

Why A Chiller?

A chiller makes sense; and positively **improves your bottom line**, when you consider the savings in water, sewage and equipment costs.

Equipment Protection:

The most compelling reason for a chiller, is the protection it provides your valuable processing equipment—such as spot welders, injection molding equipment and other applications. A chiller commonly represents a small fraction of the cost of the processing equipment, yet it provides solid protection of your investment, 24-hours-a-day, 7-days-a-week for years and years to come.



Increased Production:

The speed and accuracy of production will increase as you maintain a constant and proper cooling temperature in the equipment. A chiller will reduce the number of rejected parts while increasing the number of parts produced per hour. You may ask yourself... "Does my equipment shut down during the summer months?" "Are there periods where our rejection rate increases?" A water tower may provide cooling during fall and winter months, yet usually fails during the hotter periods of the year. A water chiller will immediately eliminate this problem.

Eliminates the Guesswork:

Do you have a "genius" at your company whom you depend on to adjust the flow of city water or tower water in an effort to provide enough cooling? Let chiller technology take care of these problems. With a properly sized chiller installed, you simply set the chiller temperature and the "genius" inside the chiller maintains a consistent source of properly chilled water.

Saves Water and Related Costs:

Do you use city water? "Yes, only 10 gallons per minute (1.2 million gallons of water per year)." What is the cost of your water? What are your sewage costs? Have you heard of E.P.A.? Around the country there is a growing recognition of the tremendous cost associated with using city water for process equipment. When you do a cost analysis, a water chiller ends up paying for itself in savings from the cost of water to the cost of disposing the water down the drain.

A-Flame Chillers:

An A-Flame Chiller will protect your investment, improve productivity, take out the guesswork, and save you money. We provide quality product to meet most cooling applications.

Model Number 50AF - Standard 60,000 BTU Chiller - AC Air Cooled

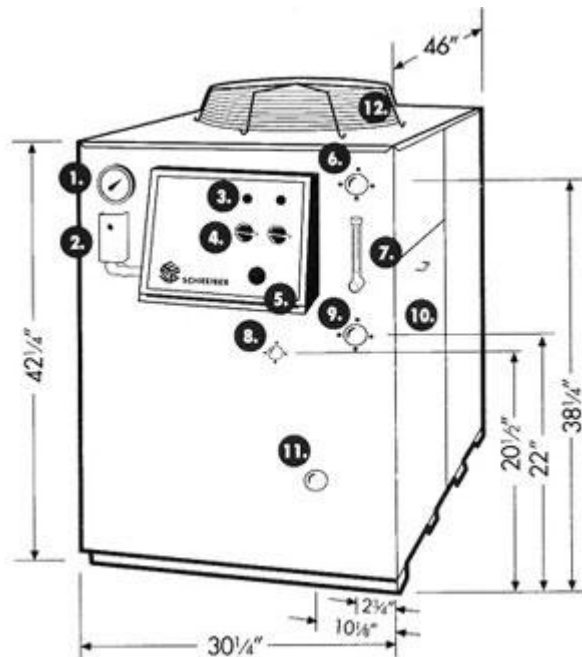
ARI Standard 44° F Chilled Water at 95° Ambient air
Capacity 5 TON - 60,000 BTU Per Hour
Fluid Pump 15 G.P.M. @ 78 p.s.i.
Fluid Circulating Pump 2 HP
Fluid Reservoir Capacity 45 Gallons
Cabinet Size 30 1/4" W x 46" D x 38 1/4" H
Weight 825 lbs.
Voltage 230/3 or 460/3
Amperage 27.0 – 14

INCLUDES:

Dial Thermometer
Pilot Lights for Compressor and Pump
Power Disconnect
Water Level Sight Glass
Chilled Water Discharge-1" N.P.T.
Pump Rotation Check

Temperature Controller
Switches for Compressor and Water Pump
Chilled Water Return-1" N.P.T.
Water Reservoir Fill-1/2" N.P.T.
Access Door
16" Condenser Fan.

Price \$8,325.00



Web Site: <http://aflame.homestead.com/>

Model Number 90AF - Standard 90,000 BTU Chiller - AC Air Cooled

ARI Standard 44° F Chilled Water at 95° Ambient air

Capacity 7.5 TON - 90,000 BTU Per Hour

Fluid Pump 15 G.P.M. @ 138.0 p.s.i.

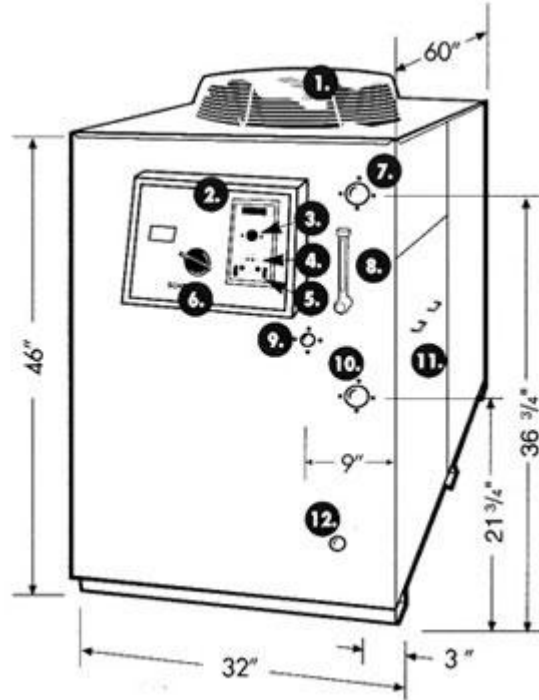
Fluid Reservoir Capacity 60 Gallons

Cabinet Size 60"W 32" D 46" H

Weight 1,100 lbs.

Fluid Circulating Pump 2 HP

Voltage 230/3 or 460/3 - Amperage 34.0-16.5



- 1) 24" Condenser Fan
- 2) Temperature Readout
- 3) High Temperature Alarm
- 4) Pilot Lights for Compressor and Water Pump
- 5) Switches for Compressor and Water Pump
- 6) Power Disconnect
- 7) Chilled Water Return- 1 1/2 " N.P.T.
- 8) Water Level Sight Glass
- 9) Water Reservoir Fill-1/2" N.P.T.
- 10) Chilled Water Discharge 1 1/2" N.P.T.
11. Access Door
- 12) Pump Rotation Check

Suitable for most Plasma applications

Web Site: <http://aflame.homestead.com/>

Model Number 120AF - Standard 120,000 BTU Chiller - AC Air Cooled

ARI Standard 44° F Chilled Water at 95° Ambient air

Capacity 10 TON - 120,000 BTU Per Hour

Fluid Pump 15 G.P.M. @ 138.0 p.s.i.

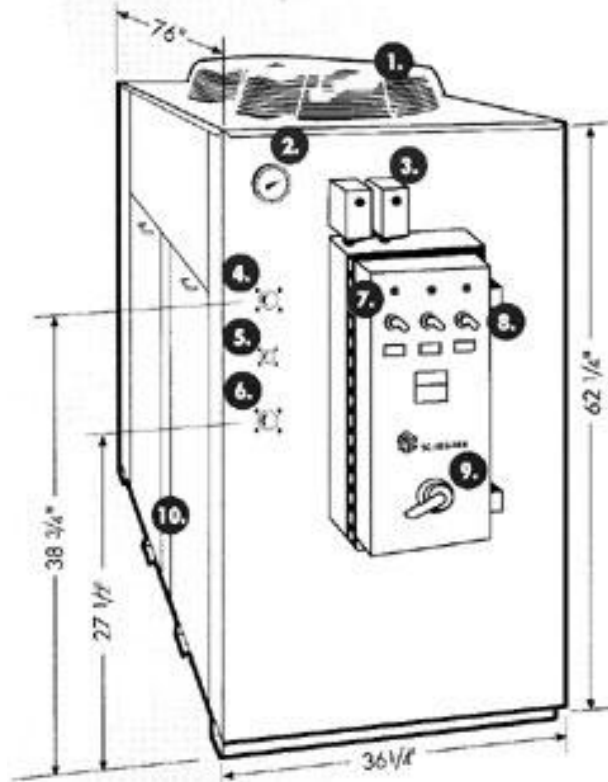
Fluid Reservoir Capacity 85 Gallons

Cabinet Size 36 1/4" W 76" D 62 1/4" H

Weight 1,700 lbs.

Fluid Circulating Pump 3 HP; Fluid Pump Pressure/Flow Matched to the System being cooled.

Voltage 230/3 or 460/3 - Amperage 51.5-29.0



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| 1. 2-18" Condenser Fans | 6. Chilled Water Discharge- 1 1/2" |
| 2. Dial Thermometer | 7. Pilot Lights for Compressor & Water Pump |
| 3. Chilled Water Return- 1 1/2" N.P.T. | 8. Manual Switches for Compressor & Water Pump |
| 4. 1st & 2nd Stage Thermostats | 9. Power Disconnect |
| 5. Water Reservoir Fill- 1/2" N.P.T. | 10. Access Panels |

Suitable for most HVOF applications

Web Site: <http://aflame.homestead.com/>

Model Number 240AF - Standard 240,000 BTU Chiller AC Air Cooled

ARI Standard 44⁰ F Chilled Water at 95⁰ Ambient air

Capacity 20 Tons

BTU Per Hour 240,000

Fluid Reservoir Capacity 145 Gallons

Cabinet Size 92 1/4 " W x 38" D x 70 1/8"

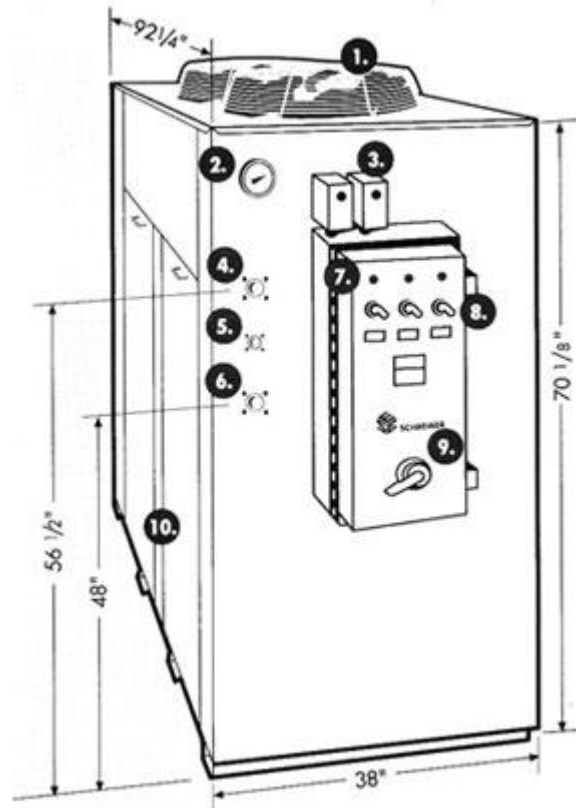
Weight 3000 lbs.

Fluid Circulating Pump 5 HP

Voltage 460/3

Amperage 44.3

Fluid Pump Pressure/Flow Matched to the Systems being cooled.



- 1) 2 - 24" Condenser Fans
- 2) Dial Thermometer
- 3) 1st & 2nd Stage Thermostats
- 4) Chilled Water Return- 2" N.P.T.
- 5) Water Reservoir Fill- 1/2" N.P.T.
- 6) Chilled Water Discharge- 2"N.P.T.
- 7) Pilot Lights for Compressor & Water Pump
- 8) Manual Switches for Compressor & Water Pump
- 9) Power Disconnect
- 10) Access Door

Suitable for Multiple HVOF and Plasma Applications

Web Site: <http://aflame.homestead.com/>

Model Number 300AF - Standard 300,000 BTU Chiller AC Air Cooled

ARI Standard 44⁰ F Chilled Water at 95⁰ Ambient air

Capacity 25 Tons

BTU Per Hour 300,000

Fluid Reservoir Capacity 145 Gallons

Cabinet Size 92 1/4" W 38"D 75" H

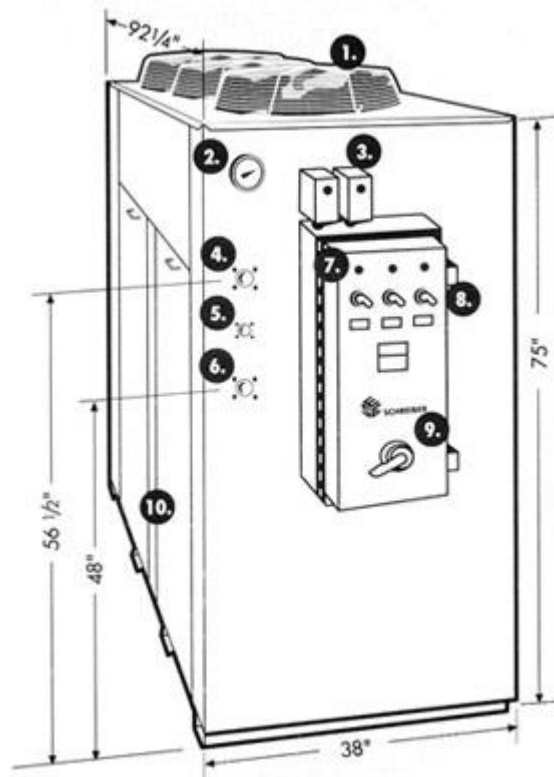
Weight 3650 lbs.

Fluid Circulating Pump 5 HP

Voltage 460/3

Amperage 60.0

Fluid Pump Pressure/Flow Matched to the Systems being cooled.



- 1) 3 - 24" Condenser Fans
- 2) Dial Thermometer
- 3) 1st & 2nd Stage Thermostats
- 4) Chilled Water Return- 2" N.P.T.
- 5) Water Reservoir Fill- 2" N.P.T.
- 6) Chilled Water Discharge- 2"N.P.T.
- 7) Pilot Lights for Compressor & Water Pump
- 8) Manual Switches for Compressor & Water Pump
- 9) Power Disconnect
- 10) Double Access Doors

Suitable for Multiple HVOF and Plasma Applications

Web Site: <http://aflame.homestead.com/>

Model Number 360AF - Standard 360,000 BTU Chiller AC Air Cooled

ARI Standard 44^o F Chilled Water at 95^o Ambient air

Capacity 30 Tons

BTU Per Hour 360,000

Fluid Reservoir Capacity 145 Gallons

Cabinet Size 44 1/4" W x 102 1/4" D x 76" H

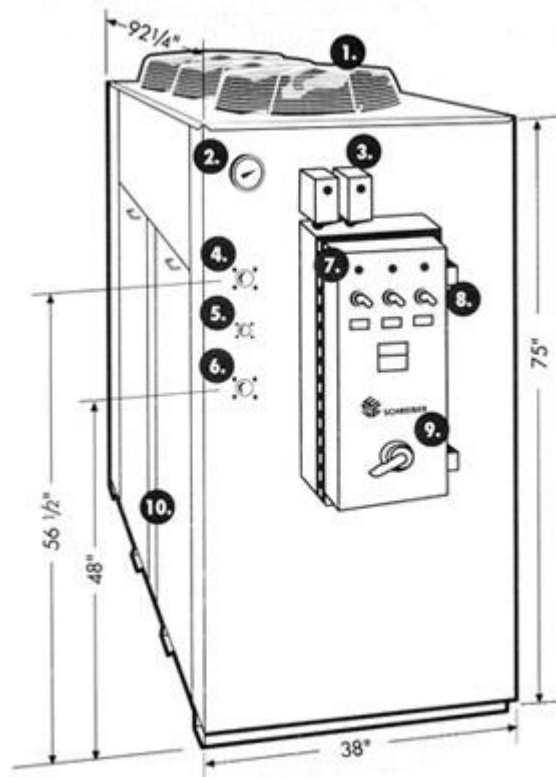
Weight 4,000 lbs.

Fluid Circulating Pump 5 HP

Voltage 460/3

Amperage 68.7

Fluid Pump Pressure/Flow Matched to the Systems being cooled.



- 1) 3 - 24" Condenser Fans
- 2) Dial Thermometer
- 3) 1st & 2nd Stage Thermostats
- 4) Chilled Water Return- 2" N.P.T.
- 5) Water Reservoir Fill- 2" N.P.T.
- 6) Chilled Water Discharge- 2"N.P.T.
- 7) Pilot Lights for Compressor & Water Pump
- 8) Manual Switches for Compressor & Water Pump
- 9) Power Disconnect
- 10) Double Access Doors

Suitable for Multiple HVOF and Plasma Applications

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Before You Decide!

A-Flame's Chiller quality is second to none! When comparing chillers, you must compare apples to apples. If you do, you will find that our Chiller offers the best quality and delivers 100%, or more, of its stated capacity.

Below are a few tips to help make an informed decision. Remember to properly calculate your load requirements and then carefully review the specifications of the considered chillers so that you can enjoy years of trouble-free service. Not all chillers are rated on the same scale. All A-Flame Chillers are rated at the ARI National Standard.

1. IS THE CHILLER ARI RATED?

Buyer beware! The ARI (Air Conditioning and Refrigeration Institute) sets the National Standards for how to rate BTU's in the chiller industry just as UL (Underwriters Laboratories) sets the standards for the electrical industry. The ARI National Standard is **44° F for chilled water and 95° F ambient temperature**. Some chiller manufacturers rate their chiller to their own standards of 50° F and higher chilled water temperatures.

2. IS THE SYSTEM CONTAMINANT FREE? CHECK THE PUMP AND RESERVOIR!

Increase your efficiency and greatly extend the life of your chiller and equipment by utilizing a **contaminant-free "closed-loop" system**. All A-Flame water chillers have either a **Stainless Steel, or Bronze, Water Pump, and Stainless Steel Water Reservoirs**. Be sure to ask your manufacturer if the system you are considering is a contaminant-free system. Enjoy years of active duty with a contaminant free system.

3. THE QUALITY OF A COMPRESSOR IS A CRUCIAL COMPONENT!

Every A-Flame Chiller comes standard with a Tecumseh™ compressor. Hermetically Sealed. The Tecumseh compressor **eliminates many design problems** associated with other compressors.

4. COMPARE APPLES TO APPLES!

When you compare the **true ratings and the sum of its components**, A-Flame chillers are an excellent decision, and are very competitively priced. We back every chiller with a policy of fairness, quality and superb design.

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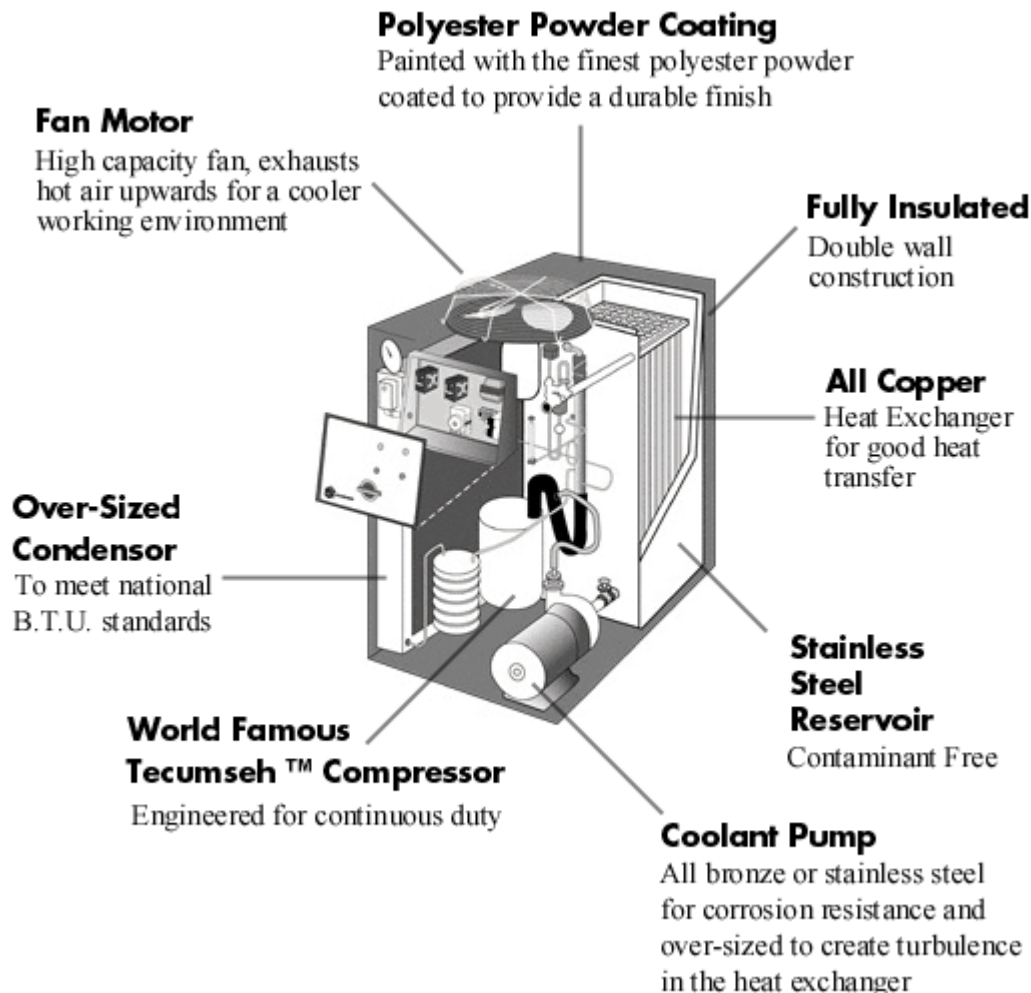
Design Construction

These chillers will endure **years of hard use**, they represent an unparalleled level of manufacturing **craftsmanship**, and a dogged determination to build the **finest chiller** made.

All A-Flame Chillers meet or exceed the **Air Conditioning and Refrigeration Institute (ARI) standards** for refrigeration systems, standards sometimes ignored by other chiller manufacturers. These standards for BTU ratings are based on **95° F ambient and 44° F for chilled water**.

Warranty!

A-Flame warrants the products described herein against defective material or workmanship for one year from the date of purchase. If any part is found to be defective, within the warranty period, A-Flame, or its authorized agent, will replace or repair the part free of charge for materials and labor. This warranty does not cover damage caused by misuse, accident, abuse, incorrect installation or operation. In addition, it does not cover damage occurring during transit, or damage caused by or resulting from repair or modification carried out by anyone other than A-Flame or its Authorized Service Agent. All Warranty Service must receive approval from the factory.



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