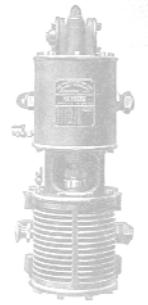
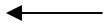


Single Cylinder Steam Water Pump

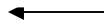


by **Keim Steam Pumps**
For 1" Scale Steam Locomotives

Steam
OUT



Steam
IN



Water
OUT



Water
In



- Proportioned model of a 9 1/2" Westinghouse air compressor.
- Overall height 5" : Maximum body diameter 1.25"
- 1/4-40 MTP male pipe threads on all connections.
- Working pressure range: 50-120 psi.
- Displaces 0.57 pints per minute at 120 strokes per minute.
- Steam bore 3/4": Water bore 7/16": Stroke 1"
- Lubrication: 600W steam cylinder oil or equivalent.
- One piece shuttle valve design.
- Universal mounting bracket
- Left or Right Side Admission available

Right Side Admission Style Shown (Fireman Side Mount)

The Westinghouse 9 1/2" air compressor was the first widely used steam driven appliance applied to steam locomotives after the introduction of Westinghouse's air brake system in 1869. After the development of the cross compound air compressor, the single cylinder air compressor was retained on many locomotives, especially those delegated to branch line passenger and freight service. The model pump developed today is a proportioned representation of the 9 1/2" air compressor. This model was designed as a water pump to satisfy the need for a reliable alternative feedwater supplying device. This pump should not be used as the only source for forcing water into your boiler, but as a supplement to existing methods. This model provides the visual appearance and the rhythmic auditory sensation of a working prototype compressor.

A displacement lubricator is not supplied but is required when plumbing this pump up to a steam line. Operation can be made using compressed air, however, an inline lubrication system is recommended.

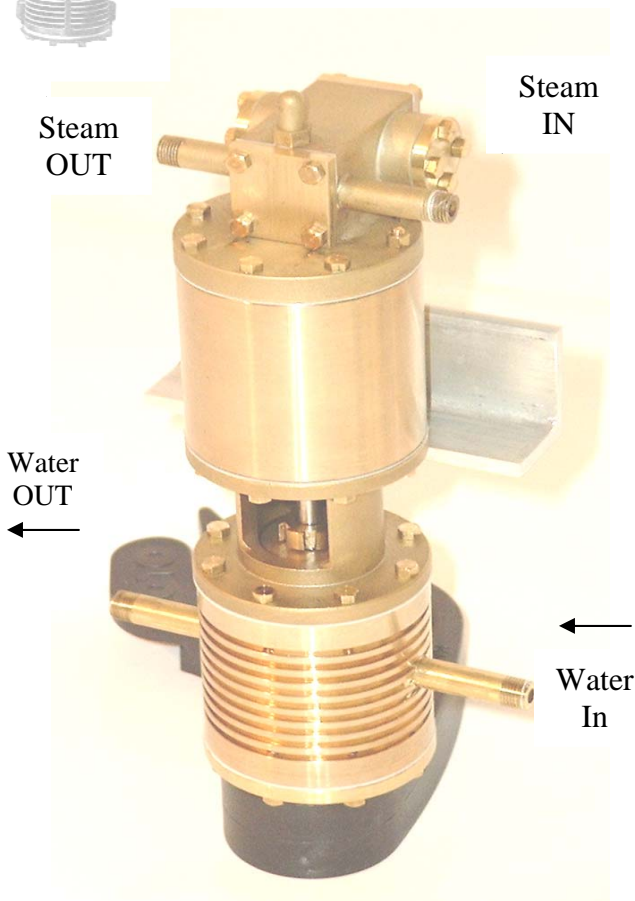
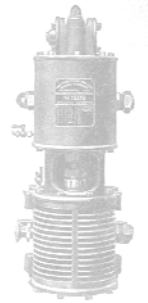
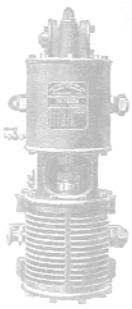
A cold pump should not be started on low steam pressure since this will flood the steam chambers and passageways with water. Instead, a cold pump should be started at higher pressure 75-120 PSI. This model pump has been designed to be resistant to "condensate lockup". Allow up to 60 seconds for a cold pump to start. Normal response time for a pump to begin cycling is 5 to 15 seconds.

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Single Cylinder Steam Water Pump

by **Keim Steam Pumps**
For 1 ½" Scale Steam Locomotives



- Proportioned model of a 9 ½" Westinghouse air compressor.
- Overall height 6 ¼" : Maximum body diameter 1.73"
- ¼-40 MTP male pipe threads on all connections.
- Working pressure range: 50-120 psi.
- Displaces 1.59 pints per minute at 120 strokes per minute.
- Steam bore 1 ⅛": Water bore ⅝": Stroke 1¼"
- Lubrication: 600W steam cylinder oil or equivalent.
- One piece shuttle valve design.
- Universal mounting bracket
- Left or Right Side Admission available.

**Right Side Admission Style Shown
(Fireman Side Mount)**

The Westinghouse 9 ½" air compressor was the first widely used steam driven appliance applied to steam locomotives after the introduction of Westinghouse's air brake system in 1869. After the development of the cross compound air compressor, the single cylinder air compressor was retained on many locomotives, especially those delegated to branch line passenger and freight service. The model pump developed today is a proportioned representation of the 9 ½" air compressor. This model was designed as a water pump to satisfy the need for a reliable alternative feedwater supplying device. This pump should not be used as the only source for forcing water into your boiler, but as a supplement to existing methods. This model provides the visual appearance and the rhythmic auditory sensation of a working prototype compressor.

A displacement lubricator is not supplied but is required when plumbing this pump up to a steam line. Operation can be made using compressed air, however, an inline lubrication system is recommended.

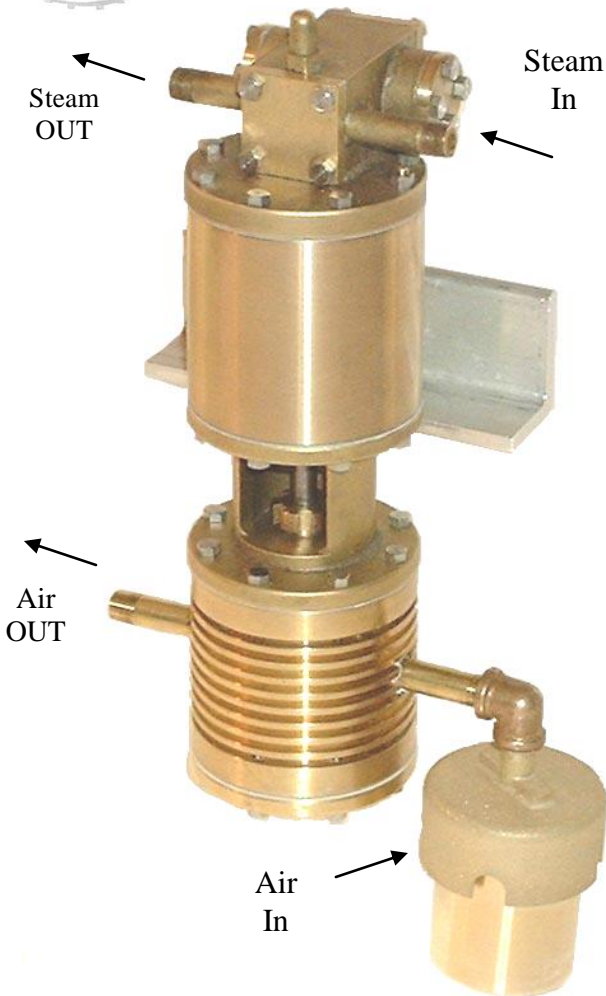
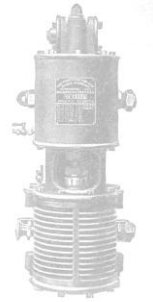
A cold pump should not be started on low steam pressure since this will flood the steam chambers and passageways with water. Instead, a cold pump should be started at higher pressure 75-120 PSI. This model pump has been designed to be resistant to "condensate lockup". Allow up to 60 seconds for a cold pump to start. Normal response time for a pump to begin cycling is 5 to 15 seconds.

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Single Cylinder Steam Air Compressor

by **Keim Steam Pumps**
For 1 1/2" Scale Steam Locomotives



- Proportioned model of a 9 1/2" Westinghouse air compressor.
- Overall height 6 1/4" : Maximum body diameter 1.73"
- 1/4-40 MTP male pipe threads on all connections.
- Working pressure range: 50-120 psi.
- Displaces 4 SCFH at 60 psi and 3 SCFH at 90 psi at 120 strokes per minute.
- Steam bore 1 1/8": Air bore 1.0": Stroke 1 1/4"
- Lubrication: 600W steam cylinder oil or equivalent.
- One piece shuttle valve design.
- Universal mounting bracket
- Scale type "L" Suction filter provided
- Left or Right Side Admission available.

**Right Side Admission Style shown
(Fireman side Mount)**

The Westinghouse 9 1/2" air compressor was the first widely used steam driven appliance applied to steam locomotives after the introduction of Westinghouse's air brake system in 1869. After the development of the cross compound air compressor, the single cylinder air compressor was retained on many locomotives, especially those delegated to branch line passenger and freight service. The model pump developed today is a proportioned representation of the 9 1/2" air compressor. This model was designed as a fully functioning air compressor to satisfy the need for a reliable alternative air pressure generating device. This model provides the visual appearance and the rhythmic auditory sensation of a working prototype compressor.

A displacement lubricator is not supplied but is required when plumbing this pump up to a steam line. Operation can be made using compressed air, however, an inline lubrication system is recommended.

Lubrication of the air compressor cylinder can be accomplished by simply unscrewing the pipe plug from the Tee elbow provided. Disassembly of the suction filter is not necessary or required. Use a quality air tool lubricant at the beginning of operation. **Use caution when handling pump immediately after it has operated since it will have become very hot to the touch.**

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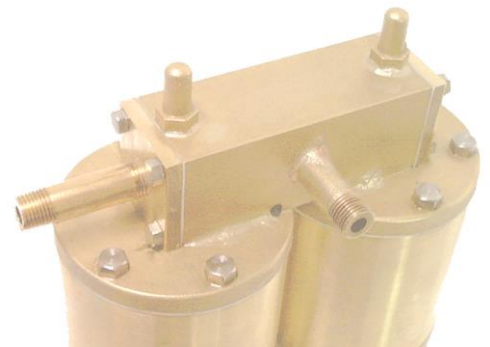
Two Cylinder Steam Water Pump

by **Keim Steam Pumps**

For 1 1/2" Scale Steam Locomotives



- Overall height 6": Body width 3.5": Depth 1.75".
- 1/4-40 MTP male pipe threads on steam inlet / exhaust.
- 5/16-27 MTP female pipe threads on water cylinder connections.
- Dual water inlet / outlets for either Fireman or Engineer side mount.
- Steam inlet head can be moved to left or right valve chest.
- Working pressure range: 60-120 psi.
- Displaces 2.75 pints per minute at 120 strokes per minute.
- Lubrication: 600W steam cylinder oil.
- (2) 10-32 tapped holes on 1.72" centers are provided on the backside of water cylinder for mounting.



The 2-cylinder water pump featured here is designed to be used as a supplemental feed water device for your locomotive boiler. This model can be used to approximate the appearance of an Elesco feed water pump or New York air compressor. This model features the highest flow output for its body size. There are no unsightly or out of place exterior valve chests. There are no external valve linkages to set the timing on. This is truly a simple to use and maintain water pump.

A displacement lubricator is not supplied but is required when plumbing this pump up to a steam line. Operation can be made using compressed air, however, an inline lubrication system is recommended. Allow up to 60 seconds for a cold pump to start. Normal response time for a pump to begin cycling is 5 to 15 seconds.

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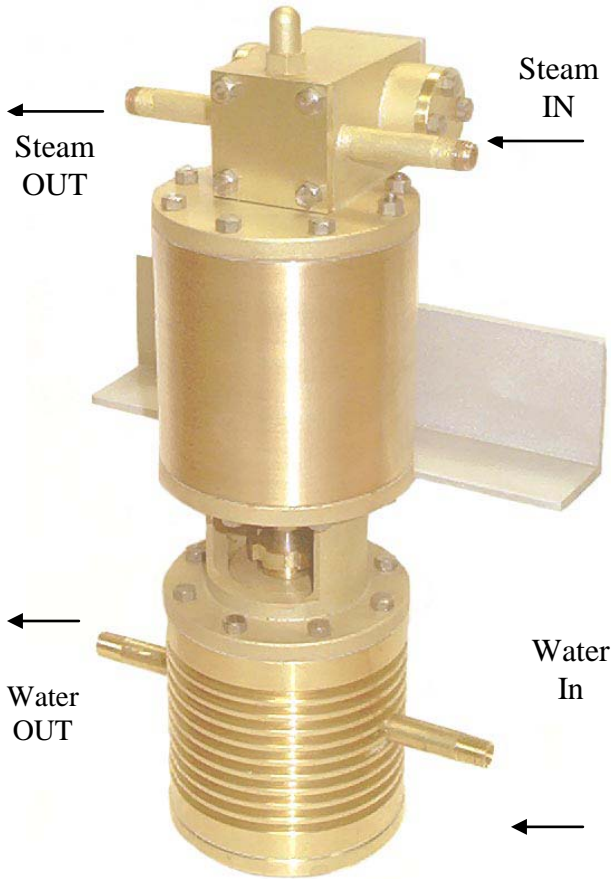
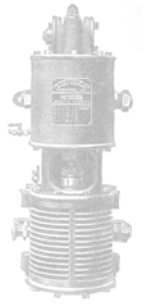
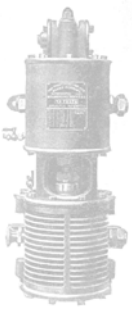
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Single Cylinder Steam Water Pump

by **Keim Steam Pumps**

For 2 1/2" Scale Steam Locomotives



- Proportioned model of a 9 1/2" Westinghouse air compressor.
- Overall height 9 1/2": Maximum body diameter 2 5/8".
- 5/16-27 MTP (1/16-27 NPT) male pipe threads on all connections.
- Working pressure range: 50-120 psi.
- Displaces 4.1 quarts per minute at 120 strokes per minute.
- Steam bore 1 7/8": Water bore 1 1/8": Stroke 1 13/16".
- Lubrication: 600W steam cylinder oil or equivalent.
- One piece shuttle valve design.
- Universal mounting bracket.
- Left or Right Side Admission available.

**Right Side Admission Style Shown
(Fireman Side Mount)**

The Westinghouse 9 1/2" air compressor was the first widely used steam driven appliance applied to steam locomotives after the introduction of Westinghouse's air brake system in 1869. After the development of the cross compound air compressor, the single cylinder air compressor was retained on many locomotives, especially those delegated to branch line passenger and freight service. The model pump developed today is a proportioned representation of the 9 1/2" air compressor. This model was designed as a water pump to satisfy the need for a reliable alternative feedwater supplying device. This pump should not be used as the only source for forcing water into your boiler, but as a supplement to existing methods. This model provides the visual appearance and the rhythmic auditory sensation of a working prototype compressor.

A displacement lubricator is not supplied but is required when plumbing this pump up to a steam line. Operation can be made using compressed air, however, an inline lubrication system is recommended.

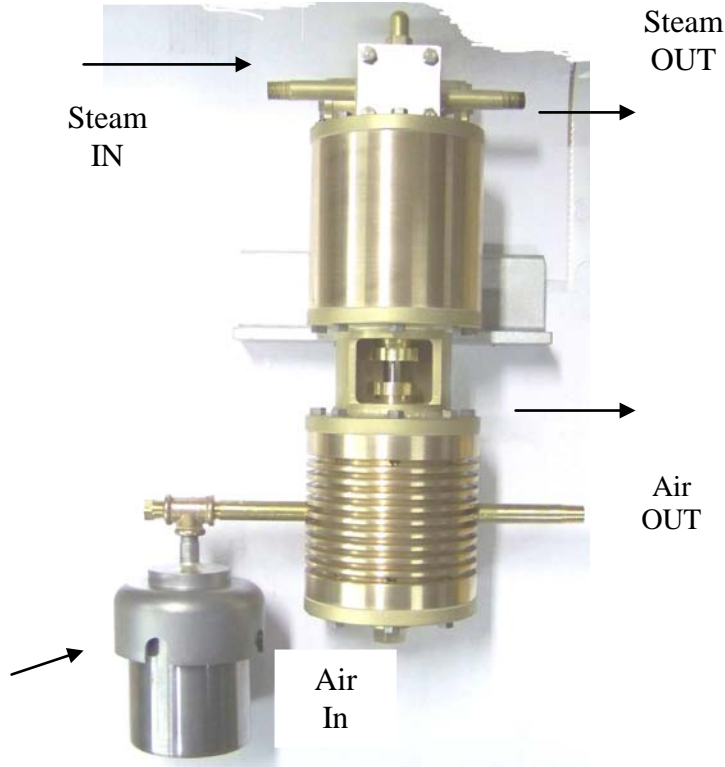
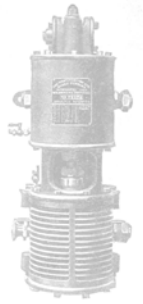
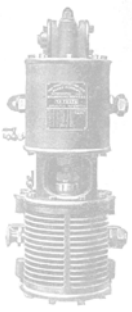
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Single Cylinder Steam Air Compressor

by Keim Steam Pumps

For 2 1/2" Scale Steam Locomotives



Left Side Admission
Style Shown
(Engineer Side Mount)

- Proportioned model of a 9 1/2" Westinghouse air compressor.
- Overall height 9 1/2": Maximum body diameter 2 5/8".
- 5/16-27 MTP (1/16-27 NPT) male pipe threads on all connections.
- Working pressure range: 50-120 psi.
- Displaces 17 SCFH at 55 psi and 8.5 SCFH at 90 psi at 120 strokes per minute.
- Steam bore 1 7/8": Air bore 1 5/8": Stroke 1 13/16".
- Lubrication: 600W steam cylinder oil or equivalent.
- One piece shuttle valve design.
- Universal mounting bracket
- Left or Right side admission available

The Westinghouse 9 1/2" air compressor was the first widely used steam driven appliance applied to steam locomotives after the introduction of Westinghouse's air brake system in 1869. After the development of the cross compound air compressor, the single cylinder air compressor was retained on many locomotives, especially those delegated to branch line passenger and freight service. The model pump developed today is a proportioned representation of the 9 1/2" air compressor. This model was designed as a fully functioning air compressor to satisfy the need for a reliable alternative air pressure generating device. This model provides the visual appearance and the rhythmic auditory sensation of a working prototype compressor.

A displacement lubricator is not supplied but is required when plumbing this pump up to a steam line. Operation can be made using compressed air, however, an inline lubrication system is recommended.

Lubrication of the air compressor cylinder can be accomplished by simply unscrewing the plug at the 'Tee' fitting provided. Disassembly of the suction filter is not necessary or required. Use a quality air tool lubricant at the beginning of operation. **Use caution when handling pump immediately after it has operated since it will have become very hot to the touch.**

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