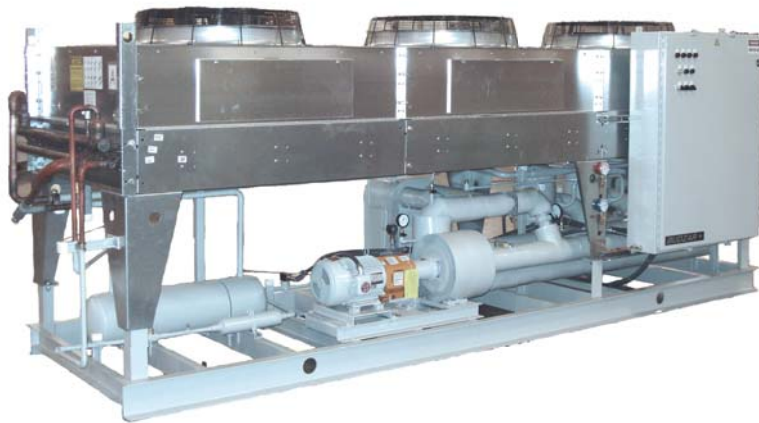


AIR-COOLED OUTDOOR PACKAGED WATER CHILLERS



ICE AM Series Outdoor-Air-Cooled Chiller Modules provide an excellent source of chilled water for industrial cooling applications where a separate source of condenser supply water does not exist or plant floor space is at a premium. AM Series Chillers can be conveniently located on an outside ground level pad or a plant roof for efficient space utilization.

The ICE AM Series Air-Cooled Chiller Module is shipped completely wired, piped, tested and ready to install and contains a scroll or screw Copeland compressor with features as:

- Energy efficient for reduced energy consumption
- Compressor service valves for easy maintenance
- Internal compressor overload protection to prevent motor damage
- Compressor fusing and contactors provide worker safety
- Time-delay compressor start (on dual and multiple-compressor units) to prevent current "spikes" at unit start-up
- Compressor isolator pads dampen vibrations

The Air-Cooled Outdoor Package Water Chillers contain a refrigerant circuit with:

- Pressure Relief valves to prevent damage to the "High Side" of the refrigeration circuit
- "MOP" type thermostatic expansion valve provides accurate metering of the refrigerant
- Low pressure operating control and freeze/low charge control with the time delay circuit to monitor and safely control the "low side" of the refrigeration circuit
- Fill refrigerant operating charge saves money, time, and provides a "ready to run" unit

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: rubber, paper, plastic, chemical, food, pharmaceutical and metal working. We take the time to understand your current and future needs and design solutions targeting at high quality and fast payback.



engineering PRECISION

COMPARE THESE FEATURES

- 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 cycline (air-cooled units)
 - High Technology*
 - All alarm situation, 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
- Designed to operate in a leaving water temperature (LWT) ranging from 42°F to 55°F.
- Refrigerant vessels are constructed in accordance with ANSI B9.1
- All electrical components are UL approved and wiring is performed in accordance with the National Electrical Code
- Low-profile, base rail configuration
- Shipped completely wired, piped, tested and ready to install
- High, Low Pressure Transducers
- RTD sensors for measuring temperatures
- Scroll Compressor or Screw Compressor for larger sizes
 - Energy-efficient Copeland compressors for reduced energy consumption
 - Compressor service valves offer easy maintenance
 - Internal compressor overload protection to prevent motor damage
- Refrigerant Circuit
 - Pressure relief valves to prevent damage to the "High-Side" of the refrigeration circuit
 - "MOP" type thermostatic expansion valve provides accurate metering of the refrigerant

AIR-COOLED OUTDOOR PACKAGED WATER CHILLERS

Scroll Compressor

Model	HP	Tons	# Comp	# Evap	# Circuit in Evaporator	FLA @ 460	L x W x H (inches)	Shipping Weight (lbs)
AM-010-S1S1-FCB	10	10.4	1	1	1	22.8	68 x 50 x 70	1,700
AM-020-S1S1-FCB	20	20.5	1	1	1	41.3	116 x 50 x 70	2,600
AM-030-S2S1-FCB	30	31.2	1	1	1	65.5	164 x 50 x 70	3,400
AM-040-S2S1-FCB	40	39.6	2	1	1	83.0	212 x 50 x 70	4,200
AM-050-S2S1-FCB	50	48.2	2	1	1	110.0	260 x 50 x 70	6,400
AM-060-S4D1-FCB	60	61.4	2	1	1	131.0	308 x 50 x 70	6,550

Screw Compressor

Model	HP	Tons	# Comp	# Evap	# Circuit in Evaporator	FLA @ 460	L x W x H (inches)	Shipping Weight (lbs)
AM-050-C1S1-FCB	50	43	1	1	1	110.2	260 x 50 x 70	6,250
AM-060-C1S1-FCB	60	54.2	1	1	1	124.0	308 x 50 x 70	6,500
AM-070-C1S1-FCB	70	63	1	1	1	142.0	308 x 50 x 72	7,000
AM-080-C1S1-FCB	80	73	1	1	1	155.0	212 x 98 x 70	7,300
AM-090-C1S1-FCB	90	84	1	1	1	175.0	212 x 98 x 70	8,200
AM-110-C1S1-FCB	110	103.6	1	1	1	214.0	260 x 98 x 70	11,000
AM-125-C1S2-FCB	125	118.6	1	1	1	259.0	308 x 98 x 70	11,420
AM-140-C2S2-FCB	140	137.6	1	1	1	289.0	308 x 98 x 70	13,500

All information based on 50°F leaving water temperature. For higher horse power, consult factory



Options Available

- Remote Alarm
- Disconnect Switch
- 20°F Low Ambient Package
- Side Screens
- Tank by Number of Gallons
- Packaged System with Tank
- Different Refrigerant Options

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

Dual-Circuit Water-Cooled Chiller



- Each Budzar unit is designed to maximize the productivity of your process. Budzar quality and reliability provide excellent value for each dollar invested.
- Gemini Series chillers achieve rapid payback by reducing lost production due to chiller down-time
- 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
- Easy-to-monitor function status indicators provide safe, easy operation
- Installation cost is lowered by combining our chillers with water reservoir assemblies. Our units arrive at your plant pre-piped and pre-wired
- All units are factory tested prior to shipment
- Each Budzar unit is constructed with non-proprietary components

GEMINI SERIES DUAL-CIRCUIT CENTRAL CHILLERS

ICE Gemini Series Dual-Circuit, Water-Cooled Chillers are the most reliable chillers on the market. This reliability comes from the dual-circuit design. The Gemini is essentially two chillers in one. Each of the dual chiller circuits is totally unaffected by operating conditions in the other circuit, guaranteeing 50% chiller capacity even if one circuit becomes inoperative. If your process cannot afford a chiller breakdown, the Gemini is for you.

The Gemini Series Chillers offers capacities from 20 to 80 nominal tons. This series is designed for processes requiring chiller fluid temperatures from +30°F to +60°F.

Budzar 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: rubber, paper, plastics, chemical, food and metal working. We take the time to understand your current and future needs and design a solution targeted at high quality and fast payback.



ENGINEERING THE FUTURE FOR THE PROCESS INDUSTRIES



process
TEMPERATURE
control

Dual-Circuit Water Cooled Chiller

*GEMINI SERIES DUAL-CIRCUIT CENTRAL CHILLERS WITH INTEGRAL TANK & PUMPS
WATER-COOLED; DUAL COMPRESSORS; DUAL EVAPORATORS; DUAL CONDENSERS*



MODEL		GP-20D	GP-30D	GP-40D	GP-50D	GP-60D	GP-70D
Capacity	Tons	20.8	32.6	36.1	46.1	53.8	71.1
Compressors (2)	HP Each	7 1/2	15	20	25	30	35
Chiller Pump	HP	1 1/2	2	3	3	3	5
Chiller Flow	GPM/PSI	62 @ 15	93 @ 13	110 @ 15	140 @ 14	160 @ 12	204 @ 17
Process Pump	HP	5	7 1/2	7 1/2	10	15	15
Process Flow	GPM/PSI	83 @ 52	125 @ 54	140 @ 51	190 @ 51	210 @ 55	272 @ 54
Reservoir Size	Dimensions	2.5 x 5 x 3'	2.5 x 5 x 4'	2.5 x 5 x 4'	3 x 6 x 4'	3 x 6 x 4'	3.5 x 6 x 5'
Reservoir volume	GAL	225	312	312	455	455	680
AMPS @ 460 V.	AMPS	46.2	66.6	78.8	95.8	131.6	140.8
MCA/MTDF	AMPS	51 / 60	74 / 90	87 / 100	106 / 125	145 / 175	155 / 175

MODEL		GP-80D
Capacity	Tons	78.6
Compressors (2)	HP Each	40
Chiller Pump	HP	5
Chiller Flow	GPM/PSI	240 @ 13
Process Pump	HP	20
Process Flow	GPM/PSI	320 @ 55
Reservoir Size	Dimensions	3.5 x 6 x 5'
Reservoir volume	GAL	680
AMPS @ 460 V.	AMPS	161.6
MCA/MTDF	AMPS	178 / 200

General Notes

1. Capacities are listed as gross tons
2. Compressors are Copeland "discus" high efficiency type
3. Chiller flows are based on 8°F water delta
4. Process flows are based on 6°F water delta
5. For AMPS @ 230 V. double the listed values
6. MCA = Minimum circuit ampacity
7. MTDF = maximum Time delay fuse

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



38241 Willoughby Parkway
Willoughby, Ohio 44094-7583
440-918-0505 · Fax 440-918-0606 / 0707
www.budzar.com · E-mail sales@budzar.com

Low Temperature Chiller

Air or Water Cooled



Made in the USA, the Budzar Industries Low Temperature Chiller is designed for processes requiring a cooling capacity to -40°F and a capacity of 558 tons. Temperatures down to -80°C are available upon request.

Whether you require Air-Cooled, Water-Cooled, Indoor, Outdoor, Explosion Proof, Instrument Selection, Space Requirement, or Specific Refrigerant the Budzar Industries Low Temperature Chiller is designed and constructed to meet your exact specifications.

Each Low Temperature Chiller features a rugged Copeland Low Temperature Semi-Hermetic Screw Style Compressor as the heart of the refrigeration circuit with an economizer to boost capacity and increase efficiency.



engineering
PRECISION

COMPARE THESE FEATURES

- Each Budzar Industries Unit is designed to maximize the productivity of your process. Budzar Industries quality and reliability provide excellent value for each dollar invested
- Temperature Range to -40°C to with sizes ranging to 400 Tons. Lower temperatures available upon request.
- Exclusive use of quality equipment: Semi-Hermetic Screw Compressors, Carel PLC, A.S.M.E Coded Condenser and Evaporator
- Compressor Economizers for additional Low Temperature Capacity and increased efficiency
- Suction Discharge Service Valves, Crankcase Heaters
- Heavy Duty Channel Frame Rails and Structural Frame Cross Member for Long Service Life
- Modulating Hot Gas By Pass Valve for additional capacity control
- Pressure Safety "Pressure Stat" prevents freezing
- Sight glass/ Moisture Indicator, Core-Type Filter/Drier
- PLC Control and display of Refrigerant High and Low Pressures, Pump Flow, Set Point and Actual Temperatures, Superheat and Subcooling.
- PLC Constantly monitors either conditions and adaptively adjusts control parameters to correct for usses and keep the chiller running
- All Fault conditions are displayed in clear English
- Electronic Expansion Valve, Liquid Line Solenoid and Shut-Off Valve
- Replaceable Core Filter Drier
- Freeze Stat
- Compressor Fusing
- High Pressure Safety Controls
- **Made in the USA**

process
TEMPERATURE
control

Low Temperature Chiller

Air or Water Cooled

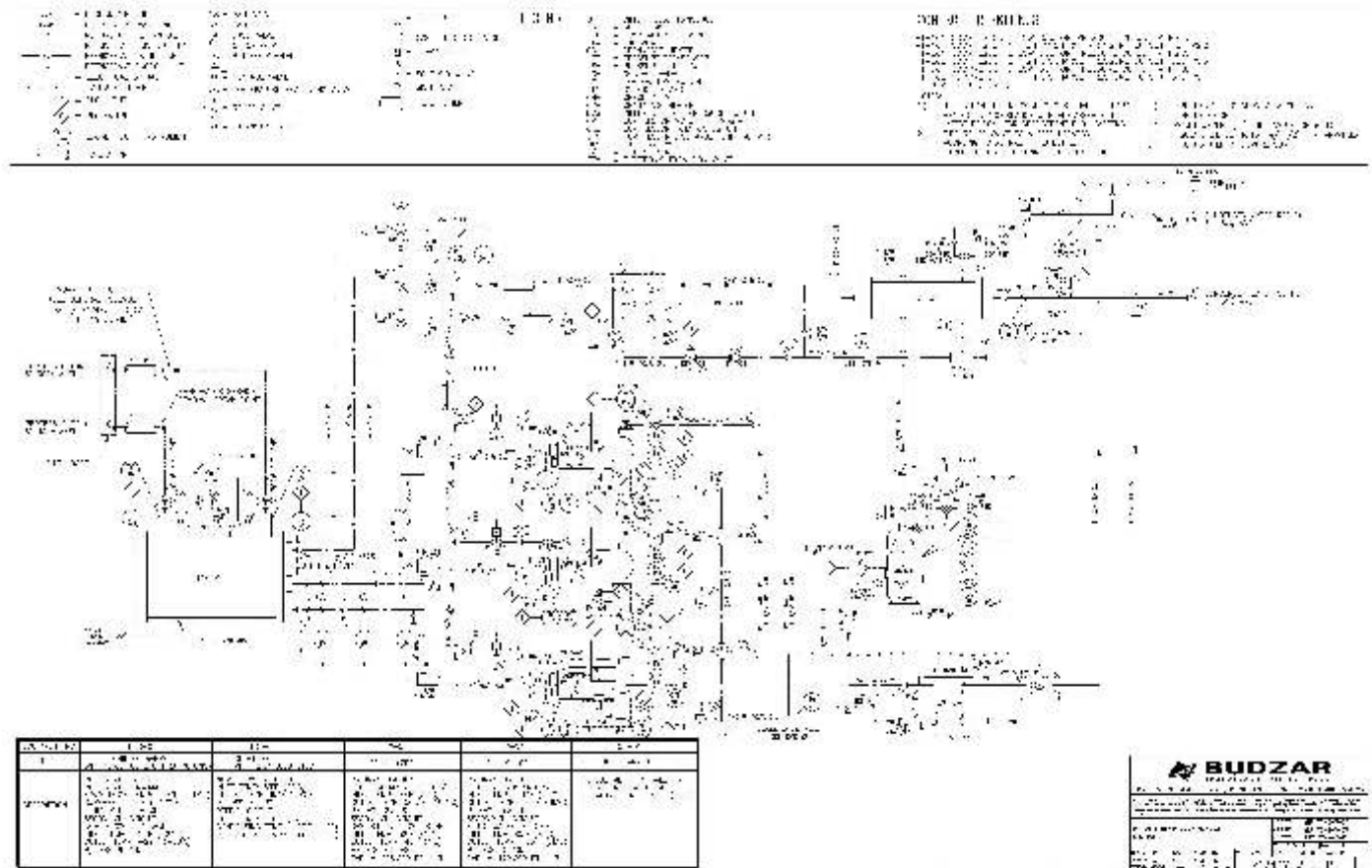
MODEL	RATED CAPACITY TONS*				COMPRESSORS**		CHILLER FLA (460V 3 Ph, 60 Hz)
	-10°C (14°F)	-20°C (-4°F)	-30°C (-22°F)	-40°C (-40°F)	Number	HP (each)	
LTW-040	32.0	23.0	15.5	9.5	1	40	67
LTW-050	37.5	26.5	18.0	11.5	1	50	81
LTW-075	57.8	40.3	27.0	17.3	1	75	146
LTW-100	75.0	53.0	36.0	23.0	2	50	160
LTW-125	93.1	67.9	46.0	31.0	1	125	216
LTW-150	115.5	80.5	54.0	34.5	2	75	290
LTW-200	152.0	105.0	69.8	48.0	3	70, 70, 60	348
LTW-250	186.2	135.8	92.1	62.0	2	125	434
LTW-300	231.0	161.0	108.0	69.0	4	75	578
LTW-375	279.3	203.7	138.1	92.9	3	125	650
LTW-500	372.4	271.6	184.1	123.9	4	125	870
LTW-625	465.5	339.5	230.1	154.9	5	125	1082
LTW-750	558.6	407.4	276.2	185.9	6	125	1300

* Capacity based on 10 deg. C (50 deg.F) condenser water supply temperature

Capacity modulation 100% down to 20% : Single compressor units include modulating valve hot gas by-pass. Multiple compressor units use compressor unloader/compressor cycling.

** Compressor style: screw, semi-hermetic

Typical Water Cooled Chiller Schematic



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

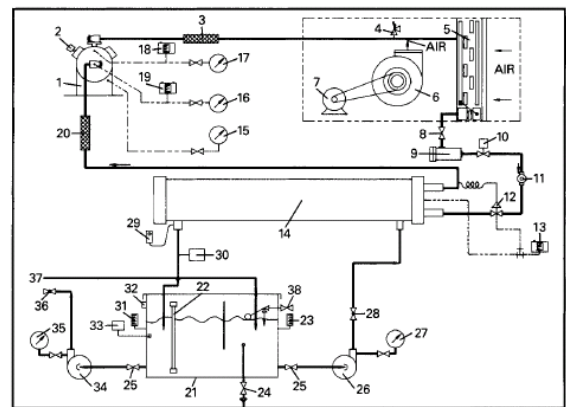
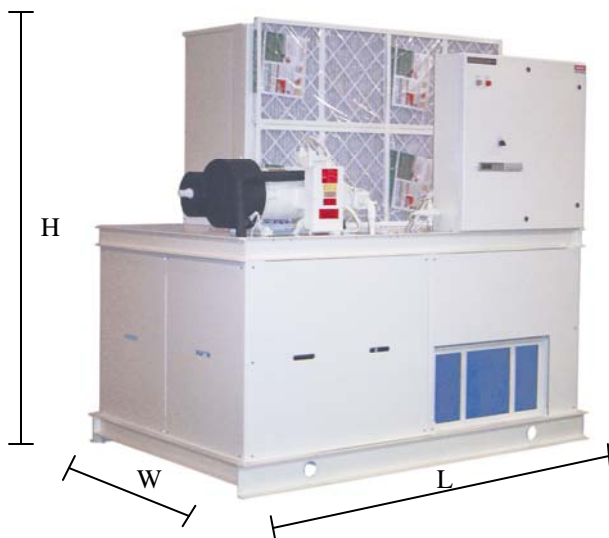


process
TEMPERATURE
CONTROL

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



- | | | |
|------------------------------------|----------------------------------|---|
| 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 | |

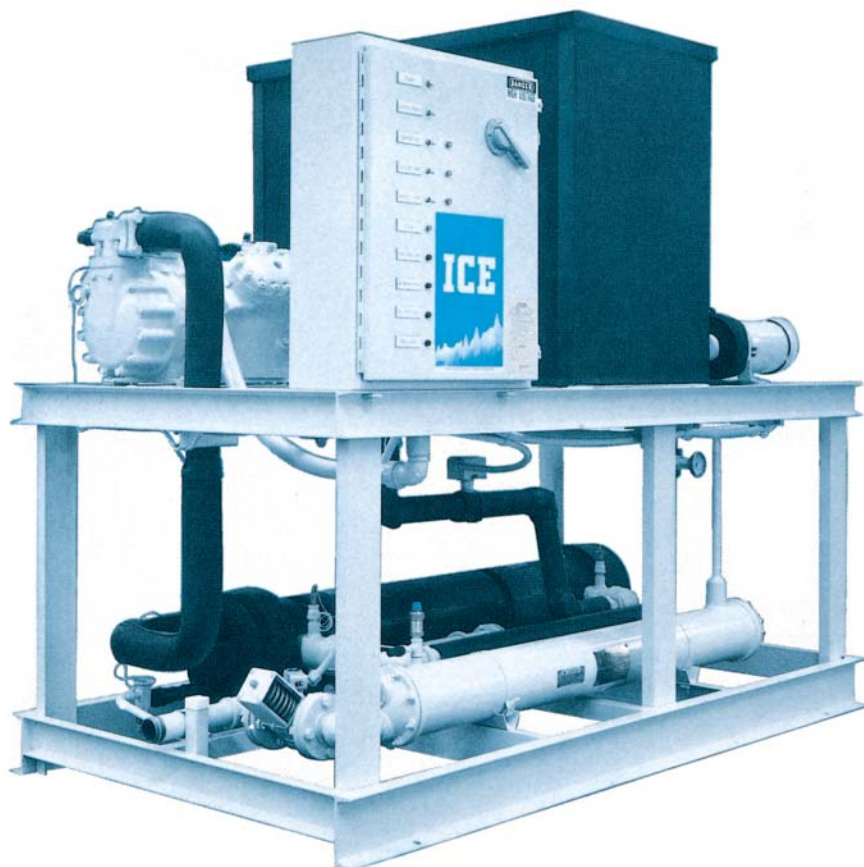
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38241 Willoughby Pkwy., Willoughby, Ohio 44094-7582
 440-918-0505 · Fax 440-918-0606 / 918-0707
 www.budzar.com · E-mail: sales@budzar.com



SELF-CONTAINED WATER COOLED CHILLERS



WP SERIES WATER COOLED CHILLERS

ICE WP Series Self-Contained Water-Cooled Chillers deliver the benefit of economical space utilization with the energy efficiency in a water-cooled condenser. The WP Series Chiller incorporates a chiller pump and a separate process water pump that minimizes process temperature gradients. The result enhances product consistency.

The WP Series Chillers offer capacities from 10 to 40 nominal tons. This series is designed for processes requiring chiller fluid temperatures from +20°F to +60°F.

Budzar 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, petroleum, plastics rubber, paper, power, steel, food, and pharmaceutical. We take the time to understand your current and future needs and design a solution targeted at high quality and fast payback.

 **BUDZAR**
INDUSTRIES, INC.

engineering
PRECISION

EXCELLENT RETURN ON INVESTMENT

- Each Budzar unit is designed to maximize the productivity of your process. Budzar quality and reliability provide excellent value for each dollar invested

LOW-COST, SIMPLE OPERATION AND MAINTENANCE

- Scroll compressors feature hot gas 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
- 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 cycling (air cooled units)

High Technology

- All alarm situation, 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

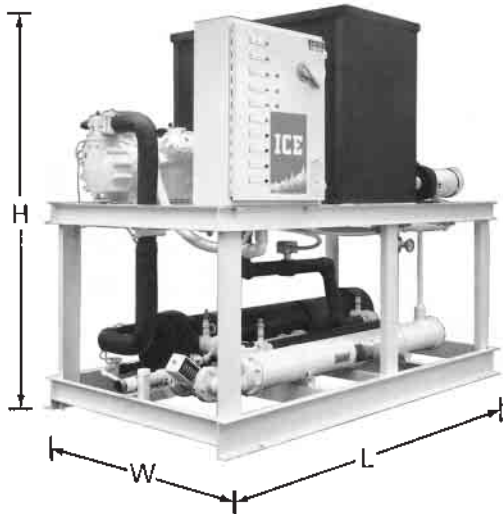
QUICK AND EASY INSTALLATION

- Installation cost is lowered by combining our chillers with water reservoir assemblies. Our units arrive at your plant pre-piped and pre-wired.
- All units are factory tested prior to shipment

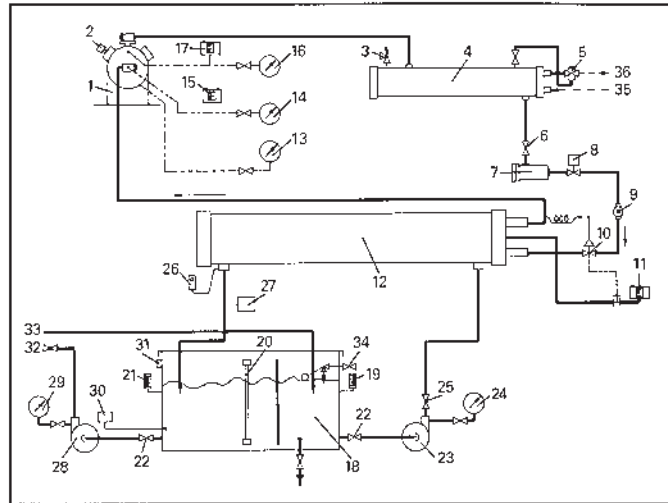


process
TEMPERATURE
control

SELF-CONTAINED WATER COOLED CHILLERS



Model WP-2125 with NEMA 12 electrical enclosure and thru-the-door disconnect switch. Unit illustrates rugged construction and accessibility to components. Insulation is a standard feature.



- | | | |
|-----------------------------------|---|---|
| 1. Compressor | 15. Pumpdown Control | 26. Low Temperature Freezestat |
| 2. Unloader Solenoid | 16. High Pressure Gauge (Discharge) | 27. Flow Switch |
| 3. Relief Valve | 17. High Pressure Switch | 28. Process Pump |
| 4. Water Cooled Condenser | 18. Reservoir, Baffled & Insulated with Cover | 29. Process Water Pressure Gauge |
| 5. Water Regulating Valve | 19. Process Return Thermometer | 30. Chiller Sequencing Thermostat |
| 6. Liquid Line Service Valve | 20. Sight Glass | 31. Over Flow Port |
| 7. Filter Drier | 21. Process Supply Thermometer | 32. Process Water Supply |
| 8. Liquid Line Solenoid Valve | 22. Pump Suction Shut-Off Valve | 33. Process Water Return |
| 9. Sight Glass/Moisture Indicator | 23. Chiller Pump | 34. Make-Up Water Float Valve with Shut-Off Valve |
| 10. Expansion Valve | 24. Chiller Water Pressure Gauge | 35. Condenser Tower Water Inlet |
| 11. Low Pressure Freeze Control | 25. Chiller Water Flow Control/Shut-Off Valve | 36. Condenser Tower Water Outlet |

WP SERIES WATER-COOLED CHILLERS

Model WP		WP -1110	WP-1515	WP-1620	WP-2430	WP-3640
Capacity @ 50° LWT	TONS	11	16.5	22	33	44
Scroll Compressor	HP	10	15	20	30 (15 ea)	40 (4 at 10 hp)
Chiller Flow @	GPM/PSI	24/25	40/25	52/25	79/35	105/25
Chiller Pump	HP	1	1.5	1.5	2	3
Process Flow	GPM/PSI	24/50	40/50	70/58	79/50	154/53
Process Pump	HP	3	5	5	7.5	7.5
Connections (NPT) Supply	INCHES	1.5	2	2	2.5	3
Return	INCHES	1.5	2	2	2.5	3
Condenser (85°F Tower Water)	GPM	30	48	52	75	105
Connections (NPT)	INCHES	1.25	1.5	1.5	2	2.5
Nameplate Amps @ 460/3/60		29.4	39.2	43.5	61.4	86.3
Total Power Input	KW	15.0	19.3	20.1	31.5	43.0
Unit Efficiency (EER)	BTU/WATT	8.56	9.26	9.97	9.49	10.13
Holding Tank Size	GALLON	150	150	150	220	350
Operating Weight (Approx.)	LBS	3,400	3,600	3,750	4,600	6,750
Shipping Weight (Approx.)	LBS	2,600	2,800	2,850	3,100	3,850
Dimensions (Approx.) L x W x H	INCHES	92 x 38 x 73	92 x 38 x 73	92 x 38 x 73	92 x 50 x 73	115 x 50 x 73

Note: All data based upon cooling water from 60°F to 50°F with 85°F @ 85°F condenser entering water with 10°F rise. Increase capacity 10% for water cooled

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



38241 Willoughby Pkwy., Willoughby, Ohio 44094-7582
 (440) 918-0505 • Fax (440) 918-0606 / 918-0707
 www.budzar.com • E-mail: sales@budzar.com



Bulletin #25
10/03

CENTRAL SYSTEM WATER-COOLED CHILLERS



WM-S and WM-D Water-Cooled Chillers

ICE WM-S and WM-D Series Water-Cooled Chiller Modules are engineered for industrial processing applications where 85°F cooling tower water is available. The modular design offers money-saving flexibility. You buy only the capacity your company needs today—additional modules can be added as your requirements grow. The WM-S and WM-D Series Chillers incorporate a high-flow process water pump that minimizes process temperature gradients. The result enhances product consistency.

Available in single and dual-compressor configurations, the WM Series Chillers offer capacities from 18 to 116 nominal tons. This series is designed for processes requiring chiller fluid temperatures from +20°F to +60°F.

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: rubber, paper, plastics, chemical, food and metal working. We take the time to understand your current and future needs and design a solution targeted at high quality and fast payback.



engineering
PRECISION

EXCELLENT RETURN ON INVESTMENT

- Each Budzar unit is designed to maximize the productivity of your process. Budzar quality and reliability provide excellent value for each dollar invested
- Modular concept provides flexibility—modules can be added as process requirements grow, thus saving on capital expenditure and operating costs

LOW-COST, SIMPLE OPERATION AND MAINTENANCE

- 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 efficiency
- Easy-to-monitor functions status indicators provide safe, easy operation

LOW-COST, SIMPLE OPERATION AND MAINTENANCE

- All units are shipped with a full charge of refrigerant, ready for immediate connection to exiting power and water lines
- All units are factory tested prior to shipment



process
**TEMPERATURE
CONTROL**

WM-S SERIES WATER-COOLED CHILLER MODULES (Single Circuit/Single Compressor)

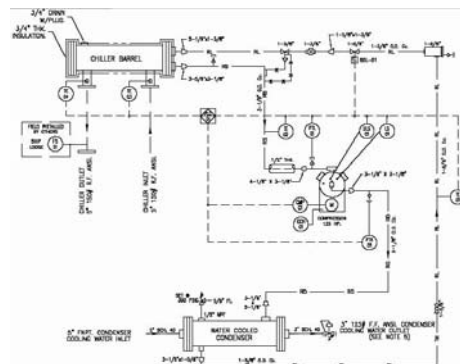
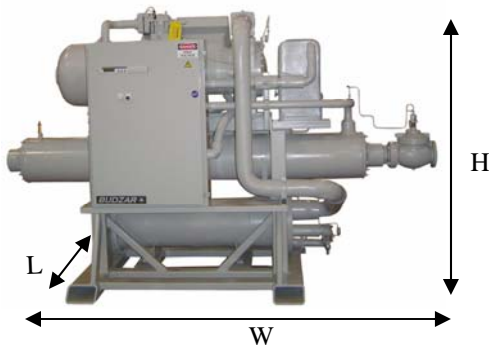
MODEL		WM-20S	WM-25S	WM-30S	WM-35S
Capacity @ 50° F ¹	Tons	18.0	24.4	27.7	35.7
Compressor	HP	20	25	30	35
Evaporator Flow	GPM	43.2	58.6	66.5	85.7
Chilled H ₂ O Connection	NPT	2"	2"	2"	2"
Nameplate Amps	460V	32	41	50	61
Condenser Flow—85°	GPM	54	73.2	83.1	107.1
Capacity Control	%	100-55-0	100-55-0	100-71-37-0	100-71-37-0
Dimensions	LxWxH	102x40x35	105x30x47	102x33x48	106x33x48
Shipping Weight	LBS	1340	1550	1740	1800

WM-D SERIES WATER-COOLED CHILLER MODULES (Dual Circuit/Dual Compressor)

MODEL		WM-45D	WM-50D	WM-65D	WM-70D
Capacity @ 50° F ¹	Tons	43.0	48.8	63.3	71.4
Compressor	NO/HP	(1)-20 (1)-25	(2)-25	(1)-30 (1)-35	(2)-35
Evaporator Flow	GPM	103.2	117	151.9	171.4
Chilled H ₂ O Connection	NPT	4"	4"	5"	5"
Nameplate Amps	460V	74	84	114	122
Condenser Flow—85°	GPM	129	146.4	189.9	214.2
Capacity Control	%	100-74-54-24-0	100-77-54-27-0	100-86-68-24-0	100-88-76-39-0
Shipping Weight	LBS	3580	3660	3860	4010
Dimensions	LxWxH	117x35x63	117x35x63	117x35x64	117x35x64

MODEL		WM-80D	WM-90D	WM-100D	WM-110D
Capacity @ 50° F ¹	Tons	83.7	99.8	107.7	115.6
Compressor	NO/HP	(2) - 40	(2) - 50	(1) - 50 (1) - 60	(2) - 60
Evaporator Flow	GPM	200.1	239.5	258.5	277.4
Chilled H ₂ O Connection	NPT	5"	5"	6"	6"
Nameplate Amps	460V	130	164	183	202
Condenser Flow—85°	GPM	251.1	299.4	323.1	346.8
Capacity Control	%	100-87-84-38-0	100-80-60-31-0	100-78-60-29-0	100-80-60-31-0
Shipping Weight	LBS	4110	4590	5075	5225
Dimensions	LxWxH	117x35x64	117x35x66	117x35x67	117x35x67

¹ Capacity based upon chilling water from 60°F to 50°F with 85°F to 90°F condenser water.



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



38241 Willoughby Pkwy., Willoughby, Ohio 44094-7582
440-918-0505 · Fax 440-918-0606 / 918-0707

