The double pump setup is mounted on a heavy skid with a separate regulating valve for each pump. The pump setup comes with an isolation valve and maintenance activities can be carried out without shutting down the system.

Nortek Belair Pumping stations are equipped with your choice of NEMA enclosures. Optional control and monitoring indicators can be added along with state of the art controllers.

These modulating thermal valves are designed to bypass around coolers during startup and then provide accurate temperature control for cooling systems during normal operation. They do not require any outside control to operate.

Nortek Belair closed coupled and base mounted centrifugal pumps provide economical performance for a wide range of applications covering flow rates and head pressures. (Flow rates up to 500 GPM and head pressure up to 140 feet).

Nortek Belair Industrial Water Saver

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**Water Saver Dimensional Data**

**Single Fan Wide**

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**Double Fan Wide**

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NORTEK BELAIR CORPORATION
Air & Fluid Technologies

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Optional state of the art controllers are used for optimizing the performance of the pumping stations. The PLC’s (Programmable Logic Controllers) are designed with ease-of-use in mind. Their modular and versatile features make it suitable for your applications – including local and remote display. Optional PC connections are also available.

Optional PC connections are also available.

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Nortek Belair Industrial Water Saver & Pumping Stations

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State-of-the-art Controller

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Choice of NEMA Enclosures

---

Centrifugal Pumps

---

3-way Thermostatic Valve

---

High Efficiency Trim Cooler
Nortek Belair Industrial Water Saver

Why Saver? The new Water Saver from Nortek Belair is your most efficient combatant against the rising energy costs. This closed-loop cooling system is self contained and is designed to remove heat from water cooled machinery. It can very efficiently cool the fluid to temperatures slightly above the ambient.

Advantages

- Cuts and easy installation and commissioning
- Designed and manufactured to your application
- Requires little or no maintenance
- Corroosion tolerances enhances process efficiency
- Saves no more city water/sewer recurring costs

Operating Principle

Typical process cooling fluid (water with varying properties of ghost) is circulated through the closed loop system by using pumps. Ambient air is suctioned from the bottom of the Water Saver. This results in a steady flow of air around the tubes carrying the water. With the use of thermally activated valve (optional) and an additional trim-cooler, temperatures very close to above the ambient.

Optional Features:

- Special Coated Fire (Copper, Polymer, Phenolic-coated Coils)
- TEC Fan Motors
- Easy Access Exit Clearing Panels
- Fan Cooling System
- NIMRA 4 Controls

Water Saver Specifications

- Nortek Belair Industrial Saver saves $$ - no more city water/sewer recurring costs
- Consistent temperatures enhances process efficiency
- Quick and easy installation and commissioning
- Built-in overload protection. All motors are factory wired and attractive appearance.
- Balanced and factory tested before shipping to ensure quiet operation.
- The aluminum fans with painted steel hubs are dynamically balanced and factory tested before shipping to ensure quiet operation.
- All coils are factory pressure and leak tested at 400 PSI.
- Headers come equipped with vents and drains.

Standard Features:

- Vertical/Horizontal Air Ducting Configuration
- Submersible GSE and Framing and Cooling
- Durable Aluminum Casting
- Beamless Fin Mechanically Expanded into Copper Tubes
- 4 poles. 230/460 Single/Three Phase, ODP Fan Motors
- Fully Balanced Fan Sections
- NEMA 3T Submersible for Outdoor Installation
- Fan Water Starter
- Integrated Fan-Water Fusing
- Open Closely Graded Compressor (Optional)
- Pre-fabricated, Factory Assembled and Tested
- All Nortek Belair Water Savers are designed for vertical airflow. Horizontal airflow is available at an option.
- All units are UL & CUL and MAC - listed.
- All units are assembled from mini-singleorgen and multi-organ components.
- All Nortek Belair Water Savers are designed for full load ability. Optional for partial load application. Models for forward curve operation are available upon request.
- With the use of theromally activated valve (optional) and an additional trim-cooler, temperatures very close to above the ambient. This results in a steady flow of air around the tubes carrying the water.

Pumping Station Specifications

- Nortek Belair Industrial Saver provides accurate flow of either a Single PSD (PSD series) or a Double (PSD series) pumping system. The typical pumping station package includes the pump, the fail-safe design ensures the pumping station will operate at the minimum level of efficiency. With its monitoring capabilities, it can even operate the normal running time of the pump. This makes it convenient to schedule maintenance activities.

How to size the Water Saver

1. Capacity in MBH = Compressor HP x BTUH/HP x Motor Service Factor
2. Motor Service Factor = 1.15
3. BTUH/HP = 2420
4. Example: Capacity in MBH = 100-PSS/PSD
   - Compressor HP: 750-PSS/PSD
   - BTUH/HP: 2420
   - Motor Service Factor = 1.15
   - Result: Capacity in MBH = 100-PSS/PSD

Example: What size Water Saver is suitable for the following conditions?

- Compressor HP: 300
- BTUH/HP: 2560
- Motor Service Factor = 1.15
- Gigahertz (GB) x 20% = 300 x 0.2 = 60

Pump Station

- Compressor HP x BTUH/HP x Motor Service Factor
- Nortek Belair Industrial Water Saver

- All units made in USA
- Nortek Belair Industrial Water Saver

- How to size the Water Saver

- Water Saver Specifications

- Pumping Station Specifications

- How to size the Water Saver

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- How to size the Water Saver

- Water Saver Specifications
### Nortek Belair Industrial Water Saver

**Why Water Saver?**

The new Water Saver from Nortek Belair is your most efficient contender against the rising energy costs. This closed loop cooling system is self-contained and is designed to remove heat from water-cooled systems. It can very efficiently cool the load to temperatures slightly above the ambient.

**Advantages**

- **Quick and easy installation and commissioning**
- **Designed and manufactured to fit your application**
- **Requires little or no maintenance**
- **Corrosion resistance enhances process efficiency**
- **Saves no more city water/mover recycling costs**

### Operating Principle

Typical process cooling fluid (water with varying proportions of glycol) is circulated through the closed loop system by using pumps. Ambient air is sucked from the bottom of the Water Saver. This results in a steady flow of air across the tubes carrying the fluid. With the use of thermally activated valves (optional) and an additional intake/exhaust, temperature very close to ambient and below can be achieved.

### Water Saver Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>INLET PERFORMANCE</th>
<th>MAXIMUM PERFORMANCE</th>
<th>Capacity</th>
<th>Heat Load</th>
<th>Condenser</th>
<th>Fan Motor</th>
<th>Starter</th>
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<tr>
<td>120-WSD</td>
<td>180 20 20 262</td>
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</table>

**Example:**

Which Water Saver is suitable for the following conditions?

- **Compression HP = 200**

**BRH** 2020

- **Max Cooling Factor = 1.15**
- **Glycol content > 30%**

### How to size the Water Saver

- **Capacity**
  - **Compressor HP**
  - **BRH**
  - **MBH**

- **Referring to the specification table, Model No. 500-WSS is selected.**

### Standard Features

- **Vertical/Horizontal Air Discharge Configuration**
- **Stainless Steel Frames and Covering**
- **Durable Aluminum Casing**
- **Aluminum Fans Mechanically Expanded into Copper Tubes**
  - 4 pipes: 203/305 Single/Triple Phase, GP/2 Motors
- **Fully Built-in Fan Sections**
- **NEMA 3R Suitable for Outdoor Installation**
- **Fan Water Starter**
- **Fan Temperature Monitoring**
- **Closed Cooled Condenser Pump (Optional)**
- **Pre-fabricated, Factory-Assembled and Tested**
- **Nortek Belair Water Saver are designed for vertical airflows. Horizontal airflow is available on request.**
- **All units are UL and CUL and MBA - Listed.**
- **All units are shipped with a set of copper single, double and triple size coils. The coils are designed for both high and low water flow and are made of copper to reduce contamination.**

### Optional Features:

- **Special Coated Fin (Copper, Polymer, Phenolic-coated Coils)**
- **TEFC Fan Motors**
- **Easy Access Coil Cleaning Panels**
- **Fan Control System**
- **NEMA 4X Controls**

### Advantages

- **Temperature Controlled Fan Speed**
- **Built-in overload protection. All motors are factory wired and tested.**
- **Fan guards are designed from heavy-gauge, close-meshed steel wire with vinyl coating for maximum rigidity, long life and attractive appearance.**
- **The aluminum fans with painted steel hubs are dynamically balanced and factory tested before shipping to ensure quiet operation.**
- **Headers come equipped with vents and drains.**
- **Easy Access Coil Cleaning Panels**
- **NEMA 4X Suitable for Outdoor Installation**

### Pumping Station Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PUMP HP</th>
<th>PHASE</th>
<th>VOLTAGE</th>
<th>DIMENSIONS</th>
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<td>230/460</td>
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<td>230/460</td>
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<td>6</td>
<td>3</td>
<td>230/460</td>
<td>250x90x90</td>
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</table>

**Example:**

Example: 200-WSD/PSD = 300/PSD

- **Capacity**
  - **MBH**
  - **300**
  - **MBH**

- **Referring to the specification table, Model No. 500-WSS is selected.**

### Autofilmulator

The universal pump controller incorporates the latest in electronic technology in a compact and user-friendly enclosure. The controller is independent of the pump. The fail-safe design ensures that the pumping station will operate at the maximum level of efficiency. With its monitoring capabilities, it enables easy running time of the pump. This makes it convenient to schedule maintenance activities.
Operating Principle
Typical process cooling fluid (water with varying properties of glycol) is circulated through the closed loop system by using pumps. Ambient air is sucked from the bottom of the Water Saver. This results in a steady flow of air around the tubes carrying the cooling fluid. With the use of thermally activated valve (optional) and an additional trim-cooler, temperatures very close to ambient are achieved.

FAN DATA

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Capacity in MBH  = 0.85 x GPM

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PUMP HP</th>
<th>FAN MOTOR</th>
<th>INLET</th>
<th>VOLTAGE</th>
<th>DIMENSIONS IN INCHES</th>
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<td>90-PSD</td>
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<td>208</td>
<td>230/460-3-60</td>
<td>60X36X48</td>
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Nortek Belair Industrial Water Saver

Heated Desiccant Dryers
Specifications subject to change without notice     06/09

Nortek Belair Industrial Water Saver

[Industrial Water Saver & Pumping Stations]

High Capacity Dryers
Heatless Desiccant Dryers

Northeast
20 Shea Way, Suite 204
Newark DE 19713
Tel: 302-894-1191
Fax: 302-894-1193

West
15558 E. Hinsdale Cir., Suite B
Centennial CO 80012
Tel: 303-287-6666
Fax: 720-554-7758

Southeast
1713 Henry G. Lane
Maryville TN 37801
Tel: 865-980-6100
Fax: 865-980-6190

NORTEK BELAIR CORPORATION
Air & Fluid Technologies
www.nortekbelair.com
www.belairtech.net

Nortek Belair closed coupled and base mounted centrifugal pumps provide economical performance for a wide range of applications of varying flow rates and head pressures. (Flow rates up to 550 GPM and head pressure up to 140 feet).

The double pump setup is mounted on a heavy skid with a separate regulating valve for each pump. The pump setup come with an isolation valve and maintenance activities can be carried out without shutting down the system.

The trim coolers are mounted in-line with counter flow and are typically shell and tube or plate type. It monitors the outlet temperature and with its optional auto-regulating feature and ensures consistent inlet temperature to the heat source. Additionally it has bleed and drain valves for maintenance purposes.

The double pump setup is mounted on a heavy skid with a separate regulating valve for each pump. The pump setup come with an isolation valve and maintenance activities can be carried out without shutting down the system.

Optional state of the art controllers are used for optimizing the performance of the pumping stations. The PLC’s (Programmable Logic Controllers) are designed with ease-of-use in mind. Their modular and versatile features make it suitable for any applications – including local and remote display. Optional PC connections are also available.

Nortek Belair Pumping stations are equipped with your choice of NEMA enclosures. Optional control and monitoring Indicators can be added along with state of the art controllers.

These modulating thermal valves are designed to bypass around coolers during startup and then provide accurate temperature control for cooling systems during normal operation. They do not require any outside control to operate.

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Nortek Belair Industrial Water Saver

Water Saver Dimensional Data

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INDUSTRIAL WATER SAVER & PUMPING STATIONS

High Efficiency Trim Cooler

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