

**THE PRODUCTS YOU NEED.
THE QUALITY YOU WANT.
THE INNOVATION YOU DESERVE.**



**Portable Chillers
Temperature Control Units**



PORTABLE CHILLERS



SMC Series 1/2 to 3-1/2 HP Portable Chiller

SMC 1/2 to 1 1/2 HP Features:

- Environmentally safe HFC-134a
- Compact, serviceable cabinet with space-saving 20" x 26" footprint
- Hermetic reciprocating compressor
- Regenerative turbine horizontally-mounted pump
- Non-ferrous construction piping
- Tube-in-tube evaporator

SMC 2 to 3 1/2 HP Features:

- R410a refrigerant
- Compact footprint
- Branch motor fusing
- Non-fused disconnect switch with single point power connection
- Energy efficient scroll compressor
- "Y" strainer on process water line to evaporator



GP Series 5-15 HP Portable Chiller



- Environmentally friendly, R410a refrigerant
- Branch motor fusing
- "Y" strainer on process water line to evaporator
- Off-the-shelf modular controller is accurate to within +/- 1°F (+/- 0.6°C)
- Easy-to-read LCD display showing system operating status, Set Point and To-Process temperature; remote mount without special configuration
- Multiple screen, 20 character x 8 line display
- Stamped, stainless steel, horizontally mounted pump assures reliability
- Optional web access to controller allows remote diagnostic from qualified technician



GP Series 20-60 HP Portable Chiller



- Environmentally friendly, R410a refrigerant
- Branch motor fusing
- "Y" strainer on process water line to evaporator
- Off-the-shelf modular controller is accurate to within +/- 1°F (+/- 0.6°C)
- Easy-to-read LCD display showing system operating status, Set Point and To-Process temperature; remote mount without special configuration
- Multiple screen, 20 character x 8 line display
- Stamped, stainless steel, horizontally mounted pump assures reliability
- Optional web access to controller allows remote diagnostic from qualified technician



PORTABLE CHILLERS

SMC Series 1/2 to 1-1/2 HP Portable Chiller

Model	Comp., HP (kW)	Standard pump	Nominal chilled water, gpm (lpm)	Refrigerant	Process connection, in. NPT	Oper. weight, lbs. (kg)	Ship. weight, lbs. (kg)
SMC 050	0.5 (0.373)	1.5 gpm @ 24 psig (4.5 lpm @ 207 kPa)	1.2 (4.5)	HFC 134A	0.75	265 (121)	275 (125)
SMC 100	1 (0.746)	2.4 gpm @ 34 psig (9.0 lpm @ 234 kPa)	2.4 (9.0)	HFC 134A	0.75	325 (148)	335 (153)
SMC 150	1.5 (1.12)	3.6 gpm @ 24 psig (13.6 lpm @ 07 kPa)	3.6 (13.6)	HFC 134A	0.75	345 (157)	355 (162)

SMC Series 2 and 3-1/2 HP Air Cooled/Water Cooled/Remote Air Cooled Portable Chiller

Model	Compressor	Evaporator	Reservoir	Pump HP	Height, in. (mm)	Width, in. (mm)	Depth, in. (mm)	Weights, lbs (kg)		
								PSA	PSW	PSR
SMC 2	Hermetic scroll	Stainless steel copper brazed plate	6 gallons	1	PSA-49.66; PSW-28.31	22	41.68	417	440	n/a
SMC 3.5								440	392	n/a

GP Series 5-15 HP Air Cooled/Water Cooled/Remote Air Cooled Condensers — 60 Hz

Model	20 (5TR)	30 (7.5TR)	40 (10TR)	50 (15TR)
Compressor	Hermetic scroll with compressor staging			
Compressor HP (kW)	5 (3.7)	7.5 (5.6)	10 (7.5)	15 (11)
Evaporator	Stainless steel brazed plate			
Reservoir, gal (l)	20 (76)		40 (151)	
Pump HP (kW)	1.5 (1.1)	2 (1.5)		3 (2.2)
Height (in, mm)	GPAC	63 (1600)	81.5 (2070)	80.5 (2044)
	GPWC	60.5 (1537)	60.5 (1537)	79 (2007)
	GPRC			
Depth (in, mm)	35 (889)		44 (1118)	
Width (in, mm)	35 (889)			
Weight lbs (kg)	GPAC	520 (235)	700 (320)	760 (345)
	GPWC	550 (250)	730 (335)	790 (360)
	GPRC			
				980 (445)

Note: Model names represent the nominal kW cooling capacity of each chiller model. (TR) represents tons of refrigeration.

GP Series 20-60 HP Air Cooled/Water Cooled/Remote Air Cooled Condensers — 60 Hz

Model	70 (20TR)	90 (25TR)	105 (30TR)	140 (40TR)	175 (50TR)	210 (60TR)
Compressor	Hermetic scroll with compressor staging					
Compressor HP (kW)	20 (15)	25 (18.7)	30 (22.4)	40 (30.0)	50 (37.3)	60 (45.0)
Evaporator	Stainless steel brazed plate					
Reservoir, gal (l)	70 (265)			140 (530)		
Pump HP (kW)	5 (3.7)					
Height (in, mm)	GPAC	82 (2083)		100 (2540)		
	GPWC	79 (2007)				
	GPRC					
Depth (in, mm)	GPAC	70 (1778)		105 (2667)		140 (3556)
	GPWC			105 (2667)		
	GPRC					
Width (in, mm)	44 (1118)					
Weight lbs (kg)	GPAC	1420 (645)	1520 (690)	1900 (864)	2280 (1035)	2850 (1295)
	GPWC	1410 (640)	1510 (686)	1880 (855)	2210 (1005)	2790 (1268)
	GPRC	1420 (645)	1520 (690)	1900 (864)	2280 (1035)	2850 (1295)

Note: Model names represent the nominal kW cooling capacity of each chiller model. (TR) represents tons of refrigeration.

TEMPERATURE CONTROL UNITS



Micro Series 1/2 and 3/4 HP Temperature Control Unit

Each Micro Series Temperature Control Unit delivers huge performance in a compact package. Available with heater configurations in 3kW, 6kW, or 9kW, these units provide consistent and reliable heating, just the kind of innovation you expect from the leader in temperature control.

- Stainless steel pumps available in 1/2 hp and 3/4 hp with 15 gpm (57 lpm) to 20 gpm (76 lpm) capacities
- An off-the-shelf 1/16th DIN processor-based PID fuzzy logic controller accurate to within +/-1°F
- Operating temperature range of 32°F(0°C) to 250°F (121°C)
- Small footprint and compact size at 23" (58cm) x 17.5" (44cm)



SEU Series 3/4 to 7-1/2 HP Temperature Control Unit

The SEU Series Water Temperature Control Unit meets all of your temperature control needs. Standard features include vertically mounted Incoloy immersion heaters, bronze-fitted centrifugal pumps from 3/4 hp to 7-1/2 hp, solenoid valves up to 3/4" NPT, branch circuit fusing, and automatic vent sequence.

- Off-the-shelf microprocessor based PID temperature controller with Process and Setpoint LED readouts
- Graphic control panel with indicator and warning lights
- Compact cabinet
- Branch fusing
- Independent high temperature safety thermostat



Royal Series 3/4 to 10 HP Temperature Control Unit

Compact units are available in 9kW, 12kW, 18kW, or 24kW configurations. Upright units are available in 9kW, 12kW, 18kW, 36kW, or 48kW configurations. These units provide consistent and reliable heating where city, tower, or chilled water is too cold for direct process use. To minimize energy consumption, a half heat/full heat feature is incorporated into the control circuit.

- Rugged all-cast design minimizes connection points to increase water circuit integrity
- An off-the-shelf, DIN-style, auto-tuning PID fuzzy logic controller accurate to within +/-1°F
- High-flow pumps with 30 gpm to 120gpm capacities
- 2010 Compact: 13"W X 27"D X 28 3/8"H
- 2012 Upright: 13"W X 27"D X 48"H



TEMPERATURE CONTROL UNITS

Micro Series Temperature Control Unit

Pump, HP (kW)	Flow, gpm (lpm)	Pressure, psig (bar)	FLA, 3 kW @ 460/3/60	FLA, 6 kW @ 460/3/60	FLA, 9 kW @ 460/3/60	Height, in. (cm)	Width, in. (cm)	Depth, in. (cm)	Ship. weight, lbs. (kg)
0.5 (0.37)	15 (57)	20 (138)	5.3	8.5	12.3	17.5 (44)	9.5 (24)	23 (58)	110 (50)
0.75 (0.56)	20 (76)	23 (159)	5.7	8.9	12.7	17.5 (44)	9.5 (24)	23 (58)	110 (50)

SEU Series Temperature Control Unit

Pump, HP (kW)	Flow, gpm (lpm)	Pressure, psig (bar)	FLA, 9 kW @ 460/3/60	FLA, 12 kW @ 460/3/60	Height, in. (mm)	Width, in. (mm)	Depth, in. (mm)	Ship. weight, lbs. (kg)
0.75 (0.56)	30 (114)	25 (1.7)	12.7	16.5	25 (635)	12.25 (311)	26 (660)	210 (95)
1 (0.75)	35 (132)	30 (2.0)	13.1	16.9	25 (635)	12.25 (311)	26 (660)	210 (95)
2 (1.49)	50 (189)	30 (2.0)	14.7	18.5	25 (635)	12.25 (311)	26 (660)	210 (95)
3 (2.24)	60 (227)	40 (2.7)	16.1	19.9	25 (635)	12.25 (311)	26 (660)	210 (95)
5 (3.73)	75 (284)	50 (3.4)	18.9	22.7	25 (635)	12.25 (311)	26 (660)	240 (109)
7.5 (5.6)	90 (341)	50 (3.4)	22.3	26.1	25 (635)	12.25 (311)	26 (660)	240 (109)

Royal Series Temperature Control Unit

Style	Pump, hp (kW)	Flow, gpm (lpm)	Pressure, psig (kPa)	FLA, 9 kW @ 460/3/60	Height, in. (cm)	Width, in. (cm)	Depth, in. (cm)	Ship. weight, lbs. (kg)
Compact	0.75 (0.56)	30 (113.6)	25 (172.4)	12.7	28.75 (73)	13 (33)	28 (71.1)	210 (96)
	1 (0.75)	35 (132.5)	30 (206.9)	13.1	28.75 (73)	13 (33)	28 (71.1)	210 (96)
	2 (1.5)	50 (189.3)	30 (206.9)	14.7	28.75 (73)	13 (33)	28 (71.1)	210 (96)
	3 (2.24)	60 (227.1)	35 (241.3)	16.1	28.75 (73)	13 (33)	28 (71.1)	210 (96)
	5 (3.73)	90 (340.7)	50 (344.8)	18.9	28.75 (73)	13 (33)	28 (71.1)	240 (109)
	7.5 (5.6)	120 (454.2)	50 (344.8)	22.3	28.75 (73)	13 (33)	28 (71.1)	240 (109)
Upright	0.75 (0.56)	30 (113.6)	25 (172.4)	12.7	48 (122)	13 (33)	28 (71.1)	210 (96)
	1 (0.75)	35 (132.5)	30 (206.9)	13.1	48 (122)	13 (33)	28 (71.1)	210 (96)
	2 (1.5)	50 (189.3)	30 (206.9)	14.7	48 (122)	13 (33)	28 (71.1)	210 (96)
	3 (2.24)	60 (227.1)	35 (241.3)	16.1	48 (122)	13 (33)	28 (71.1)	210 (96)
	5 (3.73)	75 (283.9)	50 (344.8)	18.9	48 (122)	13 (33)	28 (71.1)	240 (109)
	7.5 (5.6)	75 (283.9)	50 (344.8)	22.3	48 (122)	13 (33)	28 (71.1)	240 (109)
	10 (7.46)	90 (340.7)	55 (379.2)	25.3	48 (122)	13 (33)	28 (71.1)	270 (123)



The M2B+ controller includes a 4 line x 20 character LCD display and fuzzy logic for higher accuracy and better repeatability.



The 1/16 DIN controller offers a user-friendly control panel that features a highly accurate non-proprietary controller with operating status and alarm indicating lights.

TEMPERATURE CONTROL UNITS



6010 Hot Oil Temperature Control Unit

Compact in size, but big in performance, 6010 oil temperature control units provide accurate process temperature control wherever you want it—not wherever it fits. This versatile unit's controls and connections are optimally located for ease of use and hookup.

- Off-the-shelf auto-tune microprocessor-based PID temperature controller with process and set value LED readout
- 2-gallon (8-liter) reservoir
- Check valve on water supply
- IEC contactors
- Compact cabinet with removable panels
- Branch fusing
- 1.5 sq. ft. heat exchanger



2016M Midsize Hot Oil Temperature Control Unit

The 2016M Series Hot Oil Temperature Control Unit provides highly accurate control for production applications requiring a continuous supply of high temperature controlled fluids.

- Single or dual zone (2TCO) models available
- 6 kW heater [maximum operating temp of 400°F (204°C)]
- Microprocessor controller with fuzzy logic
- System status graphic display
- Dual stage immersion heater(s) with IEC contactors
- 550°F (288°C) maximum operating temperature
- Branch circuit protection



2016U Hot Oil Temperature Control Unit

The 2016U Series is designed for easy maintenance and immediate hook-up to process. A rugged cabinet with removable panels provides easy access to all components.

- 550°F (288°C) maximum operating temperature
- Branch fusing
- Non-fused lockable rotary disconnect
- Independent safety thermostat with safety connector
- Y-strainer on From Process line
- Pressure-activated bypass valve
- To Process pressure gauge
- Dual stage immersion heater with IEC contactors



TEMPERATURE CONTROL UNITS

6010 Series Temperature Control Unit

Model	Pump, hp (kW)	Flow, gpm (lpm)	Pressure, psi (kPa, bars)	Dimensions, in. (mm)	Ship Weights, lbs. (kg)
M2B-6010-D	0.75 (0.56)	6 (22.7)	50 (344.8, 3.45)	Height 27 (705)	265 (120)
				Width 13 (330)	
				Depth 31 (787)	

2016M Series Temperature Control Unit

Model	Pump, hp (kW)	Flow, gpm (lpm)	Height, in. (cm)	Width, in. (cm)	Depth, in. (cm)	Ship. weight, lbs. (kg)
2016M-1	1 (0.746)	18 (68.1)	46 (117)	18.25 (46)	42 (107)	600 (273)
2016M-1.5	1.5 (1.119)	18 (68.1)	46 (117)	18.25 (46)	42 (107)	600 (273)
2016M-2	2 (1.492)	24 (90.8)	46 (117)	18.25 (46)	42 (107)	600 (273)
2026M-1 (2 zone)	1 (0.746)	18 (68.1)	46 (117)	36.5 (93)	42 (107)	1200 (546)
2026M-1.5 (2 zone)	1.5 (1.119)	18 (68.1)	46 (117)	36.5 (93)	42 (107)	600 (273)
2026M-2 (2 zone)	2 (1.492)	24 (90.8)	46 (117)	36.5 (93)	42 (107)	600 (273)

2016U Series Temperature Control Unit

Model	2016U-xx				2026U-xx				
	1 hp	1.5 hp	2 hp	3 hp	1 hp	1.5 hp	2 hp	3 hp	
Reservoir Capacity (gal)	17 gallons each zone								
TEFC Pump	HP (kW)	1 (0.75)	1.5 (1.1)	2 (1.5)	3 (2.2)	1 (0.75)	1.5 (1.1)	2 (1.5)	3 (2.2)
	Flow, gpm (lpm)	18 (68)		24 (91)	50 (227)	18 (68)		24 (91)	50 (227)
	Pressure, psig (bar)	30 (2.0)	50 (3.4)	30/50 (2.0/5.4)	50 (5.4)	30 (2.0)	50 (3.4)	30/50 (2.0/5.4)	50 (5.4)
	Connection Size, in.	1"			1.5"	1"			1.5"
Dimensions	Height, in.	62 (1,575)							
	Width, in.	24 (610)				48 (1,220)			
	Depth, in.	34 (864) ≤ 24 kW 44 (1,118) > 24 kW							
Shipping Wt, lbs. (kg)	≤ 24 kW	700 (318)		850 (386)	1400 (635)			1700 (771)	
	> 24 kW	950 (431)		1050 (476)	1900 (862)			2100 (953)	



The M2B+ controller includes a 4 line x 20 character LCD display and fuzzy logic for higher accuracy and better repeatability.



The 1/16 DIN controller offers a user-friendly control panel that features a highly accurate non-proprietary controller with operating status and alarm indicating lights.

For over 90 years, Sterling, Inc. has provided world-class technical services and auxiliary products for the plastics, industrial and sanitary markets. With a commitment to providing value to our customers, we only offer the highest quality equipment for your processing needs.

Sterling has a worldwide sales network staffed with trained representatives knowledgeable in process applications that are responsive and provide useful information and technical assistance. Our sales force draws on years of experience to provide efficient, effective processing solutions.

