

Portable Water-Cooled and Air-Cooled Chillers

FCAC & FCWC Series

Standard and Custom Models from 1 to 30 tons



Model shown is a 20-ton "split" chiller with a semi-hermetic compressor to cool a dedicated group of machines. A remote air cooled condenser is provided to reject heat outdoors.

Two-pump system provides efficiency, control and temperature stability. Separate process pump delivers higher pressure, consistent flow and velocity to customer processes.



Industry-standard industrial controls, are used throughout. Assures long-term service and easy worldwide maintenance.

Model shown has rugged, quiet and servicable semi-hermetic compressor. Scroll compressor models are also available.

Oversized, insulated stainless-steel tank maintains large volume of chilled water. Improves temperature stability and reduces system variability.



Self-contained air-cooled models from 1-ton designed for precise temperature control, higher pressure delivery, and operational consistency.

Chillers with the features that make a difference.

Freeze Co portable chillers were designed from the ground-up to provide the right ingredients of smooth operation, consistency, and ruggedness required for high usage applications around the world. They may be the best value available.

- Rugged, reliable hermetic, semi-hermetic or scroll compressors.
- Systems available with standard analog or PLC controls with touch-screens. Web-based remote monitoring, alerting and control system also available.
- Two-pump system to separate chiller recirculation from high pressure process pumping. This is especially important for higher productivity and assured fluid velocity.
- Large stainless-steel tanks provides benefits such as better pump suction head, better temperature consistency for closer process temperature control, and less accumulated contamination per gallon of recirculated water. Automatic water make-up valve and water-cooled condenser thermostatic valves are available.
- Rugged, quality steel panels and rigid welded frame. Steel frame and panels are enamel painted with a heavy coat. Stainless-steel materials are available.
- Liquid-filled refrigerant and process water pressure gauges, premium quality electrical controls, bronze-fitted pumps (stainless steel pumps optional) and fan controls.
- Standard instrument package uses components available worldwide.
- Capabilities include central and modular chillers, cooling towers and pumping systems, and complete mechanical design, installation and service.



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FCAC and FCWC Series Portable Chillers

Specifications and Dimensions

FCAC & FCWC Series

Air Cooled Models	Capacity BTU/HR	Flow GPM	Tank Gallons	Comprs HP	Cond HP	Chiller Pump	Process Pump	Full Load Amps			Dim LxHxW	Weight Lbs
								208	460	575		
FCAC-001	12,000	2.4	30	1.5	.25	.50	1.0	20	10	-	36x60x40	1,100
FCAC-002	24,000	4.8	30	2.5	.25	.50	1.0	21	11	-	36x60x40	1,150
FCAC-003	36,000	7.2	30	3.5	.33	.50	1.0	23	11.5	9.0	36x60x40	1,200
FCAC-004	48,000	9.6	30	4.5	.33	.50	1.0	28	12	10	36x60x40	1,250
FCAC-005	60,000	12	50	5.5	.50	.50	1.5	32	168	12	40x75x48	1,300
FCAC-008	90,000	18	50	8.0	.60	.75	3.0	40	20	15	40x75x48	1,500
FCAC-010	120,000	24	50	10.5	1.0	.75	3.0	50	30	20	40x75x48	1,600
FCAC-015	180,000	36	100	20	2 x .6	1.0	5.0	105	46	32	40x75x72	2,100
FCAC-020	240,000	48	100	25	2 x 1.0	2.0	7.5	130	72	50	40x75x72	2,700
FCAC-025	300,000	60	100	30	2 x 1.5	2.0	7.5	155	85	60	40x96x72	3,100
FCAC-030	360,000	72	100	35	2 x 1.5	3.0	10	175	98	70	40x96x72	3,450

Water Cooled Models	Capacity BTU/HR	Flow GPM	Tank Gallons	Comprs HP	Cond GPM	Chiller Pump	Process Pump	Full Load Amps			Dim LxHxW	Weight Lbs
								208	460	575		
FCWC-001	12,000	2.4	30	1.0	3.0	.50	1.0	18	8.0	-	36x60x40	700
FCWC-002	24,000	4.8	30	2.0	6.0	.50	1.0	18.5	8.5	-	36x60x40	850
FCWC-003	36,000	7.2	30	3.0	9.0	.50	1.0	19	9.0	7.5	36x60x40	950
FCWC-004	48,000	9.6	30	4.0	12	.50	1.0	19.5	9.5	8	36x60x40	1,200
FCWC-005	60,000	12	50	5.0	15	.50	1.5	22.5	10	9.5	40x75x48	1,300
FCWC-008	90,000	18	50	7.5	22.5	.75	3.0	26.5	15	11	40x75x48	1,500
FCWC-010	120,000	24	50	10	30	.75	3.0	40	17.5	14	40x75x48	1,600
FCWC-015	180,000	36	100	15	45	1.0	5.0	46	27.5	16	40x75x72	2,100
FCWC-020	240,000	48	100	20	60	2.0	7.5	97	52	32	40x75x72	2,700
FCWC-025	300,000	60	100	25	75	2.0	7.5	120	67	46	40x75x72	2,800
FCWC-030	360,000	72	100	30	90	3.0	10	140	76	55	40x75x72	2,900

Split System Models	Capacity BTU/HR	Flow GPM	Tank Gall	Comp HP	Cond HP	Chiller Pump	Proc Pump	Chiller FLA			Chiller LxHxW	Chiller Lbs	Condenser FLA			Cond Lbs
								208	460	575			208	460	575	
FCAC-001R	12,000	2.4	30	1.5	.25	.50	1.0	19	9.0	-	36x60x40	750	1.8	1.3	-	300
FCAC-002R	24,000	4.8	30	2.5	.25	.50	1.0	19.5	10	-	36x60x40	800	1.8	1.3	-	300
FCAC-003R	36,000	7.2	30	3.5	.33	.50	1.0	20.5	10.5	8.5	36x60x40	850	2.8	1.2	0.8	350
FCAC-004R	48,000	9.6	30	4.5	.33	.50	1.0	25.5	11	9.2	36x60x40	875	2.8	1.2	0.8	350
FCAC-005R	60,000	12	50	5.5	.50	.50	1.5	28.5	17	10.8	40x75x48	1,100	3.7	1.4	1.2	400
FCAC-008R	90,000	19.2	50	8.0	.60	.75	2.0	36	19	13.5	40x75x48	1,200	4.0	2.0	1.5	500
FCAC-010R	120,000	24	50	10.5	1.0	.75	3.0	45	28	15.7	40x75x48	1,350	5.0	2.5	2.3	600
FCAC-015R	180,000	36	100	20	2 x .6	1.0	5.0	97	42	32	40x75x72	1,600	8.0	4.0	3.0	700
FCAC-020R	240,000	48	100	25	2 x 1.0	2.0	7.5	120	67	45.5	40x75x72	2,100	10.0	5.0	4.6	800
FCAC-025R	300,000	60	100	30	2 x 1.5	2.0	7.5	145	78	55	40x75x72	2,300	13.5	6.6	5.0	1,200
FCAC-030R	360,000	72	100	35	2 x 1.5	3.0	10	160	91	65	40x75x72	2,600	16.0	7.0	5.0	1,280

Capacities based on R-22 Refrigerant. Water cooled condenser flow is 3 GPM per ton at 85°F. Chilled water outlet temperature based on 50°F and 10°F range. Air cooled capacity based on 95°F ambient. Water regulating valve should be used in city-water cooled models. Other refrigerants and configurations available.



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