

CIRCULATION HEATERS

Zerostart®

TOPSTART



CE
Models Available
Upon Request



Circulates warm coolant throughout the engine to provide even heat distribution.

APPLICATION(S)

- Mid to large size engines
- Power Generation
- Large stationary equipment

TYPE OF HEATING

- Forced Flow

FEATURES

- Integrated, gland-less circulation pump Flow rate: 1.6 to 2m³/h to 3m height manometer (7 to 8.8 gpm at 4.7 PSI)
- Integrated, gland-less circulation pump
- Die cast aluminum housing
- PA66 electrical cover and supports base
- Available power 0.5 to 12kw *120, 208, 230, 240, & 480V* 50 or 60 Hz
- 1 & 3 phase
- Adjustable, regulating thermostat 32-176°F (0-80°C)
- Safety thermostat 230°F (110°C), manual reset rated at 25A
- 4.9' (150cm) power cable
- Mounting & connection (3/4" NPT or BSP) kit included



Part No.	Old Part No.	Hertz	Volts	Phase	Watts	Regulating Thermostat	Safety Thermostat	Control Box	Plug Type	Certifications
TSG120120MTS13	3301004	60	120	1	2000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	No	NEMA L5-30	UL
TSG208120MTS21	3301008	60	208	1	2000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	No	NEMA 6-15	UL
TSG208130MTS22	3301010	60	208	1	3000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	No	D - NEMA 6-20	UL
TSG208130MCTS22	3301110	60	208	1	3000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	No	D - NEMA 6-20	UL
TSG208190MCBTSCB	3301013	60	208	1	9000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230125MTS21	3301019	60	240	1	2720	32-176°F (0-80°C)	230°F (110°C) w/manual reset	No	B - NEMA 6-15	UL
TSG230130MTS22	3301020	60	240	1	3270	32-176°F (0-80°C)	230°F (110°C) w/manual reset	No	D - NEMA 6-20	UL
TSG230140MTS23	3301021	60	240	1	4360	32-176°F (0-80°C)	230°F (110°C) w/manual reset	No	Blunt Wire	UL
TSG230140MCBT4CB	3301022	60	240	1	4360	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230340MCBT4CB	3301026	60	240	3	4360	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230160MCBTSCB	3301023	60	240	1	6530	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230360MCBTSCB	3301027	60	240	3	6530	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230190MCBTSCB	3301024	60	240	1	9800	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230390MCBTSCB	3301028	60	240	3	9800	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230112MCBTSCB	3301025	60	240	1	13100	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG230312MCBTSCB	3301029	60	240	3	13100	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG480140MCBT4CB	3301046	60	480	1	4000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG480340MCBT4CB	3301050	60	480	3	4000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG480160MCBTSCB	3301047	60	480	1	6000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG480360MCBTSCB	3301051	60	480	3	6000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG480190MCBTSCB	3301048	60	480	1	9000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG480390MCBTSCB	3301052	60	480	3	9000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG4801120MCBTSCB	3301049	60	480	1	12000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL
TSG4803120MCBTSCB	3301053	60	480	3	12000	32-176°F (0-80°C)	230°F (110°C) w/manual reset	Yes	Blunt Wire	UL

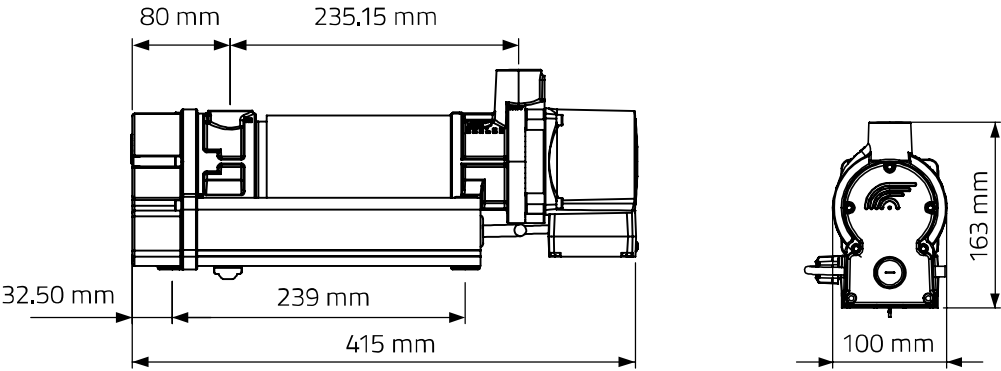
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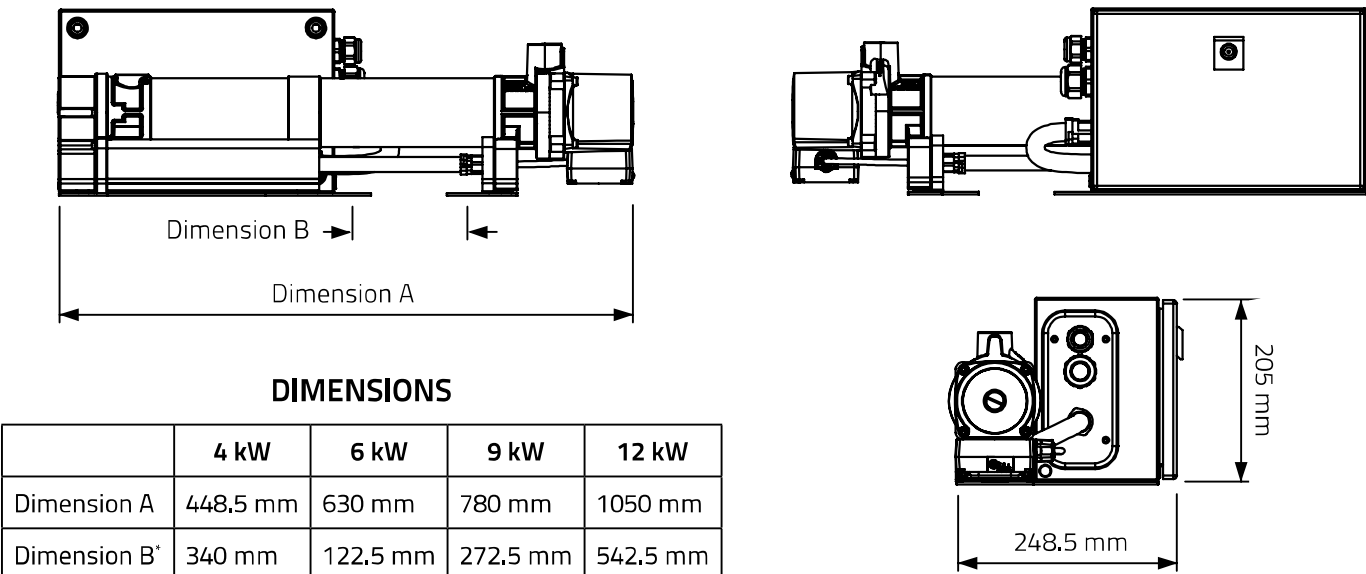
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PRODUCT DIMENSIONS

Circulation Heater



Circulation Heater with Control Box



*Mounting hole distance (center to center)