Application and Product Guide
WATERBORNE CONVERSION SPECIALISTS

“We don’t make paint, we make paint better”

We Have Your Solution!

- Compressors
- Dryers
- Filtration Systems
- Hoses
- Automatic Drains
- and more

Tsunami Compressed Air Solutions™ is a division of

MADE IN THE USA
<table>
<thead>
<tr>
<th>DIRECTORY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed Air Facts</td>
<td>Page 3</td>
</tr>
<tr>
<td>Tsunami Regenerative Dryers (Wall Mount) - 10Hp to 30Hp solutions</td>
<td>Page 4-5</td>
</tr>
<tr>
<td>Tsunami Ultra Drying Systems (Tank Mount) - 15Hp to 30Hp solutions</td>
<td>Page 6</td>
</tr>
<tr>
<td>Tsunami Regenerative Dryer (A-Frame Mount) - 50Hp Stand Alone Unit</td>
<td>Page 6</td>
</tr>
<tr>
<td>Single Tower Regenerative Dryer / Membrane Drying System</td>
<td>Page 7</td>
</tr>
<tr>
<td>Spray Booth Filtration and Specialty Filtration Packages</td>
<td>Page 8</td>
</tr>
<tr>
<td>Tsunami Filtration - How it Works / Technical Description</td>
<td>Page 9</td>
</tr>
<tr>
<td>Ultra-flo Spray Hose / Test Kits / Portable Regenerative Dryer</td>
<td>Page 10</td>
</tr>
<tr>
<td>Air Tool Protection / Individual Filters / Lift and Rack Utility Station</td>
<td>Page 11</td>
</tr>
<tr>
<td>Accessories / Replacement Elements / Special Regulator Kit for Air Amplifier Stands</td>
<td>Page 12</td>
</tr>
<tr>
<td>Breathing Air Systems and Accessories</td>
<td>Page 13</td>
</tr>
<tr>
<td>Rotary Vane Compressors - Mattei® Compressor-Dryer Systems</td>
<td>Page 14-15</td>
</tr>
<tr>
<td>Piston Compressors - Deluxe Compressor-Dryer Systems</td>
<td>Pages 16-19</td>
</tr>
<tr>
<td>Shop Analysis Questionnaire</td>
<td>Pages 20</td>
</tr>
</tbody>
</table>

For inquiries or to find a distributor near you call 800-782-5752

www.tsunami.us.com

Tsunami Compressed Air Solutions™ is a division of Suburban Manufacturing, Inc.
Compressed Air Facts

THE #1 RULE OF COMPRESSED AIR

For every 20 degrees that compressed air is cooled, the air loses 50% of its ability to hold moisture (humidity) in vapor form and is dropped out as a liquid.

Air Drying and Air Filtration…. There is a Difference!

**Air Drying** - The removal of water vapor (humidity) from compressed air which is typically accomplished in one of three ways:

- Desiccant (molecular sieve, activated alumina, silica gel)
- Membrane
- Refrigeration

**When to use compressed air dryers**

- Air dryers should be used when you want to remove or reduce the humidity levels in your compressed air system to meet the manufacturers' requirements for their paint systems.

**Air Filtration** - The removal of particulates, water, oil droplets, and oil aerosols.

This is most effective when done in stages:

- Water separator - removes bulk water, oil, and large particulates (down to 10 micron)
- Coalescing filter - removes oil, small aerosols and fine particulates (down to .01 micron)
- Activated carbon filter - removes oil vapors; eliminates odors and taste (down to .003ppm)

**Where to place compressed air filtration**

- The further away from the compressor, the more effective your filtration will work.
- Inside or near the spray booth, directly connected to your spray hose (IMPORTANT)
- In front of all air dryers as pre-filters.
- Water separators should be placed at all air tool drops with regulators.

**Important Things to Know**

- Properly controlling air pressure throughout your shop can help save 10-15% of your compressed air energy costs.
- Repairing an audible air leak can save you $50 or more per year in energy used to drive your compressor.
- When sizing a compressor, you can figure 2 to 2.5Hp per person, depending on the pressure setting of the compressor.
- Proper control of air volume (CFM) will make all your air drying and filtration technology perform at their rated capacity. Most pieces of equipment have a manufacturer’s specification of volume consumption along with the recommended operating pressure.
- Improper use of volume can cause an “over-flowing” of the rated capacity of your equipment which causes a carry over of moisture and contaminates.

- New, OSHA approved blow off guns can consume up to 35CFM, the equivalent of a 10Hp compressor. (example shown)
- Many color changing indicators used with desiccant systems do not begin to change color before 20%RH. (example shown)
- The higher the air pressure supply to air amplifier stands used with waterborne paint increases the amount of air volume they consume. See page 13. (example shown)
The Tsunami Regenerative Dryer System uses the latest technology to provide your facility with the cleanest, driest compressed air available. Our systems, unlike some of our competitors, are complete systems. This includes the Tsunami water separators and Tsunami oil coalescing filters. We use Moisture Minder® automatic piston drains to assure proper draining of water and oils before the dryer.

We can configure systems to provide very low dew points (down to -80° F) or very low relative humidity (down to .01%) with very low sweep rates. Flow rate and sweep rate determine the quality of your compressed air.

- This technology functions by passing wet, dirty compressed air through the Tsunami water separator which removes bulk water and oil down to 10 microns, then the air passes through the Tsunami oil coalescing filter which further removes oil and particulates down to .01 micron.
- This pretreated air enters the dryer and passes through one or more desiccant canisters.
- These canisters are filled with a molecular sieve bed which is under tight compression, so there is virtually no movement or banging together of the beads to cause material break down. Our desiccant media is also encapsulated in a 10 micron filter bag which eliminates the possibility of desiccant carryover downstream.
- As the wet air passes through the towers, the molecular sieve draws the water vapor in while under pressure. At the same time, one or more towers are depressurized. These towers discharge water vapor through the mufflers below those towers with the use of sweep air.
- The PLC controller sends out a pilot signal for an internal spool to shift, which switches the flow of air through the towers. 
- This switching of tower operation now allows wet, incoming air to flow through a new or previously dried tower. We take a little air from the dry, outlet flow and direct this air backward through the wet towers via a very small orifice in the regeneration valve. (This is referred to as sweep air or the regeneration process). This dry flow of air through the wet beads will dry them out so they are ready for a new cycle. It’s like changing your desiccant every few minutes. Our system assures a continuous flow of clean, dry compressed air for your needs.

### The Drying Process
- **Wet Incoming Air** — supply air from compressor or from the compressor system
- **Dry Outgoing Air** — air that has had the water vapor removed

### The Regeneration Process
- **Dry Outgoing Air** — small amount of dry air used to “sweep” or regenerate the towers
- **Wet Discharge Air** — water vapor which was removed during the drying cycle
All Dryer Systems include:

- Large Tsunami water separator and oil coalescing filter for pre-filtering the air
- Moisture Minder® automatic piston drains for draining pre-filters
- Wall mounting bracket
- Fittings to connect pre-filters to dryer
- Drain Tubing
- Global units sent outside North America have special power adaptors

**REMINDER**

Add Your Booth Filtration Package, Spray Hose and Compressor Drain Kit
**Components must be ordered separately from drying systems**

Good Filtration
P/N 21999-0494
50 CFM Tsunami Filter Package #7
With oil coalescing filter and regulator

Better Filtration
P/N 21999-0253
50 CFM Tsunami Filter Package #4
With water separator, oil coalescing filter and regulator

Our BEST Filtration
P/N 21999-0257
50 CFM Tsunami Filter Package #6
With water separator, oil coalescing filter, activated carbon filter and regulator

P/N 21999-0449
35' Tsunami Ultra-flo Spray Hose

P/N 21999-0450
50' Tsunami Ultra-flo Spray Hose

P/N 21999-0177
Moisture Minder Electronic Drain Valve

P/N 21999-0316
EDV Basic Installation Kit
Tsunami Ultra Drying Systems
15Hp to 30Hp compressor solutions

Includes:
- 3-year warranty
- Built-in bypass circuit
- 80 Gallon storage tank for the ultra dry air
- Large Tsunami Water Separator and Oil Coalescing Filter to pre-filter the incoming air
- Moisture Minder automatic piston drains for pre-filters
- Outlet regulator allows for air conservation
- Pre-assembled for easy installation
- Global units sent outside North America have special power adaptors

P/N 21999-0815 15 Hp Tsunami Ultra Drying System
P/N 21999-0820 20 Hp Tsunami Ultra Drying System
P/N 21999-0830 30 Hp Tsunami Ultra Drying System

Tsunami Regenerative Dryer
50Hp Stand Alone Unit

- 3-year warranty
- Waterborne Ready!
- Our largest in stock drying system
- Ideal for large dealerships or auto body facilities
- Large Tsunami water separators and oil coalescing filters to pre-filter the incoming air
- Moisture Minder automatic piston drains for pre-filters
- Pre-assembled for easy installation
- Global units sent outside North America have special power adaptors

P/N 21999-0750
Height - 71” Width - 51” Depth - 27.5”
Inlet - 1” NPT  Outlet - 1” NPT

**REMINDER**
Add Your Booth Filtration Package, Spray Hose and Compressor Drain Kit
**Components must be ordered separately from drying systems**

Good Filtration
P/N 21999-0494 50 CFM Tsunami Filter Package #7
With oil coalescing filter and regulator

Better Filtration
P/N 21999-0253 50 CFM Tsunami Filter Package #4
With water separator, oil coalescing filter and regulator

Our BEST Filtration
P/N 21999-0257 50 CFM Tsunami Filter Package #6
With water separator, oil coalescing filter, activated carbon filter and regulator

P/N 21999-0449 35’ Tsunami Ultra-flo Spray Hose
P/N 21999-0450 50’ Tsunami Ultra-flo Spray Hose

P/N 21999-0177 Moisture Minder Electronic Drain Valve
P/N 21999-0316 EDV Basic Installation Kit
**Low Maintenance**
- Only second-stage oil coalescing element needs replacing
- No refrigerant to maintain
- No desiccants to replace
- No desiccant dust downstream

**Easy to Install**
- No electrical connection
- Mount outside paint booth
- Comes pre-assembled

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**Membrane Drying System**

- First-stage Tsunami Water Separator with Automatic Float Drain
- Second-stage Tsunami Oil Coalescing Filter with Automatic Float Drain
- Membrane Dryer Unit
- High Flow Piston Regulator

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>P/N 21999-0357</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPECIFICATIONS</strong></td>
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<tr>
<td>20 CFM max inlet flow w/ 16.7 CFM max outlet flow</td>
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<tr>
<td>3.3 CFM sweep air @ 100 PSI</td>
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<tr>
<td>175 psi maximum inlet pressure</td>
</tr>
<tr>
<td>60 psi maximum outlet pressure</td>
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<tr>
<td>100° F maximum inlet air temperature</td>
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<td>½” NPT ports</td>
</tr>
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</table>

**DEW POINT @ SPRAY GUN PRESSURE SETTING**

<table>
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<tr>
<th>INLET PRESSURE</th>
<th>INLET TEMPERATURE</th>
<th>PRESSURE DEW POINT</th>
<th>30 PSI</th>
<th>40 PSI</th>
<th>50 PSI</th>
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</thead>
<tbody>
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<td>175</td>
<td>80°</td>
<td>17° (9)</td>
<td>-10° (2)</td>
<td>-7° (2)</td>
<td>-5° (3)</td>
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<tr>
<td>150</td>
<td>80°</td>
<td>22° (11)</td>
<td>-3° (3)</td>
<td>-1° (4)</td>
<td>3° (4)</td>
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<tr>
<td>100</td>
<td>80°</td>
<td>40° (24)</td>
<td>19° (9)</td>
<td>23° (11)</td>
<td>27° (14)</td>
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**REMINDER**

Always replace your hose when installing new spray booth filtration
Spray Booth Filtration and Specialty Filtration Packages

50CFM Spray Booth Filtration Packages

** Our most commonly used filter package **
Designed for all spray applications

** Our best filtration package providing the cleanest, highest quality compressed air **

P/N: 21999-0253
Package # 4 - 50 CFM
- Standard spray package with water separator, oil coalescing filter and regulator
1/2" NPT inlet and outlet
Height - 17"  Width - 13"  Depth - 5"

P/N: 21999-0257
Package # 6 - 50 CFM
- Standard spray package with water separator, oil coalescing filter, and activated carbon with built-in regulator
- Absorbs oil vapors from air systems
- OSHA Grade “D” Air
1/2" NPT inlet and outlet
Height - 17"  Width - 13"  Depth - 5"

P/N: 21999-0251
Package # 3 - 50 CFM
- Standard spray package with water separator and oil coalescing filter
1/2" NPT inlet and outlet
Height - 15"  Width - 6"  Depth - 5.5"

P/N: 21999-0494
Package # 7 - 50 CFM
- Single spray package with oil coalescing filter and regulator
- Specifically designed for use with drying systems located near the booth
1/2" NPT inlet and outlet
Height - 17"  Width - 6"  Depth - 6.5"

20CFM Specialty Spray Packages

These filter systems should only be used for light use applications such as air brushing. For normal to heavy use conditions, use our 50 CFM Filter packages.

P/N: 21999-0677
Package # 4 - 20 SCFM
- Special spray package with water separator, oil coalescing filter and regulator
1/4" NPT inlet and outlet
Height - 11"  Width - 7"  Depth - 3 ½"

P/N: 21999-0678
Package # 6 - 20 SCFM
- Special spray package with water separator, oil coalescing filter, activated carbon filter, and regulator
- Absorbs oil vapors from air systems
- OSHA Grade “D” Air
1/4" NPT inlet and outlet
Height - 8 ½"  Width - 9 ½"  Depth - 2 ½"

**REMINDER**
Always replace your hose when installing new spray booth filtration

Tsunami Ultra-flo Spray Hose
P/N 21999-0496  15’
P/N 21999-0449  35’
P/N 21999-0450  50’
The Tsunami Water Separator
Product Description and Parts Breakdown

The Tsunami Water Separator is a high quality filtration product which can be used to remove liquids and dirt particulates from compressed air systems with a capacity of up to 240 SCFM (Standard Cubic Feet per Minute).

This technology accomplishes its goal by taking the inlet air through the inner tube and reverses direction when it hits the baffle plate (refer to cutaway below for more details). When this happens, the air velocity is slowed in the larger area of the outer tube which allows gravity to remove the bulk liquids. The air then travels upwards through the stainless steel mesh where the remaining water molecules are coalesced into larger droplets of liquid which then drop to the bottom and are removed through the float drain.

The water separator consists of a unit head, outer tube, inner tube, baffle plate, coalescing stainless steel mesh and a bottom cap with float drain.

Head:
- The head is machined from 6061 aircraft aluminum and is anodized for corrosion resistance. In addition, the head is powder coated for maximum corrosion protection.
- Head Dimensions and port sizes
  - 20 Series has a 2” square head with ¼” NPT inlet and outlet ports
  - 50 Series has a 2½” square head with ½” NPT inlet and outlet ports
  - 120 Series has a 3½” square head with 1” NPT inlet and outlet ports

Stainless Steel Mesh:
- The stainless steel mesh is a non-corroding material that retards rusting and breakdown of the weave.

Outer Tube and Inner Tube:
- The inner and outer tubes are machined from 6061 aircraft aluminum which provides exceptional durability for the most rugged applications. The tubes are anodized both inside and out to prevent corrosion from air system contaminants.

Float Drain:
- The float drain is a critical component to this unit as its sole responsibility is to remove the liquids and contaminants.
- Electronic Solenoid Drain Valve (optional) - Recommended for air systems with dirty, rusty, or oily conditions

The Tsunami Oil Coalescing Filter

How It Works
Once the aerosol is captured by a fiber, it coalesces with other captured aerosols to form a bulk liquid which is forced by the air flow to the outer surface of the filter media. A non-wicking drain layer attached to the outer surface of the filter media separates the oil and water liquid from the air flow and drains the liquid via gravity to the sump of the filter housing preventing entrainment.

Construction
Tsunami coalescing media is made of 100% borosilicate glass micro fibers bonded together with a resin binder. In the standard configuration, chemical-resistant polypropylene cores and layers intimately support the coalescing media. A non-wicking drain layer is in intimate contact with the outside of the outer support core.
Ultra-flo Spray Hose / Test Kits / Portable Regenerative Dryer - Demo Unit

Tsunami Ultra-flo Spray Hose

Features:
- Anti-static strip helps eliminate static build up
- Engineered for high temp exposure (can withstand bake cycles)
- Proprietary inner tube will not break down
- Prevents contamination to the paint like traditional rubber hose
- Advanced engineering allows hose to lay flat and slide easily without catching or coiling
- Durable, lightweight construction
- 3/8" I.D.
- Tsunami technology extends hose life
- 1/4" NPT male pipe connections

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<tr>
<th>P/N</th>
<th>Length</th>
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<tr>
<td>21999-0495</td>
<td>5'</td>
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<tr>
<td>21999-0496</td>
<td>15'</td>
</tr>
<tr>
<td>21999-0449</td>
<td>35'</td>
</tr>
<tr>
<td>21999-0450</td>
<td>50'</td>
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CHECK HUMIDITY CONTENT

The Tsunami Air Survey Kit

Features:
- Measure humidity, dew point & air temperature
- Easy to use; just plug it into any air connection
- Complete with sensor filtration
- Easy to read LCD screen

P/N: 21999-0440

CHECK CFM USAGE

The Tsunami CFM Test Kit

Features:
- Measure the CFM usage of any air drop
- Easy to use; just plug it into any air connection
- Complete with regulator and CFM flow meter
- Easy to read graph

P/N: 21999-0447

SHOW THE RESULTS

Portable Regenerative Dryer / Demo Unit

Features:
- Show the difference in compressed air humidity content
- Everything contained in one case with roller wheels
- Easy to use; just plug it into any air connection
- Complete with oil coalescing pre-filter and outlet regulator
- 50’ Tsunami Ultra-flo Spray Hose included with high flow couplers

P/N: 21999-0788

Height - 27”    Width - 21”    Depth - 14”

Weight - 68 lbs
The Tsunami Water Separator removes water, up to 1 quart per minute, and filters particulate down to 10 micron

P/N: 21999-0390
20 SCFM Water Separator

P/N: 21999-0131
50 SCFM Water Separator

P/N: 21999-0082
120 SCFM Water Separator

The Tsunami Oil Coalescing Filter removes oil aerosols down to .001 ppm and traps particulates down to .01 micron

P/N: 21999-0390-Z-FD
20 SCFM Oil Coalescing Filter

P/N: 21999-0131-Z-FD
50 SCFM Oil Coalescing Filter

P/N: 21999-0082-Z-FD
120 SCFM Oil Coalescing Filter

The Tsunami Activated Carbon Filter removes oil aerosols down to .003 ppm and absorbs oil vapors which removes odor and taste from the air.

P/N: 21999-0390-AC
20 SCFM Activated Carbon Filter

P/N: 21999-0131-AC
50 SCFM Activated Carbon Filter

P/N: 21999-0082-AC
120 SCFM Activated Carbon Filter

20CFM Air Tool Filtration Packages
The Tsunami 20 Series Filtration Packages are the perfect solution for protecting your air tools from water and dirt in any air system.

P/N: 21999-0414
Package # 8 - 20 SCFM
- Standard water separator with regulator
1/4” NPT inlet and outlet
Height - 11” Width - 4” Depth - 3 ½”

P/N: 21999-0416
Package # 1 - 20 SCFM
- Standard water separator with lubricator
1/4” NPT inlet and outlet
Height - 11” Width - 5” Depth - 2 ½”

P/N: 21999-0415
Package # 2 - 20 SCFM
- Standard water separator, regulator, and lubricator
1/4” NPT inlet and outlet
Height - 11” Width - 6” Depth - 3 ½”

P/N: 21999-0081
Industrial grade Utility Station is designed to eliminate the problems found in commercial grade boxes

- Easy to install
- Adapts to any lift or body shop work area
- Electrical outlets equipped with 20 amp industrial GFI protection
- Air service through 2 outlets: one non-lubricated for blow off or tire inflation; one lubricated for pneumatic tools
- Electrical outlets located above the air service to prevent moisture damage and tangling
- Air service filter element and lubricator filler port are easily accessible
- Powder coated finish for durability and long life
### Accessories / Replacement Elements / Special Regulator

#### Pressure Regulators - Piston Type
- **P/N: 21999-0402** ¼” NPT
- **P/N: 21999-0193** ½” NPT
- **P/N: 21999-0194** 1” NPT
- 0-180 PSI pressure range
- Excellent “set pressure” stability
- Offers higher flow rates over standard diaphragm regulators

**“GAUGES SOLD SEPARATELY”**
- **P/N: 4338228** 1/8” 0-200 PSI Pressure Gauge
  - used with 1/4” and 1/2” NPT regulators
- **P/N: G201420B** 1/4” 0-200 PSI Pressure Gauge
  - used with 1” NPT regulator

#### Electronic Drain Valve
- **P/N: 21999-0177**
  - Built-in strainer with “flush out” feature
  - Easy to install
  - Available in 110v and 230v
  - Special order 12v and 24v

#### Installation Kit for Electronic Drain Valve
- **P/N: 21999-0316**
- Fits all Tsunami filters

#### Drain Tube Kit
- **P/N: 21999-0201**
- Fits all Tsunami filters

#### Replaceable Elements
- **P/N: 21999-0202**
  - Oil Coalescing Filter Element
  - (50 CFM and 120 CFM)
  - (1½” O.D. x 7” length)

- **P/N: 21999-0200**
  - Activated Carbon Filter Element
  - (50 CFM and 120 CFM)
  - (1½” O.D. x 7” length)

- **P/N: 21999-0394**
  - Oil Coalescing Filter Element
  - (20 CFM)
  - (1½” O.D. x 3½” length)

- **P/N: 21999-0395**
  - Activated Carbon Filter Element
  - (20 CFM)
  - (1½” O.D. x 3½” length)

#### High Flow Hose Couplers
- **P/N 25KAAN13MPX**
  - ¼” NPT male
- **P/N 25KAIN13MPX**
  - ¼” NPT female

#### High Flow Hose Plugs
- **P/N 25SFAN13SXZ**
  - ¼” NPT male
- **P/N 25SFIN13SXN**
  - ¼” NPT female

#### Replacement Element for Dryer
- **P/N: 21999-0202-Z-SP**
  - Dryer Oil Coalescing Pre-Filter
  - (2” O.D. x 10” length)

#### Float Replacement
- **P/N: 9009801**
- Fits all Tsunami filters

#### Universal Mounting Bracket
- **P/N: 21999-0144**
- Fits 50 CFM and 120 CFM Tsunami filters

#### Accessory Kit
- **P/N: 21999-0200**
  - Activated Carbon Filter Element
  - (50 CFM and 120 CFM)
  - (1½” O.D. x 7” length)

#### Special Regulator Kit for Air Amplifier Stands
- **P/N 21999-0680**
- Almost every manufacturer of air amplifier (or venturi air mover) recommends an operating pressure below 60 PSI.
- Having a regulator set higher than this, or no regulator at all, consumes a lot of compressed air volume costing you $$$ at your compressor.
- This 0-60 PSI piston type pressure regulator kit helps you control the air volume consumed by your air amplifier stand by setting a maximum outlet pressure of 60 PSI.
- Includes 1/4” NPT hex nipple for easy installation to your stand.
- 1/4” NPT inlet and outlet ports.
Breathing Air Systems and Accessories

ENGINEERED TO OSHA REQUIREMENTS FOR GRADE “D” AIR
OSHA Regulations (Standard-29 CFR) Respiratory Protection– 1910.134
**Use only with electric driven compressors**

!! Follow all your state and local OSHA rules and regulations !!

P/N: 21999-0265
2 to 4 Person Breathing Air Panel
(Hoses and Hoods sold separately)

THE perfect breathing air system for multiple people.

- Digital readout
- Automatic float drains standard on filtration package
- Less faulty readings with continuous carbon monoxide monitoring
- Calibration made easy with Autocal®

P/N: 21999-0791
THE complete single user breathable air system.
This system runs a main hose from the wall filtration to the belt mounted filter. It provides an outlet for the 5ft. work hose before entering the carbon filter and the breathing air connection. Provides Grade “D” breathing air with carbon monoxide monitor.

P/N: 21999-0264
Calibration kit for GFG CO monitor

P/N: 21999-0397
SAS 50 ft. breathing air

P/N: 21999-0532
SAS Flip up visor with hose and belt

P/N: 21999-0396
SAS Hood assembly with headband and hose

P/N: 21999-0417
Peel off lens covers for hoods 10 pack

P/N: 21999-0400
SAS Replacement Hoods without headband or hose 3 pack

P/N: 21999-0681
Peel off lens covers for flip up visor 25 pack

Accessories

- Follow all your state and local OSHA rules and regulations as they may vary or change
- Breathing air panel requires a breathing air hose and breathing air hood or visor for each person
- Hoses and hoods from additional manufacturers are available (contact us @ 800-782-5752 for details)

Replacement Elements
for multi-person system

P/N: 21999-0202
Oil Coalescing Filter

P/N: 21999-0200
Activated Carbon Filter

Replacement Elements
for single person system

P/N: 21999-0202
Replacement element for wall mounted Oil Coalescing Filter

P/N: 21999-0395
Replacement element for belt mounted carbon filter

P/N: 21999-0396
SAS Hood assembly with headband and hose

P/N: 21999-0417
Peel off lens covers for hoods 10 pack

P/N: 21999-0400
SAS Replacement Hoods without headband or hose 3 pack

P/N: 21999-0681
Peel off lens covers for flip up visor 25 pack

P/N: 21999-0532
SAS Flip up visor with hose and belt

P/N: 21999-0397
SAS 50 ft. breathing air

P/N: 21999-0396
SAS Hood assembly with headband and hose

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Calibration kit for GFG CO monitor

P/N: 21999-0265
2 to 4 Person Breathing Air Panel
(Hoses and Hoods sold separately)

P/N: 21999-0791
THE complete single user breathable air system.
This system runs a main hose from the wall filtration to the belt mounted filter. It provides an outlet for the 5ft. work hose before entering the carbon filter and the breathing air connection. Provides Grade “D” breathing air with carbon monoxide monitor.

Hoses and Hoods sold separately

Hood sold separately

Tsunami Single User Breathable Air System shown complete with wall mounted water separator and oil coalescing filter, belt mounted activated carbon filter with dual regulators, CO monitor, and 5’ Tsunami Ultra-flo work hose. (Hood sold separately)
Tsunami Rotary Vane Compressor / Dryer Systems

Features the revolutionary reliability and efficiency of the Mattei® rotary vane compressors and the performance and durability of the Tsunami Ultra Regenerative Dryer.

IF THIS IS YOUR NEXT COMPRESSOR, THIS IS YOUR LAST COMPRESSOR

REVOLUTIONARY RELIABILITY

Since 1919, slow-running MATTEI® air compressors have delivered superior performance and more value for your compressed air dollar. If you want a compressor you can hand down to the next generation, this is the one you want. Suburban Manufacturing knows body shops and our TSUNAMI brand equipment ensures clean, dry compressed air is delivered to avoid costly rework. Mattei is ideal for waterborne paints: industry leading body shops know that nothing beats a Mattei vane compressor. Quiet? Even the open machine is quiet. Durable? The air-end (RSU) has a 10 year warranty. Efficient? You may need less HP than you think.

Economical? It won’t cost a fortune to maintain. Mattei offers select compressor packages that ensure a constant reliable supply of clean dry compressed air. Base mounted, Stacked System™ duplex, variable speed driven, and more.

UNCONVENTIONALLY DURABLE & EFFICIENT

Get a Mattei and you’ll get the best value in premium quality air compressors found anywhere on the planet. Our unconventional “bearingless” air-ends are designed to last over 100,000 hours and are warranted for a full 10 years. They typically last up to 2-3 times longer than conventional rotary screw compressors. Super quiet operation, less lubricant, and energy-efficient designs save you more for years to come.

HOW IT WORKS

Ambient air is drawn through a filter into the compression chamber consisting of a stator in which an eccentrically arranged rotor revolves at 1,800 rpm (or less with OPTIMA VSD Models). An air intake valve automatically adjusts the incoming air volume. The rotor has longitudinal slots in which the vanes slide. Zero-wear vanes ride on a thin film of oil and are held against the stator by centrifugal force. The air is compressed through the contraction in volume of each chamber formed by the vanes, the rotor and the stator wall. Sealing, cooling and lubrication are ensured by the oil injected into the chamber.
Tsunami Rotary Vane Compressor / Dryer Systems

**WHY TSUNAMI IS YOUR BEST VALUE**

Tsunami Regenerative Dryer Systems use the latest technology to provide your facility with the cleanest, driest compressed air. Our systems, unlike some of our competitors, are complete systems including Tsunami water separators and Tsunami oil coalescing filters. We use Moisture Minder® automatic piston drains to assure proper draining of water and oils before the dryer.

Tsunami Ultra Regenerative Dryers feature:
- **3-year warranty**
- Built-in bypass circuit
- 80 Gallon storage tank for the ultra dry air
- Large Tsunami Water Separator and Oil Coalescing Filter to pre-filter the incoming air
- Moisture Minder automatic piston drains for pre-filters
- Outlet regulator allows for air conservation
- Pre-assembled for easy installation
- Low maintenance

The AC Series quiet cabinet enclosed air compressor. Our specially designed systems store high pressure in the tank and regulates the downstream air. This provides for very dry, stored air volume for your entire facility.

- Energy efficient - dryer goes into “pause” mode should the compressor go idle
- The AC Series by Tsunami has a standard outlet pressure of 150psi to the drying system
- The AC Series is only available in three phase

The ERC Series and the “Stacked System™”- Twin ERC Series are base mounted air compressors. The Twin ERC is equipped with energy saving automatic lead/lag mode.

- The ERC Series is only available at 125psi outlet pressure
- The ERC Series is available in single phase up to 7.5Hp
- Energy efficient - dryer goes into “pause” mode should the compressor go idle

The Optima Series VSD (variable speed drive) compressors offer the ultimate solution for energy efficiency.

- Optima Series only available in 460v
- 15Hp to 40Hp available with dryer
- VSD for maximum efficiency
- Eligible for rebates from most energy providers

Optima Series not shown
(Enclosure looks similar to AC Series)

Available in sizes up to 50Hp
Contact your distributor or sales representative for details and pricing

Tsunami Compressed Air Solutions is a division of

Suburban Manufacturing, Inc.

Mattei®

BEST SOLUTIONS IN COMPRESSED AIR
The Tsunami Deluxe Compressor-Dryer Systems

- MADE IN THE USA
- Tsunami Regenerative Dryer
- Heavy Duty cast iron compressor pumps
- 1 Year Warranty
- Industrial electrical motor - 1 Year warranty
- After cooler on all compressors

15Hp Tsunami Deluxe Compressor-Dryer shown

Standard Features

- High flow outlet regulator
- Built-in bypass system
- NEMA 1 electrical box
- Motor starter included with system
- Dryer isolation when compressor is not running - **Maximizes Efficiency**

Benefits

- **THE complete compressor and dryer package built into ONE system**
- System stores clean, dry air guaranteed
- Makes any paint shop waterborne ready
### Deluxe Compressor-Dryer Systems come complete with Tsunami Regenerative Dryer

- includes after cooler, bypass system, and outlet regulator

<table>
<thead>
<tr>
<th>Horsepower</th>
<th>CFM</th>
<th>RPM</th>
<th>Tank Capacity</th>
<th>P/N and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5Hp Duplex</td>
<td>53.8</td>
<td>655</td>
<td>120 Gallon Horizontal Tank</td>
<td>P/N 21999-0604-D-SB 7½Hp SB Duplex 220/230 Volt - Single Phase - 40 Amps each</td>
</tr>
<tr>
<td>10Hp</td>
<td>34.4</td>
<td>850</td>
<td>120 Gallon Vertical Tank</td>
<td>P/N 21999-0613-SB 10Hp SB Deluxe 200 Volt - Three Phase - 32.2 Amps</td>
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<tr>
<td>15Hp</td>
<td>51</td>
<td>830</td>
<td>120 Gallon Horizontal Tank</td>
<td>P/N 21999-0619-SB 15Hp SB Deluxe 200 Volt - Three Phase - 48.3 Amps</td>
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<tr>
<td>20Hp</td>
<td>76.1</td>
<td>605</td>
<td>200 Gallon Horizontal Tank</td>
<td>P/N 21999-0625-SB 20Hp SB Deluxe 200 Volt - Three Phase - 62.1 Amps</td>
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<tr>
<td>25Hp</td>
<td>89.6</td>
<td>710</td>
<td>200 Gallon Horizontal Tank</td>
<td>P/N 21999-0643-SB 25Hp SB Deluxe 200 Volt - Three Phase - 78.2 Amps</td>
</tr>
</tbody>
</table>

### Standard Compressor Systems available without the Tsunami Regenerative Dryer

- includes after cooler, outlet regulator, and automatic tank drain

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<td>200 Gallon Horizontal Tank</td>
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<td>89.6</td>
<td>710</td>
<td>200 Gallon Horizontal Tank</td>
<td>P/N 21999-0640-SB 25Hp SB 200 Volt - Three Phase - 78.2 Amps</td>
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### Standard Duplex Compressor Systems available without the Tsunami Regenerative Dryer

- includes after cooler, outlet regulator, and automatic tank drain

<table>
<thead>
<tr>
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<td>120 Gallon Horizontal Tank</td>
<td>P/N 21999-0600-D-SB 7½Hp SB Duplex 220/230 Volt - Single Phase - 40 Amps each</td>
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<td>10Hp</td>
<td>68.8</td>
<td>850</td>
<td>120 Gallon Horizontal Tank</td>
<td>P/N 21999-0609-D-SB 10Hp SB Duplex 200 Volt - Three Phase - 32.2 Amps each</td>
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WHAT MAKES A SAYLOR-BEALL AIR COMPRESSOR?

Disc type valves increase efficiency and lengthen life.

Finned cast-iron inter-cooler maximizes cooling and lengthens life.

Rugged cast-iron cylinder head withstands stress from heat.

Threaded plugs simplify access to valves.

Replaceable needle bearings lengthen rod life and simplify service.

Precision honed cylinders increase efficiency and oil control.

Four piston rings increase efficiency and oil control.

Centrifugal unloader provides no-load starting.

Two oversized tapered roller bearings lower friction and extend crankshaft life.

Automotive-type large diameter, ductile iron crankshaft provides extra strength and longer wear.

Side plate eases access to crankshaft and rods.

Replaceable insert bearings extend rod life and simplify service.

Cast-iron crankcase reduces vibration.
The after cooler brings the approach temperature down to 10-15° above ambient air temperature. Unique mounting of the high flow fan on the motor allows for better after cooler performance and does not block air flow across the pump.

Low pump RPM keeps generated heat low.

Water separator removes moisture even when the compressor-dryer system is in bypass mode.

Both pre-filters equipped drained with energy efficient automatic piston drains

Outlet regulator provides system pressure control and helps save energy.

NEMA-1 rated starter box with magnetic motor starter.

Built-in bypass valves allow for dryer maintenance without shutting your air system down.

Tsunami Regenerative Dryer removes water vapor before the air is stored in the receiver tank.

Provides low humidity in the compressed air. 2 to 6%RH Consistently

Dryer isolation when compressor is not running. Maximizes Efficiency

10Hp Tsunami Deluxe Compressor-Dryer shown
Shop Analysis Questionnaire

The Compressor Room

How many compressors do you have? ________
What is the horsepower of each compressor? (Look at electric motor plate) __________Hp
Manufacturer? ____________________ Model # ________________________________
Is your compressor used for the whole shop? ______Y______N
If no, what is the Hp of the compressor for the paint shop? __________Hp
What is the air system pressure? (look at compressor tank gauge) __________PSI
Does the compressor tank have an automatic drain? ______Y______N
Is the drain working? ______Y______N
If no, repair or replace.
Where is the compressor located? (in a closed room, outside, on a mezzanine, etc.) ______________________
Is there a pressure regulator located at or near the compressor for the whole system? ______Y______N
If yes, what pressure is it set at? (look at pressure gauge) __________PSI
Is the compressor room ventilated? ______Y______N
Does the receiver tank of the compressor feel warm to the touch? ______Y______N
Is there a refrigerated dryer? ______Y______N
If yes, is it working? ______Y______N
(This can be determined by grasping the inlet air line and the outlet air line with your hand, one should be warm and the other should be cool. If there is no difference, it probably is not working.)
If there is no refrigerated dryer, is there another type of drying technology being used? ______Y______N
If yes, what type? ________________________________
Does the drying technology (refrigerated or other) have pre-filters installed before the unit? ______Y______N

The Spray Booth

How many spray booths are there? ________
What type of booths do you have? ______DownDraft ______Cross Flow ______Semi Downdraft
How many spray drops in each booth? ________
What is the humidity reading in the booth(s)? ______%RH ______%RH ______%RH
Is there air preparation at the booth? (filters or dryers) ______Y______N
If yes, what brand or type? (ex: SATA, DeVilbiss, Sharpe, Camair, RTI, etc.) ________________________________
Is the shop spraying waterborne paint? ______Y______N
If yes, how are you drying the basecoats? ______Booth Fans ______Handheld Blowers/Stands ______other
If other, what is being used? ________________________________
Does the shop do mostly collision work or completes? ________________________________

The Prep Station

How many prep stations? ________
Do you spray in them? ______Y______N
Is there air preparation at the booth? (filters or dryers) ______Y______N
If yes, what brand or type? (ex: SATA, DeVilbiss, Sharpe, CamAir, RTI, etc.) ________________________________
What is the humidity reading in the prep station? ______%RH ______%RH ______%RH

The Paint Shop

How many painters will be using the air system? ________
How many shop employees total will be using the air system? __________
Is the air system a looped system or a “dead end”/“dead stick system”? __________
What is the approximate distance from the compressor to the booth? ________Ft. (______paces)
What is the approximate line size of the main air line? __________
What is the approximate line size of the supply air lines used in shop? __________
Are there air leaks in the piping, at air fittings, or air hoses? ______Y______N
What material is the piping made from? ______Copper ______Black Iron ______Galvanized ______PVC
(Tsunami Compressed Air Solutions™ does not recommend PVC or other plastic piping)

Tsunami Compressed Air Solutions™ is a division of