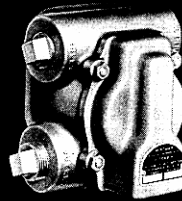
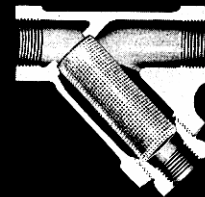


No. 17-C Thermostatic Trap



50 Series Float and Thermostatic Trap



No. 400 "Y" Strain

## Hoffman Heating Accessories

### Low Pressure Thermostatic Traps

number	tapping inches	pattern	max. pressure	EDR capacity	price each
17-C	1/2	Angle	25	200	\$10.64
17-C	1/2	Vertical	25	200	11.84
17-C	1/2	Swivel	25	200	11.84
* 8-C	3/4	Angle	25	400	16.32
* 8-C	3/4	Straightway	25	400	18.08
* 9-C	1	Angle	25	700	20.80

### \*Low Pressure Float Traps

number	connection inches	price each
53-F	3/4	\$ 24.88
54-F	1	31.36
56-F	1 1/4	40.00
57-F	1 1/2	87.04
58-F	2	127.12

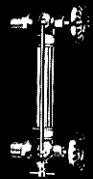
### \*Low Pressure Float and Thermostatic Traps

number	connection inches	price each
53-FT	3/4	\$ 28.08
54-FT	1	34.56
56-FT	1 1/4	43.28
57-FT	1 1/2	90.00
58-FT	2	130.00

### "Y" Strainers—Series 400

size inches	price each	
	125 lb. pressure brass screen	150 lb. pressure monel screen semi-steel
1/2	\$ 5.36	\$ 5.68
3/4	6.08	6.40
1	7.92	8.40
1 1/4	10.56	11.12
1 1/2	14.32	15.04
2	16.00	21.84

\*Medium and high pressure types available—prices and specifications on application.



Water Gauge



Straight Thermometer



Dial Thermometer



Ther-Alti-Meter

Water Gauge, Complete  
Self-cleaning, 3/4" ..... \$6.27  
1/2" ..... 6.40

Thermometer, Glass Tube  
Straight ..... \$2.94  
Angle ..... 3.82

Dial Thermometer  
Straight or Angle  
3 1/2" Dial ..... \$25.07

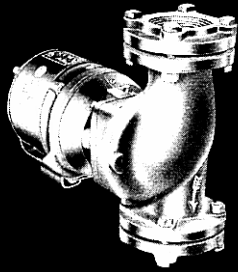
Ther-Alti-Meter  
Square or Round  
3 1/2" Dial ..... \$8.60

## relief valve allowances

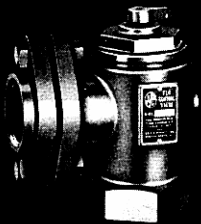
When water boiler is requested less relief valve, specify and deduct from price of boiler the allowance listed below.

Note—Relief valves offered as regular equipment with boilers listed in this book meet the ASME boiler and pressure vessel code requirements, section IV, par. H-97.

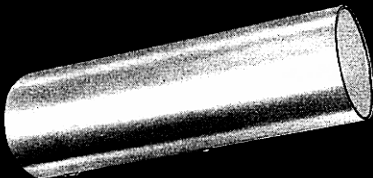
boiler number	allowance for omission	boiler number	allowance for omission	boiler number	allowance for omission
<b>Gas Fired</b>		<b>Oil Burning—Stoker Fired</b>		<b>Oil-Stoker (continued)</b>	
1-GA-E (all sizes).....	\$ 8.96	Arcoleader (all sizes).....	\$ 8.96	A-7 Series	
2-GA-E (all sizes).....	8.96	Arcoliner—wet base.....	8.96	A-705.....	\$18.96
4-GA-E (all sizes).....	8.96	(all sizes—wide and narrow back)		A-706 through A-707.....	26.80
G-4		Severn (all sizes).....	8.96	A-708 through A-711.....	35.52
G-44 through G-47.....	8.96	Oakmont (all sizes).....	8.96	A-712.....	47.36
G-48 through G-411.....	10.32	Exbrook		<b>Hand Fired</b>	
G-6		207.....	8.96	Arcoliner—dry base (all sizes).....	8.96
G-66 and G-67.....	10.24	208 through 2011.....	10.32	Severn	
G-68 and G-69.....	18.96	2012 and 2013.....	17.28	W-17 through W-25.....	8.96
G-610 through G-613.....	26.80	No. 3 Redflash		W-29 through W-37.....	10.32
G-615 through G-619.....	35.52	3-W-8-0, 3-WC-8.....	17.28	No. 3 Redflash	
G-621 through G-637.....	47.36	3-W-9-0, 3-WC-9.....	17.68	3-W-6.....	17.28
G-641.....	57.60	No. 29 Water Tube		3-W-7.....	17.68
		5 through 7 section.....	10.32	3-W-8.....	25.20
		8 through 10 section.....	17.28	3-W-9.....	41.44
		11 and 12 section.....	17.68	A-7 Series	
				A-705-W and A-706-W.....	26.80
				A-707-W through A-709-W.....	35.52
				A-710-W through A-712-W.....	47.36



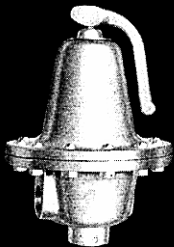
Booster



Angle Flo-Control Valve



Compression Tank



Simplex Relief Valve



No. 12 Low Pressure

## B & G Boosters

number	pipe size flanged inches	motor HP	price each	
			iron body	bronze body
75	¾	1/12	\$100.84	\$122.36
100	1	1/12	100.84	122.36
125	1¼	1/12	100.84	122.36
150	1½	1/12	100.84	122.36
1½	1½	1/6	121.28	169.78
2	2	1/6	141.42	209.16
2½	2½	1/4	186.78	304.58
LD-3	3	1/4	189.44	308.98
HD-3	3	1/3	274.40	388.20
PD-35	3	1/2	296.04	369.54
PD-37	3	¾	365.90	439.40

## B & G Flo-Control Valves

Angle (A), Straight (S) or Straight-Angle (SA) Pattern

size inches	price each	size inches	price each
SA-1	\$13.34	A-3 or S-3	\$ 53.36
SA-1¼	15.16	S-4	140.88
SA-1½	18.82	*SB-¾	14.70
A-2 or S-2	21.34	†BA-1	16.54
A-2½ or S-2½	31.50	†BA-1¼	18.42

\*Bronze—straight.

†Bronze—angle.

## B & G Compression Tanks—Standard

number	size inches	capacity gallons	price each
8	9 x 32	8	\$ 22.76
15	12 x 30	15	26.94
18	12 x 36	18	29.24
24	12 x 48	24	32.54
30	12 x 60	30	36.86
40	13 x 71	40	45.24
60	18 x 60	60	106.72
80	24 x 45	80	146.38

## B & G Relief Valves

Low pressure, maximum pressure setting 30 lbs

Standard construction

High pressure, pressure setting 75 lbs#

number	size inches	body construction	price each	number	size inches	body construction	price each
Simplex	¾	Iron	\$23.36	4	½	Brass	\$13.56
A-3	½	Brass	9.96	5	¾	Brass	13.96
A-8	½	Iron	8.80	9	½	Iron	8.00
				10	¾	Iron	8.26

#Adjustable 40 to 150 lbs. For other setting, specify on order.

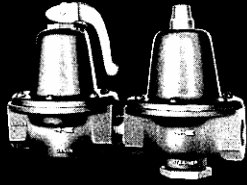
## B & G Reducing Valves

number	size inches	body constr.	delivery pressure pounds	price each
<b>Low Pressure</b>				
12	¾	Iron	12	\$17.62
B-3	½	Brass	12	13.82
B-8	½	Iron	12	11.00
<b>High Pressure</b>				
6	½	Brass	45	\$14.06
7	¾	Brass	45	19.38

Adjustable pressure settings, specify other pressures when ordering.



No. 500 Combination



Nos. 3 and 8 Dual Unit

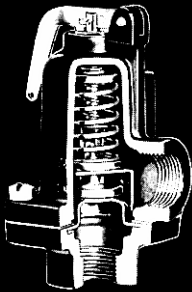


Cast Iron

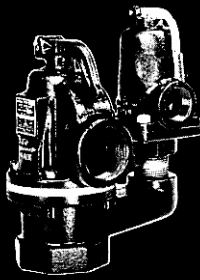


Copper

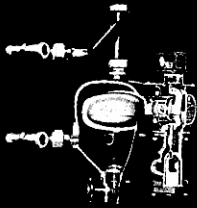
Monoflo Fittings



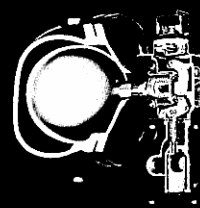
No. 230-1N.-30



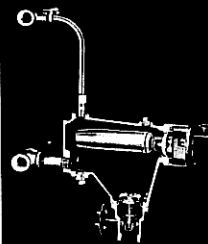
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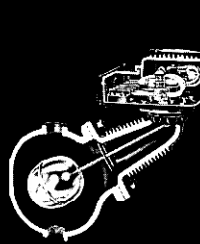
No. 47-2



No. 51-2



No. 67



No. 150

## B & G Combination Valves

### Relief and Reducing

no.	size inches	body constr.	price each	no.	size inches	body constr.	price each
500	1/2	Brass	\$38.82	3	1/2	Brass	\$23.28
510	1/2	Brass	35.50	8	1/2	Iron	17.86

## B & G Monoflo Fittings

size inches	cast iron		copper	
	tapping, inches	price each	tapping, inches	price each
3/4	3/4 x 1/2 return only	\$1.92	3/4 x 1/2 return only	\$2.62
1	1 x 1/2 or 3/4	2.54	1 x 1/2 or 3/4	2.62
1 1/4	1 1/4 x 1/2, 3/4 or 1	3.20	1 1/4 x 1/2 or 3/4	3.18
1 1/2	1 1/2 x 1/2, 3/4 or 1	3.82	1 1/2 x 1/2, 3/4 or 1	5.46
2	2 x 1/2, 3/4, 1 or 1 1/4	5.08	2 x 1/2, 3/4 or 1	7.16
2 1/2	2 1/2 x 1/2, 3/4, 1 or 1 1/4	6.36		
3	3 x 1/2, 3/4, 1 or 1 1/4	7.62		

## McDonnell Pressure Relief Valves

### For hot water space heating boilers

number	boiler size Btu/hr ASME	inlet (internal) inches	outlet (internal) inches	opening pressure pounds	price each
230-3/4 IN.-30	303,000	3/4	3/4	30	\$11.32
240-3/4 IN.-30	513,000	3/4	1	30	13.04
230-1 IN.-30	743,400	1	1	30	21.84
240-1 IN.-30	910,000	1	1 1/4	30	22.34
230-1 1/2 IN.-30	1,025,100	1 1/2	1 1/2	30	31.90
230-M-1	1,488,000	2	3/4 or 1 1/2	30 or 36	52.50
240-M-1	1,698,000	2	1 or 1 1/2	30 or 36	54.20
230-M-2	1,928,400	2	1 or 1 1/2	30 or 36	61.30

## McDonnell Boiler Controls

number	description	price each
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### Boiler water feeders and feeder cut-off combinations

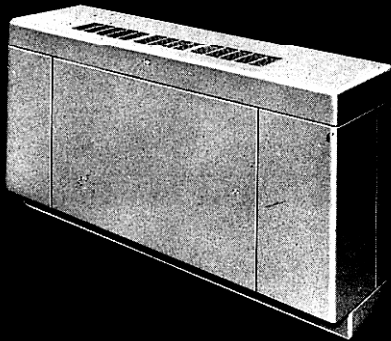
47	Feeder for boilers up to 5000 sq ft; maximum steam pressure, 25 lbs.	\$ 83.52
47-2	Feeder cut-off combination; no. 47 with no. 2 switch	98.58
247	Feeder for smaller residential hot water space heating boilers	78.84
247-2	Feeder cut-off combination; no. 247 with no. 2 switch	93.92
51	Feeder for boilers over 5000 sq ft; maximum boiler pressure, 35 lbs.	111.68
51-2	Feeder cut-off combination; no. 51 with no. 2 switch	126.78
53	Feeder for boilers of any size; maximum boiler pressure, 75 lbs.	126.72
53-2	Feeder cut-off combination; no. 53 with no. 2 switch	141.80
101	Electric water feeder, to convert nos. 67 and 61 into feeder cut-off combinations. (AC 115 volt coil)	53.14
27	Make-up water feeder for condensate receivers	88.42
2	Cut-off switch only, to convert nos. 47, 247, 51 and 53 into feeder cut-off combinations	15.10
2-M	Same as no. 2, with manual reset switch	15.10

### Low-water fuel cut-offs and pump controls

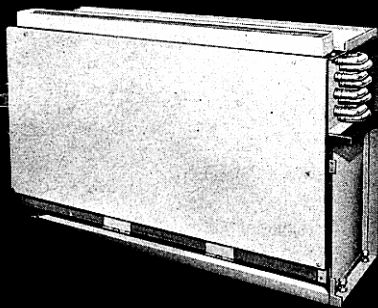
67	Cut-off for quick hook-up installation; boilers of any size, maximum steam pressure, 20 lbs.	40.96
61	Cut-off for 1" pipe installation; boilers of any size; maximum steam pressure, 20 lbs.	40.96
63	Cut-off for boilers of any size; maximum pressure 50 lbs (also available with manual reset switch as no. 63-M)	54.20
150	Pump control, low water cut-off and alarm for boilers of any size; maximum boiler pressure, 150 lbs.	85.92
150-M	Same as no. 150, with manual reset switch	85.92
157	Water column type no. 150	113.62
157-M	Same as no. 157, with manual reset switch	113.62

## Vertical Remotaire Units

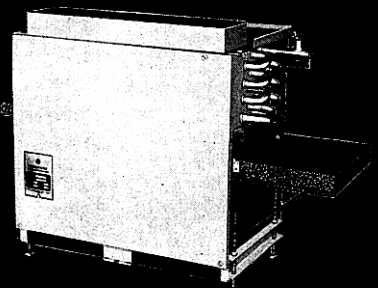
Cold or hot water—115 volt, 60 cycle, single phase, AC



Model SC



Model TRC



Model TRA

model number	high speed			price each with basic equipment
	total CFM	maximum outside air CFM	motor HP	
<b>Standard type (cabinet model for free standing application)</b>				
SC-200	210	60	35 m.	\$258.00
SC-300	300	75	1/15	275.00
SC-400	400	100	1/15	298.00
SC-600	610	130	1/8	398.00
<b>Totally recessed type (basic model for fully recessed application—with outside air damper)</b>				
TRC-200	210	60	35 m.	238.00
TRC-300	300	75	1/15	252.00
TRC-400	400	100	1/15	270.00
TRC-600	610	130	1/8	358.00
<b>Totally recessed type (basic model for fully recessed application—for 100% recirculated air)</b>				
TRA-200	210	...	35 m.	226.00
TRA-300	300	...	1/15	242.00
TRA-400	400	...	1/15	260.00
TRA-600	610	...	1/8	344.00

Basic equipment of all models includes four row, non-ferrous water coil; corrosion protected insulated primary and secondary drain pans; forward curved aluminum fans; resiliently mounted motor with overload protection and automatic reset; three-speed fan switch; replaceable air filter; levelling bolts; vent tee and manual air vent; electrical junction box. All steel parts are bonderized and have a baked-on, semi-gloss Cooltan finish. SC and TRC models have adjustable fresh air damper. TRA models designed for 100% recirculated air.

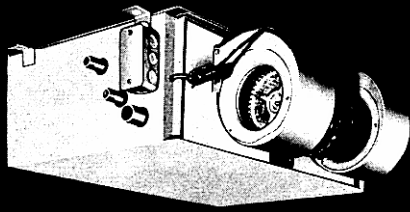
Above Remotaire units are listed with Underwriters' Laboratory, Inc.

## Vertical Remotaire Units—Optional Equipment

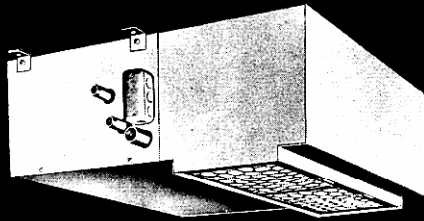
description	add to price of unit with basic equipment
Package A controls: Wall mounted line voltage thermostat and key operated summer-winter switch, for control of fan motor.....	\$ 42.80
Package B controls: Adjustable thermostat with remote bulb, solenoid valve and summer-winter key operated switch, for control of water flow.....	71.00
Package D controls: Wall mounted line voltage thermostat, key operated summer-winter switch and solenoid valve, for control of water flow.....	74.00
Package E controls: Wall mounted line voltage thermostat and automatic summer-winter switch for control of fan motor and automatic summer-winter changeover.....	56.00
VD-213 Selectaflo control arrangement: Includes VD-213 control valve, VM-103 valve cluster, additional access door, control knob, dial, mounting plate and piping fittings down to and including VM-103 valve cluster—subassembled with valve shipped loose to permit easy field installation in unit (minimum order—6)..... each	160.00
Piping assemblies to permit installation of pneumatic control valves furnished by others:	
offset type (minimum order—6)..... each	21.50
3-way type (minimum order—6)..... each	22.00
Manual three-way water control valve with extended stem—subassembled for field installation in unit—includes additional access door (minimum order—6)..... each	33.00
Shut-off valves: Compression, sweat type, non-rated angle stop valves without union—for 3/8" OD tubing..... per pair	6.60
Cleanable filter, steel type—instead of replaceable type:	
for model no.        size inches	
SC, TRC, TRA-200    11 3/4 x 17 3/4 x 7/8.....	9.50
SC, TRC, TRA-300    11 3/4 x 17 3/4 x 7/8.....	9.50
SC, TRC, TRA-400    11 3/4 x 29 3/4 x 7/8.....	11.90
SC, TRC, TRA-600    11 3/4 x 45 3/4 x 7/8.....	15.10
Aluminum type filter—instead of replaceable type—all sizes.....	2.40
100% Outside air damper (models SC and TRC only)	
Special proportioning damper to permit 100% outside air, manual type (option 1).....	14.00
Lever operated—includes additional access door (option 2).....	23.00
Adjustable discharge grilles:	
L-271 or S-271—two-way directional type.....	9.50
L-270 or S-270—four-way directional type.....	15.00
for model no.        L-271        L-270	
SC, TRC, TRA-200    9.50        17.00	
SC, TRC, TRA-300    9.50        17.00	
SC, TRC, TRA-400    15.00        25.50	
SC, TRC, TRA-600    22.00        41.50	
Threaded pipe adapter on coil ends (2)..... per unit	3.60
Union connections on coil ends, sweat type (2)..... per unit	3.20
Union connections on coil ends, threaded type (2)..... per unit	3.20
Additional access door in top of unit.....	4.40
Angle trim strips on sides and tops of SC unit only—1 x 1"..... per unit	6.00

## Horizontal Remotaire Units

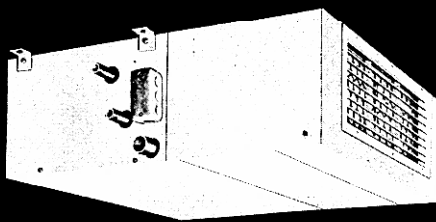
Cold or hot water—115 volt, 60 cycle, single phase, AC



Model H



Model HB



Model HR

model number	high speed total CFM	motor HP	price each with basic equipment
<b>Model H unit (basic model for concealed application)</b>			
H-200	200	16W	\$215.00
H-300	300	1/20	233.00
H-400	425	1/20	259.00
H-600	600	1/12	345.00
<b>*Model HB or HR units (with filter housing for concealed or exposed application)</b>			
HB or HR-200	200	16W	250.00
HB or HR-300	300	1/20	270.00
HB or HR-400	425	1/20	290.00
HB or HR-600	600	1/12	390.00

Basic equipment of all models includes four row, non-ferrous water coil; corrosion-protected insulated drain pan; forward curved aluminum fans; resiliently mounted motor with overload protection and automatic reset; three-speed fan switch; vent tee and manual air vent; electrical junction box; four mounting brackets. Models HB and HR have insulated fan section with replaceable air filter. All steel parts are bonderized and have a baked-on semi-gloss Cooltan finish.

\*Model HB units with bottom air inlet. Model HR units with rear air inlet.

Models HB and HR Remotaire units are listed with Underwriters' Laboratory, Inc.

### Horizontal Remotaire Units—Optional Equipment

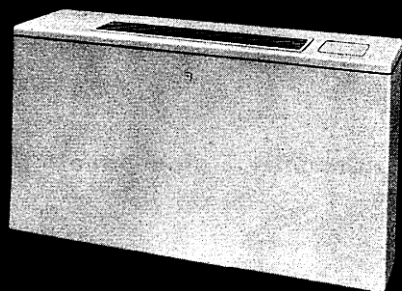
description	add to price of unit with basic equipment	
Package A controls: Wall-mounted line voltage thermostat and key operated summer-winter switch, for control of fan motor.....	\$42.80	
Package D controls: Wall-mounted line voltage thermostat, key operated summer-winter switch and solenoid valve, for control of water flow.....	74.00	
Package E controls: Wall-mounted line voltage thermostat and automatic summer-winter switch for control of fan motor and automatic summer-winter changeover.....	56.00	
Shut-off valves: Compression, straight or angle type, non-rated stop valves with 1/2" NPTI connections..... per pair	6.60	
Outlet duct collar for all units (all sizes).....	3.00	
Inlet duct collar for model HR only (all sizes).....	3.00	
Adjustable discharge grilles:	for model no.	
	L-271 or S-271—two-way directional type.....	S-271 L-270
	L-270 or S-270—four-way directional type.....	S-271 L-270
		S-271 L-270
H, HB, HR-200	10.00 16.00	
H, HB, HR-300	10.00 16.00	
H, HB, HR-400	13.00 20.50	
H, HB, HR-600	17.00 26.50	
Fixed louver return grilles	RL-230—fixed louver grille.....	
	HR-200	10.70
	HR-300	10.70
	HR-400	12.70
HR-600	15.00	
Model FG return air grille and filter assembly (includes replaceable filter).....	H-200	21.50
	H-300	21.50
	H-400	27.50
	H-600	28.50
Cleanable filter, steel type—instead of replaceable type:		
for model no.		
HB or HR-200.....	9.50	
HB or HR-300.....	9.50	
HB or HR-400.....	11.00	
HB or HR-600.....	12.00	
Aluminum type filter—instead of replaceable type—all sizes.....	2.40	
Optional accessory drain pan.....	7.70	

## Self-Contained Remotaire Units

Model SR—in-wall type year 'round room air conditioning unit

model number	compressor HP	available electrical characteristics	price each with basic equipment
SR-75	3/4	208/60/1, 230/60/1, or 115/60/1	\$885.00
SR-100	1	208/60/1 or 230/60/1	910.00

Basic equipment includes decorative, wall hung room cabinet and integral wall sleeve for 12½" wall, separate flashing pan, anodized aluminum outside wall grille, separate slide-in chassis assembly consisting of hermetically sealed refrigeration circuit complete with: motor and compressor, air cooled condenser and evaporator coil, and insulated weather bulkhead, separate evaporator fan motor and two centrifugal fans, separate heating coil\*\*, throwaway type fresh air and recirculated air filters, and controls mounted on chassis and consisting of five position selector switch, heating-cooling self-contained thermostat, manual fresh air damper control, summer-winter disconnect switch. Units can be provided with either adjustable top or stamped front discharge grille. All cabinet parts are bonderized and have a baked-on semi-gloss Cooltan finish. Units are shipped by two crate packaging. \*\*Unit with hot water coil furnished with compressor freeze control as standard equipment. Unit with steam coil furnished with aquastat as standard equipment.



Model SR

### Self-Contained Remotaire Units—Optional Equipment

	price each
Spare complete refrigeration and heating chassis with standard controls—for: {SR-75.....	\$735.00
{SR-100.....	760.00
	add to price of unit with basic equip.
For special 44" length cabinet..... add	\$ 4.00
Wall sleeve (12½" minimum length) and flashing pan modification, all units:	
For 8" to 12½" wall (support legs furnished on flashing pan)..... add	4.00
For 12½" to 15" wall..... add	8.40
For 15" to 17" wall..... add	20.00
For 17" to 20" wall..... add	24.00
Separate wall sleeve assembly (3 crate total) for new construction (12½" wall only), all units..... add	24.00
Cleanable, recirculated air filter, steel type 10x35x1 instead of replaceable type, all units..... add	13.00
Cleanable, recirculated air filter—aluminum type—10x35x1 instead of replaceable type, all units. add	2.50
Freeze control on units using steam coil..... add	12.00
For omission of heating coil..... deduct	32.00
For omission of aquastat from steam coil only..... deduct	8.00

Consult your nearest Amstan branch for ordering instructions.

## Residential Remotaire Units

Free standing models—for use on 115 volt, 60 cycle, single phase current

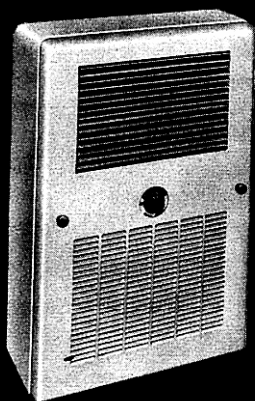
model number	type	price each with basic equipment
WP-150-FSX	150 cfm, stationary louvers	\$133.00
WP-150-FMX	150 cfm, movable louvers	137.00
WP-300-FSX	300 cfm, stationary louvers	235.80
WP-300-FMX	300 cfm, movable louvers	245.10

Basic equipment includes insulated cabinet, non-ferrous water coil, insulated drain pan, forward curved aluminum fan, seal-lubrication motor with built-in thermal overload protection; multi-speed manual control of fan speed, replaceable air filter; manual air vent, electrical junction box. All steel parts are bonderized and have a baked-on semi-gloss Cooltan finish.

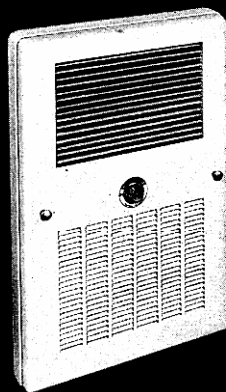
Note: Before designing, installing or operating Remotaire systems, it is essential to review current American-Standard application manuals which outline fundamental design requirements.

See page 32 for optional equipment.

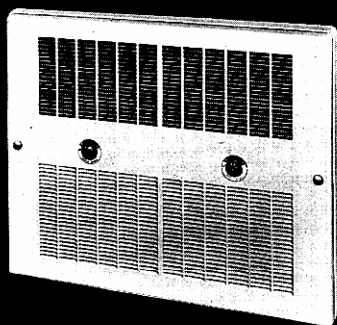
Residential Remotaire units are listed with Underwriters' Laboratory, Inc.



Model WP-150-F



Model WP-150-R



Model WP-300

## Residential Remotaire Units

For use on 115 volt, 60 cycle, single phase, AC

### Recessed Models—standard units

model number	type	price each with basic equipment
WP-150-RSX	150 cfm, stationary louvers	\$130.00
WP-150-RMX	150 cfm, movable louvers	135.00
WP-300-RSX	300 cfm, stationary louvers	231.40
WP-300-RMX	300 cfm, movable louvers	240.70

### Recessed Models—for wall mounting with decorative bottom panel

WP-150-RSW	150 cfm, stationary louvers	132.00
WP-150-RMW	150 cfm, movable louvers	137.00
WP-300-RSW	300 cfm, stationary louvers	234.90
WP-300-RMW	300 cfm, movable louvers	244.20

### Recessed Models—with adjoining room outlet

WP-150-ASX	150 cfm, stationary louvers	144.00
WP-150-AMX	150 cfm, movable louvers	149.00
WP-300-ASX	300 cfm, stationary louvers	260.00
WP-300-AMX	300 cfm, movable louvers	270.00

Basic equipment same as for free standing models—see page 31.  
Residential Remotaire units are listed with Underwriters' Laboratory, Inc.

### Accessories for Recessed Models—standard units only

model number	type	price each
RO	Outside air attachment (includes aluminum outdoor grille)	\$11.50

## Optional Equipment for Residential Remotaire Units

### Filters—replaceable type

model number	size	*price each
WP-150	10" x 12½" x ½"	\$31.20
WP-300	10" x 26" x ½"	45.60

Note: All filters packed 24 per carton and only sold per carton quantities.  
\*Per carton of 24.

### Heating-Cooling Thermostats

model number	description	price each
†T-231-C	Single-stage heating and cooling operation	\$40.50
‡T-232-C	Single-stage heating and two-stage cooling operation	44.92

†Combination thermostat for single stage heating and cooling operation equipped with two mercury switches having hermetically-sealed contacts for 24 volt control wiring; heat and cold anticipators; roll type temperature dials; master heating-cooling switch; fan switch and thermometer.

‡Combination thermostat for single stage heating and two stage cooling operation equipped with three mercury switches having hermetically-sealed contacts for 24 volt control wiring; heat and cold anticipators; roll type temperature dials; master heating-cooling switch; fan switch and thermometer.

Note: In addition to appropriate control panel RS-108-M-5 and thermostat T-232-C for dual chiller applications, the control arrangement requires purchasing of a contactor with 24 volt holding coil, R4A021D relay and a Detroit no. CA-240 low voltage transformer. These items are field installed.

### Control Panels

model number	description	price each
RS-108-B-3	For 2 and 3 horsepower systems	\$68.40
RS-108-M-5	For 5 horsepower or dual chiller systems	87.22

Master residential Remotaire system control panel complete with contactor for compressor motor, 24 volt transformer, Remotaire fan relay, water pump relay, heating controls and pump relay and low and high voltage terminals. Panel U.L. approved.

### Three-Way Motorized Valves

size	price each	size	price each
1" IPS	\$142.20	1½" IPS	\$170.40
1¼" IPS	149.10	2" IPS	198.00

Three-way motorized valves are of the globe type with bronze body and trim, teflon gland material, open/close time 40 seconds, equipped with line voltage conduit box, suitable for 115 volts, single phase, 60 cycle current and operate at 27 V.A. of power.

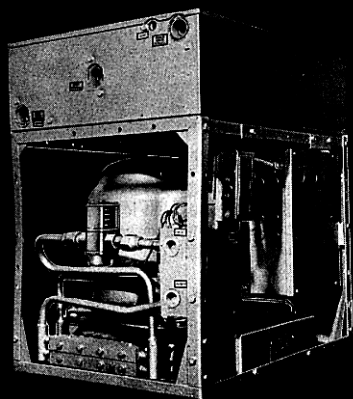
Note: Relay no. R4A021D required to operate valve.

### Relay

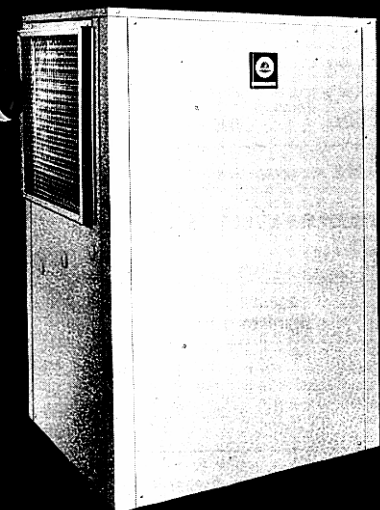
model number	description	price each
R4A021D	SPDT relay with enclosure case, 24 volt holding coil, contacts rating at 115 volts—8.0 amps full load, 48.0 amps locked rotor	\$10.30

## Packaged Water Chiller Units—Residential Type

Hermetically-sealed type—for providing the central chilled water source for summer air conditioning systems



Model PAS



Model PAS-AC

### Water-cooled Condenser

model number	nominal motor HP	motor current	price each with basic equipment
PAS-201	2	230 v., 60 cy., 1 ph.	\$1080.00
PAS-203	2	208/220 v., 60 cy., 3 ph.	1078.00
PAS-301	3	230 v., 60 cy., 1 ph.	1210.00
PAS-303	3	208/220 v., 60 cy., 3 ph.	1180.00
PAS-501	5	230 v., 60 cy., 1 ph.	2000.00
PAS-503	5	208/220 v., 60 cy., 3 ph.	1864.00

Basic equipment includes framework enclosing and supporting hermetically-sealed motor-compressor assembly totally enclosed in steel shell with permanent supply of oil; water cooled, cleanable condenser; evaporator of steel and copper construction enclosed in vapor-proof 18 gauge steel cabinet attached to compressor framing; capillary tubes to meter the refrigerant; accumulator; controls consisting of motor starting box, compressor terminal box, high-low pressure cut-out switch, motor overload protection, freeze control and water valve bellows.

### Air-cooled Condenser

model number	nominal motor HP	motor current	price each with basic equipment
PAS-201AC	2	230 v., 60 cy., 1 ph.	\$1620.00
PAS-203AC	2	208/220 v., * 60 cy., 3 ph.	1600.00
PAS-301AC	3	230 v., 60 cy., 1 ph.	1674.00
PAS-303AC	3	208/220 v., * 60 cy., 3 ph.	1640.00

Basic equipment includes decorative cabinet with removable panels and framework enclosing and supporting hermetically-sealed motor-compressor internally mounted on springs and totally enclosed in steel shell with permanent supply of oil; air-cooled condenser section with condenser fan and motor assembly; evaporator of steel and copper construction enclosed in vapor-proof steel cabinet attached to unit framing; capillary tubes to meter refrigerant; accumulator; controls consisting of motor starting box, compressor terminal box, high-low pressure cut-out switch, motor overload protection, and freeze control.

Decorative cabinet standard on air-cooled models, optional equipment on water-cooled models.

\*Specify either 208 v. or 220 v. when ordering chiller to insure proper fan motor.

### Optional Equipment

description	add to price of unit with basic equipment
Water valve: (water-cooled models only) Pressure operated valve which is operated through the water bellows from high pressure side of compressor to control waste water	
Part no. 4700-3 for model PAS-201, PAS-203, PAS-301, PAS-303 only (½" FIPS).....	\$20.50
Part no. 4700-7 for model PAS-501, PAS-503 only (¾" FIPS).....	35.00
Condenser water tower arrangement: (water-cooled models only) Condenser piping arrangement to permit water tower use	
Model PAS-301, PAS-303 only.....	13.70
Model PAS-501, PAS-503 only.....	26.00
Decorative cabinet: (water-cooled models 2 and 3 HP only) 20 gauge sheet steel, with locked-seam construction, rounded corners and attractively finished in forge red paint.	
Cabinet has removable front panel and is to be field erected.....	87.50

### Contactors—field installed

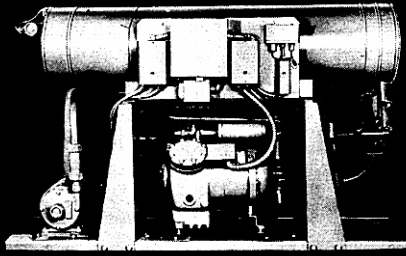
part no.	description	add to price of unit with basic equipment
32120-U-24	30 ampere rating with 24 volt holding coil for models PAS-201, PAS-301, PAS-201AC, and PAS-301AC.....	\$31.00
32120-U-115	20 ampere rating with 115 volt holding coil for models PAS-201, PAS-301, PAS-201AC, and PAS-301AC.....	31.00
32130-U-24	30 ampere rating with 24 volt holding coil for models PAS-203, PAS-303, PAS-203AC, and PAS-303AC.....	37.50
32130-U-115	30 ampere rating with 115 volt holding coil for models PAS-203, PAS-303, PAS-203AC, and PAS-303AC.....	37.50
31455-U-24	40 ampere rating with 24 volt holding coil for model PAS-501.....	45.00
31455-U-115	40 ampere rating with 115 volt holding coil for model PAS-503.....	45.00

Consult your nearest Amstan branch for ordering instructions for packaged water chillers.

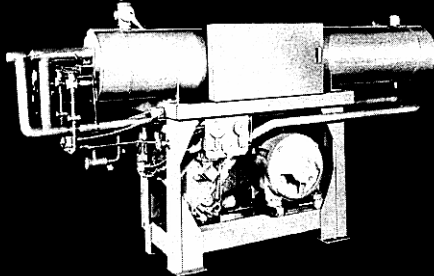


## Packaged Water Chiller Units—Commercial Type

For use on 208/220-440 volts, 60 cycle, three phase, AC



Model BCS



Model CCS

model number	nominal compressor HP	pump HP	price each
BCS-8	7½	½	\$3940.00
BCS-10	10	½	4960.00
BCS-15	15	¾	6680.00
BCS-20	20	1½	7950.00

Package consists of accessible hermetic type compressor-motor assembly\*; steel shell with integral-finned coil, water-cooled condenser\*; direct expansion, rock cork insulated chiller; water circulating pump; across-the-line type compressor and pump motor starter with NEMA type 1 enclosure with low voltage protection and manual reset; 115 volt control circuit with transformer for electrical controls—compressor and circulating pump wired to starters; accessories and controls consisting of thermal expansion valve, refrigerant charging valve, hot gas muffler, heat exchanger, solenoid valve, filter-drier, liquid line shut-off valve and sight glass, high-low pressure control, operating thermostat and water safety thermostat. Frame encasing and supporting these assemblies is of channel construction with 11 gauge steel bulkheads mounted on 7 gauge supporting base. Each package charged with Freon 22 refrigerant prior to shipment.

\*Two compressors and two condensers and dual refrigerant circuits included on models BCS-15 and BCS-20.

### Optional Equipment

description		add to price of unit with basic equipment
Water regulating valve (field installed):		
for	BCS-8	\$ 54.00
	BCS-10	54.00
	BCS-15 (2 required)	per pair 108.00
	BCS-20 (2 required)	per pair 108.00
Optional water circulating pumps (factory mounted):		
	optional pump size HP	
for model		
BCS-8	¾	32.00
BCS-10	1	128.00
BCS-10	1½	216.00
BCS-15	1	56.00
BCS-15	1½	146.00
BCS-20	2	206.00

## Packaged Water Chiller Units—Commercial Type

For use on 208/220-440 volts, 60 cycle, three phase, AC

model number	nominal compressor HP	price each	model number	nominal compressor HP	price each
CCS-25	25	\$10050.00	CCS-60	60	\$16990.00
CCS-30	30	11460.00	CCS-75	75	20990.00
CCS-40	40	13880.00	CCS-100	100	26842.00
CCS-50	50	15090.00	CCS-125	125	33024.00

Package consists of reciprocating type Freon 22 compressor, V-belt driven by a standard normal starting torque motor; shell and integral-finned tube, water-cooled condenser; direct expansion shell and tube, rock cork insulated chiller; capacity control as indicated on specification sheets; suction-liquid line heat exchanger; compressor crankcase heater; accessories and controls, including high-low pressure control, thermostatic expansion valve, liquid line solenoid valves, liquid line strainer, capacity controls, low temperature safety control, time delay

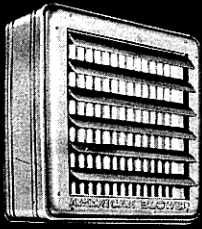
relays, pressure relief valves, charging valve, compressor discharge and suction valves. All controls consisting of two 2-step thermostats, water safety thermostat, time delay mechanism, high-low pressure controller, oil pressure differential switch, on-off manual compressor toggle switch mounted in enclosed panel and wired to terminal strip. Base and framework of welded angle steel construction, gusseted for added strength. Each unit given holding charge of refrigerant prior to shipment. No control panel transformer furnished.

### Water regulating valves:

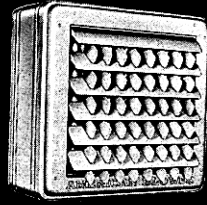
### Optional Equipment

model number	selected for 10° F water range		model number	selected for 20° F water range	
	IPS inches	add to price of unit with basic equipment		IPS inches	add to price of unit with basic equipment
CCS-25	2 flg	\$134.00	CCS-25	1	\$ 54.00
CCS-30	2 flg	134.00	CCS-30	1½	64.00
CCS-40	2 flg	134.00	CCS-40	2 flg	134.00
CCS-50	2½ flg	222.00	CCS-50	2 flg	134.00
CCS-60	3 flg	222.00	CCS-60	2 flg	134.00
CCS-75	3 flg	222.00	CCS-75	2 flg	134.00
CCS-100	3 flg	222.00	CCS-100	2½ flg	222.00
CCS-125	3 flg	222.00	CCS-125	2½ flg	222.00
Suction, discharge and oil pressure gauges and gauge board (all models)					add 108.00

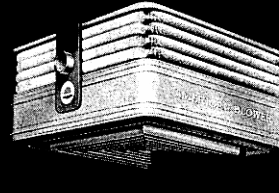
For other optional equipment available for commercial type water chillers, consult your nearest Amstan branch.



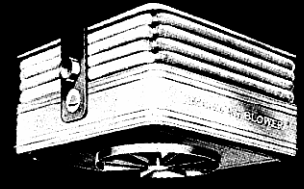
Horizontal with Type L Louvers



Horizontal with Type H Diffuser



Vertical with Type E Diffuser



Vertical with Type D Diffuser

### American Blower Venturafin horizontal unit heater

Steam or hot water—standard coils—price each

unit size	* Btu per hour	* EDR	constant speed		two speed single phase		explosion proof		add for type H diffuser
			1 phase 115V	3 phase 220/440V	115V	230V	1 phase 115V	3 phase 220/440V	
9H11	18,000	75	\$118.00	\$.....	\$134.00	\$141.00	\$245.00	\$.....	\$14.00
10H11	37,400	156	141.00	.....	160.00	169.00	267.00	.....	14.00
12H11	48,600	203	157.00	241.00	171.00	183.00	253.00	322.00	14.00
14H11	55,300	231	171.00	251.00	190.00	200.00	263.00	330.00	14.00
16H11	66,300	276	193.00	277.00	212.00	221.00	289.00	357.00	17.00
18H14	78,200	326	212.00	291.00	228.00	245.00	303.00	370.00	17.00
20H14	90,600	378	238.00	304.00	318.00	351.00	317.00	400.00	17.00
22H16	125,000	521	285.00	337.00	342.00	382.00	388.00	530.00	21.00
24H16	148,600	619	302.00	394.00	382.00	429.00	381.00	464.00	21.00
26H20	186,000	776	358.00	434.00	420.00	460.00	429.00	557.00	26.00
28H20	222,000	925	389.00	477.00	465.00	505.00	460.00	588.00	31.00
30H20	251,500	1048	460.00	481.00	507.00	550.00	576.00	628.00	31.00
32H22	310,000	1292	550.00	590.00	621.00	659.00	666.00	718.00	35.00
34H22	357,500	1488	685.00	685.00	744.00	803.00	828.00	828.00	35.00

\*Based on 2 lbs steam pressure and 60° F entering air. For hot water capacities, consult your nearest Amstan branch.

### American Blower Venturafin vertical unit heater

Steam or hot water—standard coils—price each

unit size	* Btu per hour	* EDR	constant speed		two speed single phase		explosion proof		add for type D diffuser
			1 phase 115V	3 phase 220/440V	115V	230V	1 phase 115V	3 phase 220/440V	
40V12	58,400	243	\$184.00	\$.....	\$207.00	\$219.00	\$262.00	\$332.00	\$24.00
42V14	79,500	330	258.00	332.00	320.00	346.00	351.00	508.00	29.00
44V14	108,000	450	241.00	296.00	310.00	339.00	304.00	372.00	29.00
46V16	120,000	500	317.00	382.00	405.00	429.00	359.00	502.00	36.00
48V16	148,500	619	315.00	363.00	422.00	441.00	367.00	450.00	36.00
50V18	160,000	667	353.00	434.00	446.00	475.00	485.00	538.00	43.00
52V18	200,000	834	413.00	420.00	518.00	553.00	484.00	484.00	43.00
54V22	234,000	976	489.00	506.00	589.00	637.00	595.00	594.00	48.00
56V24	342,000	1425	601.00	634.00	732.00	775.00	1148.00	876.00	52.00
58V27	450,000	1875	1132.00	840.00	.....	.....	1621.00	1120.00	72.00
60V27	475,000	1978	1193.00	911.00	.....	.....	1513.00	1179.00	72.00
62V30	560,000	2332	1288.00	1030.00	.....	.....	1776.00	1275.00	83.00

\*Based on 2 lbs steam pressure and 60° F entering air. Hot water units identical to steam units with standard coils. For hot water capacities, consult your nearest Amstan branch.

Prices on American Blower heaters FOB factory with freight allowed in U. S. to railroad freight station nearest first destination.

# Amstan Supply

DIVISION OF AMERICAN-Standard

PLUMBING • HEATING • KITCHENS • APPLIANCES  
AIR CONDITIONING • INDUSTRIAL SUPPLIES



## HERE'S THE SIGN WHERE YOU FIND PRODUCTS FOR THE COMPLETE JOB

Surprising how many different products you have to sell for every room in the house—not to mention institutional and commercial buildings.

Point is, at the Amstan sign you'll find all these products under one roof. Out-of-stock service on *plumbing, heating, air conditioning, kitchens, appliances*, the whole works. Then there are *room coolers, water heaters and softeners, pumps, bath accessories, fans, pipe, valves,*

*fittings and controls* to mention a few of many products that help you sell every room in the house.

Yes, at the Amstan sign you'll find products for the *complete job* . . . and you'll find plenty of help to sell them in the form of sales aids, product promotions, direct mail and newspaper, radio, billboard and T.V. co-operative advertising. Want service for the complete job? Call Amstan.

## AMERICAN-Standard



Amstan Supply Division

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AL 2-0211

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**CORPUS CHRISTI**

116-118 N. Staples St.  
TU 4-9437

**DALLAS**

1501 N. Industrial Blvd.  
RI 2-9271

**DENVER**

3201 Brighton Blvd.  
KE 4-6121

**DETROIT**

14430 Dexter Blvd.  
TO 8-3431

**\*EAST END**

6587 Hamilton Ave.  
MO 1-8343

**E. ST. LOUIS**

643 N. 20th St.  
BR 1-5332

**EL PASO**

160 N. Piedras St.  
KE 3-7431-32-33

**ERIE**

128 W. 12th St.  
25-646

**EVANSVILLE**

401 E. Illinois St.  
HA 5-2411

**FARGO**

419-21 Third St., No.  
5-4291 -4292

**FLINT**

1416 Poplar St.  
CE 2-7136

**FORT WAYNE**

2601-11 Brooklyn Ave.  
HA 3271

**FORT WORTH**

101 E. Industrial Ave.  
ED 2-3111-2-3

**GRAND RAPIDS**

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GL 9-0265

**GREEN BAY**

915 So. Broadway  
HE 2-6489

**\*HAMILTON**

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TW 3-4754

**HOUSTON**

419 Dowling St.  
CA 3-4593

**JAMESTOWN**

712 West 8th St.  
8909

**JOHNSTOWN**

417-419 Horner St.  
8-1221

**KNOXVILLE**

218 E. Depot St.  
5-7171

**LIMA**

233-235 S. Main St.  
2-6615

**\*LINCOLN PARK**

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DU 3-0350

**LONG BEACH**

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GA 75415

**LORAIN**

915 Colorado Ave.  
AT 8-9143-4

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5880 W. Adams Blvd.  
WE 8-2941

**LOUISVILLE**

1601 S. Brook St.  
ME 7-7661

**MANSFIELD**

1160 W. Fourth St. Rd.  
4221-6 & 4222-6

**MEMPHIS**

666 Beale Ave.  
JA 6-6484

**MILWAUKEE**

1635 W. St. Paul Ave.  
WE 3-3700

**MINNEAPOLIS**

312 So. Third St.  
FE 2-2411

**NASHVILLE**

1700 Church St.  
AL 5-6506

**NEW ORLEANS**

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GA 1153

**\*NORTH HOLLYWOOD**

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PO 5-5602

**NORTH LITTLE ROCK**

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FR 52493

**PARKERSBURG**

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GA 2-3571

**PEORIA**

101 Hamilton Blvd.  
4-8201

**PHOENIX**

1510 N. 21st Ave.  
AL 4-4751

**PITTSBURGH**

1315 Ridge Ave.  
FA 2-3000

**PUEBLO**

164 So. Santa Fe Ave.  
LI 4-6175

**RAPID CITY**

421 Maple Ave.  
FI 2-2343

**ROCK ISLAND**

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8-4555

**ST. LOUIS**

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JE 3-1830

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Kellogg Blvd. & Broadway  
CA 4-5811

**SAN ANTONIO**

1101 Broadway  
CA 6-5121

**SAN BERNARDINO**

696 Mill St.  
83245-46-47

**\*SAN GABRIEL**

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AT 2-9458

**SHREVEPORT**

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CE 4-3114

**SPRINGFIELD**

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FA 33706-7

**TOLEDO**

1002-16 Summit St.  
CH 1-5245

**TUCSON**

860 East 16th St.  
MA 3-9438

**TYLER**

1516 W. Erwin St.  
4-9368

**\*VERNON**

3259 E. 46th St.  
LU 3-6051

**WACO**

311 S. 4th St.  
2-8324

**WHEELING**

River Road North  
CE 3-2370

**WICHITA FALLS**

1412 So. Lamar St.  
27841

**YOUNGSTOWN**

860 Tod Ave.  
RI 6-8811

**ZANESVILLE**

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