

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 world-wide maintenance.

Model shown has rugged, quiet and serviceable 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.

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.



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

- 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.

FCAC and FCWC Series Portable Chillers

Specifications and Dimensions

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	.75	21	10	-	36x60x40	1,100
FCAC-002	24,000	4.8	30	2.5	.25	.50	.75	21	11	-	36x60x40	1,150
FCAC-003	36,000	7.2	30	3.5	.33	.50	.75	23	11.5	9	36x60x40	1,200
FCAC-004	48,000	9.6	30	4.5	.33	.50	.75	28	12	10	36x60x40	1,250
FCAC-005	60,000	12	50	5.5	.50	.50	1.5	32	18	12	40x75x48	1,300
FCAC-008	90,000	18	50	8	.60	.75	2.0	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	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	40x90x72	3,100
FCAC-030	360,000	72	100	35	2 x 1.5	3.0	10	175	98	70	40x90x72	3,450

Water 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		
FCWC-001	12,000	2.4	30	1.0	.25	.50	.75	18	8	-	36x60x40	700
FCWC-002	24,000	4.8	30	2.0	.25	.50	.75	18	8	-	36x60x40	850
FCWC-003	36,000	7.2	30	3.0	.33	.50	.75	18.5	9	7.5	36x60x40	950
FCWC-004	48,000	9.6	30	4.0	.33	.50	.75	19.5	9.5	8	36x60x40	1,200
FCWC-005	60,000	12	50	5.0	.50	.50	1.5	22.5	10	9.5	40x75x48	1,300
FCWC-008	90,000	18	50	7.5	.60	.75	2.0	26.5	15	11	40x75x48	1,500
FCWC-010	120,000	24	50	10	1.0	.75	3.0	36	17.5	14	40x75x48	1,600
FCWC-015	180,000	36	100	15	2 x .6	1.0	5	45	27.5	16	40x75x72	2,100
FCWC-020	240,000	48	100	20	2 x 1.0	2.0	7.5	97	46	32	40x75x72	2,700
FCWC-025	300,000	60	100	25	2 x 1.5	2.0	7.5	120	67	46	40x75x72	2,800
FCWC-030	360,000	72	100	30	2 x 1.5	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	.75	18	8	-	36x60x40	700	1.8	1.3	-	300
FCAC-002R	24,000	4.8	30	2.5	.25	.50	.75	18	8	-	36x60x40	850	1.8	1.3	-	300
FCAC-003R	36,000	7.2	30	3.5	.33	.50	.75	18.5	9	7.5	36x60x40	950	2.8	1.2	0.8	350
FCAC-004R	48,000	9.6	30	4.5	.33	.50	.75	19.5	9.5	8	36x60x40	1,200	2.8	1.2	0.8	350
FCAC-005R	60,000	12	50	5.5	.50	.50	1.5	22.5	10	9.5	40x75x48	1,300	3.7	1.4	1.2	400
FCAC-008R	90,000	18	50	8.0	.60	.75	2.0	26.5	15	11	40x75x48	1,500	4.0	2.0	1.5	500
FCAC-010R	120,000	24	50	10.5	1.0	.75	3.0	36	17.5	14	40x75x48	1,600	5.0	2.5	2.3	600
FCAC-015R	180,000	36	100	20	2 x .6	1.0	5	45	27.5	16	40x75x72	2,100	8.0	4.0	3.0	700
FCAC-020R	240,000	48	100	25	2 x 1.0	2.0	7.5	97	46	32	40x75x72	2,700	10.0	5.0	4.6	800
FCAC-025R	300,000	60	100	30	2 x 1.5	2.0	7.5	120	67	46	40x75x72	2,800	13.5	6.6	5.0	1,200
FCAC-030R	360,000	72	100	35	2 x 1.5	3.0	10	140	76	55	40x75x72	2,900	14.0	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. Water regulating valve should be used in city-water cooled applications. Other refrigerants and configurations available.



Freeze Co. Systems Limited
 2100 Steeles Avenue East
 Brampton, ON Canada L6T 1A7
 Phone: (905) 789.9988
 Fax: (905) 789.9989

Represented By: