

# process HEATING

## 2019 Buyers Guide

### PRODUCT CATEGORY INDEX

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#### ADHESIVES, COATINGS AND SEALANTS

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00200 Adhesives  
00300 Coatings, Heat Resistant  
00400 Epoxies  
00500 Formed-in-Place Gasket Material  
00600 Protective Coatings  
00700 Sealants

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#### BOILERS, STEAM GENERATORS & RELATED COMPONENTS

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##### Accessories

01000 Baffles  
01100 Breeching  
01200 Condensate Returns  
01300 Deaerators  
01400 Drains  
01500 Fittings  
01600 Flame Monitors  
01700 Plates  
01800 Steam Traps  
01900 Trimming  
02000 Tubes  
02100 Water Management Systems  
02200 Water/Steam Separators

##### Boilers

02400 Bent Tube  
02500 Cast Iron  
02600 Combination Fired/Multi-Fuel  
02700 Copper Fintube  
02800 Electric  
02900 Fire Tube  
03000 Horizontal Return Tube (HRT)  
03100 Hot Water  
03200 Modular  
03300 Natural Gas  
03400 Oil  
03500 Packaged  
03600 Portable  
03700 Propane  
03800 Recovery/Waste Heat  
03900 Rental/Temporary  
04000 Scotch Marine  
04100 Steam  
04200 Steel Incline Water Tube  
04300 Thermal Fluid  
04400 Vertical Tubeless  
04500 Water Tube

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#### BURNERS

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##### Burners Energy Source

04800 Coal  
04900 Dual-Fuel  
05000 Liquid Waste  
05100 Natural Gas  
05200 Natural Gas/Oil  
05300 Oil  
05400 Propane  
05500 Solid Waste  
05600 Waste Oil  
05700 Wood

##### Burners, Type

05900 Atomizing  
06000 Catalytic  
06100 Ceramic  
06200 Endothermic  
06300 Exothermic  
06400 Immersion Tube  
06500 Impingement  
06600 Infrared  
06700 Line  
06800 Low NOx  
06900 Luminous Flame  
07000 Oxy-Fuel  
07100 Packaged  
07200 Pre-Mix  
07300 Radiant Cup  
07400 Radiant Line  
07500 Radiant Tube  
07600 Regenerative  
07700 Ribbon  
07800 Velocity, High  
07900 Velocity, Low  
08000 Velocity, Medium

##### Burners, Use

08200 Air Heating, Direct  
08300 Air Heating, Indirect  
08400 Boilers/Steam Generators  
08500 Cleaners/Washers  
08600 Dryers  
08700 Incinerators/Oxidizers  
08800 Liquid Heaters  
08900 Ovens  
09000 Thermal Fluid Heaters  
09100 Water Heaters

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#### CLEANING EQUIPMENT

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##### Cleaning Supplies & Systems

09300 Cleaning Equipment Supplies  
09400 Salt Baths  
09500 Cleaners  
09600 Online Cleaning Systems  
09700 Rod and Brush  
09800 Rotary Tube Cleaning Guns  
09875 Thermal Oxidizer System  
09900 Tube-Cleaning Guns

##### Washers, Parts Cleaning

10100 Batch  
10200 Belt  
10300 Monorail  
10400 Rotary Drum  
10500 Rotary Table  
10600 Washers, Pressure

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#### COMBINATION HEAT/COOL AND COOLING EQUIPMENT

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##### Chillers

10900 Air-Condensed  
11000 Air-Cooled  
11100 Central  
11200 Indoor  
11300 Outdoor  
11400 Portable  
11500 Pumping System  
11600 Self-Contained  
11700 Water-Condensed  
11800 Water-Cooled  
  
11900 Coolers

##### Cooling Tower Systems

12100 Closed Loop  
12200 Evaporative  
12300 Open Loop  
12400 Pumping System  
  
12500 Dehumidifiers

##### Temperature Control Systems

12700 Oil-Circulating  
12800 Water-Circulating

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#### CONSULTING

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12850 Consulting

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**CONTROLS**

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**Controls, Combustion**

13100 Combustion  
13200 Flame Safeguard  
13300 Flame Arrestors  
13400 Flame Detectors

**Controls, Motion**

13600 Damper, Electric Actuator  
13700 Damper, Pneumatic Actuator  
13800 Electrical  
13900 Electromechanical  
14000 Hydraulic Actuator  
14100 Linear Actuator  
14150 Linear Bearings  
14200 Pneumatic Actuator  
14300 Rotary Actuator  
14400 Thermal Actuator  
14500 Damper  
14600 Damper Linkage  
14700 Motor  
14800 Motor-Actuated Valve  
14900 Speed

15000 Controls, Flow

**Power Controls/Power Controllers**

15200 Contactor  
15300 Diode  
15400 Phase-Angle  
15500 Radio Frequency  
15600 SCR  
15700 Thyristor

15725 Moisture

15750 pH

15775 Pressure

15800 Process

15900 Radio Frequency

**Controls, Relay**

16100 Contactors  
16200 Mechanical  
16300 Mercury  
16400 Power  
16500 Solid State

**Controls, Temperature**

16700 Analog  
16800 Digital  
16900 Electric  
17000 Electromechanical  
17100 Microprocessor-Based  
17200 PID  
17300 Programmable  
17400 Proportional  
17500 Solid State

17600 Humidity

17700 Level

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**DRYERS**

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**Dryer Accessories**

18000 Baffles  
18100 Baskets  
18200 Belts, Conveyor

18300 Belts, Rubber  
18400 Carts  
18500 Curtains  
18600 Ducting  
18700 Fixtures/Hooks  
18800 Gloves/Mittens  
18900 Hardware  
19000 Racks  
19100 Screens  
19200 Seals  
19300 Trays  
19400 View Ports  
19500 Wire Cloth

**Dryers, Configuration**

19700 Batch  
19800 Calciners, Rotary  
19900 Continuous/Conveyor  
20000 Deck  
20100 Dehydrators  
20200 Drum/Can  
20300 Festoon/Loop  
20400 Fluidized Beds  
20500 Loft  
20600 Paddle  
20700 Rotary  
20800 Skein  
20900 Spray  
21000 Tensionless  
21100 Tenter Frame  
21200 Top Load  
21300 Tower  
21400 Tray/Truck/Shelf  
21500 Tunnel  
21600 Warp  
21700 Web  
21800 Wicket  
21900 Yarn Package

**Dryers, Energy Source**

22100 Dual Fuel  
22200 Electricity  
22300 Hot Oil/Thermal Fluid  
22400 Hot Water  
22500 Natural Gas  
22600 Oil  
22700 Propane  
22800 Steam Powered

**Dryers, Manufacturing Process**

23000 Calcining  
23100 Curing  
23200 Drying  
23300 Finishing  
23400 Fusing  
23500 Heat Setting  
23600 Heat Shrinking  
23700 Laminating  
23800 Melting  
23900 Moisture Profiling  
24000 Pre-Drying  
24100 Reacting

**Dryers, Type**

24300 Centrifugal  
24400 Combination Infrared/Convection

24500 Conduction  
24600 Convection, Counter-Flow  
24700 Convection, Flotation  
24800 Convection, Impingement  
24900 Convection, Through-Air  
25000 Dehumidifying  
25100 Flash  
25200 Fluid-Bed  
25300 Freeze  
25400 Infrared, Catalytic  
25500 Infrared, Long Wave  
25600 Infrared, Medium Wave  
25700 Infrared, Short Wave  
25800 Microwave  
25900 Radio Frequency  
26000 Steam  
26100 Vacuum

**Evaporators**

26300 Cascade  
26400 Direct  
26500 Falling Film  
26600 Forced Circulation  
26700 Horizontal Tube  
26800 Natural Circulation  
26900 Plate  
27000 Recompression  
27100 Rising Film  
27200 Thermal Compression  
27300 Thin Film  
27400 Tubular  
27500 Tubular/Vertical  
27600 Wiped Film

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**FANS AND BLOWERS**

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**Blower/Fan Accessories**

27900 Antisurge  
28000 Baffles  
28100 Duct, Flexible  
28200 Duct, Inflexible  
28300 Silencers  
28400 Transitions/Adapters

**Blowers**

28600 Axial Flow  
28700 Centrifugal  
28800 Gas  
28900 Hot Air  
29000 Pressure  
29100 Rotary  
29200 Turbine

**Fans**

29400 Axial Flow  
29500 Centrifugal  
29600 Exhaust  
29700 Forced Draft  
29800 Induced Draft  
29900 Propeller  
30000 Ventilating

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**HEAT EXCHANGERS**

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**Condensers**

30300 Chemical  
30400 Evaporative

30500 Refrigeration  
30600 Steam

**Heat Exchangers, Configuration**

30800 Coils, Heating and Cooling  
30900 Extended Surface, Plate-Fin  
31000 Extended Surface, Tube-Fin  
31100 Plate (without frame)  
31200 Plate, Brazed  
31300 Plate, Gasketed  
31400 Plate, Lamella  
31500 Plate, Spiral  
31600 Plate, Welded  
31700 Scraped Surface  
31800 Tubular, Coil  
31900 Tubular, Double-Pipe  
32000 Tubular, Shell and Tube  
32100 Tubular, Spiral Tube

**Heat Exchangers, Construction Material**

32300 Aluminum  
32400 Brass  
32500 Carbon Steel  
32600 Ceramic  
32650 Coatings  
32700 Copper  
32800 Fluoropolymer  
32900 Glass  
33000 Graphite  
33100 Nickel  
33200 Niobium  
33300 Stainless Steel  
33400 Tantalum  
33500 Titanium

**Heat Exchangers, Heat Transfer Mode**

33700 Air-to-Air  
33800 Air-to-Liquid  
33900 Gas-to-Air  
34000 Gas-to-Gas  
34100 Gas-to-Liquid  
34200 Liquid-to-Liquid  
34300 Steam-to-Air  
34400 Steam-to-Gas  
34500 Steam-to-Liquid  
34600 Thermal Fluid-to-Air  
34700 Thermal Fluid-to-Gas  
34800 Thermal Fluid-to-Liquid  
34900 Thermal Fluid-to-Steam

**Heat Exchangers, Manufacturing Process**

35100 Cooling  
35200 Distillation  
35300 Evaporation/Condensation  
35400 Heat Recovery  
35500 Heating  
35600 Interchanger  
35700 Pasteurizing  
35800 Preheating  
35900 Reacting  
36000 Vapor Recovery

**Mixers**

36200 Air-Fuel (Motion)  
36300 Air-Fuel (Motionless)  
36400 Thermal (Motionless)

**HEAT TRANSFER FLUIDS**

36600 Aromatic  
36700 Brine  
36800 Fluorocarbon  
36900 Glycol  
37000 Paraffinic  
37100 Petroleum  
37200 Reclamation Services  
37300 Reprocessed  
37400 Silicone  
37500 Synthetic Organic

**HEATERS AND HEATING SYSTEMS**

37700 Flame Surface Treatment  
37800 Heat Reclaimers  
37900 Heat Recovery Systems  
38000 Heat Sealing Equipment  
38100 Heat Shrink Tunnels

**Heat Tracing**

38300 Zone Heater  
38400 Constant Wattage  
38500 Mineral-Insulated  
38600 Power Limiting  
38700 Self-Regulating  
38800 Steam

**Heaters, Configuration**

39000 Heat Guns (Process Use)  
39100 Band  
39200 Blanket  
39300 Cartridge  
39400 Cast-In  
39500 Ceramic  
39600 Circulation  
39700 Coil  
39800 Direct Steam Injection  
39900 Drum  
40000 Duct  
40100 Etched Foil  
40200 Flanged  
40300 Flexible  
40400 Immersion, Plate  
40500 Immersion, Quartz  
40600 Immersion, Tubular, Flanged  
40700 Immersion, Tubular, Low Density  
40800 Immersion, Tubular, Over-the-Side  
40900 Immersion, Tubular, Pipe Thread  
41000 Immersion, Tubular, Teflon-Coated  
41100 Infrared, Ceramic Element  
41200 Infrared, Ceramic Tile  
41300 Infrared, Ceramic Generator  
41400 Infrared, Halogen  
41500 Infrared, Metal Ribbon  
41600 Infrared, Open Element  
41700 Infrared, Panel Type  
41800 Infrared, Porous Matrix  
41900 Infrared, Quartz Tube  
42000 Infrared, Radiant Tube  
42100 Infrared, G30 Bulb  
42200 Infrared, Tubular, Metal Sheathed  
42300 Mica  
42400 Mineral-Insulated  
42500 Paddle

42600 Packaged  
42700 Ring  
42800 Rod  
42900 Skid-Mounted  
43000 Space  
43100 Strip  
43200 Tape  
43300 Thermal Fluid  
43400 Tubular  
43500 Tubular, Finned  
43600 Electric  
43700 Gas  
43800 Steam

**Heaters, Heat Transfer Method**

44000 Conduction  
44100 Convection  
44200 Impedance  
44300 Induction  
44400 Microwave  
44500 Radiant/Infrared, Catalytic  
44600 Radiant/Infrared, Long Wavelength  
44700 Radiant/Infrared, Medium  
Wavelength  
44800 Radiant/Infrared, Short Wavelength  
44900 Radio Frequency

**Heaters, Use**

45100 Air Heating, Direct  
45200 Air Heating, Indirect  
45300 Boilers/Steam Generators  
45400 Cleaners/Washers  
45500 Dryers  
45600 Heat Transfer System  
45700 Liquid Heaters  
45800 Ovens  
45900 Platens  
46000 Superheaters  
46100 Thermal Fluid Heaters  
46200 Water Heaters  
  
46300 Heating Blankets

**Heating Elements**

46500 Bayonet  
46600 Cartridge  
46700 Ceramic  
46800 Coil  
46900 Etched Foil  
47000 Graphite  
47100 Metal-Sheathed  
47200 Mica Band  
47300 Molybdenum Disilicate  
47400 Plug and Rack  
47500 Ribbon  
47600 Rod  
47700 Silicon Carbide  
47800 Tubular  
47900 Wire  
  
48000 Heating Jackets  
48100 Heating Mantles  
48200 Hoses, Electrically Heated  
48300 Impedance Heating Equipment

**Induction Heating**

48500 Coils

48600 Equipment  
48700 Flux Field Concentrators  
48800 Rolls  
48900 Inspection Systems

#### **Preheaters**

49100 Air  
49200 Combustion  
49300 Electric  
49400 Gas  
49500 Liquid

#### **Recuperators**

49700 Air-to-Air  
49800 Gas-to-Air  
49900 Plate  
50000 Tubular  
50100 Regenerators

#### **Retorts**

50300 Retort Loading Systems  
50400 Retortable Containers  
50500 Steam Retort Sterilization  
50600 Steam-Air Retort Sterilization  
50700 Water Immersion Retort Sterilization  
50800 Water Spray Retort Sterilization

#### **Sterilizers**

51000 Autoclave  
51100 Combination Radiant Heat/Laminar Flow  
51200 Continuous  
51300 Dry Heat  
51400 Radiant Heat  
51500 Tunnel  
51600 Vacuum

#### **Vaporizers**

51800 Direct Fired  
51900 Electrically Heated  
52000 Indirect Fired  
52100 Steam Heated

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### **INSTRUMENTATION**

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#### **Recorders, Temperature**

52400 Circular  
52500 Flow  
52600 Oven Temperature Profiling  
52700 Paperless  
52800 Portable  
52900 Pressure  
53000 Stationary  
53100 Strip Chart

#### **Regulators**

53300 Air  
53400 Gas  
53500 Oil

#### **Software**

53700 General Heat Transfer  
53800 Sizing/Designing for Burners  
53900 Sizing/Designing for Dryers  
54000 Sizing/Designing for Heat Exchangers  
54100 Sizing/Designing for Heat Transfer Fluids  
54200 Sizing/Designing for Heaters

54300 Sizing/Designing for Ovens  
54400 Temperature Calibration Systems

#### **Temperature Indicators**

54600 Analog  
54700 Digital  
54800 Infrared

#### **Thermometers**

55000 Bimetal  
55100 Digital  
55200 Fiber Optic  
55300 Glass  
55400 Infrared  
55500 Pyrometer  
55600 Thermostats  
55700 Thermowells

#### **Transmitters, Temperature**

55900 Analog  
56000 Digital  
56100 Electromechanical  
56200 Electronic  
56300 Microprocessor-Based  
56400 Remote Data Acquisition  
56500 Solid State

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### **INSULATION & HEAT DISSIPATION PRODUCTS**

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#### **Ceramics**

56900 Catalysts  
57000 Ceramic Parts/Supplies  
57100 Electrically Insulative  
57200 High Temperature  
57300 Thermally Insulative

57350 Heat Sinks

#### **Insulation**

57500 Assemblies  
57600 Blankets  
57700 Cements  
57800 Ceramic  
57900 Ceramic Fiber  
58000 Custom Moldable  
58100 Fiberglass  
58200 Fibers  
58300 Flexible Materials  
58400 Foam  
58500 Mineral Wool  
58600 Moldable  
58700 Particulate  
58800 Preinsulated Panels  
58900 Refractories  
59000 Rigid Material  
59100 Rigidizers

#### **Masking Supplies**

59300 Caps  
59400 Plugs  
59500 Tape  
59600 Seals  
59700 Sleeving  
59800 Tapes

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### **MAINTENANCE AND REPAIR COMPONENTS**

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#### **Filters**

60100 Filters  
60200 Air  
60300 Chemicals  
60400 Gas  
60500 Oil  
60600 Water

#### **Gaskets**

60750 Air  
60800 Boiler  
60850 Chemicals  
60900 Fiber  
61000 Flange  
61050 Gas  
61100 Heat Exchanger  
61200 High Temperature  
61300 Insulating  
61400 Metallic  
61500 Nonmetallic  
61550 Oil  
61600 Oven/Dryer  
61700 Paper  
61800 Pump  
61900 Rubber  
62000 Silicone  
62500 Water

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### **MONITORS, PROFILING EQUIPMENT, SUPERVISORY SYSTEMS**

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62900 Alarms, Process

#### **Analyzers**

63100 Chemical  
63200 Combustion  
63300 Emission  
63400 Flame  
63500 Flue Gas/Exhaust  
63600 Fuel Oil  
63650 Furnace/Oven Atmosphere  
63700 Gas  
63800 Infrared  
63900 Moisture  
64000 NOx  
64100 Oxygen  
64200 Process  
64300 Thermal

64375 Dewpoint/Moisture Measuring Devices

#### **Flow Meters**

64500 Air  
64600 Chemicals  
64700 Gas  
64800 Oil  
64900 Water

#### **Gauges**

65100 Calibration and Repair  
65200 Differential  
65300 Electronic  
65400 Gauge Isolator  
65500 Liquid Level

65600 Pressure  
65700 Temperature  
65800 Vacuum

65875 Imaging Systems, Thermal

#### Leak Detectors

66000 Boiler Tube  
66100 Bubble Formulae  
66200 Chemical  
66300 Gas/Air  
66400 Heat Exchanger Tube  
66500 UV, Fluorescent  
66600 Ultrasonic  
66700 Water

#### Monitors

66900 Air  
67000 Flow  
67100 Gas  
67200 Power  
67300 Temperature

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### **OVENS**

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#### Oven Accessories

67600 Baffles  
67700 Baskets  
67800 Belts, Conveyor  
67900 Belts, Rubber/Replacement  
68000 Carts  
68100 Curtains  
68200 Ducting  
68300 Fixtures/Hooks  
68400 Gaskets (See Gaskets)  
68500 Gloves/Mittens  
68600 Hardware  
68700 Racks  
68800 Screens  
68900 Seals  
69000 Trays  
69100 View Ports  
69200 Wire Cloth

#### Ovens, Configuration

69400 Band  
69500 Batch  
69600 Batch, Bench  
69700 Batch, Cabinet  
69800 Batch, Truck  
69900 Batch, Walk-In  
70000 Chain Oiler  
70100 Continuous, Belt Conveyor  
70200 Continuous, Conveyorless  
70300 Continuous, Cross-Bar Conveyor  
70400 Continuous, Drag Chain  
70500 Continuous, Fixture Conveyor  
70600 Continuous, Monorail  
70700 Continuous, Power Roller  
70800 Continuous, Pusher Conveyor  
70900 Continuous, Screw Conveyor  
71000 Continuous, Slat Conveyor  
71100 Continuous, Turn Table  
71200 Continuous, Walking Beam  
71300 Deck  
71400 Hearth Tunnel  
71500 Idler Rolls

71600 Laboratory  
71700 Rack  
71800 Revolving  
71900 Rotary  
72000 Tenter Frame  
72100 Top Load  
72200 Travel Chain  
72300 Traveling Hearth  
72400 Traveling Tray

#### Ovens, Energy Source

72600 Dual Fuel  
72700 Electricity  
72800 Hot Oil/Thermal Fluid  
72900 Hot Water  
73000 Natural Gas  
73100 Oil  
73200 Propane  
73300 Steam

#### Ovens, Manufacturing Process

73500 Annealing  
73600 Baking  
73700 Bonding  
73800 Burn-In  
73900 Burn-Off  
74000 Cooking  
74100 Curing  
74200 Dehydrating  
74300 Drying  
74400 Finishing  
74500 Fusing  
74600 Heat Setting  
74700 Heat Shrinking  
74800 Laminating  
74900 Pre-Drying  
75000 Pre-Heating  
75100 Reflow Soldering  
75200 Sterilizing  
75300 Thermoforming

#### Ovens, Type

75500 Atmosphere  
75600 Combination Infrared/Convection  
75700 Convection, Counter-Flow  
75800 Convection, Flotation  
75900 Convection, Impingement  
76000 Convection, Through-Air  
76100 Environmental  
76200 Infrared, Catalytic  
76300 Infrared, Long Wave  
76400 Infrared, Medium Wave  
76500 Infrared, Short Wave  
76600 Microwave  
76700 Radio Frequency  
76800 Vacuum

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### **PERSONAL PROTECTIVE EQUIPMENT**

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#### Water Treatment

77100 Chemicals

#### Gloves

77300 Chemical-Resistant  
77400 Cold-Resistant  
77500 Flame-Resistant  
77600 Heat-Resistant

#### Heat-Resistant Textiles

77800 Blankets  
77900 Fabrics  
78000 Safety Clothing

78100 Lockout/Tagout Devices

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### **PIPING, DUCTING, TUBES**

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#### Ducting Accessories

78400 Baffles  
78500 Expansion Joints  
78600 Insulation

#### Ducting

78800 Flexible  
78900 Inflexible  
79000 Insulated  
79100 Uninsulated

#### Tubes

79300 Boiler  
79400 Condenser  
79500 Evaporator  
79600 Heat Exchanger  
79700 Heat Pipes  
79800 Protection  
79900 Radiant  
80000 Stainless Steel  
80100 Titanium

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### **POLLUTION CONTROL EQUIPMENT**

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#### Oxidizers

80400 Catalytic  
80500 Recuperative Thermal  
80600 Regenerative Thermal

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### **PUMPS**

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80800 Axial Flow  
80900 Centrifugal  
81000 Close-Coupled  
81100 Diaphragm  
81200 Gear  
81300 Horizontal  
81400 Jacketed  
81500 Lobe  
81600 Magnetic Drive  
81700 Metering  
81800 Multistage  
81900 Non-Electric  
82000 Peristaltic  
82100 Plunger/Piston  
82200 Positive-Displacement  
82300 Reciprocating  
82400 Rotary  
82500 Sanitary  
82600 Screw  
82700 Single Stage  
82800 Submersible  
82900 Vacuum  
83000 Vertical

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**SENSORS**

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**Sensor Accessories**

83300 Connection Heads  
83400 Protection Tubes  
83450 Thermocouple Blocks  
Porcelain/Plastics

83500 Sensors, Humidity  
83600 Sensors, Pressure

**Sensors, Temperature**

83800 Calibration Services  
83900 Pyrometers  
84000 RTDs, Copper  
84100 RTDs, Nickel  
84200 RTDs, Nickel-Iron  
84300 RTDs, Platinum, DIN/IEC  
84400 RTDs, Platinum, Reference Grade  
84500 RTDs, Thin Film  
84600 RTDs, Tungsten  
84700 RTDs, Wire Wound  
84800 Thermistors  
84900 Thermocouples, Type E  
85000 Thermocouples, Type J  
85100 Thermocouples, Type K  
85200 Thermocouples, Type T

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**TANKS & VESSELS**

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**Tanks**

85500 Coated  
85600 Distribution  
85700 Expansion  
85800 Heating  
85900 Jacketed  
86000 Mixing  
86100 Plastic  
86200 Stainless Steel  
86300 Titanium

**Vessels**

86500 Exotic Alloy  
86600 Heating  
86700 Jacketed  
86800 Mixing  
86900 Pressure  
87000 Stainless Steel  
87100 Titanium

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**VALVES**

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**Valve Types**

87300 Air-Operated  
87400 Ball  
87500 Bellows-Sealed  
87600 Butterfly  
87700 Check  
87800 Control  
87900 Flow  
88000 Fuel  
88100 Gate  
88200 Globe  
88300 Jacketed  
88400 Needle  
88500 Plug/Cock  
88600 Pneumatic  
88700 Regulating/Pressure-Reducing  
88800 Regulating/Temperature  
88900 Relief and Safety  
89000 Solenoid  
89100 Steam  
89200 Reducing