TRIDENT™ GS SERIES
Central Chiller

Technical Specifications

The Trident™ GS Series Modular Central Chiller integrates advanced technologies with proven component design to offer a capable and innovative process chilling solution.

The state-of-the-art controls provide the operator with intuitive command structures while offering critical unit performance data in understandable dashboard sets. Individual circuit capabilities range from 50 tons to 120 tons of cooling capacity. Each circuit has the ability to parallel with other Trident™ circuits of the same size for maximum system scalability. Drone circuits offer market leading connectivity, as every unit has the same control set. This allows Trident™ to offer the ultimate plug-and-play capability currently available and can even integrate with Sterling pump tanks.

COMPACT
- Maximum chilling capacity in space saving package

INNOVATIVE
- Intelligent design, advanced connectivity, virtually effortless maintenance

SCALABLE
- 50 to 120 tons per module
- Parallel up to 5 units

Features

Mechanical Features
- Semi-hermetic dual screw with crank case heaters and pressure sensors
- Stainless steel, copper brazed plate evaporator
- TS Tech™ tool-less evaporator inlet strainer and evaporator back flush ports and strainer blow down valve
- Remote air-cooled condensers are rated to -20°F (-29°C) ambient and feature aluminum v-coils with washable filters, VFD fan control, and ambient temperature sensors

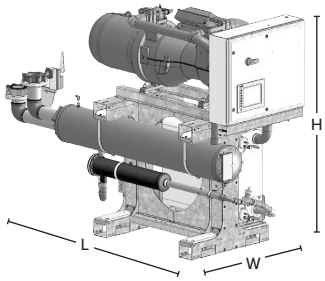
Electrical Features
- Non-ferrous construction on chilled water side
- Fully accessible NEMA 12-style electrical control enclosure with non-fused power disconnect
- Single-point power and ground wiring connection per module

STERLING

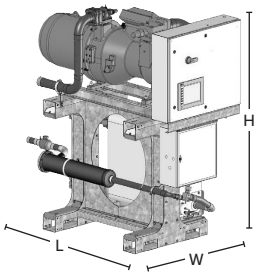
TRIDENT™ GS SERIES

Product Diagrams

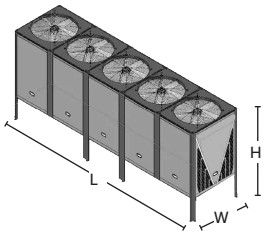
Water-Cooled Circuit



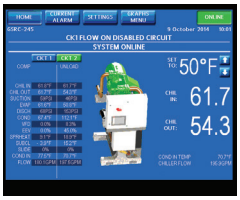
Air-Cooled Circuit



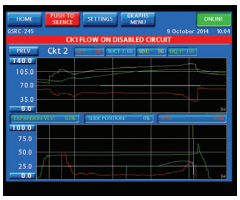
Remote Condenser



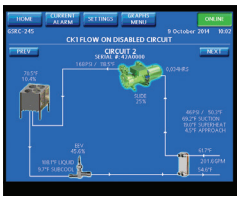
Advanced Controller



Each circuit provides real-time sensor data to help gauge system performance.



Convenient graphs of each circuit provide overall performance trends.



Component view shows flow parameters on each circuit, divided by component regions.

Specifications

Water-cooled Circuits

Water-cooled Circuits	Cooling Capacity @ 50˚ LFT	Minimum Load	Condenser Water Flow GPM (LPM)	Power MCA	Power MOP	Height inches (CM)	Width inches (CM)	Depth inches (CM)
GSWC175	51 (179)	19.9 (70)	153 (579)	92	165	79.0 (201)	36.0 (92)	96.4 (245)
GSWC210	62 (218)	23.8 (84)	187 (708)	101	181	79.0 (201)	36.0 (92)	102.3 (260)
GSWC245	71 (250)	28.7 (101)	213 (806)	123	222	79.0 (201)	36.0 (92)	103.9 (264)
GSWC280	81 (285)	30.8 (108)	242 (916)	133	239	79.0 (201)	36.0 (92)	104.0 (265)
GSWC350	101 (355)	30.9 (109)	304 (1151)	131	235	79.0 (201)	36.0 (92)	111.0 (282)
GSWC420	125 (440)	42.2 (148)	375 (1420)	183	328	79.0 (201)	36.0 (92)	114.4 (291)

Air-cooled Circuits

Air-cooled Circuits	Cooling Capacity @ 50˚ LFT	Minimum Load	Power MCA	Power MOP	Height inches (CM)	Width inches (CM)	Depth Inches (CM)
GSRC175	46 (162)	13.7 (48)	122	210	79.0 (201)	36.0 (92)	80.5 (205)
GSRC210	54 (190)	15.7 (55)	138	235	79.0 (201)	36.0 (92)	84.6 (215)
GSRC245	63 (222)	18.9 (66)	121	205	79.0 (201)	36.0 (92)	82.8 (211)
GSRC280	72 (253)	21.5 (76)	145	246	79.0 (201)	36.0 (92)	83.6 (213)
GSRC350	90 (317)	25.1 (88)	171	290	79.0 (201)	36.0 (92)	87.8 (223)
GSRC420	113 (397)	34.9 (123)	225	382	79.0 (201)	36.0 (92)	90.5 (230)

Remote Condensers

Remote Condenser	Nominal Capacity Tons (Kw)	Condenser Sections	Total CFM	Height inches (CM)	Width inches (CM)	Depth inches (CM)
RC175	50 (175)	3	38,061	76.0 (193)	107.8 (274)	46.7 (119)
RC245	60 - 70 (210 - 245)	4	50,748	76.0 (193)	142.8 (363)	46.7 (119)
RC280	80 (280)	5	63,436	76.0 (193)	177.9 (452)	46.7 (119)
RC350*	100 (350)	6*	76,123	76.0 (193)	107.8 (274)	134.8 (343)
RC420*	120 (420)	8*	101,498	76.0 (193)	142.8 (363)	134.8 (343)