



AT500 and AT1000 Operation and Installation Manual

GENERAL HAZARD WARNING:

Failure to comply with the precautions and instructions provided with this heater, can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, carbon monoxide poisoning, and/or electrical shock.

Only persons who can understand and follow the instructions should use or service this heater.

If you need assistance or heater information such as an instruction manual, labels, etc., contact your Ameritemp Ltd. manufacturer.



Fire, burn, inhalation, and explosion hazard. Keep solid combustibles, such as building materials, paper or cardboard, a safe distance away from the heater as recommended by the instructions. Never use the heater in spaces which do or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals.



Not for home or recreational vehicle use!

FOR YOUR SAFETY

Do not use this heater in a space where gasoline or other liquids having flammable vapors are stored or used.

We cannot anticipate every use which may be made for our heaters.

CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT LOCAL REGULATIONS.

Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.





Models AT500 and AT1000

DIRECT GAS FIRED TECHNOLOGY

For over 25 years, direct fired technology has been the most efficient and economical method of space heating, thanks to low installation and maintenance costs, excellent energy efficiency, and control over infiltration and stratification losses. That's why Ameritemp offers only direct gas fired recirculating and pressurization heaters.

ENERGY EFFICIENCY

Ameritemp portable space heaters use ultra-efficient four blade axial blowers to deliver a high velocity discharge for greater throw and circulation. By maintaining a lower discharge temperature (200-250 degrees), our heaters achieve better air mixture, further reducing stratification in your building.

DESIGN CERTIFIED

The Ameritemp product line is rigorously tested immediately after manufacture and is in full compliance with the American National Standards Institute standard (Z.83.7) for direct fired construction heaters. This ensures that an Ameritemp space heater can be used safely on all construction and industrial projects. We utilize UL certified components to meet our CSA certification.

FUEL

Our services also include fuel coordination with a network of propane suppliers, regional natural gas companies, and onsite off road delivery of diesel fuel.

SAFETY AND APPROVALS

We certify that all of our equipment meets and/or exceeds OSHA safety and environmental standards.

GAS FIRED HEATING EQUIPMENT

All components used in the manufacturing of the Ameritemp line are either UL (Underwriters Laboratories), or CSA approved and as a unit meets the American National Standards Institute Specifications (ANSI Z.83.7) for construction heaters. We offer recirculating units for natural gas and propane, and UL approved pressurization heaters for air make-up applications.

Models AT500 and AT1000

LOW COST INSTALLATION AND MAINTENANCE

Because of their low operating pressures, **Ameritemp** space heaters offer the most flexible, low cost installation: costly gas piping and expensive electrical connections are reduced, and installation is fast and simple. Ameritemp heaters, Models 500 and 1000, require no duct work and can be plugged into a standard 120 volt outlet. In addition, the one-man portability of these units keeps labor costs low.

DESIGN FEATURES Models AT500 & AT1000

1. Rigid heavy cold rolled steel construction coated with a two-stage enamel paint process to withstand harsh industrial and construction conditions.
2. 100% stainless steel ring-type burner with electronic ignition. Design proven air-mixing process insures complete combustion.
3. Asco solenoid valves are used to insure proper fuel control.
4. Four blade high efficiency axial propeller maintains air movement through higher static pressures.
5. Totally enclosed, air-over, fan cooled industrial motors operate on 120v power and are totally grounded.
6. Large diameter wheels for easy portability.
7. Exclusive inner-lined heat shield maintains a cool outer shell around the complete diameter to enhance worker safety.

SAFETY CONTROLS

Ameritemp heaters are equipped with the most complete safety system available:

- AIR PROVING SWITCH** -Assures that sufficient air pressure for combustion is provided. If air pressure is not proved, the gas supply is shut down.
- ELECTRONIC FLAME SAFEGUARD** - Provides a 5-10 second trial for ignition. In the event flame is not established, the flame control panel will go into complete lockout.
- HIGH TEMPERATURE LIMIT** - This system shuts down the gas automatically in the event of excessive heat.

MODEL	PERFORMANCE	FUEL	MAX. GAS CONSUMPTION	CFM	ELECTRICAL	NET WEIGHT	MOTOR HP	DIMENSIONS L x W x H
AT500 LP	500,000 BTU/HR	Propane	5.37 gal/hr. LPG	4600	115v, 7 amp	135 lbs.	1/2	42 x 20 x30
AT500 NG	500,000 BTU/HR	Natural	5 Therms/hr. NG	4600	115v, 7 amp	135 lbs.	1/2	
AT1000 LP	1,000,000 BTU/HR	Propane	10.73 gal/hr. LPG	5250	115v, 12 amp	185 lbs.	1	48 x 22 x33
AT1000 NG	1,000,000 BTU/HR	Natural	10 Therms/hr. NG	5250	115v, 12 amp	185 lbs.	1	

SPECIFICATIONS				
MODEL	AT500		AT1000	
INPUT	500,000 Btu's		1,000,000 Btu's	
GAS TYPE	Natural	Propane	Natural	Propane
MANIFOLD PRESSURE	3.5" w.c.	1.5" w.c.	3.5" w.c.	1.5" w.c.
MINIMUM INLET SUPPLY PRESSURE FOR THE PURPOSE OF INPUT ADJUSTMENT	7.0" w.c.	8.0" w.c.	7.0" w.c.	8.0" w.c.
MANIMUM SUPPLY PRESSURE	13.0" w.c.			
ELECTRICAL REQUIREMENTS	120 Volts, 60Hz., 7.0 - 12.0 Amps			

GENERAL INFORMATION

READ BEFORE INSTALLATION AND OPERATION

1. Heater shall be installed only in a location with adequate ventilation.
2. The installation must conform with local codes or, in the absence of local codes, with the standard for the Storage and Handling of Liquefied Petroleum Gases. ANSI/NFP A 58.
3. The heater must be located at least 6 ft. (1.83 m) from any LP-gas container.
4. LP cylinder supply system must be a vapor withdrawal system.
5. LP gas cylinders and ASME vessels have left hand threads. Always use a proper sized wrench to remove or install the P.O.L. fitting at the tank, do not use pliers.
6. After fastening the P.O.L. fitting at the tank check for leaks using a leak detector or soapy solution. If leaks are present, bubbles will be visible. After checking for leaks rinse the fittings to remove the soapy solution which may cause corrosion.
7. The LP gas supply should be turned off when the heater is not in use.
8. When the heater is to be stored indoors, the connection between the LP gas cylinder(s) and the heater must be disconnected and the cylinder(s) removed from the heater and stored in accordance with Chapter 5 of the Standard for the Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA 58.
9. When the heater is connected to natural gas, the installation must conform with local codes or, in the absence of local codes, to the National Fuel Gas Code. ANSI Z223.1/NFP A 54 Do not use heater with ductwork attached.
10. Use only the regulator supplied with the heater. If a new regulator is needed contact the manufacturer at 1-815-385-2350.
11. If the gas supply is interrupted and the heater is extinguished shut off the gas and wait 5 minutes before relighting the heater.
12. Location of supply cylinders should be on level ground and secured properly.
13. The heater area shall be kept free and clear from combustible materials, gasoline, and other flammable vapors and liquids.
14. Heater must be level when installed.
15. Minimum inlet gas supply pressure for the purpose of input adjustment; Natural gas 7.0" LP gas 8.0".
16. Maximum inlet gas supply pressure for natural and LP gas; 13.0" w.c.
17. Minimum ambient temperature - 20 degrees Fahrenheit.
18. The flow of combustion and ventilation air shall not be obstructed.
19. The heater should be inspected before each use and at least annually by a qualified service agency.
20. The hose assembly shall be visually inspected prior to each use of the heater. If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to being put into operation. The replacement hose assembly shall be that specified by the manufacturer. See parts list.
21. Replacement parts can be obtained by calling the manufacturer at 1-815-385-2350.
22. Clearances to combustibles; Front; 25.0 Ft., Sides; 4.0 Ft., Top; 10.0 Ft. Rear 6-0 Ft.
23. Intended use is the primarily the temporary heating of buildings under construction, alteration or repair.
24. When the heater is to be used indoors the heater shall not be exposed to water spray, rain and/or dripping water.
25. Electrical warning.

WARNING

Electrical Grounding Instructions

This appliance is equipped with a three prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three prong receptacle.

26. Outlet of the unit must not be directed at an LP gas container less than 20.0 feet (6.10 D1) away from outlet.
27. The minimum tank size for LP gas is 500 gallons. The operating time with this 500 gallon tank will vary depending on the ambient temperature. The colder the temperature, the less operating time will be supplied by the one 500 gallon tank.
28. The electrical connections and grounding of the appliance shall be in compliance with the National Electrical Code, ANSI/NFP A 70.
29. Do not use the heater if damaged in shipping. Inspect the heater thoroughly.
30. Propane gas is heavier than air and will accumulate on the floor if there is a leak. Make sure to check for leaks on all gas connections before operating the heater and also, when any servicing is done that requires breaking the gas connection.

OPERATING INSTRUCTIONS

1. Position heater properly. See General information section.
2. Make sure that heater is connected to the proper type of gas. Check rating plate on unit for gas type with correct pressures.
3. Connect heater to proper electrical supply that is grounded properly.
4. Turn manual gas valve located on the heater to the on position.
5. Flip main switch to the ON position. The blower will start and the burner will light within four seconds.
6. If the burner fails to light within 4 seconds, wait 5 minutes before trying to re-light the heater.
Note: the first time the heater is lit there may be air in the gas line which will delay the lighting of the burner. Once the air is purged the burner will light normally.
7. After the heater is operating, adjust the temperature setting on the thermostat. The thermostat will cycle the heater to maintain the desired temperature

SHUTDOWN INSTRUCTIONS

1. Turn off hand valve on gas line at tank or supply.
2. Allow heater to run until all fuel is out of the lines and the burner shuts off.
3. Turn manual gas valve on heater to OFF position.
4. Push circuit breaker switch on control box to the OFF position.
Note: Do NOT unplug heater from power source to shut down without following the above shutdown instructions.

MAINTENANCE INSTRUCTIONS

1. The appliance area is kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
2. The flow of combustion and ventilation air not to be obstructed.
3. Clean the outside of the heater with a damp cloth. Clean the inside of the heater with compressed air. Make sure the burner ports are not blocked and are clear of all dirt and debris.
4. The burner flame should be blue in color with a slight yellow tipping. Burner flames should not be visible beyond the outlet of the unit.
5. Fan motor is permanently lubricated, check fan blade for proper tightness and vibration.
6. Check that all wiring is secure and that the wires are not frayed.
7. The frequency of cleaning depends on the environment that the heater will be used; however the unit needs to be cleaned at least once a year.
8. Check regulator and solenoids for leaks and clean vent so that they operate properly.

TROUBLESHOOTING SECTION

PROBLEM	REASON FOR PROBLEM	REMEDY
Burner operates, but shuts off after a few seconds	Improper polarity of the power supply	Reverse 120 volt power input leads to unit
	Improper grounding of the unit	Make sure unit is properly grounded. Make sure the receptacle that the unit is plugged into is properly grounded
	Flame electrode is not sensing flame	Clean flame electrode. Green grounding wire on ignitor breaker is securely attached. Unit is properly grounded
Burner will not light	High limit switch broken	Check for continuity across high limit terminals.
	Ignition module failure	Check for input voltages and output voltages. Output voltages to the solenoids will be 120 volts.
	Main fuse blown	Check for wire harness damage. Check incoming power supply for proper voltage.
	Thermostat failure	Check continuity across terminals of the thermostat. Rotate thermostat dial to open contacts.
Burner heat output is low	Low gas pressure	Check gas supply. Check regulator for proper operation. Check vent of regulator. Check burner ports for blockage

PROPER SET UP

NOTE: The AT500 and AT1000 must be specifically set up for the type of available fuel PRIOR to installation

- The heaters will use 5.37/10.73 gallons of L.P. per hour. Use at least one 500/1000 gal. Liquid withdrawal tank as shown below. This will insure 80 hours of continuous operation.
- Model AT500 and AT1000, if setup for Vapor Propane withdraws 500,000/ 1,000,000 BTU's per hour. Proper Tank sizing is essential. A propane tank can only make X amount of Vapor per hour. Withdrawing the vapor at a faster rate will frost the tank and eventually the burner will run out of fuel.
- Hose sizing Vapor Propane -- up to 100', use 3/4" or larger hose
- For Natural Gas applications you must know the available line pressure and pipe inside diameter. Call the factory for the proper size of orifice, gas manifold and hose.
- Vapor Propane and Natural Gas Units can be used inside the building or outside.
- Wire Sizing for proper electrical connections.
Power Supply line Sizing: AT500/1000 - 115 Volt - 100' - 12 ga. 100 ft to 200 ft - 10 ga.

INSTALLATION USING A PROPANE SUPPLY TANK(S)

- 1) The propane supply system must be set up for vapor withdrawal from the operating tank(s). Liquid propane can cause the heater to over fire and will damage valve train components, unless unit is supplied with a built in vaporizer.
- 2) The heater must be located at least 6 ft. from any LP-Gas container, and not directed toward any LP-Gas container within 20 ft.

3) **Propane Tank Sizing**

Maximum intermittent withdrawal rate (BTUH) without tank frosting*. If lowest outdoor temperature (advantage for 24 hours) reaches:

Tank Size: (gallons)	40°F	30°F	20°F	10°F	0°F	-10°F	-20°F	-30°F
500	478,800	418,600	360,400	329,700	300,100	294,800	242,300	238,600
1000	852,800	745,600	641,900	587,500	534,500	525,400	431,600	425,000

Note: These BTU figures are based on: · 70% Relative Humidity · The tank is 1/2 full · Intermittent vapor withdrawal

- 4) The installation must conform with local codes, or in the absence of local codes, with the Standard for Storage and Handling of Liquefied Petroleum Gases ANSI/NFPA 58.
- 5) Turn off the propane supply valve at the tank(s) when the heater is not in use.
- 6) When the heater is to be stored indoors the propane tank(s) must be disconnected from the heater and the tank(s) stored in accordance with Chapter 5 of the above National Standard.

COMMON INSTALLATION AND OPERATIONAL PROBLEMS

1) **LOW VOLTAGE AT THE HEATER**

This is one of the most common problems and is usually the result of the supply cord having too small a wire gauge for its length, or low voltage at the power source. Low voltage results in the motor overheating, burnt relay contacts, or a relay that will not make contact. Check voltmeter on heater before start-up.

2) **SUPPLY LINE TOO SMALL**

Minimum size: 3/4" for LP, 1" for Natural Gas.

3) **INSUFFICIENT VAPORIZATION AT SUPPLY**

Normally caused by undersized supply tank.

4) **IMPROPER GAS SUPPLY PRESSURE**

Usually a result of propane supply pressure being too high because of improper or lack of regulation, or too low of natural gas pressure at meter.

5) **DIRTY GAS SUPPLY**

Dirty gas can cause strainers to plug or form a build-up in the burner orifice.

6) **LACK OF PREVENTIVE MAINTENANCE**

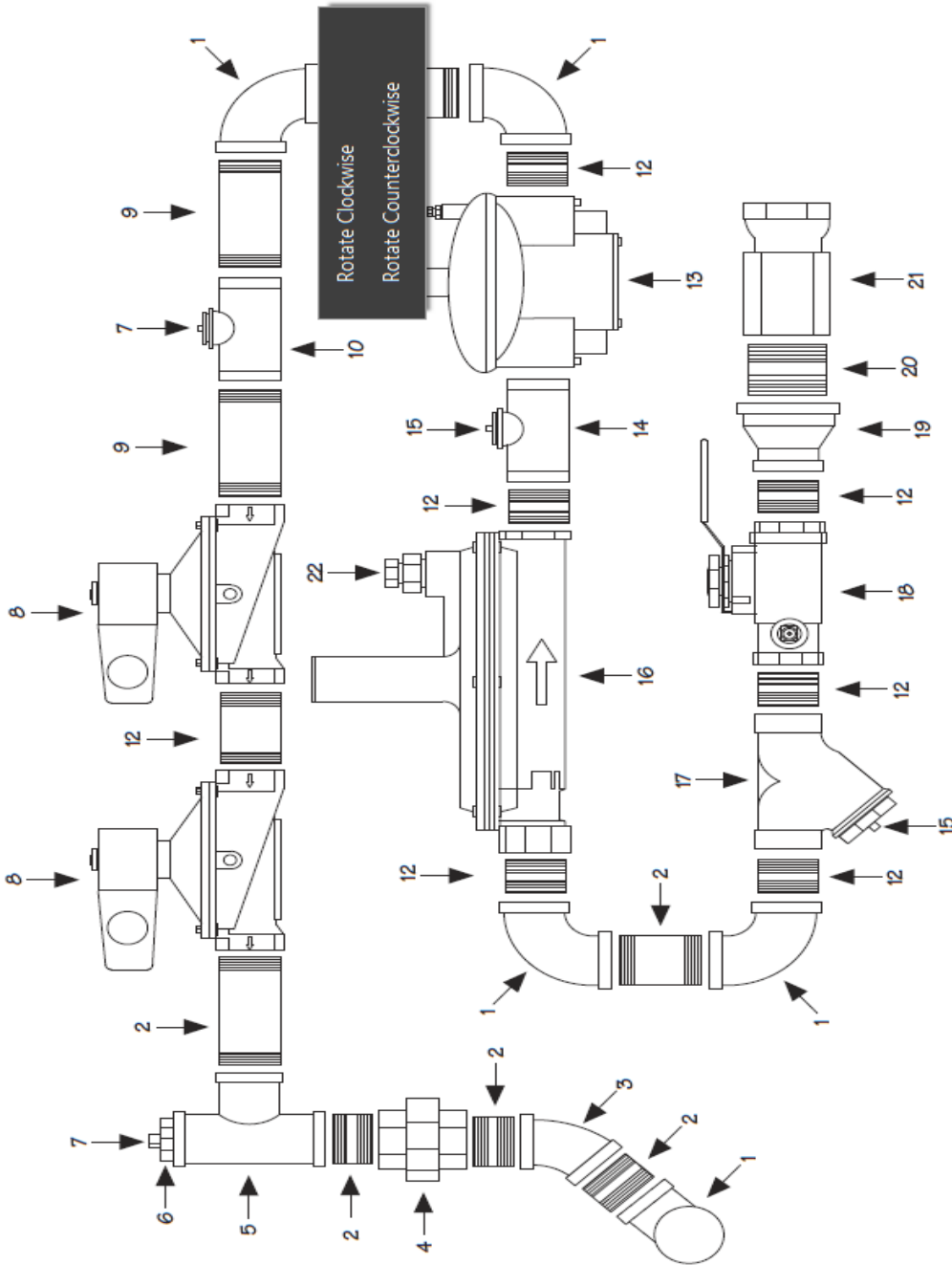
Heaters must be cleaned as required, especially when used in a dirty environment.

7) **IMPROPER SUPPLY OF FRESH AIR**

It is strongly recommended that the intake air of the heater be taken from outside the enclosed area. This provides a slight pressurization and prevents any problems associated with recirculation of products of combustion.

BILL OF MATERIAL LISTING AT500 & AT1000

BILL OF MATERIALS LISTING - AT500			BILL OF MATERIALS LISTING - AT1000		
COMPONENT#	DESCRIPTION	QTY	COMPONENT#	DESCRIPTION	QTY
IGNITER	SPARK IGNITER FOR AT500/AT1000	1	RV53-1	LP REGULATOR FOR AT1000	1
VL RV53	VENT LIMITOR FOR RV53 REGS	1	1" TEES	1" TEE'S BLACK PIPE	1
14/3 SJO	14/3 SJO 300V PORTABLE CORD	3	325-7	HP REGULAOR FOR AT1000	1
RV53-3/4	LOW PRESSURE REG. FOR AT500	1	IGNITER	SPARK IGNITER FOR AT500/AT1000	1
VL 325-5	VENT LIMITOR FOR 325-5 REGS	1	VL RV53	VENT LIMITOR FOR RV53 REGS	1
1" NIPPLE	1" CLOSE NIPPLE BLACK PIPE	1	1" UNION	1" UNION	1
1/2" NUTS	1/2" NUTS FOR CARRIAGE BOLTS	3	14/3 SJO	14/3 SJO 300V PORTABLE CORD	3
1/4" NUTS	1/4" NUTS FOR CARRIAGE BOLTS	4	VL 325-5	VENT LIMITOR FOR 325-5 REGS	1
10" WHEEL	10" CLOSE WHEEL BLACK PIPE	2	1" NIPPLE	1" CLOSE NIPPLE BLACK PIPE	8
12 GA WIRE	12 GA WIRE 300V PORTABLE CORD	6	1/2" NUTS	1/2" NUTS FOR CARRIAGE BOTS	3
34" TEES	34" CLOSE TEES BLACK PIPE	1	1/4" NUTS	1/4" NUTS FOR HEX HEAD BOLTS	4
325-5-3/4	HP (10PSI) REGULATOR FOR AT500	1	10" WHEELS	10" SEMI-PNEUMATIC WHEEL	2
3AMP FUSE	3AMP FUSE 300V PORTABLE CORD	1	12 GA WIRE	12 GA WIRE ASSORTED COLORS	7
MS-17.5-9	17.5" PROPELLERS 5/8 BORE/50	1	3 AMP FUSE	3AMP FUSE FOR AT500/AT1000	1
15AMP PLUG	15AMP PLUG 300V PORTABLE CORD	1	1 HP MOTOR	1 HP MOTOR FOR AT1000	1
3/4" UNION	3/4" UNION BLACK PIPE	1	15 AMP PLUG	15 AMP STRAIGHT BLADE PLUG	1
BURNER 500	GAS BURNER FOR AT500	1	GROUND LUG	6 AWG GROUND LUG TERMINAL	1
GROUND LUG	6AWG GROUND LUG TERMINAL	1	HIGH LIMIT	HIGH LIMIT FOR AT500/AT1000	1
HIGH LIMIT	HIGH LIMIT FOR AT500/AT1000 (220°)	1	S.S LATCH	S.S. DRAW LATCH	2
S.S. LATCH	S.S. DRAW LATCH	2	THERMOSTAT	THERMOSTAT ADJUSTABLE	1
THERMOSTAT	THERMOSTAT ADJUSTABLE	1	VINYL GRIP	VINYL GRIP BLK. FOR AT500/AT1000	2
VINYL GRIP	VINYL GRIP BLK FOR AT500/1000	2	1" 90 ELBOW	1" 90 ELBOW BLACK PIPE	3
1/8" RIVETS	1/8" RIVETS	8	1/8" RIVETS	1/8" RIVETS	8
1/8" GA. GALV.	18 GA. GALV. FOR OUTER BODY	20	18 GA GLAV.	18 GA GLAV. FOR OUTER BODY	24
3/4" NIPPLE	3/4" CLOSE NIPPLE BLACK PIPE	7	5/8" WASHER	5/8" STANDARD PLAIN WASHER	7
3/4-1/4 BUSH	3/4" TO 1/4" BUSHING	1	5/8" AXELROD	5/8" AXEL ROD 24" LONG	1
5/8" WASHER	5/8" STANDARD PLAIN WASHER	7	BURNER 1000	GAS BURNER FOR AT1000	1
5/8" AXELROD	5/8" AXEL ROD 24 LONG	1	FUSE HOLDER	FUSE HOLDERS FOR AT500/AT1000	1
FUSE HOLDER	FUSE HOLDER FOR AT500/AT1000	1	HX BUSH 1 1/4"	HEX BUSHING 1" x 1/4"	1
PIANO HINGE	ALUMINUM PIANO HINGE	14	PIANO HINGE	ALUMINUM PIANO HINGE	14
SAIL SWITCH	HONEYWELL SAIL SWITCH ADJUST	1	SAIL SWITCH	HONEYWELL SAIL SWITCH ADJUST	1
1"-3/4" REOUC	1"-3/4" REDUCTING COUPLING BP	1	SOLENOID 1"	ASCO SOLENOID VALVE 1"	2
1"x1" FITTING	1" x 1" PIPE SWIVEL ADAPTER HY	1	1" GAS VALVE	1" GAS SHUT OFF BALL VALVE	1
1/2 HP MOTOR	1/2HP MOTOR FOR AT500	1	1" STREET 90	1" STREET 90	1
1/2" x 5" CBOLT	1/2" x 5" CARRIAGE BOLTS	3	1" Y STRAINER	1" Y STRAINER	1
1/2" LT CONDUIT	1/2" NM LIQUID TIGHT CONDUIT	1	1" x 1" FITTING	1" x 1" PIPE SWIVEL ADAPTER HY	1
1/4" x 1" HHBOLT	1/4" x 1" HEX HEAD BOLT	4	1/2" x 5" CBOLT	1/2" x 5" CARRIAGE BOLTS	3
12 GA CORD GRIP	12 GA CORD GRIP FITTING	1	1/2" LP CONDUIT	1/2" NM LIQUID TIGHT CONDUIT	1
14 GA HT WIRE	14 GA HIGH TEMP BRAIDED WIRE	9	1/4" x 1" HHBOLT	1/4" x 1" HEX HEAD BOLT	4
14 GA ALUMIN	14 GA ALUMINUM FOR ELECTRIC BOX	3	12 GA CORD GRIP	12 GA CORD GRIP FITTING	1
14 GA BLACK IRON	14 GA BLACK IRON FOR HEATERS	4	14 GA HT WIRE	14 GA HIGH TEMP BRAIDED WIRE	10
18" IRON RING	18" ROUND IRON RING 11x1x1/8	1	14 GA ALUMIN	14 GA ALUMINUM FOR ELECT. BOX	3
20 AMP ON/OFF	20 AMP SWITCH FOR AT500/AT1000	1	14 GA BLACK IRON	14 GA BLACK IRON FOR HEATERS	5
22 GA ALUMSTL	22 GA ALUMINIZED STEEL IN-BO	12	2" x 1" NIPPLE	2" x 1" NIPPLE	3
2 3/4" NIPPLE	2" x 3/4" NIPPLE	6	20" IRON RING	20" ROUND IRON RING 11x1x1/8"	1
3/16" RIVETS	3/16" RIVETS	18	20 AMP ON/OFF	20 AMP SWITCH FOR AT500/AT1000	1
3/4" BLACK PIPE	3/4" BLACK PIPE	1	22 GA ALUM STL	22 GA ALUMINIZED STEEL IN-BO	15
3/4" 45 ELBOW	3/4" 45 ELBOW BLACK PIPE	1	3" x 1" NIPPLE	3"x1" NIPPLE	1
3/4" 90 ELBOW	90 ELBOW 3/4" BLACK PIPE	5	3/16" RIVETS	3/16" RIVETS	18
3/4" GAS VALVE	3/4" GAS SHUT OFF BALL VALVE	1	3/4" BLK PIPE	3/4" BLACK PIPE	1
3/4" YSTRAINER	3/4" Y STRAINER	1	4" x 1" NIPPLE	4"x1" NIPPLE	1
3 1/2" - 3/4" NIPP	3 1/2" x 3/4" NIPPLE	1	5/5" PUSH CAP	5/8" PUSH CAP NICKEL PLATED	2
4 1/2 x 3/4" NIPP	4 1/2" x 3/4" NIPPPLE	2	7 MM SP CABLE	7 MM SPARK PLUG CABLE	3
5/8" PUSHCAP	5/8" PUSH CAP NICKLE PLATED	2	EQUIP LABELS	EQUIPMENT IDENT/SAFETY LABEL	1
7MM SP CABLE	7MM SPARK PLUG CABLE	2	EXPANDED METL	14 GA EXPANDED METAL FOR RIN	3
EQUIP LABELS	EQUIPMENT IDENT/SAFTEY LABEL	1	FENWALL BOARD	FENWALL BOARD FOR AT500/AT1000	1
EXPANDEDMETL	14 GA EXPANDED METAL FOR RIN	2	HX BUSH 1/2 1/4	HEX BUSHING 1/2" x 1/4"	1
FENWALL BOARD	FENWALL BOARD FOR AT500/AT1000	1	HX BUSH 1/2 3/8	HEX BUSHING 1/2" x 3/8"	1
LEGEND PLATE	ON/OFF LEGEND PLATE FOR SWIT	1	LEGEND PLATE	ON/OFF LEDEND PLATE FOR FDR SWITCH	1
REDTS 3/4 1/4	REDUCING T'S 3/4" x 1/4" x 3/4	1	MS-19.5-10.5	19.5" PROPELLERS 5/8" BORE/10	1
REDTS 3/4 3/8	REDUCTIN T'S 3/4" x 3/8" x 3/4	1	REDT'S 1x1/2	REDUCING T'S 1x1/2x1	2
SOLENOID 3/4	ASCO SOLENOID VALVE 3/4" AT500	2	SQHDPLUG 1/4	SQUARE HEAD PLUG 1/4	2
SOHDPLUG 1/4	SQUARE HEAD PLUG 1/4	2	SQHOPLUG 3/8	SQUARE HEAD PLUG 3/8	1
SQHDPLUG 3/8	SQUARE HEAD PLUG 3/8	1	TERMINAL BLOCK	300V TERMINAL BLOCK	1
TERMINAL BLK	300V TERMINAL BLOCK	1			



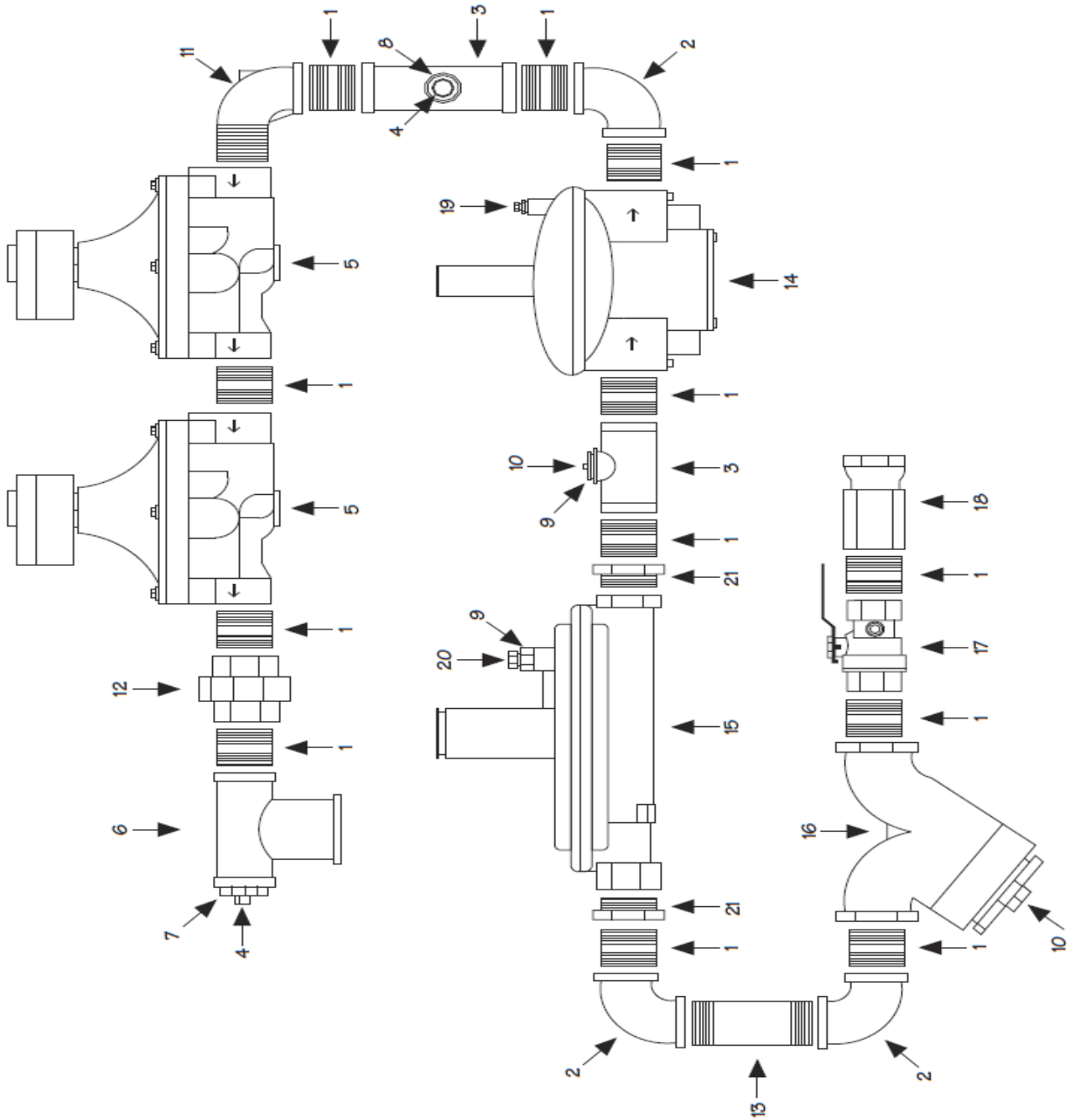
No.	Item	Qty
23	1/4" Vent Limitor	1
22	3/4" Vent Limitor	1
21	Swivel Adapter - 1"	1
20	Close Nipple - 1"	1
19	Reducer - 3/4" x 1"	1
18	Shut Off Ball Valve	1
17	Strainer - 3/4"	1
16	HP Regulator #325-5A-3/4	1
15	Plug 3/8"	2
14	Tee 3/4" x 3/8" x 3/4"	1
13	LP Regulator #R55-3/4	1
12	Close Nipple 3/4"	9
11	Nipple 3/4" x 3"	1
10	Tee 3/4" x 1/4" x 3/4"	1
9	Nipple 3/4" x 4 1/2"	2
8	Solenoid Valve # 8040G25-120	2
7	Plug 1/4"	2
6	Bushing 3/4" x 1/4"	1
5	Tee 3/4"	1
4	Union 3/4"	1
3	45° Elbow 3/4"	1
2	Nipple 3/4" x 2"	4
1	90° Elbow 3/4"	5

Bill of Materials

AT500 GAS TRAIN DIAGRAM

Ameri Temp Ltd.
 Temporary Climate Control
 and Power Equipment

Date: 3-3-2004
 Drawing Number: AT500-001



No.	Item	Qty
21	Pushing - 1" x 1 1/4"	2
20	Vent Limiter - 3/8"	1
19	Vent Limiter - 1/4"	1
18	Swivel Adapter - 1"	1
17	Shut Off Ball Valve - 1"	1
16	Strainer - 1"	1
15	Regulator #325-7-11/4	1
14	LP Regulator #RV53-1	1
13	Nipple - 1" x 3"	1
12	Union - 1"	1
11	Street Elbow 90° - 1"	1
10	Plug 3/8"	2
9	Bushing 3/8" x 1/2"	2
8	Bushing 1/4" x 1/2"	1
7	Bushing 1/4" x 1"	1
6	Tee 1"	1
5	Solenoid Valve #6215B50-120	2
4	Plug 1/4"	2
3	Tee 1" x 1/2" x 1"	2
2	Elbow 90° - 1"	3
1	Close Nipple - 1"	12
No.	Item	Qty

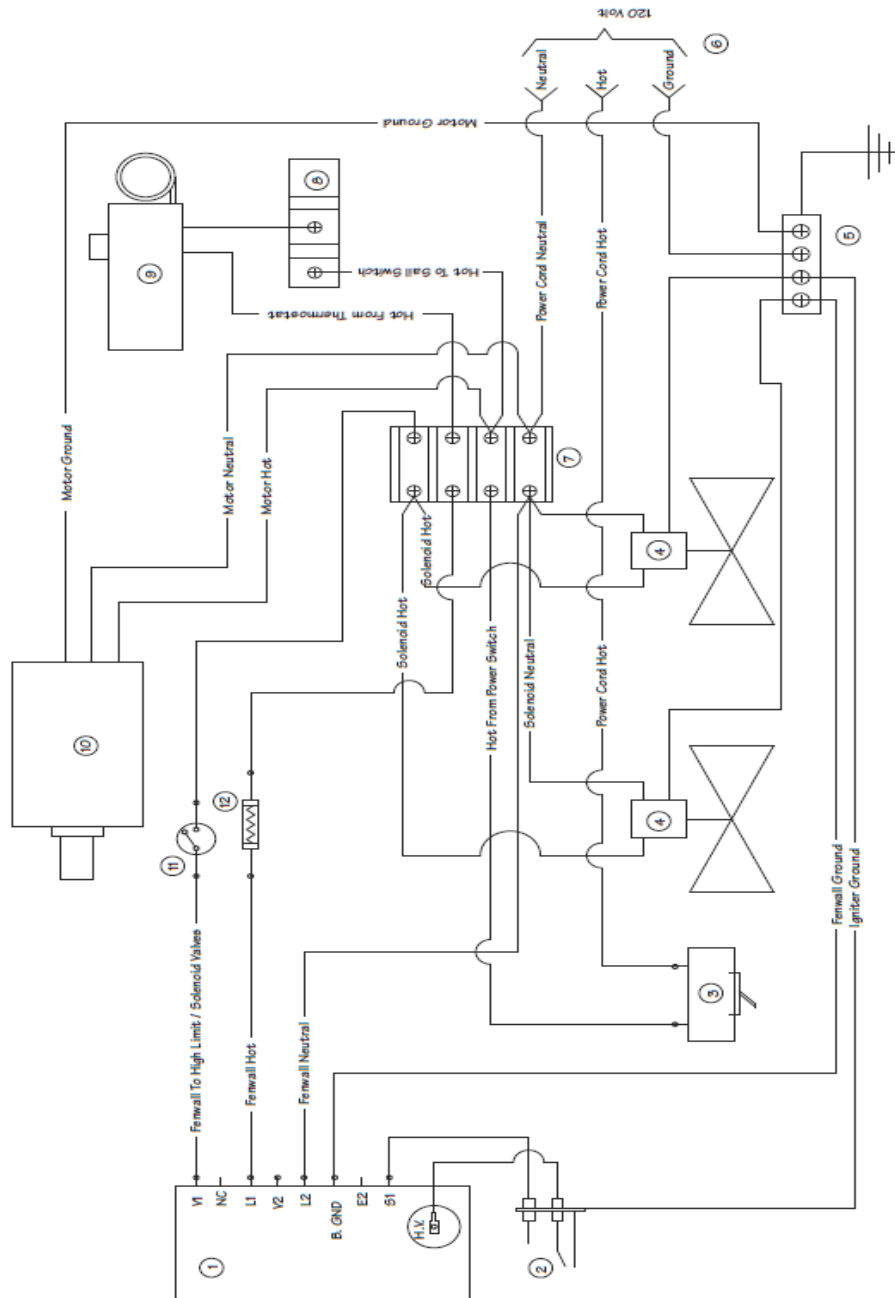
Bill of Materials

AT1000 GAS TRAIN DIAGRAM

Ameri Temp Ltd.
 Temporary Climate Control
 and Power Equipment

Date: 3-5-2004

Drawing Number: AT1000-001



No.	Item
12	3 Amp Fuse Assembly
11	High Limit Switch
10	Fan Motor
9	Thermostat
8	Sail Switch
7	Insulated Terminal Block
6	Power Cord Input
5	Ground Block
4	Gas Line Solenoid
3	Power On / Off Switch
2	Spark Igniter / Flame Sensing Probe
1	Fenwall Control Box

Bill of Materials

AT500 AT1000 Wiring Diagram

Date: 3-3-2004
 Drawing Number: AT500-001
 Temporary Climate Control and Power Equipment