

PRECISION EQUIPMENT FILTRATION & DRYING

PREVENT COSTLY DOWNTIME DURING THE CRITICAL INSPECTION PROCESS WITH PRECISION EQUIPMENT FILTERS & DRYERS

By products of compressed air such as water, oil, oil vapors, and humidity can cause severe damage to precision equipment. Tsunami Compressed Air Solutions™ offers a complete line of precision equipment engineered to protect against the #1 cause of precision equipment downtime: a contaminated air supply.

BENEFITS OF TSUNAMI FILTRATION SYSTEMS

- Maintains accuracy of CMM
- Protects air bearings from contaminants
- Provides Grade "D" Instrument Air
- Fast & easy installation
- Timed auto drain ejects oil and water



- ① WATER SEPARATOR FILTER
 - ② OIL COALESCING FILTER
 - ③ REGENERATIVE DRYER
 - ④ MOUNTING BRACKET
 - ⑤ ACTIVATED CARBON FILTER*
- *Not included but recommended

AIR DRYERS

Tsunami Regenerative Air Dryers are designed to be compatible with any CMM machine or industrial application. Our systems are built as complete packages and are wall-mountable to eliminate wasted floor space used for bulky equipment.

Tsunami systems self-regenerate to ensure ultra clean, dry air. Approximately every two minutes, a controlled signal forces an internal piston to shift. The shift in the piston redirects airflow through the opposite canister(s) while simultaneously back-flowing a small amount of dry air through the previously utilized tower; it's like changing out desiccant every two minutes!

ITEM #	MAX CFM	DRAIN	PORT SIZE (NPT)	WEIGHT	DIMENSIONS (HWD)
21999-1105	17	Float	¼" Inlet / ½" Outlet	20 lbs	17" x 25" x 12"
21999-1105-MM	17	Pneumatic	¼" Inlet / ½" Outlet	20 lbs	17" x 25" x 12"
21999-1105-T	17	Float	¼"	22 lbs	18" x 26" x 12"
21999-1105-T-MM	17	Pneumatic	¼"	23 lbs	18" x 26" x 12"
21999-1010*	40	Float	½" Inlet / 1" Outlet	60 lbs	27" x 21" x 12"
21999-1010-MM	40	Pneumatic	½" Inlet / 1" Outlet	62 lbs	27" x 21" x 12"



FOR MORE INFORMATION ON TSUNAMI

Contact Your Distributor or Call 1.800.782.5752

10531 Dalton Ave NE | Monticello, MN 55362 | TSUNAMI.US.COM



3-Stage Filtration Package
#21999-0257



Precision Membrane Dryer
#21999-0957

FILTRATION

Tsunami filters are built for the unavoidable surges ordinary filters can't handle. All units are machined from the highest quality materials & anodized inside & out to ensure long-lasting durability against trapped contaminants. Filters and filtration packages are sequenced in the following order:

STAGE 1: The Tsunami Water Separator removes water and up to 1 quart per minute & filters particulate down to 10 micron.

STAGE 2: Oil Coalescing Filters removes oil aerosols down to .001 ppm & traps particulates down to .01 micron.

STAGE 3: The Activated Carbon Filter removes oil vapor down to .003 ppm, removing odor & taste from the air.

MEMBRANE DRYERS & FILTERS*

ITEM #	MAX FLOW	DESCRIPTION
21999-0957	15 CFM	Precision Membrane Dryer
21999-0524	20 CFM	Precision Membrane Dryer
21999-0390-AC	20 CFM	Activated Carbon Filter
21999-0131-AC	50 CFM	Activated Carbon Filter
21999-0678	20 CFM	3-Stage Filtration Package
21999-0257	50 CFM	3-Stage Filtration Package

MEMBRANE DRYER

Tsunami Membrane Dryers provide an economical solution for supplying clean, dry air for CMM machines. The molecular makeup of the hollow tubes allows water vapor to pass. The greater the pressure differential between the inlet and outlet pressures, the drier the air downstream.

HOW IT WORKS

The Drying Process

- 1 The molecular makeup of the hollow tubes allows certain gases to pass through the membrane quicker than the desired gas.
- 2 As compressed air travels through the hollow tubes, water vapor passes through the membrane pores.
- 3 The water vapor collects within the housing until it is removed.
- 4 A fixed orifice at the bottom of the hollow tubes allows dry air to pass up the housing, around the hollow tubes, to sweep the water vapor out the sweep holes at the top of the housing.



SERVICE PARTS

ITEM #	DESCRIPTION	
21999-0976	Pure-5 Replacement Towers	*Change after 3 years
21999-0349	Pure-10 Replacement Towers	*Change after 3 years
21999-0823	Pure-5 Oil Coalescing Elements - 5 Pack	*Replace every 6 months
21999-0825	Pure-10 Oil Coalescing Elements - 5 Pack	*Replace every 6 months

Visit our website for more dryers & air filtration packages!



FOR MORE INFORMATION
Call **1.800.782.5752** or visit **TSUNAMI.US.COM**

