

SELF-CONTAINED INDOOR AIR-COOLED CHILLERS



Budzar's ICE (Industrial Chilling Equipment) AP Series Self-Contained, Air- and Water Cooled Chillers with a Programmable Logic Controller (PLC) are built for top performance and engineered for bottom line control.

The AP Series Self Contained Air-Cooled Chillers provide maximum efficiency per square foot of plant space while the AP Series Chillers incorporate a high-flow process water pump that minimizes process temperature gradients. A top-mounted discharge connects to plant ventilation ducts to supplement facility heating in winter and increase ventilation in summer

The AP Series Chillers offer capacities from 13 to 34 nominal tons. This series is designed for processes requiring fluid temperature from +20°F to +60°F.

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.



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

- AP Series Chillers achieve rapid payback because of energy cost saving made possible by reclamation of condenser heat
- Semi-hermetic compressors feature cylinder unloading capacity control for precise temperature control and extended equipment service life under varying load conditions
- A.S.M.E. constructed steel shell and copper tube chiller vessels and evaporators are specifically selected for optimum performance and efficiency
- Installation cost is lowered by combining our central chillers with water reservoir assemblies. Units arrive at the plant pre-piped and pre-wired.
- All units are factory tested prior to shipment

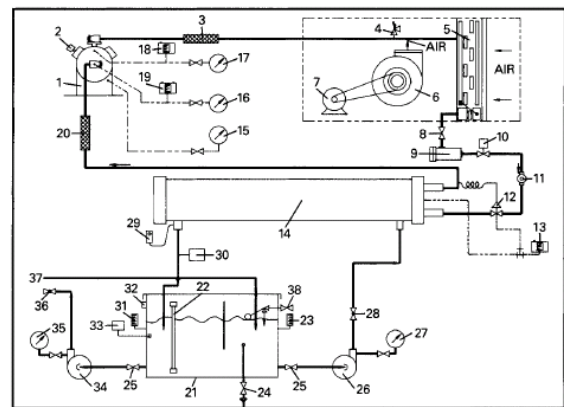
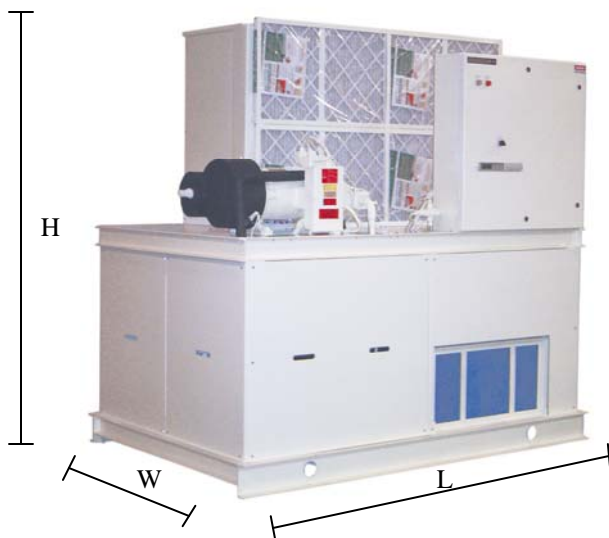


process
TEMPERATURE
CONTROL

AP SERIES INDOOR AIR-COOLED CHILERS

Model AP		AP-1415	AP-1520	AP-2025	AP-2330	AP-3135	AP-3540
Capacity @ 50° LWT-	Tons	13.7	15.3	20.0	23.1	31.0	34.5
Compressor	HP	15	20	25	30	35	40
Chiller Flow-	GPM/PSI	46/17	50/20	64/21	75/17	99/18	110/21
Chiller Pump-	HP	1.5	1.5	1.5	1.5	2	3
Process Flow-	GPM/PSI	61/56	67/54	85/52	100/52	132/54	146/54
Process Pump-	HP	5	5	5	7.5	7.5	7.5
Connections (NPT) Supply	INCHES	2	2	2	2 1/2	3	3
	Return	INCHES	2	2 1/2	2 1/2	3	3
Blower Motor	HP	5	7.5	7.5	10	15	15
	CFM @ 0.25" H ₂ O	12,000	15,000	16,000	19,400	26,000	26,000
Heat-Output @ Full Load	BTU/HR	234,400	256,300	329,100	389,200	514,000	569,500
Nameplate Amps @ 460/3/60-		46.8	54.2	62.6	74.6	97.9	107.3
Holding Tank Size	GALLONS	110	110	180	180	220	220
Shipping Weight (Approx)	LBS	2,200	2,300	3,600	3,800	4,100	4,300
Operating Weight (Approx	LBS	3,100	3,200	5,100	5,300	6,000	6,000
Dimensions (Approx) LxWxH	INCHES	94 1/4 x 66 3/4 x 97		110 1/4 x 70 3/4 x 97		130 x 77 x 97	

NOTE: All data based upon standard rating condition of cooling water from 56° to 50° (6°Δ T) with 95°F ambient air entering condenser



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|------------------------------------|----------------------------------|---|
| 1. Compressor | 14. Chiller Barrel | 27. Pressure Gauge |
| 2. Unloader Solenoid | 15. Oil Pressure Gauge | 28. Flow Control/Shut-Off Valve |
| 3. Vibration Isolator | 16. Low Pressure Gauge | 29. Low Temperature Freezerstat |
| 4. Relief Valve | 17. High Pressure Gauge | 30. Flow Switch |
| 5. Condenser Coil | 18. High Pressure Switch | 31. To Process Thermometer |
| 6. Blower | 19. Pumpdown Switch | 32. Reservoir Over Flow |
| 7. Blower Motor | 20. Vibration Isolator | 33. Chiller Sequencing Thermostat |
| 8. Liquid Line Valve | 21. Baffled Reservoir with Cover | 34. Process Pump |
| 9. Filter-Drier | 22. Sight Glass | 35. Pressure Gauge |
| 10. Liquid Solenoid Valve | 23. Process Return Thermometer | 36. Process Supply Connection |
| 11. Sight Glass/Moisture Indicator | 24. Reservoir Drain Valve | 37. Process Return Connection |
| 12. Expansion Valve | 25. Pump Service Valve | 38. Make-Up Float Valve with Shut-Off Valve |
| 13. Low Pressure Freeze Control | 26. Chiller Pump | |

Budzar Industries reserves the right to discontinue or change specifications without notice, consistent with sound engineering practice and current industrial standards



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