HVAC

Product Catalog

• Condensate Removal • Ice Machine Replacement • Evaporative Cooler • Accessories



Industrial





What's New!

Dozens of solutions for a world of applications

- Condensate removal pumps, evaporative cooler pumps, and HVAC accessories
- Applications: Air conditioners, refrigeration, condensing boilers, beverage machines, dehumidifiers, high efficiency gas furnaces, ice machine pumps and coil cleaning

With a 99% first pass yield percentage, customers can be sure Little Giant® pumps will provide years of reliable service.

EC-OP-K

Condensate Removal Pump: Complete Kit

For use with wall mounted air conditioners and fan coils up to 10 kW.

Fully automatic pump reduces vibration and operating noise while improving sustained, maximum pumping performance. Provides quieter starting and stopping of the pump motor. Kit includes all hose fittings and wiring, stylish snap-on cover, and special mounting bracket for quick and easy installation beneath air handler.

See page 7 for more information.

Condensate Removal Pump: Pump Only

The EC-OP is designed for OEM use and has the same features as the EC-OP-K without enclosures and mounting hardware.

For use with wall mounted air conditioners and fan coils up to 10 kW.

See page 7 for more information.



EC-OP-K Installed

See your distributor for more information, or email Franklin Electric at export@LittleGiantPump.com.

HVAC Product Catalog

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More than 400 people work on behalf of the customer at our Oklahoma City facility.



VCMA SERIES High Capacity Model

Applications

 For removal of condensate from air conditioners, condensing boilers, refrigerated display cabinets, and dehumidifiers

Features

- Fully automatic: start, stop, safety switch
- Operating point: 4 m: 70 l/h
- Check valve outlet: 9.5 mm, for 9.5 mm ID tubing
- 2.0 I tank capacity
- Thermally protected motor
- IP 20
- CE, TÜV and BAU approved
- Options: 6 m tubing (VCMA-20ST) and/or CEE electric plug
- 1/30 HP high performance motor
- ABS tank, motor cover, and volute
- Stainless steel shaft
- Removable 9.5 mm barbed check valve
- 3 inlet drain holes

Series Specifications

Capacity: 273 LPH @ 0.31 m

Shut Off: 4.3 m

Liquid Temperature: 50°C

Discharge: 9.5 mm

Impeller: Glass-filled polypropylene

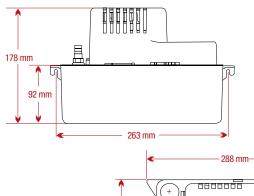
Electrical: 230V, 50Hz 0.6 amps, 60 watts

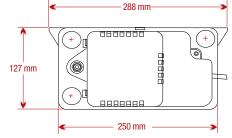
Operation: Automatic

Model Characteristics

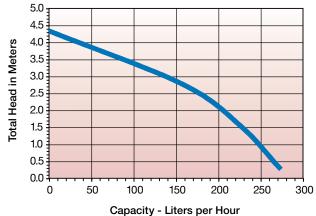
Model	Volts Cord		Capacity	Weight (Kg.)
VCMA-20S	230	1.83 m	273 LPH @ 0.31 m	2.26
VCMA-20ST	230	1.83 m	273 LPH @ 0.31 m	2.72







Performance Curve VCMA-20S 230V, 50Hz



VCC SERIES

Low Profile

Compact Tank

VCC-20S

Applications

 For removal of condensate from air conditioners, condensing boilers, refrigerated display cabinets, and dehumidifiers



Features

- Fully automatic: start, stop, safety switch
- Operating point: 4 m: 70 l/h
- Check valve outlet: 9.5 mm, for 9.5 mm ID tubing
- 1.0 I tank capacity
- Thermally protected motor
- IP 20
- CE, TÜV and BAU approved
- Options: 6 m tubing

- Low profile for limited space applications
- 1/30 HP motor
- ABS tank, motor cover, and volute
- Stainless steel shaft
- Removable 9.5 mm barbed check valve



 For removal of condensate from air conditioners, condensing boilers, refrigerated display cabinets, and dehumidifiers



Features

- Fully automatic: start, stop, safety switch
- Operating point: 4 m: 480 l/h
- Check valve outlet: 9.5 mm, for 9.5 mm ID tubing
- 3.8 I tank capacity
- Thermally protected motor
- IP 20
- CE, TÜV and BAU approved
- Large reservoir and high capacity output for large scale applications
- 1/15 HP motor
- · Galvanized steel tank cover
- · ABS tank, volute and switch cover
- · Stainless steel shaft
- · Snap-action switch

Series Specifications

Capacity: 273 LPH @ 0.31 m

Shut Off: 4.3 m

Liquid Temperature: 50°C

Discharge: 9.5 mm

Impeller: Glass-filled polypropylene

Electrical: 230V, 50Hz

0.6 amps, 60 watts

Operation: Automatic

Series Specifications

Capacity: 840 LPH @ 0.31 m

Shut Off: 5.9 m

 $\textbf{Liquid Temperature:}~50^{\circ}\text{C}$

Discharge: 9.5 mm

Electrical: 230V, 50Hz 1.0 amps, 150 watts

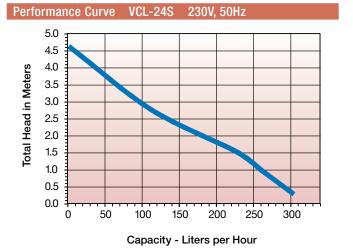
Operation: Automatic

Model Characteristics

Model	Volto	Cord	Di	Weight		
Model	Volts	Cord	Height	Length	Width	(Kg.)
VCC-20S	230	1.8 m	127	300	125	2.44

Model Characteristics Dimensions (mm) Weight Model Volts Cord Width (Kg.) Length Height VCL-24S 305 230 1.8 m 263 150 3.9

Performance Curve VCC-20S 230V. 50Hz 5.0 4.5 4.0 **Fotal Head in Meters** 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 50 100 150 200 250 300 Capacity - Liters per Hour



VCL-45S SERIES

Super High Capacity

Large Tank

VCL-45S

Applications

 For removal of condensate from air conditioners, condensing boilers, refrigerated display cabinets, and dehumidifiers



Features

- Fully automatic: start, stop, safety switch
- Operating point: 4.0 m: 1320 l/h
- Outlet: 9.5 mm, for 9.5 mm ID tubing
- 3.8 I tank capacity
- Thermally protected motor
- IP 20

- CE, TÜV and BAU approved
- 1/4 HP motor
- · Galvanized steel tank cover
- ABS tank, volute and switch cover
- Stainless steel shaft
- · Snap-action switch

1-ABS SERIES Shallow-Pan Tank New improved switch design Applications

- For removal of condensation from an air conditioner drain pan or reservoir
- Designed for use in existing drip tray

Features

- Fully automatic start and stop
- 1/150 HP oil filled motor
- Epoxy coated cast aluminum housing and motor cover
- Nvlon volute
- Stainless steel shaft
- Nitrile shaft seal

- Screened intake
- Advanced mechanical switch
- Starts in 25.4 mm of water, stops at 12.7 mm of water

Series Specifications

Capacity: 1552 LPH @ 0.31 m

Shut Off: 10.5 m

Liquid Temperature: 50°C Discharge: 9.5 mm Impeller: Polypropylene

Electrical: 230V, 50Hz

0.8 amps, 170 watts

Operation: Automatic

Series Specifications

Capacity: 776 LPH @ 0.31 m

Shut Off: 3.0 m

Liquid Temperature: 50°C **Discharge:** 1/4" MNPT

Impeller: Nylon

Electrical: 230V, 50/60Hz, 1.1A

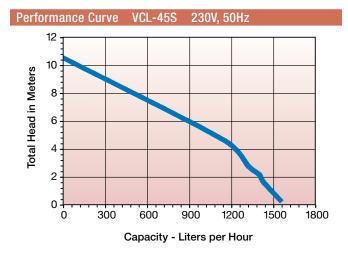
0.6/0.5 amps, 70 watts

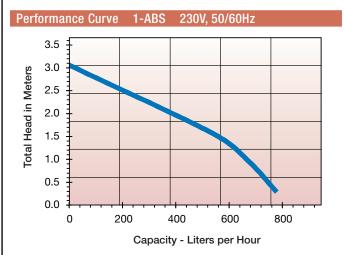
Operation: Automatic

Model Characteristics

Model	Volts	Cord	Cord Dimensions (mm)					
iviouei	VOILS	Coru	Height	Length	Width	(Kg.)		
VCL-45S	230	0.9 m	267	305	150	14		

Model Characteristics Dimensions (mm) Weight Model Volts Cord Width (Kg.) Height Length 3.3 m 110 1-ABS 230 186 94 2.2







• For removal of condensation from an air conditioner drain pan or reservoir

Features

- 1/40 HP oil filled motor
- Epoxy coated cast aluminum housing
- Includes 1.9 I tank
- Nylon volute
- Stainless steel shaft
- Viton® shaft seal

- · Hooded intake
- Advanced mechanical switch
- Thermal overload protection

3-ABS SERIES Shallow-Pan Tank 3-ABS **Applications** • For condensate removal

Features

- 1/12 HP oil filled motor
- Epoxy coated cast aluminum housing and motor cover
- · Galvanized steel tank cover
- ABS tank
- 3.8 I tank capacity
- Nylon volute
- Stainless steel shaft
- 1/2" MNPT discharge with brass check valve for 12.7 mm OD, rigid plastic or copper
- Viton® shaft seal
- Advanced mechanical switch
- Thermal overload protection

Series Specifications

Capacity: 1136 LPH @ 0.31 m Shut Off: 3.60 m

Liquid Temperature: 50°C Discharge: 1/4" MNPT

Impeller: Nylon

Electrical: 230V, 50/60Hz,

0.9/0.7 amps, 100 watts

Operation: Automatic

Series Specifications

Capacity: 1173 LPH @ 0.31 m

Shut Off: 7.9 m

Liquid Temperature: 50°C Discharge: 1/2" MNPT

Impeller: Nylon

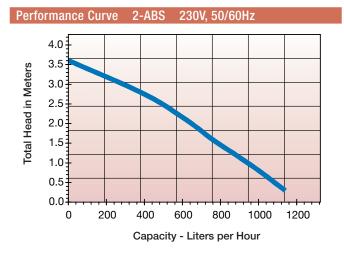
Electrical: 230V, 50/60Hz, 1.8/1.6 amps,

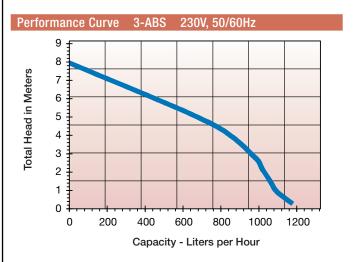
210 watts Operation: Automatic

Model Characteristics

Model Volts		Cord	On Level	Off Level		
3-ABS	230	3.4 m	11.4 cm	8.8 cm		

Model	Volts	Cord	On Level	Off Level		
2-ABS	230	3.3 m	7.6 cm	5.1 cm		





EC-OP SERIES Mini-Split/Ductless



 Removes condensate from wall mounted, ceiling and fan coil air conditioning equipment

Features

- Pump float retainer for easy serviceability
- Clear reservoir for visual inspection of water level, float and filter
- · Safety alarm ready
- 8A resistive 250V alarm contact
- 8 mm inlet tubing with universal adapter
- 4 mm discharge tubing with 6 mm adapter
- 40 m maximum horizontal distance
- IP 54 protection
- 80°C thermal protection

- Safety alarm ready, suitable for BMS systems
- CE / TÜV approved, RoHS compliant

EC-OP-K:

- 30 cm trunking for optional use
- Easy to install mounting bracket
- Stylish pump unit cover fits any décor
- Easy to service without removing from the wall



The EC-OP has a unique design that reduces vibration and operating noise while improving sustained, maximum pumping performance making it ideal for a wide range of environments. The design also provides quieter starting and stopping of the pump motor.

It is an ideal choice when conduit (trunking) is not required. However, it also works well when conduit is required to conceal exposed electrical wiring and refrigeration lines. The unit is adaptable to any situation; it can be installed on the right side (default) or left of the air handler.

Model EC-OP (pump only) includes all wiring and tubing necessary to install the pump but does not include the mounting bracket, cover or 30 cm conduit/ceiling cap.



Series Specifications
Capacity: 7.6 LPH @ 2 m

Shut Off: 9 m

Ambient Temperature: 0° - 40°C

Discharge: 6.35 mm

Material: Flame retardant ABS

Electrical: 230V, 50/60Hz 20 watts

Fuse: 3 amps (recommended, not

included)

Operation: Automatic

Model Characteristics

Model	Volts	Hertz	Dimensions (mm)		Weight	
Wiodei	VOILS	116112	Height	Length	Width	(Kg.)
EC-OP	230	50/60	65	140	57	0.68
EC-OP-K	230	50/60	89	210	81	1.36

The kit, model EC-OP-K comes complete with EC-OP pump, pump concealing cover, 30 cm conduit, ceiling plate and all hardware necessary for fast and easy installation. A template is provided for quick and accurate location beneath any air handler.





Capacity - Liters per Hour

EC SERIES Mini-Split/Ductless



 Removes condensate from wall mounted, ceiling and fan coil air conditioning equipment

Features

- Fully automatic: start, stop, overflow detection (for alarm or equipment shut-down)
- Compact two-piece design for quick and flexible installation
- Pump is self priming and can be placed inside air handler or located up to 1 m above reservoir
- Reservoir connects to 13-17 mm condensate drain
- Design operating point: 6 l/h at 4.0 m
- Use with air conditioning equipment up to 10 kW (30,000 BTU) (4 kW in tropical areas)
- Reservoir vent with tube included
- · Thermally protected motor

- Pump outlet designed for 4 x 6 mm ID tubing
- Pump/control dimensions:
 110 mm x 35 mm x 45 mm
- Reservoir dimensions: 80 mm x 37 mm x 35 mm
- CE / TÜV approved
- IP 20
- Includes:

Suction tubing: 1 m x 4 mm ID Vent tubing: 150 mm x 4 mm ID A/C drain tubing: 75 mm x 13 mm ID



The EC-400 is a complete pumping system designed to remove condensation from wall mounted, ceiling and fan coil split air conditioning equipment when gravity drainage is not possible. The EC-400 consists of two components, the pump/control and float-sensor/reservoir. The compact two-piece design allows for easy installation in most systems. Both components can be placed inside the air handler or the pump/control can be placed up to 1.0 m above the air handler in the ceiling void or inside trunking conduit. A three position symmetrical float sensing system assures reliable ON, OFF and SAFETY ALARM functions. Intake tubing, tube clamps, adhesive tape, vent, and a/c drain tubing included.



Series Specifications

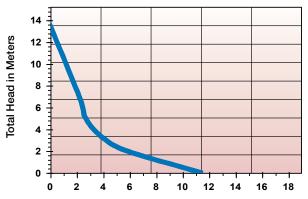
Capacity: 9.5 LPH @ 0.31 m

Shut-Off: 12 m

Electrical: 230V, 50/60Hz, 0.1 amps, 20 watts

Operation: Automatic

Performance Curve EC-400 230V, 50/60Hz



Capacity - Liters per Hour

Operating flow should not exceed 50% pump performance.

Model	Volts	Hertz	Weight (Kg.)
EC-400	230	50/60	0.45
EC-400	230	60	0.45

PC SERIES Peristaltic

Applications

• Self-priming pump that removes condensate from air conditioning systems

Features

- Not affected by dust, bacteria, mold or airborne particles found in condensate
- CE / TÜV approved
- IP 52
- Glass-reinforced polycarbonate pump/motor housing
- Hinged tube cover
- Extra tube assembly included
- Santoprene® tube
- Easy to replace pump tube no tools required
- 5-minute "off" delay (PCS and PCT models)

- Impedance protected motor
- Test switch
- Double insulated pump/motor
- · Wall bracket included
- Recommended for systems up to 12 kW (6 kW in tropical areas)

Designed for Air Conditioners:

- Single/multi-split wall units
- Fan-coils
- Cassettes
- · Ceiling mounted
- · Wall console units



PC condensate pumps can be located in the ceiling void and lift water from wall, floor, ceiling or cassette air conditioning units up to 12 kW. Quieter than other condensate pumps, Little Giant PC pumps feature a totally enclosed motor (no ventilation required), "press-to-activate" switch, 5-minute "off" delay (PCS and PCT), easy to replace pump tube and mounting bracket.

Series Specifications

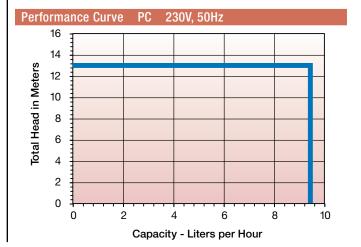
Capacity: 10 LPH @ 14 m Shut Off: 14 m Suction Lift: 2 m Electrical: 230V, 50Hz .06 amps, 13 watts

Alarm Contact: 5A (PCR-10S only)

Model Characteristics

Inlet/Outlet: 6 mm ID

Madal	Valta	Cond	Cord Dimensions (mm)		Weight	
Model	Volts	Cord	Height	Length	Width	(Kg.)
PCS-10	230	1.98 m	114.8	95.5	98.3	1.13
PCT-10	230	1.98 m	114.8	95.5	98.3	1.19
PCR-10	230	1.98 m	114.8	95.5	98.3	1.23
PCR-10S	230	1.98 m	114.8	95.5	98.3	1.30





PCS-10 Controlled by compressor or cooling signal. Requires a 24VAC to 250VAC signal.



PCT-10

Controlled by change in temperature of air moving through air conditioner coil. Thermal sensors continuously measure difference in "air in" and "air out"; when temperature difference reaches 5°C, pump starts. Sensor cable is 2 m.



PCR-10

Controlled by float-operated switches. Activates when water enters float reservoir. Reservoir cable is 1 m.



PCR-10S

Controlled by float-operated switches. Activates when water enters float reservoir. Reservoir cable is 1 m. Incorporates overflow control circuit with 5A volt-free alarm contact.



Applications

• Universal replacement unit for OEM pumps

Features

- 1/25 HP motor, dual voltage motor
- Screened intake
- NSF-listed ABS volute, base and discharge adapters
- Stainless steel shaft
- 4 lead wires, 9 m in length
- Thermal overload protection
- UL-EPH listed

Series Specifications

Discharge: 5/8" Y, 12.7 mm,

15.9 mm, 19 mm & 25.4 mm OD tubing

Impeller: NSF-listed ABS

Model	Volts	Weight (Kg.)
RIM-U	115/230	2.26

Impeller Diameter	Discharge Adapter	Flow - Gallons / Liters per Hour 2 ft / .6 m				
·	(ID Tubing Size)	LPH	GPH			
	12.7 mm / 1/2"	1097	290			
44.5 mm / 1.75"	15.8 mm / 5/8"	1646	435			
44.5 111111 / 1.75	19.1 mm / 3/4"	2044	540			
	24.5 mm / 1"	2214	585			
	12.7 mm / 1/2"	1362	360			
40 E mana / 1 00 II	15.8 mm / 5/8"	2081	550			
46.5 mm / 1.83"	19.1 mm / 3/4"	2649	700			
	24.5 mm / 1"	3066	810			
	12.7 mm / 1/2"	1457	385			
40 E mana / 1 0EII	15.8 mm / 5/8"	2271	600			
49.5 mm / 1.95"	19.1 mm / 3/4"	2876	760			
	24.5 mm / 1"	3122	825			
	12.7 mm / 1/2"	1514	400			
EQ 0 mans / 0 40"	15.8 mm / 5/8"	2271	600			
53.3 mm / 2.10"	19.1 mm / 3/4"	2649	700			
	24.5 mm / 1"	2876	760			

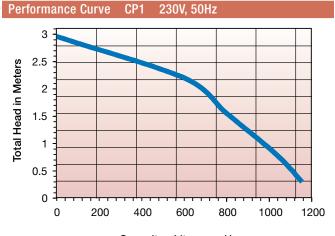
Evaporative Cooler Pumps

CP SERIES

Applications

• For use in evaporative coolers, displays, laboratories, water transfer and other applications; replacement units for OEM equipment

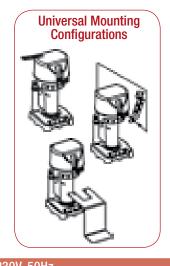
- · Heavy duty concentric fan-cooled motor
- Corrosion-resistant, one-piece steel motor shaft
- Moisture-proof windings
- Oversized sleeve bearings with large oil reservoir
- Universal mounting configurations
- 90° barbed elbow with bleed-off
- Discharge elbow fits 12.7 mm, 15.9 mm or 12.7 mm ID flexible tubing (540015); and 15.9 mm and 12.7 mm ID flexible tubing (541015 and 542015)
- Low pump down and recovery levels
- Flame retardant housing
- Snap-off volute plate for easy cleaning
- Mesh debris screen
- Thermal overload protection
- UR approved



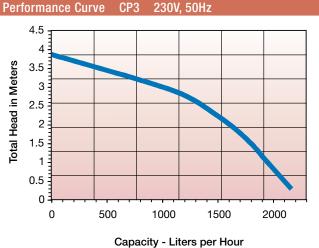
Capacity - Liters per Hour

Model Characteristics Shut Off Replaces Model HP Volts Capacity Cord **CFM Rating** CP-6500, CP-6500T, CP1-230 1/70 230 1162 LPH @ 0.31 m 2.9 m 1.2 m 5000 - 7500 CP-651TLLUR, CP-652T-LLUR CP-10000, CP-10000UR, CP-211T-LLUR, CP-212T-LLUR CP2-230 1/50 7500 - 15000 230 1900 LPH @ 0.31 m 3.4 m 1.2 m CP3-230 1/30 230 2131 LPH @ 0.31 m 3.7 m 1.2 m 15000 - 21000 CP-15000, CP-15000UR

All pumps include mounting bracket, low level operation, filter screen, 1.2 m cable.



Perfo	rma	ınce Cur	ve CP2	230V,	50Hz		
	3.5						
Aeters 2	3 =						
Total Head in Meters	2						
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	C)	500	1000) 1	1500	2000
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Accessories

Auxiliary Condensate Overflow Safety Switch

Applications

 Installs in the condensate drain pan of air conditioning or refrigeration units; reliable equipment shutdown when overflow conditions are detected

Features

- Can install switch to activate audible and/or visual alarm
- · ABS housing
- Polyethylene float
- Low voltage
- Lead wires
- UR / C-CSA listing



Model Characteristics

Model	Wire	Max. VAC	Max. Amps
ACS-2	0.45 m	48 VAC/VDC	5
ACS-2	1.8 m	48 VAC/VDC	5
ACS-3	1.8 m	125-250 VAC/VDC	11

Secondary Condensate Overflow Safety Switch

Applications

 Installs in primary drain pan's auxiliary outlet to detect downstream clogs; reliable equipment shutdown

Features

- Can install switch to activate audible and/or visual alarm
- Low voltage
- Lead wires
- Includes 3/4" MNPT x 3/4" slip adapter
- cULus listing



Model Characteristics

Model	Wire	Max. VAC	Max. Amps
ACS-5	1.8 m	24VAC	5

In-Line Condensate Overflow Safety Switch

Applications

 Installs in drain lines to detect downstream clogs; reliable equipment shutdown

Features

- Can install switch to activate audible and/or visual alarm
- · Low voltage
- Lead wires
- 3/4" plug, 3/4" slip x 3/4" MNPT
- Includes 25.4 mm x 12.7 mm adapter
- cULus listing



Model Characteristics

Model	Wire	Max. VAC	Max. Amps
ACS-4	1.8 m	24VAC	5

Condalert

Condensate Overflow Detection

Applications

For reliable equipment shutdown or warning when leaks and drain overflow conditions are detected

Features

- Control shutdown
- · LED indicator
- 24VAC. 1A
- Solid state water detection circuit
- Mechanical relay switch
- · Designed for air handling industry
- Lead wires



Model	Wire	Drain Alarm	
LC-110	3 m	Secondary pan	Audible buzzer
LC-210	3 m	Secondary pan	-
LC-310	3 m	Primary line and secondary pan	Audible buzzer
LC-410	3 m	Primary line and secondary pan	-

Accessories

CV-2 Check Valve

- For 1-ABS or 2EC-SPT Series pumps
- Use 1/4" FNPT to 6.35 mm OD tubing

Model

CV-2



- For 34C-SPT Series pumps
- Use 1/2" FNPT to 12.7 mm OD rigid-plastic or copper tubing

Model

CV-4

CV-10 Check Valve

- For VCC Series, VCMA Series and VCL-24 pumps
- Use 1/4" MNPT to 9.5 mm ID vinyl tubing

Model

CV-10



- For VCL-45ULS
- Use 9.5 mm OD rigid plastic or copper tubing on both ends

Model

CV-35

CV-14/24 Check Valve

- For VCC Series, VCMA Series and VCL-24 pumps
- Use 1/4" MNPT to 9.5 mm OD rigid plastic or copper tubing

Model

CV-14/24



- Brass check valve for VCMA
- Use 1/4" MNPT to 9.5 mm OD rigid plastic or copper tubing

Model

CV-15/20

ERC Extension Cable

 1 meter extension cable for PCT-10 temperature sensor and PCR-10, PCR-10S and EC-400 reservoir assembly

Model

ERC



 Replacement reservoir assembly for EC-400, PCR-10 and PCR-10S pumps

Model

Reservoir Assembly

T-RPC-10 Tube

 Replacement tube assembly for PC-10 pumps

Model

T-RPC-10

ECF-200 Fuse Kit

• 200 mA fuse kit for EC-400, 230V, 50/60Hz pump

Model

ECF-200

NOTES:

About Our Company.

In 2006, Franklin Electric Company acquired Little Giant Pump Company to solidify our position as a leading global supplier of water pumping systems for residential and commercial markets. Little Giant® products – sump, sewage, effluent, utility, condensate removal, and submersible industrial pumps – complement and broaden Franklin Electric's overall water systems offering.

Little Giant Pump Company, now Franklin Electric – Water Transfer Systems, offers the industry a well-respected brand of products – Little Giant. Founded on quality, availability, service, innovation and value, Franklin Electric continues to bring the Little Giant brand name advantage through Pumps. People. Partnerships.

Franklin Electric is a global leader in the production and marketing of systems and components for the movement of water and automotive fuels. Recognized as a technical leader in its specialties, Franklin serves customers around the world in residential, commercial, agricultural, industrial, municipal, and fueling applications.

Long recognized as the world's largest manufacturer of submersible electric motors, Franklin Electric has been able to leverage its expertise in motor applications to grow and serve several different markets. The principal application for Franklin products is water well pumping systems, where the company offers pumps, motors, drives, and controls. In addition, Franklin Electric produces a vast array of products for fueling systems and the water transfer market.

With 3,200 employees worldwide, Franklin Electric is a global manufacturer with over 20 manufacturing and distribution facilities located in the United States, Germany, Czech Republic, Italy, Mexico, Canada, Australia, South Africa, China, and Japan.

Little Giant products are produced to the following ISO standards:
Quality – 9001:2000
Environmental – 14001:2004

RoHS Compliant

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