



## 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**





## DIRECTORY

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

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

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Tsunami Compressed Air Solutions™ is a division of



# 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

## Product Description



PATENT PENDING

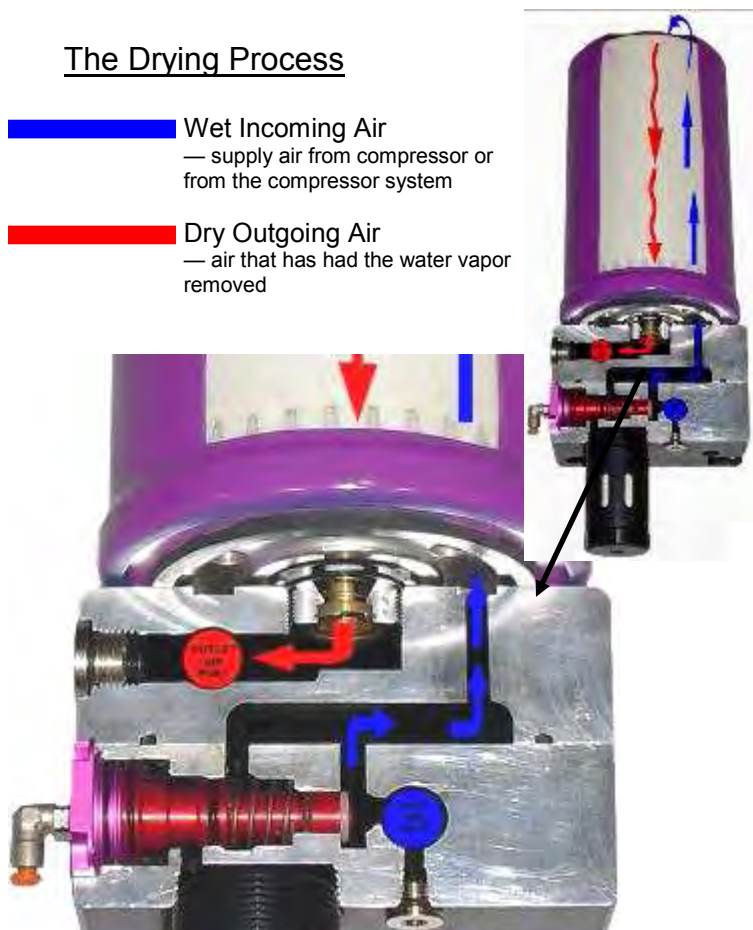
The Tsunami Regenerative Dryer System uses the latest technology to provide your facility with the cleanest, driest compressed air available. Our systems, unlike some of our competitors, are complete systems. This includes the Tsunami water separators and Tsunami oil coalescing filters. We use Moisture 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.

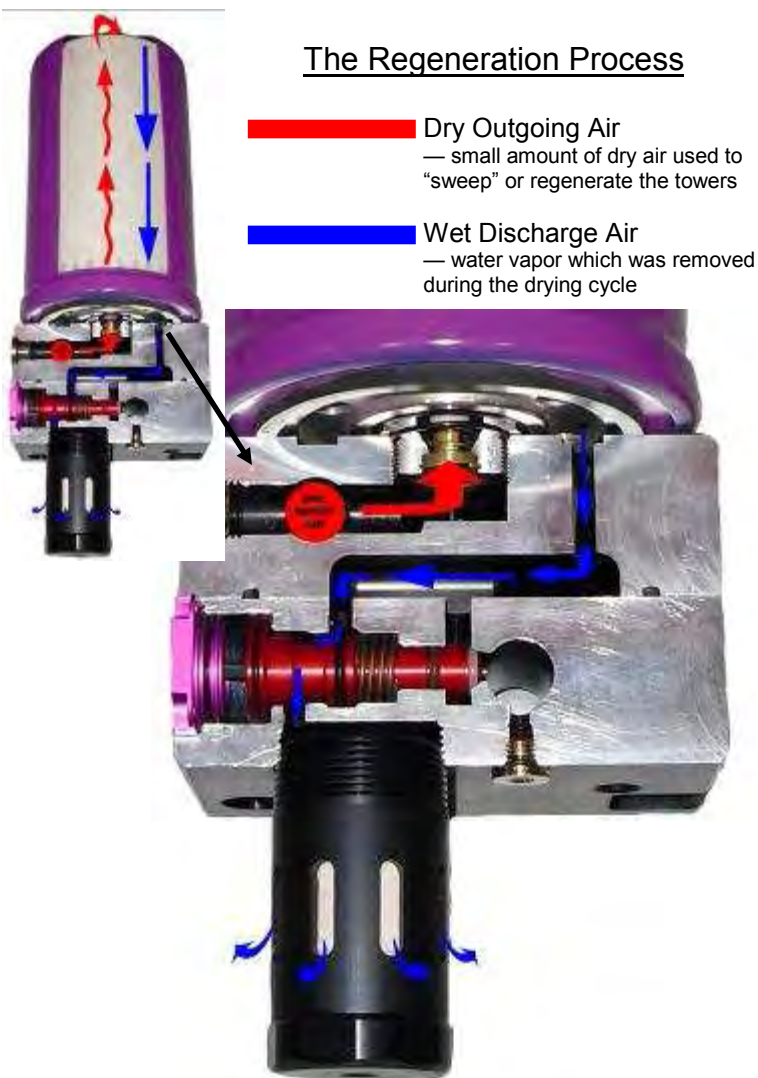
### The Drying Process

-  **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





# Tsunami Regenerative Dryers

## 10Hp to 30Hp Wall Mounted Units

PATENT PENDING

**\*\*The Tsunami Regenerative Dryer System is available up to 50Hp\*\***

P/N 21999-0710  
10Hp



Height - 30.5" Width - 23" Depth - 11.5"  
Inlet - 1" NPT Outlet - 1" NPT

P/N 21999-0715  
15Hp



Height - 30.5" Width - 29" Depth - 11.5"  
Inlet - 1" NPT Outlet - 1" NPT

P/N 21999-0720  
20Hp



The 20Hp and 30Hp appear the same but the orifice size of the regeneration valve and the program controlling tower cycling in the PLC are unique to each model.

P/N 21999-0730  
30Hp

Height - 30.5" Width - 35" Depth - 11.5"  
Inlet - 1" NPT Outlet - 1" NPT

### 3-Year Warranty on all Tsunami Regenerative Dryers

- Low Relative Humidity—down to .01% / Low Dew Points—down to -80°F
- Easy Maintenance—replace a coalescing filter element every six months
- Expandable Drying Technology
- Dryer housings manufactured from solid aluminum billet
- Dual outlet ports
- Dual inlet / auxiliary ports
- Each tower housing has a single piston spool
- Cartridge style regeneration orifices
- **Waterborne ready!**
- Low cost to maintain—under \$100/yr average
- Does not require buying a new, larger dryer to increase your shop's drying capacity
- Stronger construction; eliminates casting porosity
- 1" NPT ports provide for easier installation options and reduces pressure drop through the dryer
- Allows for filtered air without drying the air for other uses such as breathing air
- Less parts, more reliable, and easy to service
- Provides the ability to customize the performance of your dryer



### 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**

Height - 71" Width - 51" Depth - 27.5"  
Inlet - 1" NPT Outlet - 1" NPT

P/N 21999-0750

## 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

Height - 50.5" Width - 46" Depth - 24"  
Inlet - 1½" NPT Outlet - 1½" 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

# Single Tower Regenerative Dryer

## P/N 21999-0722



Includes:

- **3-year warranty**
- Economical solution for single booth application while still providing high quality dry air
- Tsunami water separator and oil coalescing filter to pre-treat the incoming air
- Outlet regulator allows for better pressure control and conserves air
- Easy to install
- Manual control valve can be mounted 50 feet from dryer

## 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

### 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



**P/N 21999-0357**

### SPECIFICATIONS

- **20 CFM max inlet flow w/ 16.7 CFM max outlet flow**
- 3.3 CFM sweep air @ 100PSI
- 175psi maximum inlet pressure
- 60psi maximum outlet pressure
- 100° F maximum inlet air temperature
- ½" NPT ports

Height - 23" Width - 16" Depth - 5"  
Inlet - ½" NPT Outlet - ½" NPT

INLET PRESSURE	INLET TEMPERATURE	PRESSURE DEW POINT	DEW POINT @ SPRAY GUN PRESSURE SETTING		
			30 PSI	40 PSI	50 PSI
175	80°	17° (9)	-10° (2)	-7° (2)	-5° (3)
150	80°	22° (11)	-3° (3)	-1° (4)	3° (4)
100	80°	40° (24)	19° (9)	23° (11)	27° (14)

**\*\*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'



# Spray Booth Filtration and Specialty Filtration Packages

## 50CFM Spray Booth Filtration Packages

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



**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"

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



**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 1/2"



**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 1/2" Width - 9 1/2"  
 Depth - 2 1/2"



**\*\*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 1/4" NPT inlet and outlet ports
  - 50 Series has a 2 3/8" square head with 1/2" NPT inlet and outlet ports
  - 120 Series has a 3 1/8" square head with 1" NPT inlet and outlet ports

### Stainless Steel Mesh:

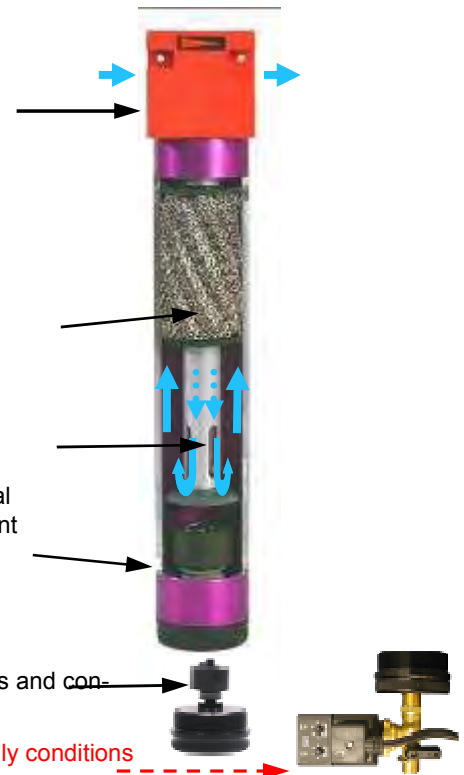
- The stainless steel mesh is a non-corroding material that retards rusting and breakdown of the weave.

### 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**



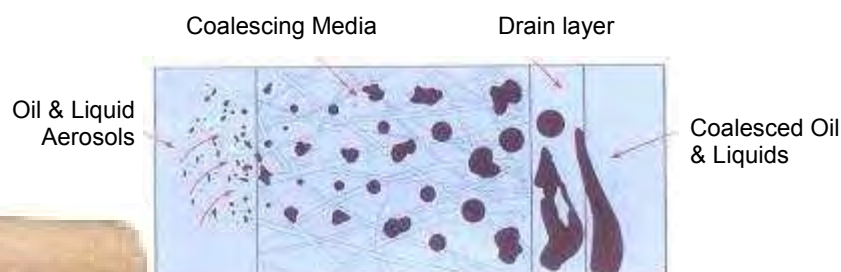
## The Tsunami Oil Coalescing Filter

### 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.



Scanning Electron Micrograph of Coalescing Media @ 500X magnification

By utilizing direct interception, diffusion and impaction, liquid aerosols are coalesced and removed from compressed air.

# 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



P/N 21999-0495	5'
P/N 21999-0496	15'
P/N 21999-0449	35'
P/N 21999-0450	50'

## CHECK HUMIDITY CONTENT

### The Tsunami Air Survey Kit

P/N: 21999-0440

### 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



## CHECK CFM USAGE

### The Tsunami CFM Test Kit

P/N: 21999-0447

### 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



## SHOW THE RESULTS

### Portable Regenerative Dryer / Demo Unit

P/N: 21999-0788

### 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



Height - 27" Width - 21" Depth - 14"  
Weight - 68 lbs

# Air Tool Protection / Individual Filters / Lift and Rack Utility Station

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 1/2"



**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 1/2"



*The best FRL for use with air tools*

**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 1/2"

**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 1/4" NPT  
P/N: 21999-0193 1/2" 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



## Drain Tube Kit

P/N: 21999-0201

- Fits all Tsunami filters



## Float Replacement

P/N: 9000801

- Fits all Tsunami filters



## Universal Mounting Bracket

P/N: 21999-0144

- Fits 50 CFM and 120 CFM Tsunami filters



## High Flow Hose Couplers

P/N 25KAAN13MPX

- 1/4" NPT male



P/N 25KAIN13MPX

- 1/4" NPT female



## High Flow Hose Plugs

P/N 25SFAN13SXZ

- 1/4" NPT male



P/N 25SFIN13SXN

- 1/4" NPT female

## Replacement Element for Dryer



P/N: 21999-0202

**Oil Coalescing Filter Element**  
(50 CFM and 120 CFM)  
(1 1/2" O.D. x 7" length)



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



P/N: 21999-0200

**Activated Carbon Filter Element**  
(50 CFM and 120 CFM)  
(1 1/2" O.D. x 7" length)



P/N: 21999-0394

**Oil Coalescing Filter Element**  
(20 CFM)  
(1 1/2" O.D. x 3 1/2" length)



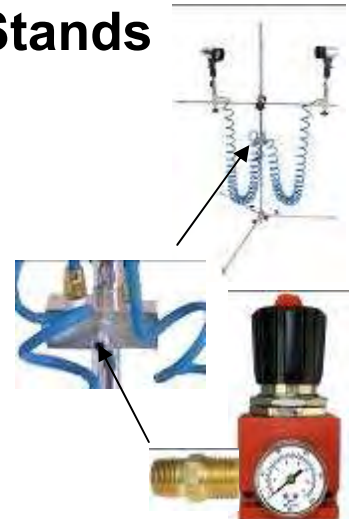
P/N: 21999-0395

**Activated Carbon Filter Element**  
(20 CFM)  
(1 1/2" O.D. x 3 1/2" 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®

**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.



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)**



**P/N 21999-0790**

Tsunami Single User Breathable Air Unit

Includes belt, activated carbon filter with dual regulators, CO monitor, and 5' Tsunami Ultra-flo work hose.

## 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



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



### **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: 21999-0400  
 SAS Replacement Hoods  
 without headband or hose  
 3 pack



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



# 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.



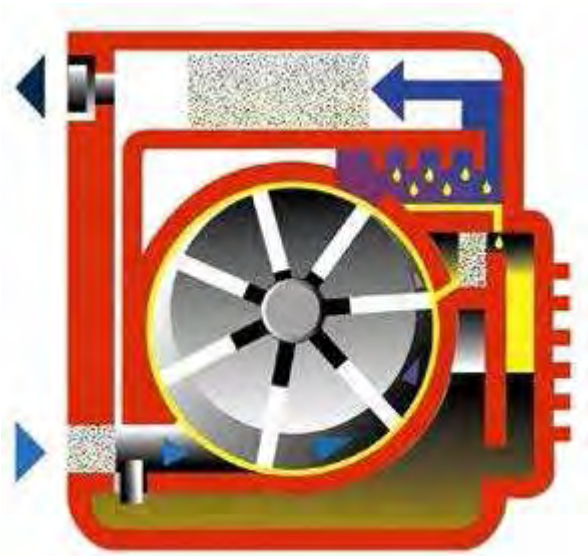
## UNCONVENTIONALLY DURABLE & EFFICIENT

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

## WHY MATTEI IS YOUR BEST VALUE

With Mattei compressors you get a constant supply of quality air all year long. It is not unusual for Mattei compressors to run for over 100,000 hours.

Mattei compressors feature:

- **10 Year Air-end Warranty**
- No wear of the compressor's moving mechanical parts
- Pulse free air
- Compact design
- **Low oil volume and consumption**
- Direct coupled compressor & motor - NO belts or gears
- Slow 1,800 RPM rotational speed
- Low maintenance
- Quiet operation

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



# The Tsunami Deluxe Compressor-Dryer Systems



15Hp Tsunami Deluxe Compressor-Dryer shown

## Standard Features

- 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
- 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

**7.5Hp Duplex**  
53.8 CFM @ 175 PSI  
655 RPM  
120 Gallon Horizontal Tank

P/N 21999-0604-D-SB	7½Hp SB Duplex Deluxe 220/230 Volt - Single Phase - 40 Amps each
P/N 21999-0605-D-SB	7½Hp SB Duplex Deluxe 200 Volt - Three Phase - 25.3 Amps each
P/N 21999-0606-D-SB	7½Hp SB Duplex Deluxe 208/230 Volt - Three Phase - 22 Amps each
P/N 21999-0607-D-SB	7½Hp SB Duplex Deluxe 460 Volt - Three Phase - 11 Amps each

**10Hp**  
34.4 CFM @ 175 PSI  
850 RPM  
120 Gallon Vertical Tank

P/N 21999-0613-SB	10Hp SB Deluxe 200 Volt - Three Phase - 32.2 Amps
P/N 21999-0614-SB	10Hp SB Deluxe 208/230 Volt - Three Phase - 28 Amps
P/N 21999-0615-SB	10Hp SB Deluxe 460 Volt - Three Phase - 14 Amps

**15Hp**  
51 CFM @ 175 PSI  
830 RPM  
120 Gallon Horizontal Tank

P/N 21999-0619-SB	15Hp SB Deluxe 200 Volt - Three Phase - 48.3 Amps
P/N 21999-0620-SB	15Hp SB Deluxe 208/230 Volt - Three Phase - 42 Amps
P/N 21999-0621-SB	15Hp SB Deluxe 460 Volt - Three Phase - 21 Amps

**20Hp**  
76.1 CFM @ 175 PSI  
605 RPM  
200 Gallon Horizontal Tank

P/N 21999-0625-SB	20Hp SB Deluxe 200 Volt - Three Phase - 62.1 Amps
P/N 21999-0626-SB	20Hp SB Deluxe 208/230 Volt - Three Phase - 54 Amps
P/N 21999-0627-SB	20Hp SB Deluxe 460 Volt - Three Phase - 27 Amps

**25Hp**  
89.6 CFM @ 175 PSI  
710 RPM  
200 Gallon Horizontal Tank

P/N 21999-0843-SB	25Hp SB Deluxe 200 Volt - Three Phase - 78.2 Amps
P/N 21999-0844-SB	25Hp SB Deluxe 208/230 Volt - Three Phase - 68 Amps
P/N 21999-0845-SB	25Hp SB Deluxe 460 Volt - Three Phase - 34 Amps

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## Standard Compressor Systems available without the Tsunami Regenerative Dryer -includes after cooler, outlet regulator, and automatic tank drain

**10Hp**  
34.4 CFM @ 175 PSI  
850 RPM  
120 Gallon Vertical Tank

P/N 21999-0609-SB	10Hp SB 200 Volt - Three Phase - 32.2 Amps
P/N 21999-0610-SB	10Hp SB 208/230 Volt - Three Phase - 28 Amps
P/N 21999-0611-SB	10Hp SB 460 Volt - Three Phase - 14 Amps

**15Hp**  
51 CFM @ 175 PSI  
830 RPM  
120 Gallon Horizontal Tank

P/N 21999-0616-SB	15Hp SB 200 Volt - Three Phase - 48.3 Amps
P/N 21999-0617-SB	15Hp SB 208/230 Volt - Three Phase - 42 Amps
P/N 21999-0618-SB	15Hp SB 460 Volt - Three Phase - 21 Amps

**20Hp**  
76.1 CFM @ 175 PSI  
605 RPM  
200 Gallon Horizontal Tank

P/N 21999-0622-SB	20Hp SB 200 Volt - Three Phase - 62.1 Amps
P/N 21999-0623-SB	20Hp SB 208/230 Volt - Three Phase - 54 Amps
P/N 21999-0624-SB	20Hp SB 460 Volt - Three Phase - 27 Amps

**25Hp**  
89.6 CFM @ 175 PSI  
710 RPM  
200 Gallon Horizontal Tank

P/N 21999-0840-SB	25Hp SB 200 Volt - Three Phase - 78.2 Amps
P/N 21999-0841-SB	25Hp SB 208/230 Volt - Three Phase - 68 Amps
P/N 21999-0842-SB	25Hp SB 460 Volt - Three Phase - 34 Amps

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## Standard Duplex Compressor Systems available without the Tsunami Regenerative Dryer -includes after cooler, outlet regulator, and automatic tank drain

**7.5Hp Duplex**  
53.8 CFM @ 175 PSI  
655 RPM  
120 Gallon Horizontal Tank

P/N 21999-0600-D-SB	7½Hp SB Duplex 220/230 Volt - Single Phase - 40 Amps each
P/N 21999-0601-D-SB	7½Hp SB Duplex 200 Volt - Three Phase - 25.3 Amps each
P/N 21999-0602-D-SB	7½Hp SB Duplex 208/230 Volt - Three Phase - 22 Amps each
P/N 21999-0603-D-SB	7½Hp SB Duplex 460 Volt - Three Phase - 11 Amps each

**10Hp Duplex**  
68.8 CFM @ 175 PSI  
850 RPM  
120 Gallon Horizontal Tank

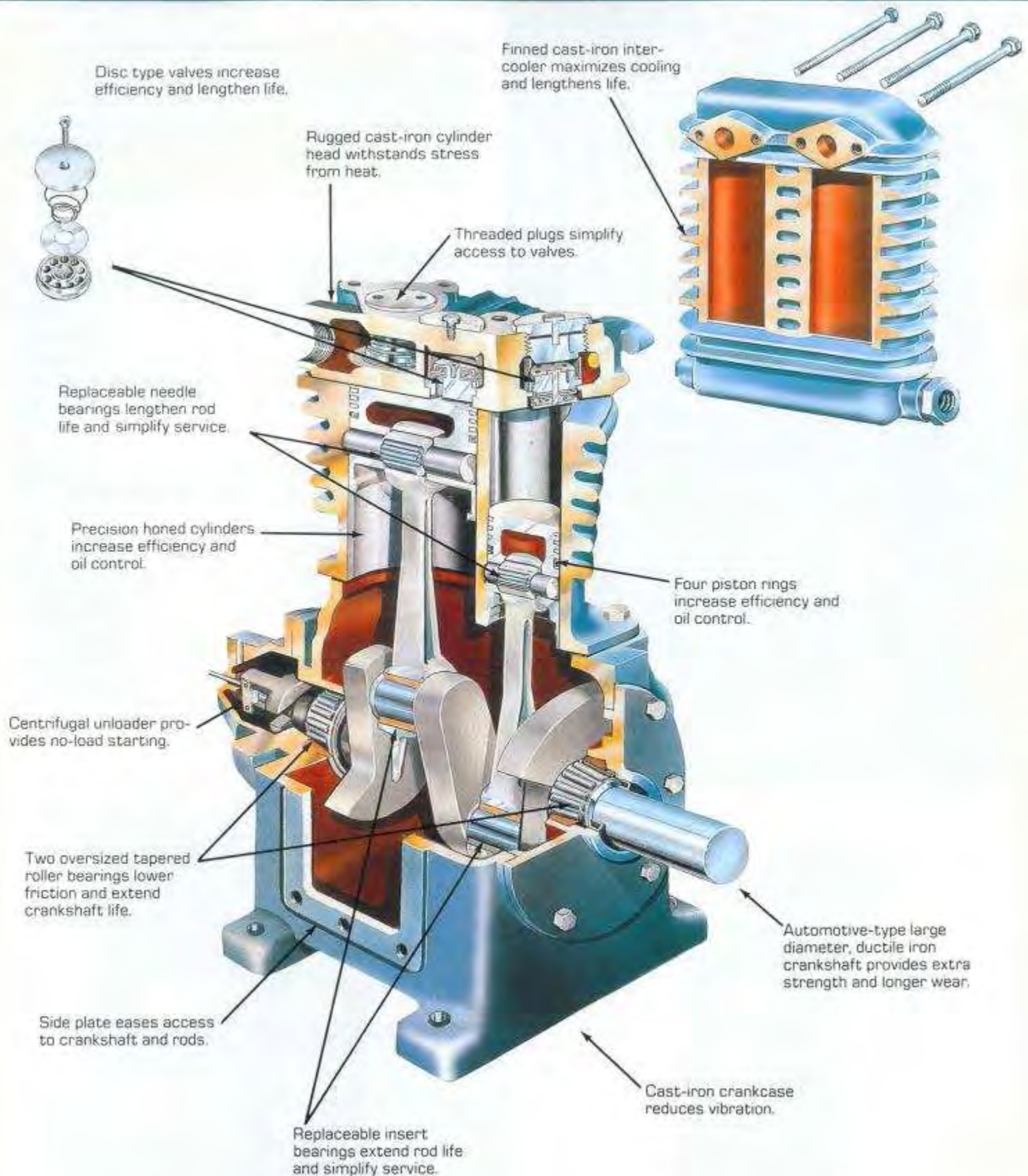
P/N 21999-0609-D-SB	10Hp SB Duplex 200 Volt - Three Phase - 32.2 Amps each
P/N 21999-0608-D-SB	10Hp SB Duplex 208/230 Volt - Three Phase - 28 Amps each
P/N 21999-0611-D-SB	10Hp SB Duplex 460 Volt - Three Phase - 14 Amps each

**15Hp Duplex**  
102 CFM @ 175 PSI  
830 RPM  
120 Gallon Horizontal Tank

P/N 21999-0616-D-SB	15Hp SB Duplex 200 Volt - Three Phase - 48.3 Amps each
P/N 21999-0617-D-SB	15Hp SB Duplex 208/230 Volt - Three Phase - 42 Amps each
P/N 21999-0618-D-SB	15Hp SB Duplex 460 Volt - Three Phase - 21 Amps each



# WHAT MAKES A SAYLOR-BEALL AIR COMPRESSOR?



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

Low pump RPM keeps generated heat low.

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.

Outlet regulator provides system pressure control and helps save energy.

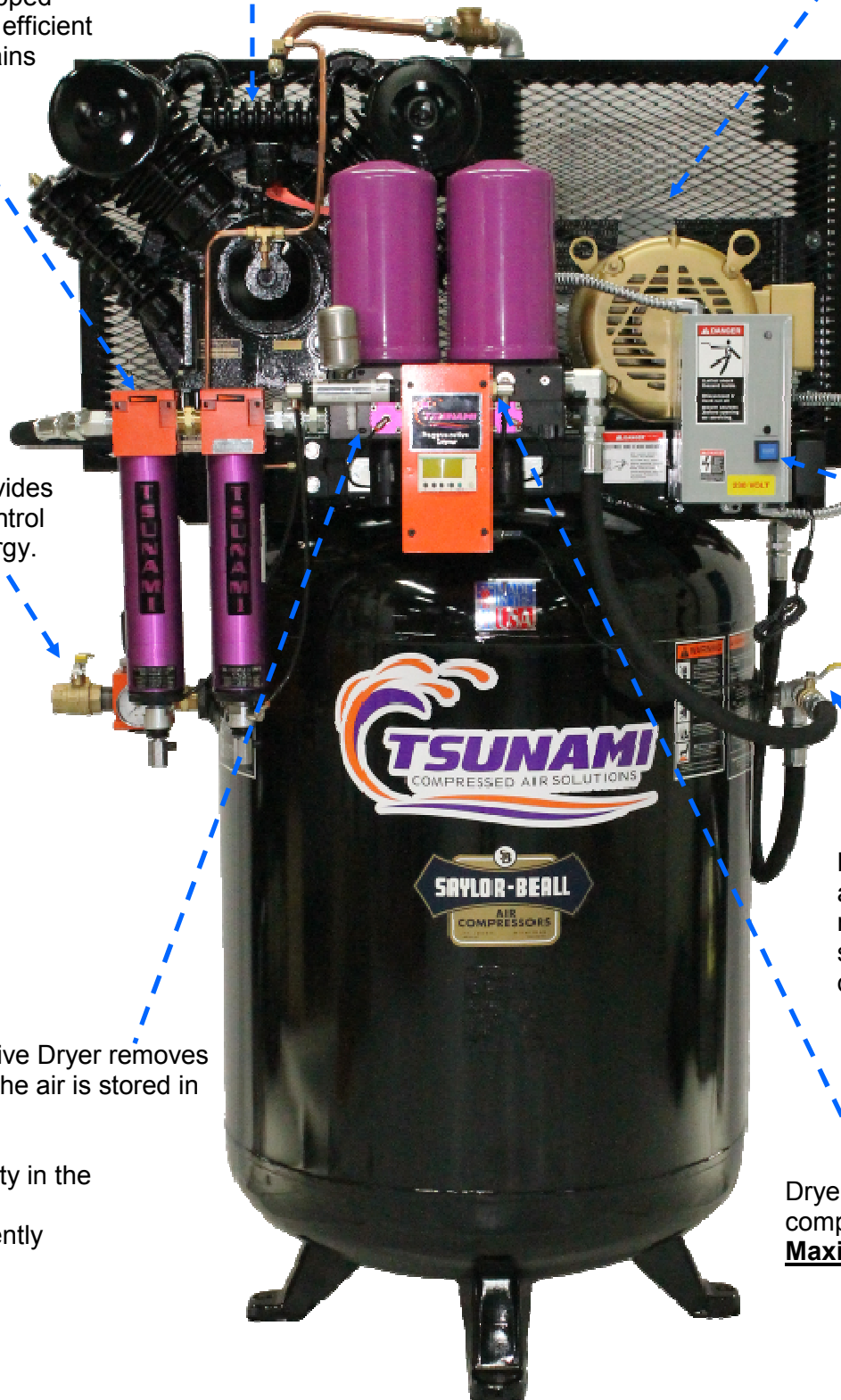
NEMA-1 rated starter box with magnetic motor starter.

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

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

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

