NA	NA	NA
B - Width in. {mm}	34 {864}	34 {864}	34 {864}	NA	NA	NA
C - Length in. {mm}	48 {1,219}	48 {1,219}	48 {1,219}	NA	NA	NA
Weight lb {kg} approximate						
Installed	1,080 {490}	1,090 {494}	1,095 {497}	NA	NA	NA
Shipping	1,250 {567}	1,260 {572}	1,265 {574}	NA	NA	NA
Process connections NPT in. {mm}	1.5 {38}	1.5 {38}	1.5 {38}	NA	NA	NA
Condenser connections NPT in. {mm}	1.5 {38}	1.5 {38}	1.5 {38}	NA	NA	NA
Size 2 cabinet (See line drawings on page 8)						
A - Height in. {mm}	74 {1,880}	74 {1,880}	74 {1,880}	73.5 {1,867}	73.5 {1,867}	73.5 {1,867}
B - Width in. {mm}	35.5 {902}	35.5 {902}	35.5 {902}	48 {1,219}	48 {1,219}	48 {1,219}
C - Length in. {mm}	48 {1,219}	48 {1,219}	48 {1,219}	48 {1,219}	48 {1,219}	48 {1,219}
Weight lb {kg} approximate						
Installed	1,420 {644}	1,430 {649}	1,480 {671}	1,580 {717}	1,680 {762}	1,780 {807}
Shipping	1,250 {567}	1,260 {572}	1,300 {590}	1,400 {635}	1,500 {680}	1,600 {726}
Process connections NPT in. {mm}						
Single pump	1.5 {38}	1.5 {38}	1.5 {38}	2 {51}	2 {51}	2 {51}
Dual pump	2 {51}	2 {51}	2 {51}	2.5 {64}	2.5 {64}	3 {76}
Condenser connections NPT in. {mm}	1.5 {38}	1.5 {38}	2 {51}	2 {51}	2 {51}	2 {51}

SPECIFICATION NOTES:

* Based on supplying 50°F {10°C} water (no antifreeze) to process, standard pump selections, 85°F {29°C} condenser water supplied at 25 psi {1.7 bar} minimum and 60 Hz operation. Multiply nominal capacities by 0.833 for 50 Hz operation. Adjust capacities up 2% per degree for operation above 50°F {10°C} to a maximum of 65°F {18°C}. Likewise, lower capacities 2% per degree for operation below 50°F {10°C} to a minimum of 20°F {-7°C}. Capacities are +/- 5% based on the compressor manufacturer's ratings and are subject to change without notice. Consult factory for other conditions. Conditions change depending on option selection.

[†] Standard single pump 60 Hz chillers.

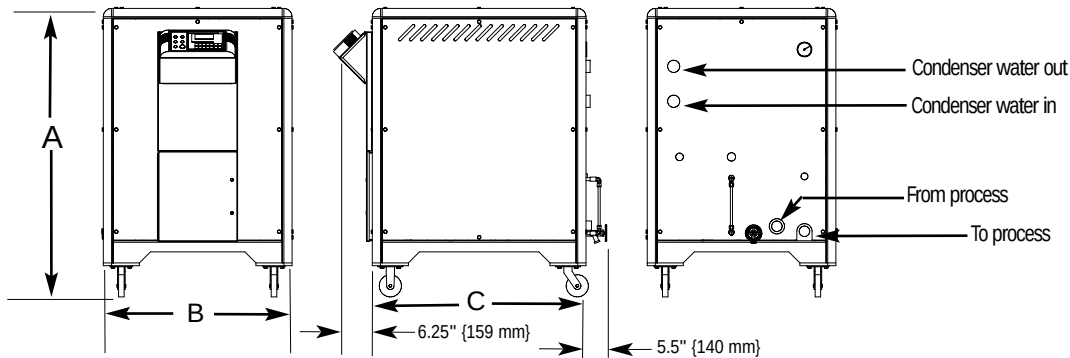
[‡] Standard design based on 50°F {10°C} to process with 60°F {16°C} return from process.

[§] Optional dual pump system includes dedicated process and evaporator recirculation pumps. Standard design is 50°F {10°C} to process with 55°F {13°C} return from process.

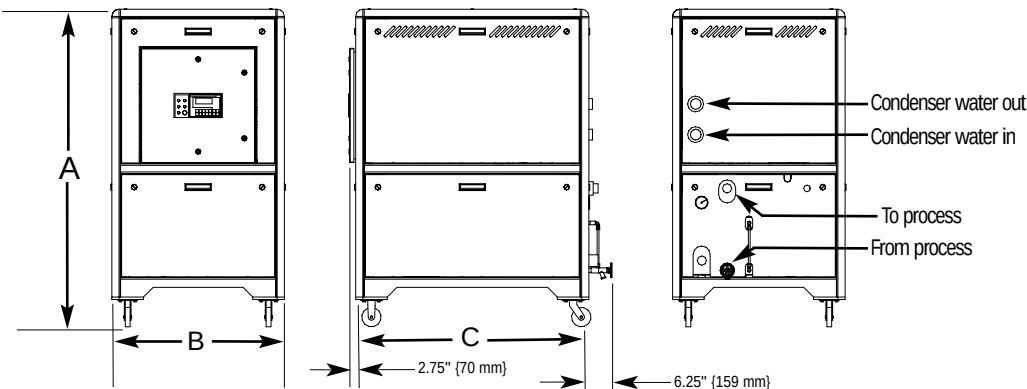
WATER and AIR COOLED DIMENSIONS

PORTABLE CHILLERS

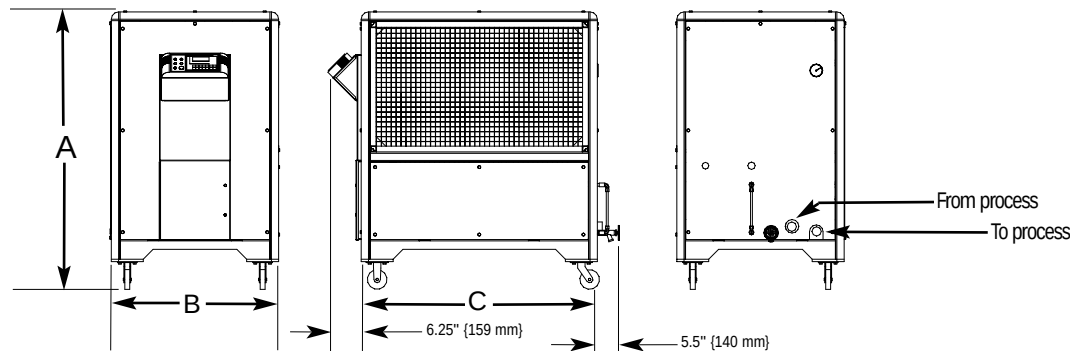
Size 1 Cabinet Water Cooled



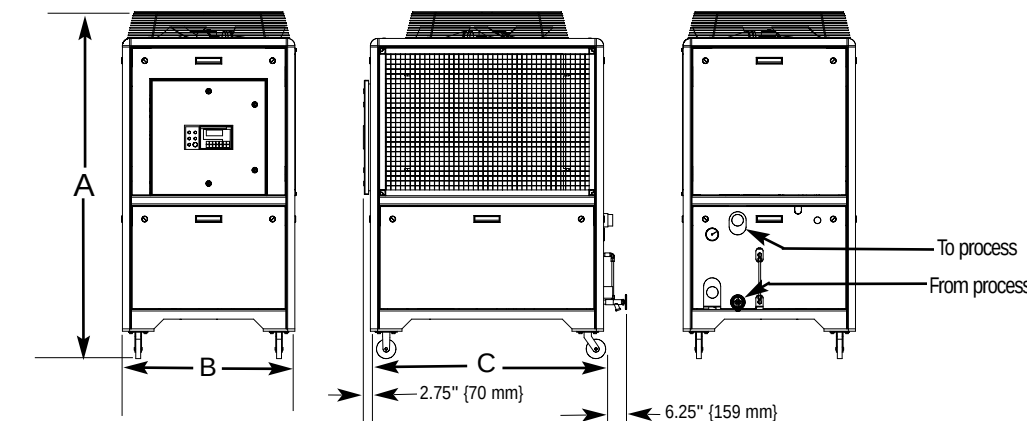
Size 2 Cabinet Water Cooled



Size 1 Cabinet Air Cooled



Size 2 Cabinet Air Cooled



ELECTRICAL SPECIFICATIONS**PORTABLE CHILLERS****Air-cooled models PCA-1.5 to PCA-7.5**

MODEL	PCA-1.5		PCA-2		PCA-3		PCA-4		PCA-5		PCA-7.5	
Electrical characteristics												
Size 1 cabinet (standard pumps)												
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	21.7	12.2	23.0	14.7	35.6	20.6	36.8	26.2	44.3	30.7	52.2	42.7
230V/3 phase/60Hz	19.6	11.0	20.8	13.3	32.2	18.6	33.3	23.7	40.1	27.8	47.2	38.6
380V/3 phase/60Hz	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
460V/3 phase/60Hz	8.9	5.3	9.4	6.5	14.6	9.0	15.1	11.6	18.2	13.5	21.4	18.9
575V/3 phase/60Hz	NA	NA	NA	NA	NA	NA	NA	NA	14.5	10.8	17.1	15.1
200V/3 phase/50Hz	25.8	12.7	27.1	15.3	40.2	21.4	44.5	27.2	46.1	31.9	54.3	44.4
380V/3 phase/50Hz	12.6	6.4	13.2	7.9	NA	NA	20.1	14.0	22.0	16.3	NA	NA
Size 2 cabinet (standard pumps)												
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	NA	NA	NA	NA	25.5	18.9	NA	NA	35.9	23.8	42.5	33.9
230V/3 phase/60Hz	NA	NA	NA	NA	23.1	17.1	NA	NA	32.5	21.5	38.4	30.7
380V/3 phase/60Hz	NA	NA	NA	NA	14.0	10.3	NA	NA	19.7	13.0	23.2	18.5
460V/3 phase/60Hz	NA	NA	NA	NA	11.6	8.5	NA	NA	16.3	10.7	19.2	15.3
575V/3 phase/60Hz	NA	NA	NA	NA	9.2	6.8	NA	NA	13.0	8.6	15.4	12.2
200V/3 phase/50Hz	NA	NA	NA	NA	29.7	19.7	NA	NA	37.3	24.8	44.2	35.3
380V/3 phase/50Hz	NA	NA	NA	NA	15.8	10.3	NA	NA	19.7	13.0	23.2	18.5
Dual pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	NA	NA	NA	NA	27.8	20.8	NA	NA	38.1	25.7	44.7	35.8
230V/3 phase/60Hz	NA	NA	NA	NA	25.1	18.8	NA	NA	34.5	23.2	40.4	32.4
380V/3 phase/60Hz	NA	NA	NA	NA	15.1	11.4	NA	NA	20.8	14.0	24.3	19.5
460V/3 phase/60Hz	NA	NA	NA	NA	12.5	9.4	NA	NA	17.2	11.6	20.1	16.1
575V/3 phase/60Hz	NA	NA	NA	NA	10.1	7.5	NA	NA	13.7	9.2	16.1	12.9
200V/3 phase/50Hz	NA	NA	NA	NA	28.9	21.6	NA	NA	39.6	26.7	46.5	37.2
380V/3 phase/50Hz	NA	NA	NA	NA	15.1	11.4	NA	NA	20.8	14.0	24.3	19.5

Air-cooled models PCA-10 to PCA-30

MODEL	PCA-10		PCA-13		PCA-15		PCA-20		PCA-25		PCA-30		
Electrical characteristics													
Size 1 cabinet (standard pumps)													
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	
	208V/3 phase/60Hz	69.3	52.2	85.0	63.5	NA	NA	NA	NA	NA	NA	NA	NA
	230V/3 phase/60Hz	62.7	47.2	76.9	57.4	NA	NA	NA	NA	NA	NA	NA	NA
	380V/3 phase/60Hz	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	460V/3 phase/60Hz	28.4	23.2	34.8	28.3	NA	NA	NA	NA	NA	NA	NA	NA
	575V/3 phase/60Hz	22.7	18.6	27.8	22.6	NA	NA	NA	NA	NA	NA	NA	NA
	200V/3 phase/50Hz	73.0	54.3	88.4	66.0	NA	NA	NA	NA	NA	NA	NA	NA
	380V/3 phase/50Hz	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Size 2 cabinet (standard pumps)													
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	
	208V/3 phase/60Hz	57.3	40.8	NA	NA	80.9	61.8	123.8	91.3	135.3	100.6	124.1	160.9
	230V/3 phase/60Hz	51.8	36.9	NA	NA	73.2	55.9	112.0	82.6	122.4	91.0	112.2	145.5
	380V/3 phase/60Hz	31.4	22.3	NA	NA	43.9	33.8	67.8	49.9	74.1	55.0	88.1	67.8
	460V/3 phase/60Hz	25.9	18.4	NA	NA	36.3	27.9	56.0	41.2	61.2	45.4	72.8	56.0
	575V/3 phase/60Hz	20.7	14.7	NA	NA	29.3	22.3	44.8	32.9	49.0	36.3	58.2	44.8
	200V/3 phase/50Hz	60.5	42.4	NA	NA	84.1	64.3	128.8	95.0	140.7	104.6	129.1	167.3
	380V/3 phase/50Hz	31.8	22.3	NA	NA	43.9	33.8	67.8	49.9	74.1	55.0	88.1	67.8
Dual pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	
	208V/3 phase/60Hz	59.5	42.7	NA	NA	84.0	64.6	131.1	96.4	148.7	105.7	169.0	129.4
	230V/3 phase/60Hz	53.8	38.6	NA	NA	76.0	58.4	118.6	87.2	134.6	95.6	152.8	117.0
	380V/3 phase/60Hz	32.4	23.2	NA	NA	45.9	35.2	71.4	52.7	81.1	57.7	92.1	70.6
	460V/3 phase/60Hz	26.8	19.2	NA	NA	37.9	29.1	59.0	43.5	67.0	47.7	76.1	58.3
	575V/3 phase/60Hz	21.4	15.4	NA	NA	30.0	23.3	47.2	34.8	53.5	38.1	60.9	46.6
	200V/3 phase/50Hz	62.8	44.4	NA	NA	90.6	67.2	142.8	100.3	154.8	109.9	175.7	134.6
	380V/3 phase/50Hz	32.8	23.2	NA	NA	47.6	35.2	74.8	52.7	81.1	57.7	92.0	70.6

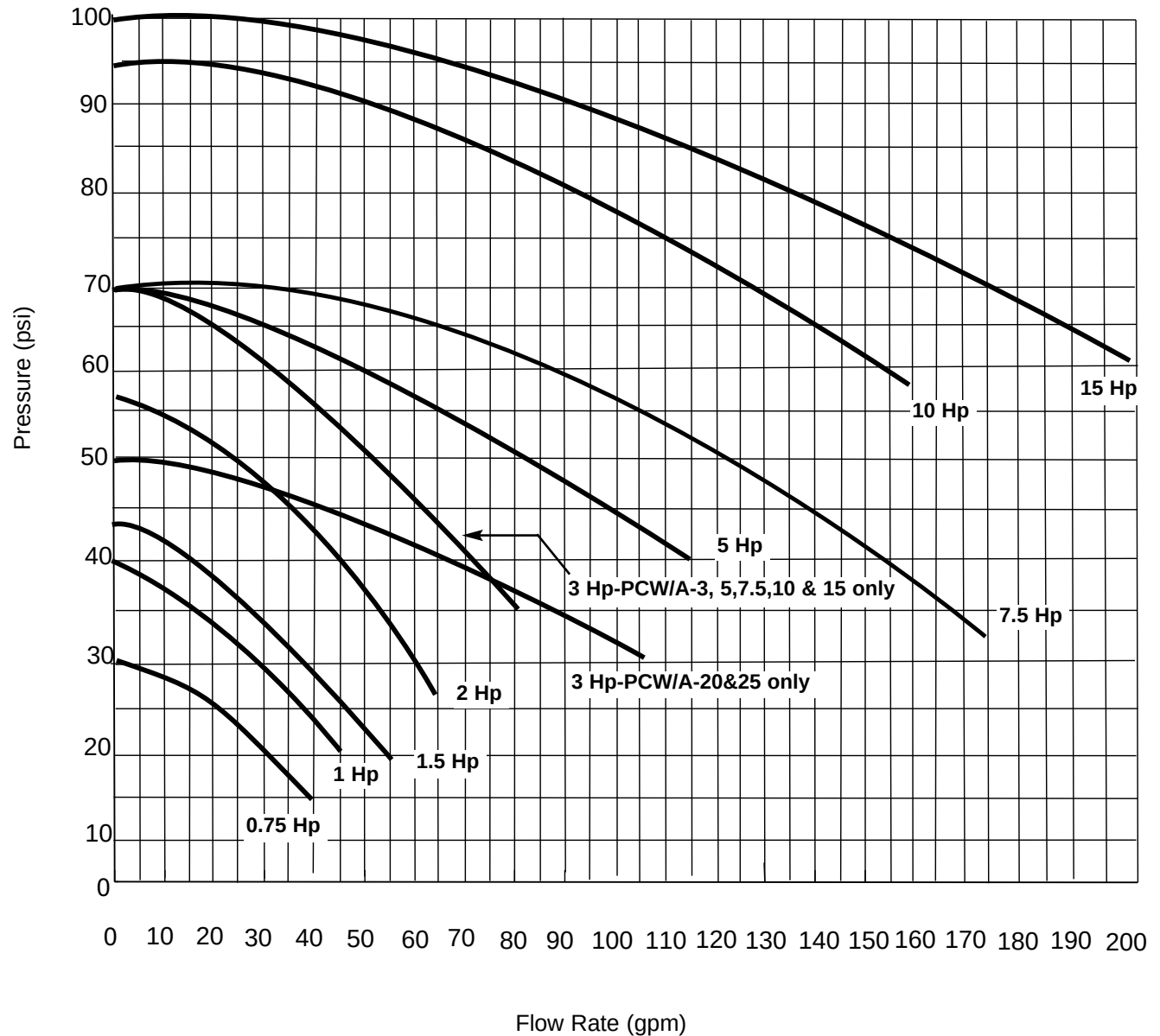
ELECTRICAL SPECIFICATIONS**PORTABLE CHILLERS****Water-cooled models PCW-1.5 to PCW-5**

MODEL	PCW-1.5		PCW-2		PCW-3		PCW-4		PCW-5	
Electrical characteristics										
Size 1 cabinet (standard pumps)										
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	16.9	10.5	17.2	11.3	27.0	16.7	32.5	20.7	40.1	24.9
230V/3 phase/60Hz	15.3	9.5	15.6	10.2	24.4	15.1	29.4	18.7	36.3	22.5
380V/3 phase/60Hz	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
460V/3 phase/60Hz	6.9	4.5	7.1	4.9	11.1	7.3	13.3	9.1	16.4	10.9
575V/3 phase/60Hz	NA	NA	NA	NA	NA	NA	NA	NA	13.1	8.7
200V/3 phase/50Hz	20.8	10.9	21.1	11.7	31.3	17.4	37.0	21.5	44.9	25.9
380V/3 phase/50Hz	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Size 2 cabinet (standard pumps)										
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	NA	NA	NA	NA	20.5	14.0	NA	NA	28.6	18.1
230V/3 phase/60Hz	NA	NA	NA	NA	18.5	12.7	NA	NA	25.9	16.4
380V/3 phase/60Hz	NA	NA	NA	NA	11.2	7.7	NA	NA	15.7	9.9
460V/3 phase/60Hz	NA	NA	NA	NA	9.3	6.3	NA	NA	13.0	8.1
575V/3 phase/60Hz	NA	NA	NA	NA	7.4	5.1	NA	NA	10.4	6.5
200V/3 phase/50Hz	NA	NA	NA	NA	24.5	14.6	NA	NA	29.8	18.9
380V/3 phase/50Hz	NA	NA	NA	NA	12.9	7.7	NA	NA	15.7	9.9
Dual pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	NA	NA	NA	NA	22.7	15.9	NA	NA	30.9	20.0
230V/3 phase/60Hz	NA	NA	NA	NA	20.5	14.4	NA	NA	27.9	18.1
380V/3 phase/60Hz	NA	NA	NA	NA	12.3	8.7	NA	NA	16.8	10.9
460V/3 phase/60Hz	NA	NA	NA	NA	10.2	7.2	NA	NA	13.9	9.0
575V/3 phase/60Hz	NA	NA	NA	NA	8.1	5.7	NA	NA	11.1	7.2
200V/3 phase/50Hz	NA	NA	NA	NA	23.6	16.6	NA	NA	32.1	20.8
380V/3 phase/50Hz	NA	NA	NA	NA	12.3	8.7	NA	NA	16.8	10.9

MODEL	PCW-7.5		PCW-10		PCW-15		PCW-20		PCW-25		PCW-30	
Electrical characteristics												
Size 1 cabinet (standard pumps)												
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	49.4	32.3	61.9	38.7	87.4	49.5	NA	NA	NA	NA	NA	NA
230V/3 phase/60Hz	44.7	29.2	56.0	35.0	79.0	44.8	NA	NA	NA	NA	NA	NA
380V/3 phase/60Hz	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
460V/3 phase/60Hz	20.2	14.2	25.3	17.1	35.7	22.0	NA	NA	NA	NA	NA	NA
575V/3 phase/60Hz	16.2	11.4	20.2	13.7	28.5	17.6	NA	NA	NA	NA	NA	NA
200V/3 phase/50Hz	51.4	33.6	65.3	40.3	90.9	51.5	NA	NA	NA	NA	NA	NA
380V/3 phase/50Hz	24.5	17.2	31.0	20.7	43.2	26.6	NA	NA	NA	NA	NA	NA
Size 2 cabinet (standard pumps)												
Single pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	37.4	28.1	50.0	34.7	60.3	45.6	97.1	67.9	108.6	77.4	126.8	93.8
230V/3 phase/60Hz	33.8	25.4	45.2	31.4	54.5	41.2	87.8	61.4	98.2	70.0	114.7	84.8
380V/3 phase/60Hz	20.5	15.3	27.4	18.9	34.2	24.9	53.1	37.0	59.4	42.3	69.4	51.2
460V/3 phase/60Hz	16.9	12.6	22.6	15.6	28.3	20.5	43.9	30.6	49.1	34.9	57.4	42.3
575V/3 phase/60Hz	13.5	10.1	18.1	12.5	22.6	16.4	35.1	24.5	39.3	27.9	45.9	33.8
200V/3 phase/50Hz	38.9	29.2	52.9	36.1	62.7	47.4	101.0	70.6	112.9	80.5	131.9	97.5
380V/3 phase/50Hz	20.5	15.3	27.8	18.9	34.2	24.9	53.1	37.0	59.4	42.3	69.4	51.2
Dual pump amps	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run	Full	Run
208V/3 phase/60Hz	39.6	30.0	52.3	36.6	65.6	48.3	104.4	73.0	122.0	82.5	135.0	98.9
230V/3 phase/60Hz	35.8	27.1	47.2	33.1	59.3	43.7	94.4	66.0	110.48	74.6	122.1	89.4
380V/3 phase/60Hz	21.6	16.3	28.5	20.0	35.7	26.4	56.8	39.8	66.4	45.0	73.5	54.0
460V/3 phase/60Hz	17.8	13.5	23.5	16.5	29.5	21.8	46.9	32.9	49.7	37.2	60.7	44.6
575V/3 phase/60Hz	14.2	10.8	18.8	13.2	23.6	17.4	37.5	26.3	43.9	29.7	48.6	35.7
200V/3 phase/50Hz	41.2	31.2	55.2	38.1	71.4	50.3	115.1	75.9	127.0	85.8	140.4	102.8
380V/3 phase/50Hz	21.6	16.3	28.9	20.0	37.4	26.4	60.2	39.8	66.4	45.0	73.4	54.0

PUMP CURVES

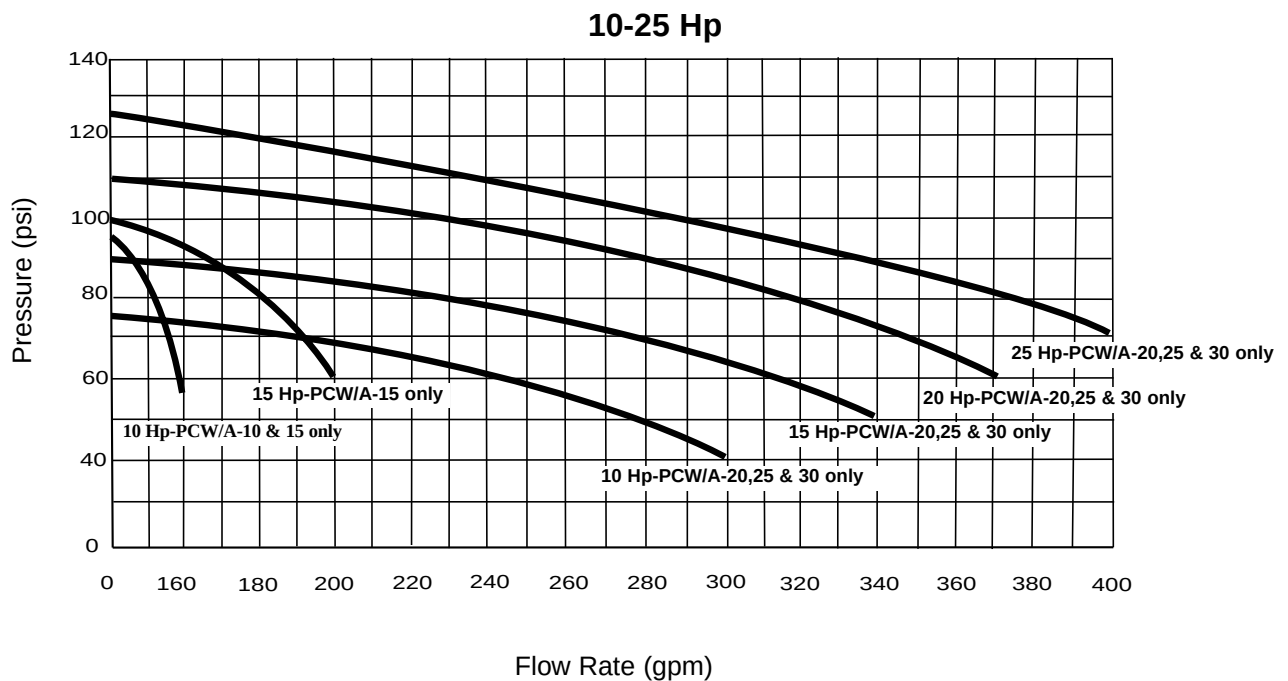
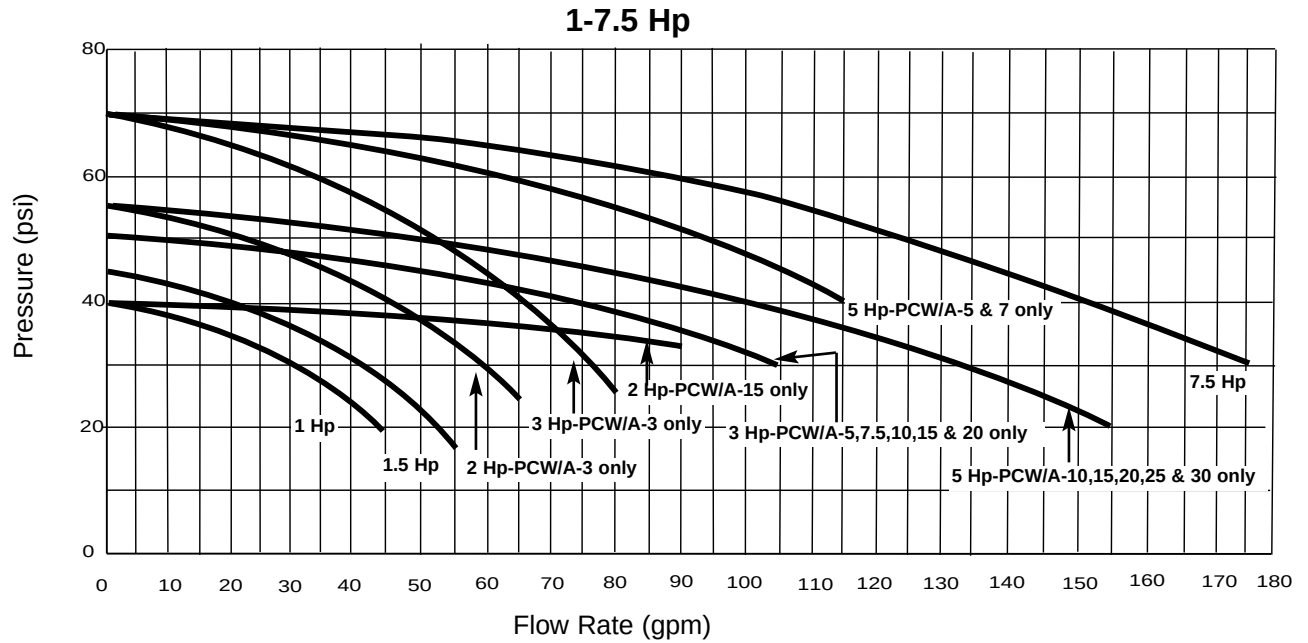
PORTABLE CHILLERS Single Pump Chillers, 60 Hz



SPECIFICATION NOTES

These pump curves are non-overloading using the service factor of the motors.
Specifications may change without notice. Check with your Conair representative for the most current information.

PORTABLE CHILLERS Dual Pump Chillers, 60 Hz



SPECIFICATION NOTES

These pump curves are non-overloading using the service factor of the motors.
Specifications may change without notice. Check with your Conair representative for the most current information.