PORTABLE CHILLERS AIR OR WATER-COOLED

Budzar's ICE (Industrial Chilling Equipment) Portable Chillers with a Programmable Logic Controller (PLC) are built for top performance and engineered for bottom line control.

Designed to circulate a fluid medium between 20° - 70°F for a wide variety of industries—rubber, tire plastic, paper, food, metal and pharmaceuticals, Budzar's ICE Chillers are innovative, reliable and easily maintained.

Budzar's ICE Chillers 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.

ICE Chillers are built to take the heat in industrial duty application. Their top quality components will stand up to your process and plant environment. All components are non-proprietary. The best refrigeration components available have been selected, including a scroll compressor. Each units is factory tested prior to shipping to ensure top quality.

BUDZAR INDUSTRIES, INC.

engineering **PRECISION**

COMPARE THESE FEATURES

- Programmable Logic Controller provides:

PROGRAMMABILITY

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

DISPLAYED INSTRUMENTATION INFORMATION

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

CONTROLLER FUNCTIONS

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

HIGH TECHNOLOGY

◊ All alarm situations, values of the monitored 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

- Non-Ferrous Construction
- Scroll Compressor
- Stainless steel/brazed plate evaporator with copper pipe
- Extra large stainless steel reservoir
- Stainless steel pump
- Solenoid Valve
- Optional Electronic hot gas by-pass valve provides excellent cooling capacity control
- 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
- Pre-mounted condenser water regulating valve (on water cooled chillers only)
- Start-to-start auto-recycle eliminates temperature swing

ICE

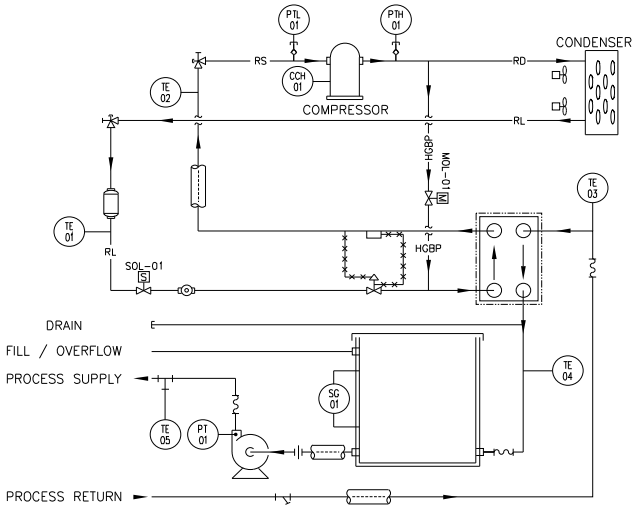
process **TEMPERATURE** control

ICE™ SERIES PORTABLE CHILLERS

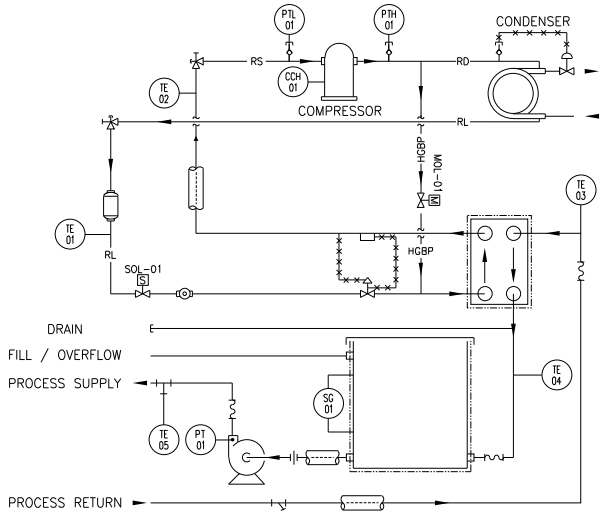
Air-Cooled	AC-.75	AC-1	AC-2	AC-3	AC-5	AC-8	AC-10	AC-15	AC-20
Capacity (nominal Tons)	0.75	1.0	2.0	3.1	5.2	7.9	10	15.4	20
# of Compressors	1	1	1	1	1	1	1	1	1
Compressor HP	.75	1	2	3	5	8	10	15	20
Cooling Capacity Control	50%-100%	50%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%
Full Load 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	35.2
Condenser									
# of Fans	1	1	2	2	2	2	2	4	4
HP of Each	1/6	1/6	1/6	1/6	1/4	1/2	1/2	1.0	1.0
CFM	767	712	1704	2420	4237	5300	4900	12000	12000
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	65	65	65	65
Process Connection (npt)	.5”	.5”	.5”	.75”	.75”	1”	1”	1.5”	1.5”
Dimension (in.)									
Height	29	29	51	51	61	63	63	70.5	70.5
Width	18	18	26	26	29	33	33	36	36
Length	28	28	36	34.5	45.5	56.5	56.5	72	72
Shipping WT (lbs)	220	220	450	450	600	900	1000	1300	1300

Water-Cooled	WC-3	WC-5	WC-8	WC-10	WC-15	WC-20
Capacity (nominal Tons) # of	3.1	5.2	8.2	10.5	15.4	21
Compressors	1	1	1	1	1	1
Compressor HP	3	5	8	10	15	20
Cooling Capacity Control	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%
Full Load Amp						
230/3/60	17.5	23.9	38.3	39.8	39.1	51.8
460/3/60	9	12.3	17.4	20.5	20	24.2
Condenser Water Flow						
Tower Water @ 30 PSI	10	16.5	24	33	48	64
City Water @ 30 PSI	7	11	16	22	16	21
Condenser Connection (npt)	.75”	1”	1.25”	1.50”	2”	2”
Pump						
HP	1	1	1.5	1.5	2	3
GPM/PSI	7/40	12/40	19/44	21/40	34/40	41/45
Reservoir Capacity (gal.)	15	31	65	65	65	65
Process Connection (npt)	.75”	1”	1”	1”	1.5”	1.5”
Dimension (in.)						
Height	51	61	63	63	70.5	70.5
Width	26	29	33	33	36	36
Length	34.5	45.5	56.5	56.5	72	72
Shipping WT (lbs)	400	600	1000	1200	1400	1600

Air-Cooled Models



Water-Cooled Models



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