

PORTABLE CHILLERS AIR-COOLED

Portable Air-Cooled Chillers from Budzar Industries with a Programmable Logic Controller (PLC) are built for top performance and engineered for bottom line control.

Portable Air-Cooled Chillers are shipped completely wired, piped, tested and ready to install and contain a scroll compressor. Other features include:

- Non-Ferrous Construction
- Scroll Compressor
- Hot gas bypass
- Stainless steel/brazed plate evaporator with copper pipe
- Extra large stainless steel reservoir
- Stainless steel Centrifugal pump
- Aluminum tank level gauge with built-in thermometer
- Pump motor solid state overload protection
- Oversized refrigerant filter/drier
- Cleanable air inlet filters
- “Lift-Off” easy to remove access panels
- Powder coated cabinet
- Single point electrical connection
- Start-to-start auto-recycle eliminates temperature swing
- Non-proprietary components

The Portable Air-Cooled Chillers are designed to circulate a fluid medium between 20° - 70°F for a wide variety of industries including pharmaceutical, plastic, rubber, tire, and food.

Portable Air-Cooled Chillers from Budzar Industries are constructed with a (PLC) Programmable Logic Controller. The PLC displays instrumentation information i.e.: pump discharge pressure and flow, compressor suction and discharge pressure as well as compressor pump status. The highly programmable PLC may be customized to your process and software may be updated via a programming key or transferred directly from a personal computer. The PLC also displays troubleshooting information and identifies and adjusts to marginal operating conditions. Additional features include a remote set-point and alarm, retransmission as well as self-testing, sensor failures and diagnostics.

The Portable Air-Cooled Chillers are built to take the heat in industrial duty applications. The top quality components will stand up to your process and challenging plant environments. All components are non-proprietary. The best refrigeration components available have been selected, including a scroll compressor. Each unit is factory tested prior to shipping to ensure accuracy and quality.

Budzar Industries also designs and manufactures specialized equipment for non-standard applications. Our engineers have extensive experience in process chilling and heating applications for such industries as chemical, defense, energy, extraction, food, medical, pharmaceutical, plastics, rubber, tire, and semiconductor. We take the time to understand your current and future needs and design solutions targeting high quality and fast payback.



PROGRAMMABLE LOGIC CONTROLLER PROVIDES:

PROGRAMMABILITY

- Software may be customized, transferred from a personal computer and updated via programming key

DISPLAYED INSTRUMENTATION INFORMATION

- Pump discharge pressure and flow
- Compressor suction pressure, temperature and superheat
- Liquid refrigerant temperature and sub-cooling
- Evaporator inlet and outlet temperature
- Compressor pump status

CONTROLLER FUNCTIONS

- Selectable controlled parameter (supply or return temperature)
- Head pressure control via fan motor cyclone (air-cooled units)

HIGH TECHNOLOGY

- All alarm situation, values of the monitor parameters and the status of the controlled devices are saved for service/maintenance review
- Troubleshooting information is displayed when circumstances require assistance
- The controller identifies marginal operating conditions and adjusts chiller operation



PORTABLE AIR-COOLED CHILLERS

OPTIONS AVAILABLE

- Voltage Options: 208/3/60; 230/3/60; 460/3/60; 575/3/60; 576/3/60
- Shut-Off Valves
- Automatic Water ByPass Valve
- UL 508A Labeled Control Panel

Model	AC-.75	AC-1	AC-2	AC-3	AC-5	AC-8	AC-10	AC-15	AC-20
Capacity (nominal tons)	0.8	1.0	2.0	3.1	5.2	7.9	10.0	15.4	20.0
# of Compressors	1	1	1	1	1	1	1	1	1
Compressor HP	0.75	1.0	2.0	3.0	5.0	8.0	10.0	15.0	20.0
Cooling Capacity Control	50%-100%	50%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%
Full Load Amp									
115/1/60	21.5A	-	-	-	-	-	-	-	-
230/3/60	-	6.1	12.9	20.2	26.9	35.8	44.4	61.1	73.8
460/3/60	-	3.3	6.8	10.1	14.1	18.7	28.1	31.0	35.2
Condenser									
# of Fans	1	1.0	2	2	2	2.0	2.0	4	4
HP of Each	1/6	1/6	1/6	1/6	1/4	1/2	1/2	1	1
CFM	767	712	1,704	2,420	4,237	5,300	4,900	12,000	12,000
Pump									
HP	1/3	1/3	1/2	1	1	1.5	1.5	2	3
GPM/PSI	2.1/100	2.1/100	5/32	7/40	12/40	19/40	24/40	34/40	46/45
Reservoir Capacity (gal)	5	5	15	15	31	60	60	60	60
Process Connection (npt)	0.50	0.50	0.50	0.75	0.75	1.00	1.00	1.50	1.50
Dimensions (in)									
Height	29	29	51	51	61	63	63	71	71
Width	18	18	26	26	29	33	33	36	36
Length	28	28	36	35	46	57	57	72	72
Shipping Weight (lbs)	220	220	450	450	600	900	1,000	1,300	1,300

UNITS AVAILABLE FROM BUDZAR INDUSTRIES



Low Temperature Process Chillers to -85°C



Clean Steam Sampling Cart



Standard and Custom Temperature Control Modules



Cold Storage Room



CIP Systems



Reactor Temperature Control Systems from -85°C to +200°C