

# PROTECH™

*Quality HVAC and Plumbing Parts and Supplies*



**FREE  
TOOLS**

with purchase

**2012 heating  
preseason promotion**

**August 15 – November 30**

# ***NEW PRODUCTS...***



## **PROTECH Humidifiers**

see p10 for details



## **Emerson Blue Thermostats**

see p5 for details



## **Mastercool Products**

see p18 for details



## **Nu-Calgon Products**

see p22 for details



## **Airtec Condensate Pump**

see p14 for details



## **Edge Eyewear**

see p20 for details



## **A/C Leak Freeze**

see p15 for details

We continue to explore products and services that offer you a competitive advantage in the marketplace. In addition, we provide products to support Rheem/Ruud equipment sales by providing Genuine Factory Authorized Parts tested and approved to fully satisfy our company's performance standards.



**BestAir Filters**  
see p10 for details



**Tutco Vent Booster**  
see p15 for details



**CPS Products**  
see p17 for details



**AC Guard**  
see p15 for details

To suggest new products, contact Art Berg at [art.berg@rheem.com](mailto:art.berg@rheem.com). For promotions and marketing programs, please contact Ofelia Reddick at [ofelia.reddick@rheem.com](mailto:ofelia.reddick@rheem.com).



# THERMOSTATS & ALARMS

## Wireless Control System – Pro1 IAQ

- wireless programmable touchscreen thermostat communicates wirelessly to the base module
- up to four indoor remotes and one outdoor temperature sensor can be connected to the wireless thermostat
- base module is hardwired to the heating and cooling system exactly like a wired thermostat
- outdoor sensor can be used to set a dual fuel balance point, which eliminates the need for a fossil fuel kit
- 5-year limited warranty



PART NO	DESCRIPTION	CASE QTY	LIST
PD411093	programmable touchscreen w/humidity control (GE: 2H/2C, HP: 3H/2C)	5	333.30
PD411070	remote indoor sensor	5	124.52
PD411071	remote outdoor sensor	5	89.30

## 900 Series Programmable – Pro1 IAQ

- our best thermostat
- modern premium design
- very large touchscreen display
- universal private label badge
- Pro1 one-size subbase system



PART NO	DESCRIPTION	CASE QTY	LIST
PD411066	T905 1H/1C heat-cool or hp 7-day or 5/1/1 programmable	10	165.12
PD411067	T925 3H/2C hp 7-day or 5/1/1 programmable	10	181.64

## 800 Series – Pro1 IAQ

- sleek “widescreen” design with 8 sq. in. display
- many configuration options can be customized on the job
- universal private label badge
- Pro1 one-size subbase system



PART NO	DESCRIPTION	CASE QTY	LIST
PD411064	T805 1H/1C heat-cool or hp 7-day or 5/1/1 programmable	10	107.15
PD411065	T855 2H/2C heat-cool or 3H/2C hp 7-day or 5/1/1 programmable	10	132.12

## 700 Series Programmable – Pro1 IAQ

- large display
- feature set for residential applications
- great value
- universal private label badge
- Pro1 one-size subbase system



PART NO	DESCRIPTION	CASE QTY	LIST
PD411061	T705 1H/1C heat-cool or hp, 5/1/1	10	66.33
PD411062	T715 2H/2C heat-cool, 5/1/1	10	90.27

## 700 Series Nonprogrammable – Pro1 IAQ

- large display
- feature set for residential applications
- great value
- universal private label badge
- Pro1 one-size subbase system



PART NO	DESCRIPTION	CASE QTY	LIST
PD411060	T701 1H/1C heat-cool or hp	10	59.45
PD411063	T721 2H/1C heat pump, 5/1/1	10	78.61

## 600 Series Wireless – Pro1 IAQ

Allows you to control temperature away from the heat/cool source. Affordable comfort control. High and low speed fan

- heating and cooling set-point limits
- hardwire or battery
- electric or gas configurable
- large blue backlight screen
- 5-year warranty



PART NO	DESCRIPTION	LIST
PD411103	T631W-2 1H/1C heat-cool, 2H/1C hp nonprogrammable	210.03

## 600 Series Programmable – Pro1 IAQ

- large display
- feature set for residential applications
- great value
- universal private label badge
- Pro1 one-size subbase system



PART NO	DESCRIPTION	CASE QTY	LIST
PD411095	T605-2 1H/1C heat-cool or hp, 5/1/1	10	64.27

## 600 Series Nonprogrammable – Pro1 IAQ

- large display
- feature set for residential applications
- great value
- universal private label badge
- Pro1 one-size subbase system



PART NO	DESCRIPTION	CASE QTY	LIST
PD411094	T601-2 1H/1C heat-cool or hp	10	58.15
PD411096	T621-2 2H/1C heat pump	10	74.88

## Custom Imprint – Pro1 IAQ

- **FREE** custom thermostat door imprint
- Universal for all Pro1 models
- Go to [www.pro1iaq.com](http://www.pro1iaq.com) or call 888.776.1427



## THERMOSTATS & ALARMS

### Blue Thermostats – Emerson

**NEW!**

#### EASY SET

The perfect temperature with just one touch. Three simple pre-sets: home, sleep, away. Just press the button and go!

- 3 temperature pre-sets
- dual powered: hardwired or battery
- easy-to-read 2-square inch blue display
- exclusive sleep timer
- 5-year warranty



PART NO	DESCRIPTION	LIST
1F86EZ-0251	1H/1C, nonprogrammable	109.06
1F89EZ-0251	2H/1C hp, nonprogrammable	132.70

#### EASY READER

Offers display numbers and letters twice as large as most other thermostats. User-friendly language and mode buttons with one-touch functionality for easy operation.

- nonprogrammable or selectable 7-day programmable
- hardwired or battery powered with power stealing assist
- 6-square inch display
- dual fuel capable with SmartFuel® Logic Program
- furnace filter change reminder
- 5-year warranty



PART NO	DESCRIPTION	LIST
1F95EZ-0671	4H/2C hp, universal	228.15

#### EASY INSTALL

Upgrade single stage applications to premium high-efficiency systems (staging, heat pump or heat pump with dual fuel) – using existing 4 wires.

- choice of 7 day or non-programmable (installer selectable)
- wiring and configuration is done at the control, mounter near the equipment
- 12-square inch touchscreen – largest in the industry
- furnace filter change reminder
- 5-year warranty



PART NO	DESCRIPTION	LIST
1F98EZ-1421	4H/2C, 4-wire	496.64
1F98EZ-1441	4H/2C, 4-wire, w/outdoor sensor (F145-1378)	530.27

#### WIRELESS EASY INSTALL

Provides wireless temperature and comfort control for HVAC systems. Ideal where pulling wires is difficult and additional temperature sensing is desired. Color-coded LEDs on equipment control validates system wiring.

- compatible with single and multi-stage, heat pump and heat pump with dual fuel applications
- premium humidity control
- choice of 4 or 2 program period per day
- 6-square inch display
- reduces hot and cold spots – add up to 4 wireless sensors
- furnace filter change reminder
- 5-year warranty



PART NO	DESCRIPTION	LIST
1F98EZ-1621	4H/2C, wireless	454.52

### 90 Series Blue – White-Rodgers

- large 12" touchscreen display
- battery or hardwire with battery back-up
- programmable or nonprogrammable
- 5-year limited warranty



PART NO	DESCRIPTION	LIST
1F95-1277	7-day or 5+1+1 (GE: 2H/2C, HP: 3H/2C)	370.64
1F97-1277	7-day or 5+1+1 (GE/HP: 1H/1C)	337.52

### 90 Series Programmable – White-Rodgers

- large lighted display with easy to read characters
- microcomputer technology for precise control
- adaptable to most types 24v residential force air multi-stage or heat pump systems
- 5-year limited warranty



PART NO	DESCRIPTION	LIST
1F95-397	3H/2C, 7-day w/humidity control	321.45

### 80 Series Blue – White-Rodgers

- for single-stage, multi-stage and HP
- 5/1/1 day, 5/2 day programmable or nonprogrammable
- battery or hardwire
- 5-year limited warranty



PART NO	DESCRIPTION	LIST
1F83-0471	multi-stage, nonprogrammable, 4" display (GE: 1H/1C, HP: 3H/2C)	159.36
1F86-0244	1H/1C GE/HP, nonprogrammable, 2" display	93.52

### 80 Series – White-Rodgers

- LCD display with backlight
- compressor short cycle protection
- 5-year limited warranty



PART NO	DESCRIPTION	LIST
1F89-211	2H/1C, nonprogrammable	115.76

### 70 Series Digital – White-Rodgers

- large LCD with backlight
- celsius or fahrenheit
- includes B/O terminal
- 5-year limited warranty



PART NO	DESCRIPTION	LIST
1F78-144	1H/1C single-stage nonprog., vertical	70.70
1F78-151	1H/1C single-stage, 5+2 prog.	82.58

## THERMOSTATS & ALARMS

### Programmable – ICM

- hardwired



PART NO	DESCRIPTION	LIST
SC3211L	2H/2C hp, 7-day programmable	85.73

### Nonprogrammable – ICM



PART NO	DESCRIPTION	LIST
SC2010	1H/1C heat-cool and hp, dual powered	66.45
SC2211L	3H/2C hp, hardwired	102.61
SC2201L	2H/1C hp, hardwired, zone compatible	109.06

### Single Set Point – ICM

- slide bar temperature adjustment
- zone compatible
- manual changeover



PART NO	DESCRIPTION	LIST
SC1001	single set point heat-cool, hardwired	33.03
SC1001V	single set point heat-cool, hardwired	32.94

### Wire Extenders – FAST-STAT

Popular applications include: single and 2-stage cooling, 2-stage heating, heat pump conversions, upgrading PTAC's and RTU's.

- no need to pull new thermostat wire
- installation takes less than 15 minutes



PART NO	DESCRIPTION	LIST
1000	2 contacts normally open provides one additional wire to a cable	54.09
3000	3 contacts normally open provides 4-wire control over a 2-wire cable	108.21
5000	4 contacts normally open provides 6-wire control over a 2-wire cable	162.33
7000	5 contacts normally open for converting an air conditioner to heat pump	216.42
9000	built-in dual fuel controller for converting an air conditioner to heat pump	162.33

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### Duct Smoke Detectors – System Sensor

- integrated low-flow technology
- versatile mounting options: square or rectangular configurations
- air velocity rating from 100ft/minute to 4,000ft/minute



PART NO	DESCRIPTION	LIST
D4120	Photoelectric, 4-wire	239.36
D4120W	Photoelectric NEMA4, 4-wire	320.97

### Duct Smoke Detectors – Air Products

- clear cover fitted with 4 captive screws
- large terminal connection screws
- dust filtering in detector head
- no additional screens or filters to clean
- standard “off the shelf” UL268 smoke detector head
- interchangeable “plug-in” photo-electric or ionization heads
- compatible with building automation and fire alarm



PART NO	DESCRIPTION	LIST
849046	SL2000-N duct smoke detector	257.15

### Carbon Monoxide Monitors – Kidde

#### AC POWERED

- tamper resistant – constant alarm if unit is unplugged or comes loose from outlet
- 9v battery back-up
- easy installation
- 85dB alarm
- 5-year limited warranty



PART NO	DESCRIPTION	CASE QTY	LIST
21006462	CO Alarm plug-in w/battery	6	53.03
21006137	CO Alarm plug-in w/battery, theft deterrent		84.82

#### BATTERY POWERED

- battery operated (3 AA included)
- low battery signal
- battery lockout system deters covering battery compartment without installation of batteries



PART NO	DESCRIPTION	CASE QTY	LIST
21008908	CO Alarm battery operated	6	51.48

### Carbon Monoxide Detector – Air Products

- the sensor performs hidden self test every 24 hours
- the unit keeps a log of its performance history.
- the sensor performs to the National standards set by both OSHA and UL



PART NO	DESCRIPTION	LIST
SL-701	duct mounted kit w/MSR-50/CO remote	1212.09

## W51 Universal Motors – PROTECH™

The PROTECH™ Universal Series of motors is a line of HVAC replacement motors for outdoor condensing units and indoor air handling units. Designed for a wide variety of aftermarket HVAC replacement applications, the PROTECH Universal Series motors are manufactured under strict quality standards at one of the world's largest and most modern motor production facilities. Every motor undergoes a variety of stringent tests before it leaves the assembly line. Additional internal testing and review by our engineering team are conducted to ensure the PROTECH Universal Series of motors meet our standards. The W51 Series of motors can be easily selected for any application using the W51 "smart part" numbering system. All you need to know is the application (such as fan or blower), the horsepower, the voltage, and the speed settings. Detailed specifications and drawings for each motor are also available on Rheemparts.com or Ruudparts.com.

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UNIVERSAL



### TOTALLY ENCLOSED CONDENSER FAN MOTORS

- thru-bolt or belly band mounting
- shell-screw mounting
- sleeve bearing
- 5th wire reversing feature
- 48 frame, 5.5" diameter
- 60hz
- operates in all positions
- 1/2" shaft diameter
- 6.5" shaft length

PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
W51-MHCJA1-01	1/6–1/3	208–230	1075	multi-horsepower universal condenser fan motor	136.42
W51-16CJA1-01	1/6	208–230	1075	universal condenser fan motor	111.36
W51-14CJA1-01	1/4	208–230	1075	universal condenser fan motor	124.79
W51-13CJA1-01	1/3	208–230	1075	universal condenser fan motor	147.61
W51-12CJA1-01	1/2	208–230	1075	universal condenser fan motor	163.15

### DIRECT DRIVE BLOWER MOTORS

- thru-bolt or belly band mounting
- sleeve bearing
- 5th wire reversing feature
- 48 frame
- 60hz
- operates in all positions
- 1/2" shaft diameter
- 4.5" shaft length



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
W51-14BAA3-01	1/4	115	1075/950/850	universal blower motor	116.06
W51-13BAA3-01	1/3	115	1075/950/850	universal blower motor	126.85
W51-12BAA3-01	1/2	115	1075/950/850	universal blower motor	165.73
W51-34BAA3-01	3/4	115	1075/950/850	universal blower motor	163.12
W51-14BJA3-01	1/4	208–230	1075/950/850	universal blower motor	125.18
W51-13BJA3-01	1/3	208–230	1075/950/850	universal blower motor	132.09
W51-12BJA3-01	1/2	208–230	1075/950/850	universal blower motor	149.12
W51-34BJA3-01	3/4	208–230	1075/950/850	universal blower motor	167.30



# MOTORS

## Motors – TripSaver

TripSaver Motors are three motors designed with such a high degree of versatility that they will cover the vast majority of applications a serviceman might encounter requiring a direct drive motor. A must for service vehicle stocking.

- 4 speed taps
- rotation reversible
- 5th wire reversing feature on condenser fan motors
- runs with 5, 7.5 & 10 mfd/370v AC capacitors
- 36" leads with easy to use flag QC terminals
- operates in all positions
- mounts by belly band, thru bolts or shell holes
- 48 frame, 5.5" diameter



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
51-23012-41	1/6 – 1/2	115	1075	4 speed furnace motor	193.12
51-23022-41	1/6 – 1/2	208–230	1075	4 speed air handler motor	193.94
51-23053-21	1/6 – 1/3	208-230	1075	2 speed condenser fan motor	179.33

## Condenser Fan Motors – PROTECH™

These motors are suited for a wide range of applications.

- reversible
- 48 frame
- 36" leads
- PSC
- single phase
- reset protection



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
51-23055-12	1/5	208–230	825	1 speed	162.76
51-23055-11	1/5	208–230	1075	1 speed	141.85
51-23054-11	1/4	208–230	1075	1 speed	160.58
51-23053-11	1/3	208–230	1075	1 speed	158.73
51-23052-11	1/2	208–230	1075	1 speed	187.27

## Blower Motors – PROTECH™

These motors are suited for a wide range of applications.

- reversible, 48 frame, PSC
- electrically reversible - Molex plug
- extended mounting studs
- automatic reset protection
- 36" leads with flag connectors
- sleeve bearing motor for all angle applications



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
51-23024-31	1/4	208–230	1075	3 speed	180.70
51-23023-31	1/3	208–230	1075	3 speed	188.64
51-23012-31	1/2	115	1075	3 speed	226.03
51-23017-42	3/4	115	1075	4 speed	230.76



## Blower Motors – Genteq Evergreen

The Evergreen is the world's first retrofit ECM blower motor. Contractors can now replace a PSC motor with the Evergreen and give consumers the comfort, efficiency and better airflow control of ECM, in an easy-to-install replacement motor.

- works well with IAQ products, like high-efficiency air cleaners and HEPA filters with higher static pressure resistance
- uses up to 25% fewer watts in operating mode and up to 74% fewer watts than a PSC motor in constant fan
- 4 speed selections for heating and cooling
- Rotation Sensing Technology™ automatically configures motor to rotate in the correct direction
- low speed constant fan
- filtration / zoning system enabler
- 2-year limited warranty



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
5SME39HXL110	1/2	120–230	1075	variable speed, reversible blower motor	566.58
5SME39SXL111	1	120–230	1075	variable speed, reversible blower motor	684.18

## Rescue Condenser Motors – U.S. MOTORS

You may not know what kind of motor you will need when you get to the job, but with the RESCUE motors on hand, you know you'll have one that will work.

- replaces a range of different horsepower ratings and applications
- 48 inch leads



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
5464	1/6–1/3	208–230	825	2 speed, reversible	256.52
5462	1/6–1/3	208–230	1075	2 speed, reversible	195.67
5465	1/5–1/2	208–230	1075	2 speed, reversible	251.94

## Wholesale Condenser Motors – U.S. MOTORS

- totally enclosed air over
- single phase, 48 frame
- high performance SAB bearing, 60°C (140°F) rated ambient
- reversible PSC, capacitor not included
- extended mounting studs and leads



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
1860	1/4	208–230	1075	1 speed, reversible	150.24

## Rescue Condenser Motors – U.S. MOTORS

You may not know what kind of motor you will need when you get to the job, but with the RESCUE motors on hand, you know you'll have one that will work.

- replaces a range of different horsepower ratings and applications
- 36 inch leads



PART NO	HP	VOLTS	RPM	DESCRIPTION	LIST
5460	1/6–1/2	120	1075	4 speed, reversible	208.58
5461	1/6–1/2	208–230	1075	4 speed, reversible	212.82

## IAQ PRODUCTS

### Dynamic Air Cleaners

- low resistance to air flow
- no ozone produced during operation
- low power consumption



PART NO	DESCRIPTION	LIST
84-20x20-1	20x20x1 panel filter	463.30
84-20x25-1	20x25x1 panel filter	460.55

SIMILAR SAVINGS ON ALL SIZES

### Electronic Air Cleaners – PROTECH™

- shipped with multiple logo plates
- protects heating and cooling systems
- removes dirt, dust and smoke
- suitable for all types of forced-air systems.



PART NO	DESCRIPTION	LIST
84-25052-07	5" electronic, 1400 cfm, cross reference HE1400	790.45
84-25052-08	5" electronic, 2000 cfm, cross reference HE2000	950.09

### Humidifier Pad – BestAir

**NEW!**

- honeycombed mesh-coated metal



PART NO	DESCRIPTION	CASE QTY	LIST
84-A10	9.5 x 10 x 1-5/8	6	9.67
84-A12	11-3/8 x 14-3/4 x 1-5/8	12	13.61

### Humidifiers – PROTECH™

- brass solenoid
- cleanable filter
- neutral beige color
- 2" pad



**CLOSEOUT... LIMITED QUANTITIES**

PART NO	DESCRIPTION	LIST
84-25054-01	power bypass, 24 gpd, 115v	333.33
84-25054-02	flow thru bypass, 18 gpd, 24v	175.73
84-25054-05	flow thru bypass	175.73

### Media Air Cleaners – PROTECH™

- easy duct-mount installation
- removes up to 95% airborne particles
- fits a wide variety of equipment



PART NO	DESCRIPTION	LIST
84-25050-05	5" media, 1400 cfm, cross ref Air Bear 20x20	162.76
84-25050-06	5" media, 1400 cfm, cross ref Air Bear 16x25	162.76

### Media Replacement Filters – PROTECH™

- universal application
- fits most popular brands
- moisture resistant synthetic media



PART NO	DESCRIPTION	CASE QTY	LIST
54-25051-01	20x25x5, 19.75x24.25x5 actual replaces 84-25050-01, 84-25050-03	3	34.64
54-25051-03	20x20x5, 19.75x20.75x5 actual replaces HW FC100A1011, 84-25050-05	4	39.70
54-25051-04	16x25x5, 15.75x24.25x5 actual replaces 84-25050-06	3	32.45
54-25051-10	20x25x5, 19.75x24.625x4.25 actual replaces HW FC100A1037	3	39.36
54-25051-11	16x20x5, 15.75x19.75x4.25 actual replaces HW FC100A1003	3	40.00
54-25051-12	16x25x5, 15.75x24.25x5 actual replaces HW FC100A1029	3	44.64
54-25051-13	20x20x5, 19.75x20.75x5 actual replaces HW FC100A1011, 84-25050-05	3	45.06

### Humidifiers – PROTECH™

**NEW!**

Models with water saving controls self adjust to compensate for variations in temperature, airflow and water pressure; providing maximum performance and water savings regardless of system conditions.

- Includes self-piercing saddle valve, solenoid valve, humidistat

#### BYPASS

Uses an integral fan to blow air directly over a moisture filled pad into the air stream. Ideal for heat pump applications.



PART NO	DESCRIPTION	LIST
84-25054-09	bypass, without water saver	293.94
84-25054-10	bypass, with water saver	421.21

#### FLOW-THRU

Directs the airflow from the ductwork to pass through a moisture filled pad, so the air stream picks up moisture evenly and distributes it throughout the home.



PART NO	DESCRIPTION	LIST
84-25054-11	fan power flow-thru without water saver	472.73
84-25054-12	fan power flow-thru with water saver	539.39

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## Oval Run Capacitors

- silver finish



PART NO	DESCRIPTION	LIST
43-25134-01	3 mfd/370v AC, single oval	2.09
43-25134-02	5 mfd/370v AC, single oval	2.39
43-25134-03	7.5 mfd/370v AC, single oval	2.94
43-25134-04	10 mfd/370v AC, single oval	3.30
43-25134-05	12.5 mfd/370v AC, single oval	3.61
43-25134-06	15 mfd/370v AC, single oval	4.52
43-25138-01	20 mfd/370v AC, single oval	4.58
43-25138-02	25 mfd/370v AC, single oval	5.12
43-25138-03	30 mfd/370v AC, single oval	5.58
43-25138-04	35 mfd/370v AC, single oval	6.39
43-25138-05	35 mfd/440v AC, single oval	6.97
43-25138-06	40 mfd/370v AC, single oval	7.15
43-25138-07	40 mfd/440v AC, single oval	7.91
43-25138-08	45 mfd/370v AC, single oval	10.24
43-25138-09	45 mfd/440v AC, single oval	9.18
43-25138-10	20 mfd/440v AC, single oval	5.06
43-25138-11	25 mfd/440v AC, single oval	5.58
43-25138-12	30 mfd/440v AC, single oval	6.00
43-25140-01	30+5 mfd/370v AC, dual oval	8.24

## Capacitors – Turbo200

- certified to the highest certification level of UL810 standard, tested and approved for 10,000 AFC; Protected. UL file no. E133000
- can be used with “hard-start” and “soft-start” kits
- all brass plated terminals to increase performance, reliability, prevent corrosion and improve conductivity



PART NO	DESCRIPTION	LIST
439100	Turbo200, 2.5 mfd – 65 mfd	118.15
439101	Turbo200X, 2.5 mfd – 97.5 mfd	155.85
439102	Turbomini, 2.5 mfd – 12.5 mfd	19.79
439103	DSC meter, capacitor bridge	122.12

## Thermocouples

- universal adapter
- stainless tip



PART NO	DESCRIPTION	CASE QTY	LIST
62-25113-01	18" element	10	10.88
62-25113-02	24" element	10	10.88
62-25113-03	36" element	10	11.61

## Ignition Modules – White-Rodgers

### INTEGRATED

- mounting hardware
- extensive cross-reference guide
- additional jumper wires
- wiring harness and a jumper for Trane applications
- terminals for powering a humidifier and electronic air cleaner



PART NO	DESCRIPTION	LIST
50A55-843	universal ignition control module	232.76

### NON-INTEGRATED

- program keys
- mounting hardware
- extensive cross-reference guide
- color-coded timing label



PART NO	DESCRIPTION	LIST
50E47-843	universal ignition control module	224.82

## Hard Start Kits – Kickstart®

- uses a potential relay and start capacitor
- works on all PSC & CSIR air conditioning, heat pump and refrigeration compressors
- instant recycle, senses if motor has started



PART NO	DESCRIPTION	LIST
42-T05	1-3 ton AC/HP, 1-3hp, 208/230/265 volts	67.97
42-KS1	3.5-5 ton AC/HP, 3.5-5hp, 208/230/265 volts	79.52

## 1 & 2 Pole Relays



PART NO	DESCRIPTION	LIST
42-25104-06	1 pole; SPDT “C”; pilot/power; 24v coil	11.00
42-25104-03	1 pole; DPST; 24v coil	11.06
42-25106-01	2 pole; DPDT “D”; pilot/power; 24v coil	13.85

## Transformers

- primary volts: 120/208–240
- secondary volts: 24
- VA 40 configuration



PART NO	DESCRIPTION	LIST
46-25107-04	channel mount transformer	16.64

## Sure Switch – Emerson

- increases reliability and life
- microprocessor control nearly eliminates contact welding and pitting
- lasts up to five times longer than a contactor.
- sealed to keep out ants and debris
- replace most 30A, 1-, 1.5- and 2-pole contactors
- compressor protected from brownouts and short cycling



PART NO	DESCRIPTION	CASE QTY	LIST
49P11-843	universal electronic upgrade for mechanical compressor contactors	8	105.12

## ELECTRICAL CONTROLS

### 2 & 3 Pole Contactors – PROTECH™

Qualified OEM replacements for Rheem, Ruud and WeatherKing equipment when selected from unit parts lists.



PART NO	DESCRIPTION	LIST
42-25102-01	2 pole; 24v; 30 amp	16.79
42-25103-01	2 pole; 24v; 40 amp	33.24
42-25103-03	3 pole; 24v; 40 amp	35.48

### Contactors

Competitively sourced to bring you the quality contactors at the best possible price.



PART NO	DESCRIPTION	LIST
425066	1 pole; 24v AC; 30 amp	8.39
425068	2 pole; 24v AC; 30 amp	11.58
425069	2 pole; 24v AC; 40 amp	13.55
425070	3 pole; 24v AC; 40 amp	19.70

### Fan Center



PART NO	DESCRIPTION	LIST
47-25089-01	120/208–230/24 volts PRI & Sec DPDT; 40 tran VA; 3/4 hp; 13.8 amps	79.06
47-25089-03	120/24 volts PRI & Sec SPDT; 40 tran VA; 3/4 hp; 12.0 amps	68.67

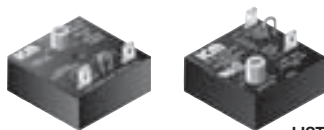
### Sequencing Relays



PART NO	DESCRIPTION	LIST
42-23116-01	one pole, 24v	11.18
42-23116-06	two pole, 24v	12.09

### Time Delays – ICM

- universal voltage operation
- higher 1.5 amp rating
- simple 2-wire hookup
- compact 2" x 2" package



PART NO	DESCRIPTION	LIST
42-ICM102	delay on make	11.18
42-ICM203	delay on break	11.18

### Fan Delays – ICM

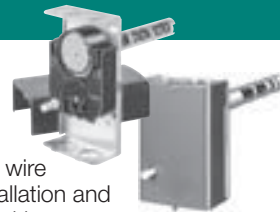
- fan blower control
- 18-30v AC
- dual on/off delay



PART NO	DESCRIPTION	LIST
42-ICM255	pre & post purge	31.21

### Fan & Limit Control

- manual override to keep fan running continuously
- 3 wiring terminal options available for easy installation
- push-in receptacles for stripped wire
- mounting adapters for easy installation and strain relief bushings to protect wiring
- female receptacles for 1/4 in. male flag connectors
- field add-on screw terminals
- controls adapt to many competitive mounting holes in replacement applications
- available in a variety of fan and high limit setting range



PART NO	DESCRIPTION	LIST
47-20545-91	5" fan & limit control	149.55
47-20545-92	8" fan & limit control	166.79
47-20545-93	11.5" fan & limit control	163.21

### Fan Control – ICM



PART NO	DESCRIPTION	LIST
47-ICM280	OEM fan control board	177.61

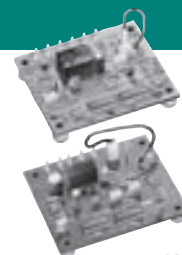
### Furnace Control – ICM



PART NO	DESCRIPTION	LIST
47-ICM281	furnace control board	194.15

### Defrost Control – ICM

- replacement for Carrier, Goodman, Lennox, Nordyne, etc.
- low cost, time and temperature defrost
- HOLD input tracks compressor run times
- fixed defrost time, pin-selectable intervals
- integral short cycle protection



PART NO	DESCRIPTION	LIST
47-ICM300	defrost timer, 24v	45.42
47-ICM301	defrost timer with sensor port, 24v	45.24



# INSTALLATION SERVICE NEEDS

## Nitride Upgrade Kit – White-Rodgers

- replaces over 100 silicon carbide ignitors
- for gas-fired forced-air furnaces, water heaters and boilers
- universal bracket fits most furnaces
- 3-year warranty



PART NO	DESCRIPTION	LIST
21D64-2	HSI Nitride Upgrade Kit - 120v	61.42

## Panel Meters – Cooper Atkins

### DIGITAL METER

- temperature range -40 to 120°F
- designed for OEM replacement in refrigerator and freezers
- removable polycarbonate lens makes battery replacement easy
- flashing display of HHH/HI indicates shorted probe or above max temp; LLL/Lo indicates an open probe or below minimum temperature
- NSF certified
- 1-year warranty



PART NO	DESCRIPTION	LIST
DM120-0-3	2" front flange back connect panel surface mount	96.12

### SOLAR POWER METER

- temperature range -58 to 158°F
- designed to operate in ambient light (natural, fluorescent, incandescent) and have a Lux rating above 100
- 1.5v battery backup (AAA)
- 1-year warranty



PART NO	DESCRIPTION	LIST
SP160-01-8	rectangular white solar panel thermometer	59.76

## HVAC Whips

### NON-METALLIC (PVC) FITTINGS



PART NO	DESCRIPTION	CASE QTY	LIST
849039	1/2" x 4' #10 THHN wire	12	CALL
849040	1/2" x 6' #10 THHN wire	12	CALL
849041	3/4" x 4' #8 THHN wire	12	CALL
849042	3/4" x 6' #8 THHN wire, #10 ground	12	CALL

## Clear Vinyl Tubing



PART NO	DESCRIPTION	LIST
686013	3/8" outside diam, 100' roll	22.30
686014	1/2" inside diam, 100' roll	33.48
686015	5/8" inside diam, 100' roll	42.33

## Tubing Insulation – Aerocel

- 6 ft. length
- Aerocel AC series



PART NO	DESCRIPTION	CASE QTY	LIST
AC11812	1-1/8" ID x 1/2" wall thickness	36	9.06
AC11838	1-1/8" ID x 3/8" wall thickness	48	4.91
AC1238	1/2" ID x 3/8" wall thickness	108	3.12
AC3412	3/4" ID x 1/2" wall thickness	56	5.73
AC3438	3/4" ID x 3/8" wall thickness	70	3.85
AC3838	3/8" ID x 3/8" wall thickness	120	3.12
AC5812	5/8" ID x 1/2" wall thickness	63	5.42
AC5838	5/8" ID x 3/8" wall thickness	88	3.67
AC7812	7/8" ID x 1/2" wall thickness	48	6.15
AC7838	7/8" ID x 7/8" wall thickness	63	4.06

## Filter Driers – PROTECH™

### ONE-WAY LIQUID LINE



PART NO	DESCRIPTION	LIST
83-25151-16	083S, sweat uni-directional	21.18
83-25151-23	163S, sweat uni-directional	24.52
83-25151-24	164S, sweat uni-directional	25.33

### BI-FLOW LIQUID LINE



PART NO	DESCRIPTION	LIST
83-25152-03	083S, sweat bi-directional	40.79
83-25152-05	163S, sweat bi-directional	44.97

## Filter Driers – Sporlan

This machine uses 80% 3A molecular sieve core and 20% active aluminum inside; it is a perfect core mixture for the equipment system which has strong drying requirement and work under lowest frozen temperature. It has the best result to apply to refrigeration of CFC and HCFC (R22, R502) using with the petrol and ALKY-phenyl oil.



PART NO	DESCRIPTION	LIST
83-25208-03	uni-directional, 9 CU in 3/8 S	31.33
83-25208-04	uni-directional, 16 CU in 3/8 S	40.18

## Suction Line Filter Driers – PROTECH™

- full copper fittings – easy to sweat
- low pressure drop – full flow fittings
- dual access valves
- corrosion resistant finish
- rugged steel shells for shock resistance



PART NO	DESCRIPTION	LIST
83-25153-07	standard shell, uni-directional, 166S	44.09
83-25153-08	standard shell, uni-directional, 167S	46.73
83-25153-10	standard shell, uni-directional, 306S	68.42

# INSTALLATION SERVICE NEEDS

## Condensate Pump – Airtec

**NEW!**

- pump installs remotely above ceiling or inside lineset cover
- anti-siphon device included
- universal voltage kit



PART NO	DESCRIPTION	LIST
ASP-MO-UNI	Condensate Pump Kit - Mini Orange (120V/230V)	220.52

## Condensate Pumps – Little Giant

- high impact ABS
- steel motor shaft



PART NO	DESCRIPTION	LIST
84-VCMA-15UL	without safety switch	83.18
84-VCMA-15ULS	with safety switch	88.70
84-VCMA-15ULST	with safety switch and tubing	95.79
84-VCMA-20ULS	with safety switch	98.88

## Condensate Pumps – Sauermann

- thermal protection
- high discharge head
- high flow rate
- compact



PART NO	DESCRIPTION	LIST
SI1805SIUS11	120v, 132 gph, 1/8 gallon tank	75.73
SI1820SIUS11	120v, 132 gph, 1/2 gallon tank	81.79

### MINI CONDENSATE PUMPS

- specially designed for air conditioning units with limited internal space
- simple and easy slide assembly
- no fine mesh filter
- reversible pump mounting



PART NO	DESCRIPTION	LIST
SI3000SIUS11	120v	189.21
SI3000SIUS23	230v	189.21
SI3200SIUS11	5.6 tons, 20ft lift, 120v, 60Hz	232.06
SI3200SIUS23	5.6 tons, 20ft lift, 230v, 60Hz	232.06

## Condensate Overflow Safety Switches – EZ Trap

- designed for installation in the drain pan auxiliary outlet
- detects high condensate levels in drain pans and shuts-off the system
- the switch can be wired to operate as normally open or normally closed; three lead wires



PART NO	DESCRIPTION	LIST
EZT-224	auxiliary drain line mount	23.39
EZT-226	auxiliary drain line mount	23.39

## EZ Trap Condensate Traps – Airtec

### BASIC



PART NO	DESCRIPTION	LIST
EZT-107	cross trap kit - 3/4" side entry <b>CLOSEOUT... LIMITED QUANTITIES</b>	24.88
EZT-113	cross trap kit - 3/4" economy	12.12
EZT-113B	cross trap kit - 3/4" economy w/brush	15.39

### ADVANCED

Includes: standard trap, cross, red cap, bushings, tee, male adapter, black stubs, leads and cleaning brush



PART NO	DESCRIPTION	LIST
EZT-210	cross trap kit - 3/4" standard w/float switch	51.24

## Water Sensors – Aquaguard

- protective housing keeps out insulation and debris
- easy, no-drill installation



PART NO	DESCRIPTION	LIST
AG-1100+	water sensor for metal pans, trigger depth 3/4"	19.06
AG-3150E	compact water sensor, trigger depth 1/8" <b>the NEWS 2010 Dealer Design Award - Bronze</b>	39.36

## Drain Pans – Aquaguard

The Goliath, true to its name, is the strongest, most rugged HVAC secondary pan on the market. The Series include the AG-4200 float switch system as well as vibration isolators that can quiet noisy HVAC units. Pans meet or exceed all international product building codes and are UL approved.



PART NO	DESCRIPTION	CASE QTY	LIST
AG-G28X69	28" x 69", horizontal installation	10	181.79
AG-GF30X36	30" x 36", vertical installation	10	93.91
AG-G30X50	30" x 50", horizontal installation	10	142.39
AG-G30X62	30" x 62", horizontal installation	10	148.45
AG-GF34X79	34" x 79", horizontal installation	10	263.61

## INSTALLATION SERVICE NEEDS

### Field/Draft Controls

Calibrated settings from .02" to .08"



PART NO	DESCRIPTION	LIST
84-6-RC	6" draft control with collar	54.48
84-7-RC	7" draft control with collar	74.73
84-8-RC	8" draft control with collar	115.94

### Duct Saddle

- holds flexible ducts straight
- allows ducts to carry full volume of air
- reduces where condensation collects
- eliminates kinking, sagging and the use of an elbow at the pre-insulated box



PART NO	DESCRIPTION	LIST
DS456	Duct Saddle, accommodates 4-6" duct	11.33
DS712	Duct Saddle, accommodates 7-12" duct	12.97
DS1420	Duct Saddle, accommodates 14-20" duct	16.24
DS712V	Duct Saddle, accommodates 7-12" duct	13.18

### Vent Booster – Tutco

**NEW!**

- minimal heat loss
- easy to install
- no thermostat wiring required
- maintains consistent comfort level
- improved heating efficiency
- eliminates space heaters/wall-mounted units
- cool - unit will assist airflow in air condition mode



PART NO	DESCRIPTION	LIST
81-0468-00	vent booster with heat pack – wireless	583.27
81-0578-00	vent booster with heat pack – wired	548.76

### AC Security Cage – AC Guard

**NEW!**

- AC case is completely adjustable and expands to fit most AC units — residential and commercial
- cases adjusts from 30" x 30" x 34" to 51" x 51" x 59"
- incredibly easy to install



PART NO	DESCRIPTION	LIST
ACGUKIT	air conditioner security cage	572.73

### Equipment Pads – ECO PAD®

- qualifies toward LEED project point requirements
- only pad with corner feet for great stability and leveling
- molded with quality recycled materials
- accepts bolts and screws
- chemical resistant, UV stable
- Made In the USA



PART NO	DESCRIPTION	CASE QTY	LIST
92120001	black, 18" x 36" x 2"	50	33.39
92120002	black, 24" x 24" x 2"	50	30.48
92120007	black, 30" x 30" x 2"	25	39.45
92120011	black, 33" x 33" x 2"	25	45.30
92120015	black, 36" x 36" x 2"	25	51.94
93120006	black, 30" x 30" x 3"	16	50.33
93120010	black, 33" x 33" x 3"	16	52.00
93120016	black, 36" x 36" x 3"	16	80.42
93120021	black, 24" x 24" x 3"	32	36.39
93120022	black, 24" x 36" x 3"	32	47.70

### Leak Freeze – Universal Technologies

**NEW!**

- 1.5 oz. cartridge
- does not contain polymers
- permanently seals leaks in air conditioning and refrigeration systems
- will continue to seal additional leaks for up to 1 year that meet testing specifications
- not activated by moisture or oxygen



PART NO	DESCRIPTION	LIST
00280	A/C Leak Freeze	73.79
00282	A/C Leak Freeze w/Magic Frost	94.52
00284	A/C Leak Freeze – clamshell with adapter	93.42
00286	A/C Leak Freeze w/ Magic Frost – clamshell w/ adapter	113.79

**PROTECH™**  
Quality HVAC and Plumbing Parts and Supplies

## TOOLS & SUPPLIES

### Flexible Shaft Nut Driver Kit – Sensible Products

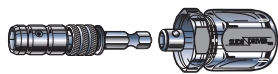
- 2-1/2" and 8 1/2" flexible drivers with heavy-duty flexible shaft
- T-handle for better grip
- 9 - 6 point sockets
- 5 slotted bits
- 3 phillips bits
- 3 torx bits



PART NO	DESCRIPTION	LIST
FSND-1	flexible shaft nut driver kit (23 pieces)	71.39

### Bit Driver/Slide Driver – Sensible Products

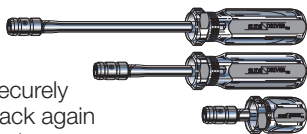
- thumb nut safety lock keeps it firmly in place
- slide from 1/4" to 5/16" and back again without stopping to change sockets
- special magnet holds screw securely at both sizes
- 3" handle makes a slide driver that fits in your pocket
- made of hardened steel



PART NO	DESCRIPTION	LIST
SDBD-1	slide driver/bit driver	58.91

### Bit Driver/Slide Driver – Sensible Products

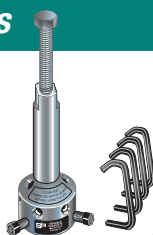
- magnet and socket move in unison so magnet has 100% power at both sizes
- special magnet holds screw securely
- slide from 1/4" to 5/16" and back again without stopping to change sockets
- made of hardened steel



PART NO	DESCRIPTION	LIST
SD-10	10" slide driver	58.91
SD-7	7" slide driver	58.91
SD-3	3" slide driver	58.91

### Fan Puller – Sensible Products

- removes fan blades/blower wheels that are frozen to a motor shaft
- can apply pushing or pulling force
- pulling hooks and set screws provided
- accommodates 5/8" belt drive and 1/2" or less direct drive motor shafts



PART NO	DESCRIPTION	LIST
UP-1	fan blade and blower wheel puller	112.45

### Ratchet Tube Bender Kit – Mastercool

- bends: 3/8, 1/2, 5/8, 3/4, 7/8 soft tubing
- custom-molded case
- includes heavy-duty cutter for 1/8 and 1-1/8 OD tubing
- hand-operated design bends tubes easily



PART NO	DESCRIPTION	LIST
70070	ratchet tube bender	337.30

### Turbo Torch

#### CUTSKILL - CST SERIES

- oxygen regulator
- 12/5' dual "A" 3/16 hose
- goggles, check valves, striker
- fuel regulator
- acetylene check valve
- oxygen check valve



PART NO	DESCRIPTION	LIST
0386-1320	CST-P	444.39
0386-0335	air/acetylene with size 3 and 11 tip	513.76

### CoilJet – SpeedClean

The CoilJet delivers a powerful spray to wash even the dirtiest coils without damaging sensitive fins.

- rechargeable battery powered
- 100 PSI spray



PART NO	DESCRIPTION	LIST
CJ-95	portable coil washing system	1299.97
8945	spray wand use with CJ-95, 36 in., 90°	151.48

### ECM Motor Tester – Zebra

The best tool to diagnose what's going on in an ECM System is an in-line diagnostic tool. The Variable Speed Zebra is exactly that: a tool that connects between the air handler's circuit boards and the motor.

- operates in-line with the system, in real time, testing both major sections (motor and control boards) simultaneously
- monitors the signals going out of the circuit boards, displays them for you and then either (a) passes them along to the motor, or (b) allows you to interrupt the signals and control all the functions of the motor directly
- displays the motor's CFM airflow, the motor's RPM, and the control voltages being sent to the motor's electronics module
- two DVD's are included to teach ECM Theory and ECM Troubleshooting; a printed manual is also included



PART NO	DESCRIPTION	LIST
VZ-7	variable speed Zebra ECM motor tester	672.45
VZH03	X-13 motor adapter (for VZ-7 tester)	121.18
VZH06	ECM condenser fan motor adapter (for VZ-7 tester)	112.79

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Quality HVAC and Plumbing Parts and Supplies



## A/C Drain Sucker – GlenAir

A/C Drain Sucker clears clogged A/C drain pans easily from outside. Provides suction or pressure to clogs and removes water from overflowing pans. Kit includes: drain sucker pump and hoses, all fittings for suction, shock tabs, pan strip treatment



PART NO	DESCRIPTION	CASE QTY	LIST
CADS1	A/C drain sucker	6	61.36

## Manifolds

### MASTERCOOL MANIFOLD SET

- aluminum 3-way ball valve manifold
- one 3/8" SAE vacuum hose
- 90° swivel vacuum ball valve
- large 3 1/8" gauges
- three 60" hoses
- 3 1/4 SAE hoses and manual ball valves



PART NO	DESCRIPTION	LIST
59861	R410A, R22, R404A gauge	337.70

### CPS BLACKMAX MANIFOLD

- aluminum 2-way piston valve manifold
- 1/4" SAE fittings
- triple-seal piston valve system
- non-flutter gauge with front calibration
- anodized aluminum body
- large easy to grab knobs



PART NO	DESCRIPTION	LIST
87-MBD	R410A, R22, R134A gauge	84.82

### CPS MANIFOLD

- aluminum 2-way manifold
- advanced VVS diaphragm valve
- 45° fittings for easy hose storage
- anodized aircraft aluminum block body
- precision flutter-free metal-cased gauges



PART NO	DESCRIPTION	LIST
87-MV2D2	R410A, R22, R134A gauge	141.70

### CPS PRO-SET MANIFOLD **NEW!**

- heavy duty valves for long life usage
- 1% measurement accuracy
- TPE coated metal knobs
- Triple-Seal™ (piston valve design)
- large 3-1/8" gauges
- custom-fitted carrying case included



PART NO	DESCRIPTION	LIST
MT2H7P5E	R-134A, 22, 404A, 410A gauge	261.46

## Leak Detector – CPS **NEW!**

- patented 500+ hour tip performance
- sensitivity remains constant over life of the tip
- 3 "C" batteries provide 50+ hours of service
- capable of sensing all HFC, CFC and HFO refrigerants, superior sensitivity to 400 series
- 2-year warranty



PART NO	DESCRIPTION	LIST
LS1	6 manually adjustable sensing levels	378.24
LS2	fully automatic w/2 adjustable sensing levels	618.75

## Gas Leak Detector – CPS **NEW!**

- visual and audible alarms
- will sense CO<sub>2</sub>, natural gas, propane, ammonia, methane and other critical gases (see cpsproducts.com for full list of gases)
- NOT for use in class 1 (explosive) environment
- battery life of 5 hours

PART NO	DESCRIPTION	LIST
GS30	mini handheld combustible gas detector	119.39

## Refrigerant Charging Scale – CPS **NEW!**

- computer-a-charge scale
- calibrated to strict NIST standards
- large, visible LCD readout displays
- includes automatic off feature



PART NO	DESCRIPTION	LIST
CC100	charging scale, 110lb/50kg	475.54
CC50	charging scale, 55lb/25kg	475.54

## WIRELESS

- 240 lb. capacity
- patented "weight saver memory" for tanks that fall off scale
- 60 hour battery life with 2 "B" type batteries
- 4 corner positioned weight equalizers to assure correct weights on uneven surfaces
- control function up to 35' with cordless controller unit



PART NO	DESCRIPTION	LIST
CC240RF	remote control charging scale, 220lb/110kg	690.30
CC840RF	remote solenoid valve scale, 220lb/110kg	942.46

## Recovery – CPS **NEW!**

- functions as a submersible condenser or evaporator
- Cuts recovery time in half
- Puts money in your pocket every time you use it
- Pays for itself on the first big job
- Maintenance free
- Rugged, compact and easy to use



PART NO	DESCRIPTION	LIST
TR69	recovery sub-cooler and sub-heater	341.18

## TOOLS & SUPPLIES

### Refrigerant Recovery – CPS

**NEW!**

- fastest (up to 4 times faster), lightest (24#), smallest machine on the market
- best speed-to-weight ratio in the industry
- performance increases as ambient temperature rises
- made in the USA
- 2-year warranty
- UL & AHR performance certified



PART NO	DESCRIPTION	LIST
TR21	refrigerant recovery machine	1727.18

### Refrigerant Charging Scale – Mastercool

**NEW!**

- extremely accurate weight sensor
- magnet on remote allows easy placement on fixtures
- battery life symbol for platform and remote constantly displayed on LCD
- wireless signal strength indicator conveniently displays on remote
- wireless unit prevents unwanted tangles in wires
- easily store the remote in the body of the platform
- keypad provides synchronization and zeroing



PART NO	DESCRIPTION	LIST
98310	wireless charging scale	481.79
98315	wireless charging scale with solenoid <b>FREE TUBE CUTTER... \$40 VALUE</b>	666.64

### Refrigerant Recovery – Mastercool

**NEW!**

- safety high pressure switch
- simple internal structure for field service
- largest volume recovery rate in market
- injection molded high density polyethylene case for maximum durability
- front cover has bumper guards built in to reduce damage to the control knob
- for use with all refrigerants including R410A
- revolutionary double piston oil-less compressor



**FREE INFRARED POCKET THERMOMETER... \$35 VALUE**

PART NO	DESCRIPTION	LIST
69300	twin turbo refrigerant recovery machine	1711.88

### Rotary Vane Vacuum Pumps – Mastercool

- gas ballast valve helps prevent oil contamination
- 3 inlet ports: 1/4" FL, 3/8" FL and 1/2" ACME
- high efficiency 2-stage pump
- 25 microns
- manifold valve isolates pump from the system when testing for leaks
- easy access oil fill port



PART NO	DESCRIPTION	LIST
90065	1/3 hp, 1725 rpm, 110v, 60Hz, 5 cfm	672.09
90066-2V-110	1/3 hp, 1725 rpm, 110v, 60Hz, 6 cfm	569.36
90067	1/2 hp, 1725 rpm, 110v, 60Hz, 7.5 cfm	827.73

### Sight Glass – Sporlan

- sweat connections
- easy viewing, fused glass
- reversible indicator colors



PART NO	DESCRIPTION	LIST
83-25211-02	3/8" fitting connection	32.03

### Infrared Thermometer w/Laser – Mastercool

- enhanced backlit LCD display
- includes 1 dial size thermometer
- 2 AAA batteries, carrying case included
- expanded temperature range of 58°–932°F



PART NO	DESCRIPTION	LIST
52224A	infrared thermometer	127.24

### Temperature Instrument – Cooper-Atkins

- -40 to 300°F temp range
- measure and calculate 3 zones of temperature with min, max, average and delta-t calculations with memory
- measure suction and liquid line temperatures simultaneously: across condensing coil, evaporating coils, ambient temperature
- 5-year warranty



PART NO	DESCRIPTION	LIST
SH66A-E	thermistore 3-zone temp w/1075, 2010, 4011	529.64

### Probes – Cooper Atkins

#### SURFACE PROBE

- temperature range -20 to 300°F
- rugged design and built to last this pipe clamp is very durable
- measure pipe diameters up to 1-3/8"
- can be used with any mini type-k instrument
- 1-year warranty



PART NO	DESCRIPTION	LIST
4005MK	pipe clamp surface probe, type-K thermocouple	257.18

#### THERMISTORE PROBE

- temperature range -25 to 212°F
- measure bigger pipe diameters with elastic strap
- thermistor sensor is curved to seat correctly on the pipe and the rugged housing helps shield from ambient temperature fluctuations
- accessory/replacement probe for all Cooper-Atkins Corporation Thermistor test instruments
- 1-year warranty



PART NO	DESCRIPTION	LIST
4011	pipe strap probe with 8" elastic strap	102.61

## Temp-Seeker Thermometer – CPS

Provides instant temperature measurement over a wide range of applications. The unit offers simple one-handed operation, laser point sighting, a backlit display, °C/°F selectability and an automatic power off feature. Carrying case and 9V alkaline battery included.



PART NO	DESCRIPTION	LIST
87-TMINI12	infrared thermometer	187.27

## Pocket Thermometers – Cooper-Atkins

### DIGITAL PEN STYLE

- temperature range -40 to 392°F
- rugged “Accurate for Life” with an IPX7 waterproof rating
- anti-microbial additive on all plastic prevents mold growth.
- reduced tip and <6 second response time .
- NSF certified, lifetime warranty



PART NO	DESCRIPTION	LIST
DPP400W-0-8	waterproof pen style, 2.75" stem	45.67

### DIGITAL PEN STYLE WITH ALARM

- temperature range -40 to 450°F
- rugged “Accurate for Life” with an IPX7 waterproof rating
- anti-microbial additive on all plastic
- reduced tip and <6 second response time
- high temperature alarm
- NSF certified, lifetime warranty



PART NO	DESCRIPTION	LIST
DFP450W-0-8	waterproof pen style, 4.75" stem	59.94

### DIGITAL OVAL STYLE

- temperature range -40 to 302°F
- includes F/C select switch, on/off button
- accurate to 2 degrees, comes with sheath
- lifetime warranty



PART NO	DESCRIPTION	LIST
DT300-0-8	waterproof pen style, 4.75" stem	31.52

### BI-METAL

- temperature range -40 to 180°F
- made with anti-microbial plastic
- includes a red protective sheath with built-in temperature adjustment wrench.
- NSF certified, lifetime warranty



PART NO	DESCRIPTION	LIST
1246-02-1	1" dial, 5" stem	8.76

## Pocket Thermometers – CPS

- 5 inch stainless steel probe
- includes protective sleeve with pocket clip



PART NO	DESCRIPTION	LIST
87-TMDP	digital pocket thermometer	28.06
87-TMAP	analog pocket thermometer	9.06

## Flashlight – Sensible Products



PART NO	DESCRIPTION	LIST
EMF-1	extendable magnetic flashlight	35.70

## Scrubs in a Bucket

- disposable pumice hand cleaner
- impregnated towel
- also available in 30 counts per bucket



PART NO	DESCRIPTION	CASE QTY	LIST
4366-87	80 ct per bucket	6	48.45

## Shubee

### SHOE COVERS



PART NO	DESCRIPTION	CASE QTY	LIST
849101	dark blue, bag of 10 pairs	15	12.09
849115	light blue, bag of 50 pairs	3	63.52

### DISPOSABLE COVERALLS

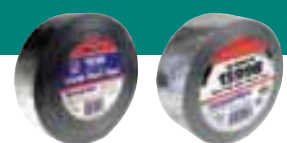
PART NO	DESCRIPTION	CASE QTY	LIST
849122	dark blue, XL	25	14.42

## Tape – Shurtape



PART NO	DESCRIPTION	CASE QTY	LIST
200782	3/4" x 66 ft. black electrical tape	100	2.30
86-232035	3" x 50 yd. foil duct tape	16	22.64
86-155206	2-1/2" x 60 yd. foil duct tape	16	29.88

## Tape – Venture



PART NO	DESCRIPTION	CASE QTY	LIST
864032	2" x 60 yd. silver cloth duct tape	24	22.91
864034	2" x 120 yd. closure tape	24	25.21



## TOOLS & SUPPLIES

### Gloves – Black Mamba

- patented Nitrex® polymer for superior strength and tear resistance
- fully textured with grip-rite finish
- two-ply fusion strength
- three times the chemical resistance of latex or vinyl
- powder-free



PART NO	DESCRIPTION	LIST
849166	box of 100, L	21.52
849167	box of 100, XL	21.52

### Gloves – Youngstown

- non-slip saddle reinforcement protects critical wear area
- non-slip reinforcement increases grip and durability
- supportive cuff with adjustable velcro closure
- terry cloth thumb for wiping sweat and debris
- double-stitched bonded nylon thread for extended life
- available in sizes small–3XL



PART NO	DESCRIPTION	LIST
03-3060-80-L	glove general utility plus, large	40.55
03-3060-80-XL	glove general utility plus, x-large	40.55
03-3110-80-L	glove carpenter plus, large	40.55
03-3110-80-XL	glove carpenter plus, x-large	40.55
03-3200-78-L	glove anti-vibe XT, large	46.79
03-3200-78-XL	glove anti-vibe XT, x-large	46.79
03-3450-80-L	glove waterproof winter plus, large	62.39
03-3450-80-XL	glove waterproof winter plus, x-large	62.39

### COUNTER/HANGING DISPLAY

- counter-top set-up holds 24 pairs
- hanging set-up holds 48 pairs

**FREE with purchase of 24 pairs of gloves**



PART NO	DESCRIPTION	LIST
PD849170	counter/hanging display	<b>FREE</b>

### Safety Glasses – Edge Eyewear

**NEW!**

Edge Eyewear produces designer quality safety rated eyewear. All Edge Eyewear glasses are compliant with ANSI Z87.1 + 2010 and military ballistic MCEPS GL-PD 10-12.

- patented highly flexible nylon frame
- polycarbonate scratch resistant lens
- blocks 99.9% of UVA/UVB/UVC rays



#### KIROVA

PART NO	DESCRIPTION	LIST
AB111AR	anti-reflective	9.24

#### ZORGE

PART NO	DESCRIPTION	LIST
DZ111	clear	10.45
DZ111-2.0	magnifier 2.0	18.33
DZ112	yellow	10.45
DZ116	smoke	10.45

#### KHOR

PART NO	DESCRIPTION	LIST
TSDK215	polarized copper	57.42

#### KAZBEK

PART NO	DESCRIPTION	LIST
TSKAP218	polarized blue	57.42
TSKXL-111	XL black clear	21.52

#### DAKURA

PART NO	DESCRIPTION	LIST
TSM21-G15-7	polarized silver	57.42
TSM216	black smoke polarized	57.42

#### RECLUS

PART NO	DESCRIPTION	LIST
TSRAP	polarized black/aqua percision blue	57.42

#### BRAZEAU

PART NO	DESCRIPTION	LIST
TXB216-S	designer-black/skull polarized smoke	60.45

### COUNTER DISPLAY

Recommended Starter Package  
three of each style.

**FREE Twelve Unit Locking Counter Display.**



PART NO	DESCRIPTION	LIST
9915	locking counter display	<b>FREE</b>

REVISED 8-22-2012



## Cleaners – PROTECH™

- expanding foam action
- alkaline formulation is excellent on greasy oils
- must be thoroughly rinsed with water



PART NO	DESCRIPTION	CASE QTY	LIST
85-501	acid condenser coil cleaner 1 gallon, red	4	20.88
85-1101	non-acid condenser coil cleaner 1 gallon, yellow	4	21.18
85-EC01	envirosafe condenser coil cleaner 18 oz aerosol, foaming	4	19.85
85-401	evaporator coil cleaner 1 gallon, green	4	19.64
85-C01	non-acid condenser coil cleaner 18 oz aerosol, foaming	12	10.58

## Cleaners – Nu-Calgon



PART NO	DESCRIPTION	CASE QTY	LIST
4290-75	Cal-Spray nu-blast, 18 oz aerosol condenser coil cleaner	6	25.73
4296-50	Cal-Spray pan spray leak sealer, 16 oz aerosol	6	37.82
4083-75	Cal-Spray degreasing solvent ef, 20 oz aerosol	6	21.79



PART NO	DESCRIPTION	CASE QTY	LIST
4291-08	nu-brite, non-acid condenser coil cleaner 1 gallon, foaming	4	39.36
4120-08	alka-brite plus condenser coil cleaner 1 gallon, foaming	4	41.21
4133-08	Cal-brite coil cleaner & brightener 1 gallon, biodegradeable	4	51.00
4168-08	Evap Pow'r C evaporator coil cleaner 1 gallon, green	4	35.94

**PROTECH™**  
Quality HVAC and Plumbing Parts and Supplies

## Clean Green – Nu-Calgon

- pleasant smell
- penetrates grease and oil
- all purpose cleaner



PART NO	DESCRIPTION	CASE QTY	LIST
4186-24	1 quart	12	22.55

## Mastic – PROTECH™



PART NO	DESCRIPTION	CASE QTY	LIST
670020	all purpose fibered mastic, off-white	4	29.67
670021	smooth mastic, gray	4	30.27
670022	fibered mastic, gray	4	30.27

AN ORDER QTY OF ONE (1) CONTAINS 4 PIECES OF THIS PART NUMBER

## Mean Green Adhesive – Vapco

- DOT 39 NCR compliant
- instant tack
- non-flammable



PART NO	DESCRIPTION	LIST
MG-LC	non-flammable, 40 lb cylinder	543.00

## Sealants – Nu-Calgon

### NU-CALGON

- no CFCs or HCFCs
- seals and insulates



PART NO	DESCRIPTION	CASE QTY	LIST
4293-04	Nu-Foam expanding sealant, 9 oz	12	16.30
4293-75	Nu-Foam expanding sealant, 20 oz	12	30.94

AN ORDER QTY OF ONE (1) CONTAINS 12 PIECES OF THIS PART NUMBER

## Insulation Slugs – Nu-Calgon

- seals, insulates and general maintenance
- excellent adhesion capability and is non-staining, non-hardening
- unaffected by wide variations in temperature
- excellent thumbing grade



PART NO	DESCRIPTION	LIST
4216-92	Thumb-Tite insulation slugs	20.45

## CHEMICALS

### Rx11-Flush Starter Kit – Nu-Calgon

- everything the first time user needs for flushing
- enough to flush line sets on two 5 ton systems
- only OEM endorsed flush available
- the industry standard for flushing for over a decade



PART NO	DESCRIPTION	CASE QTY	LIST
4300-08	Rx11-flush starter kit	3	219.64

### Rx11-Flush Liquid Starter Kit – Nu-Calgon **NEW!**

- enhanced chemistry for stronger flushing
- optimal boiling point
- leaves no residue
- non-flammable
- non-toxic
- starter kit includes tank, Rx11 liquid canister, hose, flush gun



PART NO	DESCRIPTION	CASE QTY	LIST
4300-38	Rx11-flush liquid starter kit		232.48
4300-30	Rx11-flush non-pressurized liquid, 19.5 oz.		108.21

### RxAcid Scavenger – Nu-Calgon **NEW!**

- works with all refrigerant and oils (except ammonia)
- can be injected into the low side of a running R-22 system,
- easily injects into a running system in less than 2 minutes
- perfect for hermetically sealed systems



PART NO	DESCRIPTION	CASE QTY	LIST
4301-05	Rx-Acid Scavenger (pressurized)		46.76

### Coil Cleaner – Nu-Calgon **NEW!**

- restores efficiency
- metal safe
- super concentrate
- cleans 3-5 ton coils
- simply connect hose, clean and rinse
- suitable for any condenser construction – ideal for painted fin and microchannel coils



PART NO	DESCRIPTION	CASE QTY	LIST
4372-24	TriClean 2X coil cleaner, 1 quart		38.73

### A/C Re-New – Nu-Calgon

- quiets noisy systems
- lowers energy usage
- improves cooling performance
- great for new and old system
- one can treats up to 5 tons



PART NO	DESCRIPTION	LIST
4057-52	2-in-1 display pack	363.61

### A/C EasyDry – Nu-Calgon

- eliminates moisture in residential and commercial systems
- treats up to 5 ton systems
- compatible with all oils and refrigerants
- compliments the system's drier
- prevents acid from forming



PART NO	DESCRIPTION	CASE QTY	LIST
4051-06	A/C EasyDry	6	112.85

### Gel Tabs – Nu-Calgon

- protects drain pan against clogs
- gel formulation locks tab into place
- completely dissolves
- leaves no waxy residue
- up to 3 months of protection
- eliminates foul & musty odors



PART NO	DESCRIPTION	LIST
4185-05	gel tabs, 5 ton	40.12

### A/C Easy Seal – Nu-Calgon

- prevents refrigerant leaks and seals existing leaks in air conditioning and refrigeration systems
- eliminates expensive leak search and repair
- treats 1.5-5 ton systems
- utilizes a reusable hose
- travels with refrigerant to find leaks fast



PART NO	DESCRIPTION	CASE QTY	LIST
4050-02	A/C Easy Seal kit	—	258.03
4050-06	A/C Easy Seal, 3 oz.	6	112.85

### Odor Neutralizer – ClenAir

Used to combat stubborn odors, even those built up over time like cigarette or pet odors. Simply place the gel near source of the odor or in return duct of the central air system. The best product available for musty basements. Great for smoke and water damage. Used by HVAC technicians, professional duct cleaners, janitors and real estate agents.



PART NO	DESCRIPTION	CASE QTY	LIST
85-1500	ClenAir gel tubs, .5 lb	24	13.39
85-1501	ClenAir gel tubs, 1 lb	12	22.06
85-1700D	ClenAir spray, 16 oz	12	19.06
85-1800D	ClenAir gel tubs, .5 lb	12	13.39

**PROTECH™**  
Quality HVAC and Plumbing Parts and Supplies

# FREE TOOLS!

WITH PURCHASE

## Mastercool Wireless Refrigerant Charging Scale

with solenoid and yellow access hose

- capacity: 243 lbs (110 kg)
- accuracy:  $[\pm 0.01 \text{ lb} / \pm 0.01 \text{ kg}]$  or 0.1% of reading whichever is greater.
- resolution: 0.02 lb / 0.01 kg
- automatic shut-off: after 3 hours
- operating temperature: 32–120°F (0–49°C)
- battery life: approximately 20 hours
- accepts all US & EU standard cylinders



PN 98315



**Mastercool®**  
"World Class Quality"

**\$40 VALUE  
FREE**  
with purchase of PN 98315

## FREE Mastercool Heavy Duty Tube Cutter

Includes retractable reamer/file and spare carbide cutting wheel. Carbide wheel cuts hard and soft copper, aluminum, brass, thin wall steel and stainless steel.



## Mastercool Twin Turbo Recovery Machine

- 1/2 HP oil less compressor
- recovery rate: R134a
  - direct vapor up to .526 lb/min
  - direct liquid up to 4.75 lb/min
  - push pull up to 11.68 lb/min
- recovery rate: R22
  - direct vapor up to .63 lb/min
  - direct liquid up to 7.56 lb/min
  - push pull up to 18.3 lb/min
- operating temp: 32–122°F
- weight: 28.3 lbs
- dimensions: 18" x 10" x 14"
- compatible refrigerants: All CFC, HCFC, HFC



PN 69300



**Mastercool®**  
"World Class Quality"

## FREE Mastercool Infrared Pocket Thermometer

Offers accurate non-contact temperature measurement in a compact and easy to use size. Temp range: -67° to 428°F.



**\$35 VALUE  
FREE**  
with purchase of PN 69300

## Youngstown Glove Display

- counter-top set-up holds 24 pairs
- hanging set-up holds 48 pairs

**FREE with purchase of 24 pairs of gloves**

Gloves not included.



PN PD849170



## Edge Eyewear Counter Display

**FREE Locking Counter Display**

with purchase of 12 safety glasses

PN 9915

# 2012 HEATING PRESEASON PROMOTION PRODUCT LISTING

PAGE	PART NO	CASE QTY	LIST PRICE
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## THERMOSTATS

4	PD411093	5	333.30
4	PD411070	5	124.52
4	PD411071	5	89.30
4	PD411066	10	165.12
4	PD411067	10	181.64
4	PD411064	10	107.15
4	PD411065	10	132.12
4	PD411061	10	66.33
4	PD411062	10	90.27
4	PD411060	10	59.45
4	PD411063	10	78.61
4	PD411103	—	210.03
4	PD411095	10	64.27
4	PD411094	10	58.15
4	PD411096	10	74.88
5	1F86EZ-0251	—	109.06
5	1F89EZ-0251	—	132.70
5	1F95EZ-0671	—	228.15
5	1F98EZ-1421	—	496.64
5	1F98EZ-1441	—	530.27
5	1F98EZ-1621	—	454.52
5	1F95-1277	—	370.64
5	1F97-1277	—	337.52
5	1F95-397	—	321.45
5	1F83-0471	—	159.36
5	1F86-0244	—	93.52
5	1F89-211	—	115.76
5	1F78-144	—	70.70
5	1F78-151	—	82.58
6	SC3211L	—	85.73

PAGE	PART NO	CASE QTY	LIST PRICE
6	SC2010	—	66.45
6	SC2211L	—	102.61
6	SC2201L	—	109.06
6	SC1001	—	33.03
6	SC1001V	—	32.94
6	1000	—	54.09
6	3000	—	108.21
6	5000	—	162.33
6	7000	—	216.42
6	9000	—	162.33
6	D4120	—	239.36
6	D4120W	—	320.97
6	849046	—	257.15
6	21006462	6	53.03
6	21006137	—	84.82
6	21008908	6	51.48
6	SL-701	—	1212.09

## MOTORS

7	W51-MHCJA1-01	—	136.42
7	W51-16CJA1-01	—	111.36
7	W51-14CJA1-01	—	124.79
7	W51-13CJA1-01	—	147.61
7	W51-12CJA1-01	—	163.15
7	W51-14BAA3-01	—	116.06
7	W51-13BAA3-01	—	126.85
7	W51-12BAA3-01	—	165.73
7	W51-34BAA3-01	—	163.12
7	W51-14BJA3-01	—	125.18
7	W51-13BJA3-01	—	132.09
7	W51-12BJA3-01	—	149.12
7	W51-34BJA3-01	—	167.30

PAGE	PART NO	CASE QTY	LIST PRICE
8	51-23012-41	—	193.12
8	51-23022-41	—	193.94
8	51-23053-21	—	179.33
8	51-23055-12	—	162.76
8	51-23055-11	—	141.85
8	51-23054-11	—	160.58
8	51-23053-11	—	158.73
8	51-23052-11	—	187.27
8	51-23024-31	—	180.70
8	51-23023-31	—	188.64
8	51-23012-31	—	226.03
8	51-23017-42	—	230.76
9	5SME39HXL110	—	566.58
9	5SME39SXL111	—	684.18
9	5464	—	256.52
9	5462	—	195.67
9	5465	—	251.94
9	1860	—	150.24
9	5460	—	208.58
9	5461	—	212.82

## IAQ PRODUCTS

10	84-20x20-1	—	463.30
10	84-20x25-1	—	460.55
10	84-25052-07	—	790.45
10	84-25052-08	—	950.09
10	84-A10	6	9.67
10	84-A12	12	13.61
10	84-25054-01	—	333.33
10	84-25054-02	—	175.73
10	84-25054-05	—	175.73
10	84-25050-05	—	162.76



PAGE	PART NO	CASE QTY	LIST PRICE
10	84-25050-06	—	162.76
10	54-25051-01	3	34.64
10	54-25051-03	4	39.70
10	54-25051-04	3	32.45
10	54-25051-10	3	39.36
10	54-25051-11	3	40.00
10	54-25051-12	3	44.64
10	54-25051-13	3	45.06
10	84-25054-09	—	293.94
10	84-25054-10	—	421.21
10	84-25054-11	—	472.73
10	84-25054-12	—	539.39

#### ELECTRICAL CONTROLS

11	43-25134-01	—	2.09
11	43-25134-02	—	2.39
11	43-25134-03	—	2.94
11	43-25134-04	—	3.30
11	43-25134-05	—	3.61
11	43-25134-06	—	4.52
11	43-25138-01	—	4.58
11	43-25138-02	—	5.12
11	43-25138-03	—	5.58
11	43-25138-04	—	6.39
11	43-25138-05	—	6.97
11	43-25138-06	—	7.15
11	43-25138-07	—	7.91
11	43-25138-08	—	10.24
11	43-25138-09	—	9.18
11	43-25138-10	—	5.06
11	43-25138-11	—	5.58
11	43-25138-12	—	6.00

PAGE	PART NO	CASE QTY	LIST PRICE
11	43-25140-01	—	8.24
11	439100	—	118.15
11	439101	—	155.85
11	439102	—	19.79
11	439103	—	122.12
11	62-25113-01	10	10.88
11	62-25113-02	10	10.88
11	62-25113-03	10	11.61
11	50A55-843	—	232.76
11	50E47-843	—	224.82
11	42-T05	—	67.97
11	42-KS1	—	79.52
11	42-25104-06	—	11.00
11	42-25104-03	—	11.06
11	42-25106-01	—	13.85
11	46-25107-04	—	16.64
11	49P11-843	8	105.12
12	42-25102-01	—	16.79
12	42-25103-01	—	33.24
12	42-25103-03	—	35.48
12	425066	—	8.39
12	425068	—	11.58
12	425069	—	13.55
12	425070	—	19.70
12	47-25089-01	—	79.06
12	47-25089-03	—	68.67
12	42-23116-01	—	11.18
12	42-23116-06	—	12.09
12	42-ICM102	—	11.18
12	42-ICM203	—	11.18
12	42-ICM255	—	31.21
12	47-20545-91	—	149.55

PAGE	PART NO	CASE QTY	LIST PRICE
12	47-20545-92	—	166.79
12	47-20545-93	—	163.21
12	47-ICM280	—	177.61
12	47-ICM281	—	194.15
12	47-ICM300	—	45.42
12	47-ICM301	—	45.24

#### INSTALLATION SERVICE NEEDS

13	21D64-2	—	61.42
13	DM120-0-3	—	96.12
13	SP160-01-8	—	59.76
13	849039	12	CALL
13	849040	12	CALL
13	849041	12	CALL
13	849042	12	CALL
13	686013	—	22.30
13	686014	—	33.48
13	686015	—	42.33
13	AC11812	36	9.06
13	AC11838	48	4.91
13	AC1238	108	3.12
13	AC3412	56	5.73
13	AC3438	70	3.85
13	AC3838	120	3.12
13	AC5812	63	5.42
13	AC5838	88	3.67
13	AC7812	48	6.15
13	AC7838	63	4.06
13	83-25151-16	—	21.18
13	83-25151-23	—	24.52
13	83-25151-24	—	25.33
13	83-25152-03	—	40.79

PAGE	PART NO	CASE QTY	LIST PRICE
13	83-25152-05	—	44.97
13	83-25208-03	—	31.33
13	83-25208-04	—	40.18
13	83-25153-07	—	44.09
13	83-25153-08	—	46.73
13	83-25153-10	—	68.42
14	ASP-MO-UNI	—	220.52
14	84-VCMA-15UL	—	83.18
14	84-VCMA-15ULS	—	88.70
14	84-VCMA-15ULST	—	95.79
14	84-VCMA-20ULS	—	98.88
14	SI1805SIUS11	—	75.73
14	SI1820SIUS11	—	81.79
14	SI3000SIUS11	—	189.21
14	SI3000SIUS23	—	89.21
14	SI3200SIUS11	—	232.06
14	SI3200SIUS23	—	232.06
14	EZT-224	—	23.39
14	EZT-226	—	23.39
14	EZT-107	—	24.88
14	EZT-113	—	12.12
14	EZT-113B	—	15.39
14	EZT-210	—	51.24
14	AG-1100+	—	19.06
14	AG-3150E	—	39.36
14	AG-G28X69	10	181.79
14	AG-GF30X36	10	93.91
14	AG-G30X50	10	142.39
14	AG-G30X62	10	148.45
14	AG-GF34X79	10	263.61
15	84-6-RC	—	54.48
15	84-7-RC	—	74.73

PAGE	PART NO	CASE QTY	LIST PRICE
15	84-8-RC	—	115.94
15	DS456	—	11.33
15	DS712	—	12.97
15	DS1420	—	16.24
15	DS712V	—	13.18
15	81-0468-00	—	583.27
15	81-0578-00	—	548.76
15	ACGUKIT	—	572.73
15	92120001	50	33.39
15	92120002	50	30.48
15	92120007	25	39.45
15	92120011	25	45.30
15	92120015	25	51.94
15	93120006	16	50.33
15	93120010	16	52.00
15	93120016	16	80.42
15	93120021	32	36.39
15	93120022	32	47.70
15	00280	—	73.79
15	00282	—	94.52
15	00284	—	93.42
15	00286	—	113.79

#### TOOLS AND SUPPLIES

16	FSND-1	—	71.39
16	SDBD-1	—	58.91
16	SD-10	—	58.91
16	SD-7	—	58.91
16	SD-3	—	58.91
16	UP-1	—	112.45
16	70070	—	337.30
16	0386-1320	—	444.39

PAGE	PART NO	CASE QTY	LIST PRICE
16	0386-0335	—	513.76
16	CJ-95	—	1299.97
16	8945	—	151.48
16	VZ-7	—	672.45
16	VZH03	—	121.18
16	VZH06	—	112.79
17	CADS1	6	61.36
17	59861	—	337.70
17	87-MBD	—	84.82
17	87-MV2D2	—	141.70
17	MT2H7P5E	—	261.46
17	LS1	—	378.24
17	LS2	—	618.75
17	GS30	—	119.39
17	CC100	—	475.54
17	CC50	—	475.54
17	CC240RF	—	690.30
17	CC840RF	—	942.46
17	TR69	—	341.18
18	TR21	—	1727.18
18	98310	—	481.79
18	98315	—	666.64
18	69300	—	1711.88
18	90065	—	672.09
18	90066-2V-110	—	569.36
18	90067	—	827.73
18	83-25211-02	—	32.03
18	52224A	—	127.24
18	SH66A-E	—	529.64
18	4005MK	—	257.18
18	4011	—	102.61
19	87-TMINI12	—	187.27

PAGE	PART NO	CASE QTY	LIST PRICE
19	DPP400W-0-8	—	45.67
19	DFP450W-0-8	—	59.94
19	DT300-0-8	—	31.52
19	1246-02-1	—	8.76
19	87-TMDP	—	28.06
19	87-TMAP	—	9.06
19	EMF-1	—	35.70
19	4366-87	6	48.45
19	849101	15	12.09
19	849115	3	63.52
19	849122	25	14.42
19	200782	100	2.30
19	86-232035	16	22.64
19	86-155206	16	29.88
19	864032	24	22.91
19	864034	24	25.21
20	849166	—	21.52
20	849167	—	21.52
20	03-3060-80-L	—	40.55
20	03-3060-80-XL	—	40.55
20	03-3110-80-L	—	40.55
20	03-3110-80-XL	—	40.55
20	03-3200-78-L	—	46.79
20	03-3200-78-XL	—	46.79
20	03-3450-80-L	—	62.39
20	03-3450-80-XL	—	62.39
20	PD849170	—	FREE
20	AB111AR	—	15.14
20	DZ111	—	16.23
20	DZ111-2.0	—	29.86
20	DZ112	—	16.23
20	DZ116	—	16.23

PAGE	PART NO	CASE QTY	LIST PRICE
20	TSDK215	—	95.32
20	TSKAP218	—	95.32
20	TSKXL-111	—	38.05
20	TSM21-G15-7	—	95.32
20	TSM216	—	95.32
20	TSRAP	—	95.32
20	TXB216-S	—	108.95
20	9915	—	FREE

#### CHEMICALS

21	485-501	4	20.88
21	85-1101	4	21.18
21	85-EC01	4	19.85
21	85-401	4	19.64
21	85-C01	12	10.58
21	4290-75	6	25.73
21	4296-50	6	37.82
21	4083-75	6	21.79
21	4291-08	4	39.36
21	4120-08	4	41.21
21	4133-08	4	51.00
21	4168-08	4	35.94
21	4186-24	12	22.55
21	670020	4	29.67
21	670021	4	30.27
21	670022	4	30.27
21	MG-LC	—	543.00
21	4293-04	12	16.30
21	4293-75	12	30.94
21	4216-92	—	20.45
22	4300-08	3	219.64
22	4300-38	—	232.48

PAGE	PART NO	CASE QTY	LIST PRICE
22	4300-30	—	108.21
22	4301-05	—	46.76
22	4372-24	—	38.73
22	4057-52	—	363.61
22	4051-06	6	112.85
22	4185-05	—	40.12
22	4050-02	—	258.03
22	4050-06	6	112.85
22	85-1500	24	13.39
22	85-1501	12	22.06
22	85-1700D	12	19.06
22	85-1800D	12	13.39



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