

TOPSTART 4-14 KW

The TopStart is an electric coolant heater with an integrated pump and control box for large engine heating.

BENEFITS

- Even distribution of heat to eliminate cold spots
- Ability to accept load and maintain required engine starting temperature
- Reduces engine wear

APPLICATIONS

- Gensets
- Large equipment



SPECIFICATIONS

Heating Unit

- Die cast aluminum body
- PA66 electrical covers and support base
- Heating element made of Incoloy 800

Circulating Pump

- Glandless circulation pump
- Flow rate: 1.6 to 2m³/h to 3m height manometer (7 to 8.8 gpm at 4.7 PSI)
- Pump can be configured to run continuously or switched on with element

Regulating Adjustable Thermostat

- 32-176°F (0-80°C)

Safety Thermostat

- Safety thermostat with manual reset rated 25A, 6000 cycles (230°F/100°C)

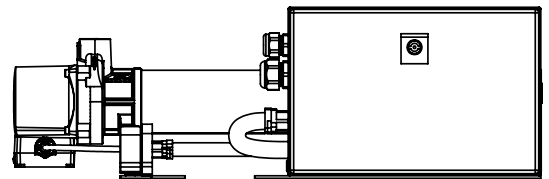
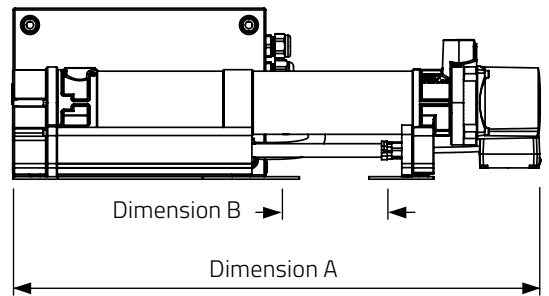
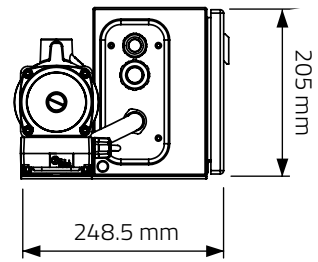
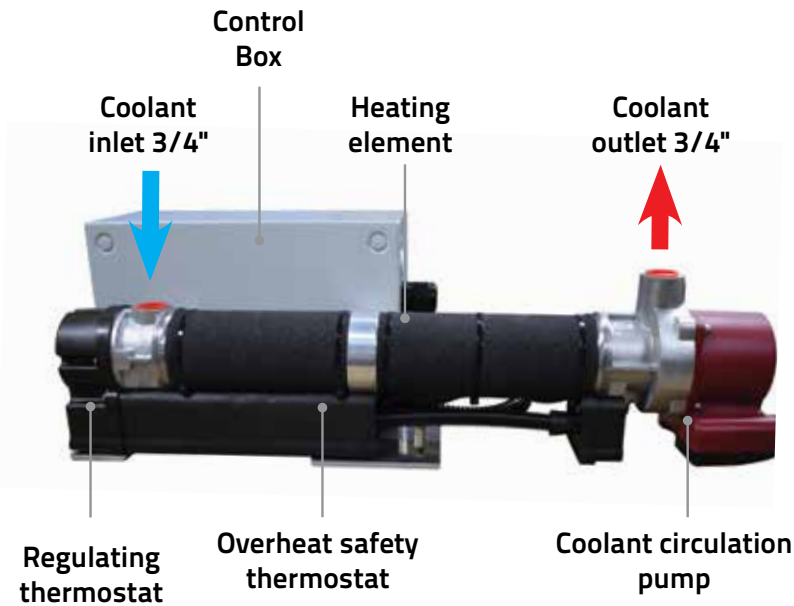
Available Power

- Available power: 4 kW – 13 kW
- Available voltages: 208, 230, 277, 400, 440, 480, 600
- 1φ and 3φ available

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CONTROL BOX

CONTROL BOX (230 V / 3 ϕ 400 V + N)



Weight: 5.5 kg

CONTROL BOX (3 ϕ 400 V / 3 ϕ 480 V)



Weight: 7.5 kg

DIMENSIONS

	4 kW	6 kW	9 kW	12 kW
Dimension A	448.5 mm	630 mm	780 mm	1050 mm
Dimension B*	340 mm	122.5 mm	272.5 mm	542.5 mm

*Mounting hole distance (center to center)

CONNECTION KIT OPTIONS:
3/4" NPT or BSP Threads



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PARTS LIST: UL LISTED

Part Number	Hertz	Volts	Phase	Watts	Regulating Thermostat	Safety Thermostat	Control Box	Plug Type	Certifications
3301011	60	208	1	4000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard Wire	UL
3301012	60	208	1	6000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301013	60	208	1	9000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301014	60	208	1	12000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301021	60	240	1	4360	32-176°F (0-80°C)	230°F (110°C) with manual reset	No	Hard wire	UL
3301022	60	240	1	4360	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301026	60	240	3	4360	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301023	60	240	1	6530	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301027	60	240	3	6530	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301024	60	240	1	9800	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301028	60	240	3	9800	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301025	60	240	1	13100	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301029	60	240	3	13100	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301046	60	480	1	4000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301050	60	480	3	4000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301047	60	480	1	6000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301051	60	480	3	6000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301048	60	480	1	9000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301052	60	480	3	9000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301049	60	480	1	12000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL
3301053	60	480	3	12000	32-176°F (0-80°C)	230°F (110°C) with manual reset	Yes	Hard wire	UL

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PARTS LIST: CE CERTIFIED

Part Number	Hertz	Volts	Phase	Watts	Regulating Thermostat	Safety Thermostat	Control Box	Plug Type	Certifications
TSW 5023014000 M+CB	50-60	230	1	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5023016000 M	50-60	230	1	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5023016000 M+CB	50-60	230	1	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5023019000 M	50-60	230	1	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5023019000 M+CB	50-60	230	1	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 50230112000 M	50-60	230	1	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 50230112000 M+CB	50-60	230	1	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 504003N4000 M	50-60	400	3 + neutral	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 504003N4000 M+CB	50-60	400	3 + neutral	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 504003N6000 M	50-60	400	3 + neutral	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 504003N6000 M+CB	50-60	400	3 + neutral	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 504003N9000 M	50-60	400	3 + neutral	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE

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Part Number	Hertz	Volts	Phase	Watts	Regulating Thermostat	Safety Thermostat	Control Box	Plug Type	Certifications
TSW 504003N9000 M+CB	50-60	400	3+ neutral	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 504003N12000 M	50-60	400	3+ neutral	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 504003N12000 M+CB	50-60	400	3+ neutral	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5040034000 M	50-60	400	3	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5040034000 M+CB	50-60	400	3	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5040036000 M	50-60	400	3	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5040036000 M+CB	50-60	400	3	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5040039000 M	50-60	400	3	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5040039000 M+CB	50-60	400	3	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 50400312000 M	50-60	400	3	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 50400312000 M+CB	50-60	400	3	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5044035000 M	50-60	440	3	5000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE

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Part Number	Hertz	Volts	Phase	Watts	Regulating Thermostat	Safety Thermostat	Control Box	Plug Type	Certifications
TSW 5044035000 M+CB	50-60	440	3	5000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5044037000 M	50-60	440	3	7000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5044037000 M+CB	50-60	440	3	7000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 50440311000 M	50-60	440	3	11000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 50440311000 M+CB	50-60	440	3	11000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 50440314000 M	50-60	440	3	14000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 50440314000 M+CB	50-60	440	3	14000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5048034000 M	50-60	480	3	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5048034000 M+CB	50-60	480	3	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5048036000 M	50-60	480	3	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5048036000 M+CB	50-60	480	3	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5048039000 M	50-60	480	3	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE

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Part Number	Hertz	Volts	Phase	Watts	Regulating Thermostat	Safety Thermostat	Control Box	Plug Type	Certifications
TSW 5048039000 M+CB	50-60	480	3	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 50480312000 M	50-60	480	3	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 50480312000 M+CB	50-60	480	3	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5069034000 M	50-60	690	3	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5069034000 M+CB	50-60	690	3	4000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5069036000 M	50-60	690	3	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5069036000 M+CB	50-60	690	3	6000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 5069039000 M	50-60	690	3	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 5069039000 M+CB	50-60	690	3	9000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE
TSW 50690312000 M	50-60	690	3	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	No	Hard wire	CE
TSW 50690312000 M+CB	50-60	690	3	12000	0-80°C (32-176°F)	110°C (230°F) with manual reset	Yes	Hard wire	CE