

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 include a (PLC) Programmable Logic Controller. Features of the PLC include displayed instrumentation information, programmability, controller functions and troubleshooting information.

ICE Chillers are built to take the heat in industrial duty application. The top quality non-proprietary components will stand up to your process and plant environment. Each unit is factory tested prior to shipping to ensure top quality.



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
- 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
- Externally equalized modulating thermal expansion valve
- Electronic hot gas by-pass valve provides excellent temperature control for cooling capacity ranging from 0 - 100%
- 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
- Pre-mounted condenser water regulating valve
- Start-to-start auto recycle eliminates temperature swing

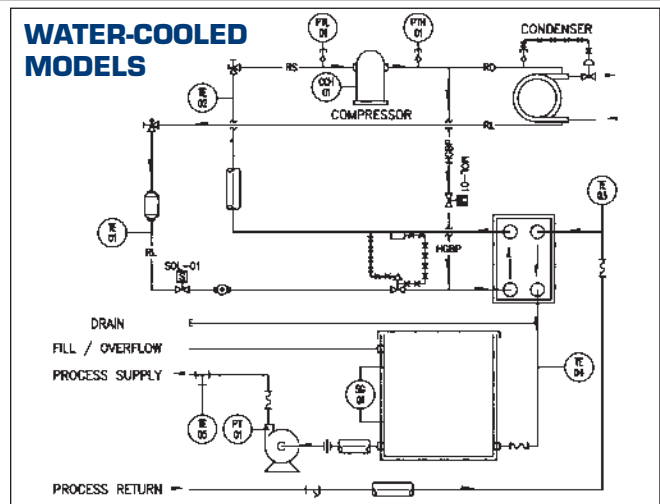
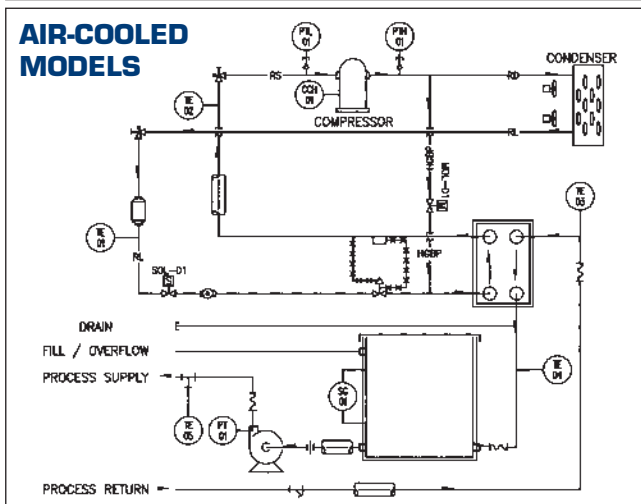


process
TEMPERATURE
control

ICE™ SERIES PORTABLE CHILLERS

Air-Cooled Model	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	79.7	108.7
460 / 3 / 60	—	3.3	6.8	10.1	14.1	18.7	28.1	39.4	47.2
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	1	1	1/5	1/5	2	3
GPM / PSI	2.1/100	2.1/100	5/35	7/40	12/40	19/40	24/40	36/40	48/45
Reservoir Capacity (gal.)	6	6	31	31	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 Model	WC-3	WC-5	WC-8	WC-10	WC-15	WC-20
Capacity (nominal Tons)	3.1	5.2	8.2	10.5	15.4	21
# of 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	61.1	91.9
460 / 3 / 60	9	12.3	17.4	20.5	30.8	38.8
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	24/40	36/40	48/40
Reservoir Capacity (gal.)	31	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



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