



PHOENIXMANUFACTURING.COM

# COMMERCIAL SERVICES

FACTORY ASSEMBLY & PRE-WIRE SERVICES



## COMMERCIAL SERVICES

Simplify and save on your next industrial/commercial evaporative cooler installation job. Phoenix Manufacturing brings the highest level of customer service possible by offering factory assembly and pre-wire services that save both time and money on all your installation jobs.



# SPC

## SINGLE POINT CONNECTION

Simplify and save on your next commercial evaporative cooler installation job with the PMI Factory Pre-wire Service. The SPC requires an electrical supply for the motor voltage as well as a 120V. supply for the contacts, switch box and the 120V. pump. Important Note: The 120V. supply for these items must originate from the space below. This Factory Pre-wire Service includes installation and wiring of the motor, motor sheave, pump, float, control box, and the pump junction box. As well, for Industrial Aerocool we install the wet sections. The control box for the SPC is ready for the 120V. pump supply wire and the motor voltage supply. Perfect for new installations, the SPC includes a lighted switch box for manual control down in the space below and a 120V convenience outlet/switch in a single gang box. (The SPCT120 Programmable Thermostat is an optional accessory)

# SVSPC

## SINGLE VOLTAGE - SINGLE POINT CONNECTION

With the Factory Pre-Wire Single Voltage Service, all the same services provided in the SPC are included, however, the control box for the SVSPC is all wired to receive the voltage specific to the desired motor voltage required. This installation still uses a 120V. pump but the transformer is included if needed for this step down. A simple multi position switch is used for control and the 120V. convenience outlet is not available.



## FEATURES

- Wet Section ships assembled to the blower unit for added value.
- Weather proof NEMA 3R box
- Single phase or 3 phase motor control
- Class 10 overload protection for the 3 phase motors
- Circuit breaker serves as disconnect for motor - separate field supplied disconnect for motor not required
- Separate disconnect for pump/control circuit – easily shut down unit for inspection
- Relay to control pump operation
- Terminal blocks for input/output connections in the control box
- SPC has lighted switch box for remote installation - to control pump and fan operation (requires field-supplied conduit and wiring between control and switch box)
- The SVSPC has a simple multi-position switch for manual control.
- VFD motor (fan) controller option is available upon request. Contact PMI for pricing and availability.



Installation of motor



SPC switch box to control pump and fan operation



Provision & Installation of 120 V. Receptacles in SPC



Installation of 120V. Pump



Installation of Weather proof NEMA 3R Box



Installation of pump J-Box

# FAC

## FACTORY ASSEMBLED COOLER

### On Site & On Time

Speed up the new installation process with ready-to-install units direct from the factory. The FAC, or Factory Assembled Cooler option, provides you the benefits of receiving your order fully assembled and factory tested by a team of trained specialists. Each FAC unit arrives on-site and on-time, ready for installation.

### FEATURES

- Motor, Belt(s) and Sheave installed
- Pump(s) and receptacle box installed
- Industrial AeroCool models: wet section(s) are assembled to the air-handler cabinet.
- Both the motor and pump supply conduit are each stubbed to externally mounted single gang weatherproof junction boxes - simply connect each circuit to code approved supply disconnects to complete installation.

**Note: Motor starters, protection, transformers and disconnects are NOT included in an FAC**



### Factory Assembled Cooler

Model#	Voltage	Media
FACA1-12	120	Aspen
FACA1-24	240	
FACA1-48	480	
FACR1-12	120	Single Inlet Rigid
FACR1-24	240	
FACR1-48	480	
FACR2-12	120	Dual Inlet Rigid
FACR2-24	240	
FACR2-48	480	

**Example Model Number** Order process will be to order the Cooler, Motor, Pump, Float and the FAC option as specified.

### FACA1-12

#### Motor Voltage

- 12 = 120 Volt-Single Phase
- 24 = 240 Volt- Single Phase OR 3-Phase
- 48 = 480 Volt- 3-Phase

#### Media Required

- A1 = Aspen
- R1 = Rigid, Single Inlet
- R2 = Rigid, Dual Inlet

#### Factory Assembled Cooler



When ordering the FAC, SPC, or SVSPC with U.L. Classification or U.L. Listing, recognition will be maintained.



Models: SPCT120

## SPCT120 "GREEN-STAT"

SPC ACCESSORY

### 7-DAY PROGRAMMABLE THERMOSTAT

Our SPCT digital programmable thermostat is the latest addition to our family of energy efficient evaporative cooler controls. This controller is designed exclusively to complement our SPC models. When coupled with our SPC option, the SPCT "Green-Stat" offers all the features of full 7-day programming to our commercial line of coolers. The SPCT "Green-Stat" allows remote thermostatic control of up to 20-SPC units.

- 24 Volt
- Easy to install
- Provides a pad "Pre-Wet" & "Rinse" cycle
- Full 24/7 Programmable capability.
- Compatible with all SPC models
- Large Blue Display for easy low-light viewing
- 365 Day Programmable Calendar
- UL Listed



# SPC AND SVSPC

## NEW INSTALLATION OR RETROFIT

Whether you are installing a new evaporative cooler system or retrofitting an exiting installation, the Phoenix Manufacturing pre-wire services will save you both time and money.

What are the differences between SPC and SVSPC? See the chart below.

Feature	SPC	SVSPC
	NEW INSTALL	RETROFIT
Lighted switch box for easy controls	●	
RSK Switch Off/Pump, Only/Vent, Only/Cool		●
Control Voltage Transformer		●
Pump Transformer	●	●
Motor Contactor	●	●
Pump Contactor	●	●
Thermal Motor Protection	●	●
Fusing	●	●
Disconnect for Primary Voltage	●	●
1000VA Transformer for 208-240/480V 3-phase to 120V. 1-phase		●
Transformer from 120V. to 24V. for the control circuit		●

**Example Model Number** SPC24-176  
 All pumps are 120V... so the proper power for both the pump and motor will need to be brought to the box.

**SPC24-176**

No 2 speed kits available  
 (No kits for M162, M168, M180, or M181A)

**Motor Part Number**  
 The PMI Motor part Number it is matched to.

**SPC Kit voltage (wired for voltage)**  
 12 = 120 Volt motor - single phase  
 24 = 240 Volt motor - single or 3 phase  
 48 = 480 Volt motors - 3 phase only

**Single Point Connection**  
 SPC = New Installations  
 SVSPC = Single Voltage SPC



When ordering the FAC, SPC, or SVSPC with U.L. Classification or U.L. Listing, recognition will be maintained.

New Install	Retrofit	H.P.	Voltage	Phase
SPC12-161	SVSPC12-161	3/4	120	1
SPC12-165	SVSPC12-165	1	120	1
SPC12-169	SVSPC12-169	1 1/2	120	1
SPC12-172	SVSPC12-172	2	120	1
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SPC12-161	SVSPC20-161	3/4	208	1
SPC12-161	SVSPC24-161	3/4	240	1
SPC12-165	SVSPC20-165	1	208	1
SPC12-165	SVSPC24-165	1	240	1
SPC12-169	SVSPC20-169	1 1/2	208	1
SPC12-169	SVSPC24-169	1 1/2	240	1
SPC12-172	SVSPC20-172	2	208	1
SPC12-172	SVSPC24-172	2	240	1
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SPC20-163	SVSPC20-163	3/4	208	3
SPC24-163	SVSPC24-163	3/4	240	3
SPC20-166	SVSPC20-166	1	208	3
SPC24-166	SVSPC24-166	1	240	3
SPC20-167	SVSPC20-167	1	200	3
SPC20-170	SVSPC20-170	1 1/2	208	3
SPC24-170	SVSPC24-170	1 1/2	240	3
SPC20-171	SVSPC20-171	1 1/2	200	3
SPC20-173	SVSPC20-173	2	208	3
SPC24-173	SVSPC24-173	2	240	3
SPC20-174	SVSPC20-174	2	200	3
SPC20-176	SVSPC20-176	3	208	3
SPC24-176	SVSPC24-176	3	240	3
SPC20-177	SVSPC20-177	3	200	3
SPC20-178	SVSPC20-178	5	208	3
SPC24-178	SVSPC24-178	5	240	3
SPC20-179	SVSPC20-179	5	200	3
SPC24-182	SVSPC24-182	7 1/2	240	3
SPC20-183	SVSPC20-183	10	208	3
SPC24-183	SVSPC24-183	10	240	3
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SPC48-163	SVSPC48-163	3/4	480	3
SPC48-166	SVSPC48-166	1	480	3
SPC48-170	SVSPC48-170	1 1/2	480	3
SPC48-173	SVSPC48-173	2	480	3
SPC48-176	SVSPC48-176	3	480	3
SPC48-178	SVSPC48-178	5	480	3
SPC48-182	SVSPC48-182	7 1/2	480	3
SPC48-183	SVSPC48-183	10	480	3



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