

WINTER KOOLER SERIES

Supplemental Cooling System

Technical Specifications

WinterKooler Series Supplemental Cooling System are used where heat recovery chilling systems are not required. AEC's WinterKooler Series system is an energy-saving supplemental chilling system that is designed to allow process cooling water to bypass your chiller whenever ambient air temperatures are low enough to provide sufficient cooling without mechanical refrigeration.

AEC has designed WinterKooler systems to be installed in conjunction with air-cooled or water-cooled chillers and will work with either a central or chiller-contained pump tank assembly.

Application note: To prevent freeze-up, unit must be operated with at least 50% water glycol mixture.



Features

Standard Features

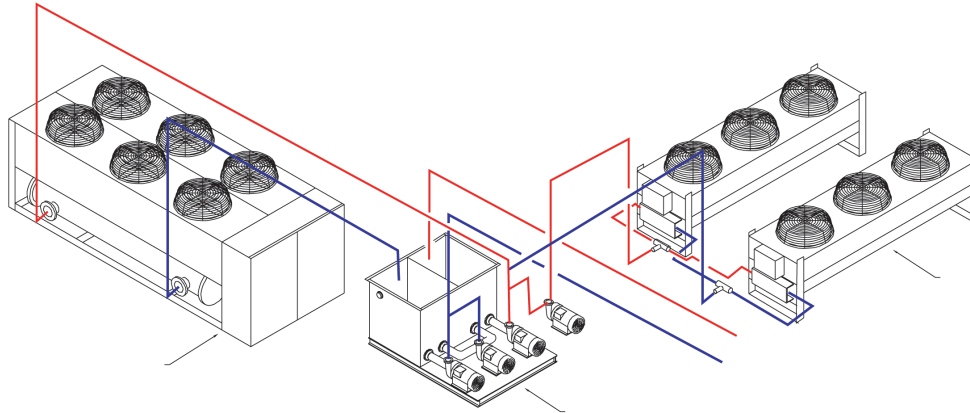
- Heavy-duty cabinets designed for outdoor applications
- Galvanized steel structural members
- Heavy-gauge aluminum cabinet panels
- Corrugated aluminum fins with staggered copper tubes for optimum heat transfer
- PVC-coated steel fan guards for optimum corrosion protection
- Energy-efficient fan motors; direct-drive fans rotate at 1,140 rpm
- Pre-shipment testing includes pressure testing, dehydration, and pressurization
- Units are UL listed and CSA-certified (UL listed for Canada)
- Thermal overload protection and permanently-lubricated ball bearings on fan motors

- Manual switchover
- Fully baffled fan sections for structural strength; prevents fan windmilling during OFF cycles
- Aluminum fan blades riveted to painted-steel spider and hubs; blades are statically and dynamically balanced
- Fan motor leads wired to weatherproof electrical enclosure for single-point field wiring
- One-year warranty on parts, materials; one-year warranty on service, including labor and materials

Optional Features

- Switchover package option is designed for use with divided central chilled water pump tanks.
- It requires 115 volts and 60 psi (414 kPa/4.2 bars) air for operation.
- Available in 2.5", 3", 4", 6", or 8" (63, 76, 102, 152, or 203 mm) outlet diameter sizes.

Product Diagrams



Notes

- Heat recovery and Winter Kooling are not available together on the same installation.
- Chiller capacities are based on cooling 50% water and 50% ethylene glycol from 60°F to 50°F (15°C to 10°C) with 35°F (2°C) ambient air temperature. Consult factory for other applications.
- Specifications are for 230/3/60 or 460/3/60 operation at elevations under 1000 ft. above sea level. Consult factory for other applications.

Specifications

Model	Capacity, Tons ¹	Flow, gpm ²	Pressure drop, psi	FLA 460/3/60	Fans		Dimensions, in.			Weight, lbs.	
					hp	qty.	L	W	H	Ship.	Oper.
AWX010	10	28	4.5	2.6	0.33	2	69.75	43	40.5	470	490
AWX015	15	42	4.7	7	1.5	2	120.5	45.5	50	1540	1594
AWX020	20	56	2.4	3.9	0.33	3	129.75	43	40.5	625	660
AWX025	25.3	71	5.3	7	1.5	2	120.5	45.5	50	1600	1694
AWX030	33.9	95	1.9	10.5	1.5	3	175.5	45.5	50	2420	2554
AWX040	40	112	5.5	14	1.5	4	23.5	45.5	50	2480	2614
AWX050	51.7	145	5.2	14	1.5	4	230.5	45.5	50	3190	3364
AWX060	60.7	170	2.5	21	1.5	6	175.5	88	50	2380	2587
AWX075	78.5	220	5.3	28	1.5	8	230.5	88	50	3150	3416
AWX090	92.5	259	7.1	28	1.5	8	230.5	88	50	3230	3496
AWX100	102	287	7.8	28	1.5	8	230.5	88	50	3510	3856
AWX115	118	331	8.1	35	1.5	10	285.5	88	50	3990	4415
AWX125	126	355	9.2	35	1.5	10	285.5	88	50	4130	4555
AWX130	132	370	9.9	35	1.5	10	285.5	88	50	4390	4815
AWX140	144	405	13.8	42	1.5	12	340.5	88	50	4790	5295
AWX150	154	432	15.5	42	1.5	12	340.5	88	50	4960	5465
AWX165	1652	462	17.5	42	1.5	12	340.5	88	50	5270	5775

¹ Based on 1 ton of refrigeration equal to 12,000 BTUH (metric equivalent: 3,024 Kcal/hr).

² Flows are based on cooling 2.8 gpm per ton (1.07 lpm per 1,000 Kcal/hr) of 50% water/50% ethylene glycol.