

AIR FILTRATION


FOR THE SURGES ORDINARY FILTERS CAN'T HANDLE

Tsunami filters are machined from the highest quality materials and are anodized inside and out to ensure ultimate durability against corrosion and trapped contaminants. Our cutting-edge technology is rigorously tested to outperform your expectations regardless of the industry or application.

- 1 Filter heads machined from 6061 Aircraft Aluminum
- 2 Oversized tube length allows both gravity and velocity to assist in the removal of water and air contaminants
- 3 Removable bottom cap provides ease of service and machined drain port provides various drain capabilities



-R Filter packages can be ordered in reverse flow, right to left, and have a "-R" at the end of the part number

 Filtration service parts can be found on pages 18-19 or by searching the unit part number online at tsunami.us.com

WATER SEPARATORS

The Tsunami Water Separator removes water, up to one quart per minute, and filters particulate down to 10 micron.

HOW IT WORKS

- 1 Air enters the filter & travels down a small diameter tube causing an increase in velocity.
- 2 The air reaches the bottom of the inner tube then is redirected 180° up the outer tube allowing gravity and a slower velocity to capture bulk liquids.
- 3 Velocity increases again as air is forced through small orifice baffles before entering the stainless steel mesh element.
- 4 Centrifugal force is used to capture any remaining liquids before exiting the filter.
- 5 Liquids are automatically ejected through the drain.



Max Pressure: 250 psi

Max Temperature: 175°F

PART NUMBER	MAX CFM	DRAIN TYPE	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0390	20	Float	¼" NPT	1½ lbs	8½" x 2" x 2"
21999-0390-ED	20	Electronic	¼" NPT	2½ lbs	11½" x 2" x 2"
21999-0390-MM	20	Pneumatic	¼" NPT	2 lbs	10½" x 2" x 2"
21999-0131	50	Float	½" NPT	3½ lbs	14½" x 2½" x 2½"
21999-0131-ED	50	Electronic	½" NPT	6 lbs	17½" x 5½" x 4"
21999-0131-MM	50	Pneumatic	½" NPT	6 lbs	17" x 2½" x 2½"
21999-1034	120	Float	¾" NPT	9lbs	16" x 3½" x 3½"
21999-1034-ED	120	Electronic	¾" NPT	9½ lbs	18" x 6" x 4½"
21999-1034-MM	120	Pneumatic	¾" NPT	9lbs	18" x 3½" x 3½"
21999-0082	120	Float	1" NPT	9 lbs	16" x 3½" x 3½"
21999-0082-ED	120	Electronic	1" NPT	9½ lbs	18" x 6" x 4½"
21999-0082-MM	120	Pneumatic	1" NPT	9 lbs	18" x 3½" x 3½"
21999-0850	240	Float	2" NPT	19 lbs	16.5" x 7½" x 3½"
21999-0850-ED	240	Electronic	2" NPT	21 lbs	19" x 10" x 6½"
21999-0850-MM	240	Pneumatic	2" NPT	20 lbs	18½" x 7½" x 3½"
21999-0960	800	Float	3" NPT	38 lbs	35½" x 6" x 6"
21999-0960-ED	800	Electronic	3" NPT	39 lbs	35½" x 6" x 10"
21999-0960-MM	800	Pneumatic	3" NPT	39 lbs	35½" x 6" x 8½"

OIL COALESCING FILTERS

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

HOW IT WORKS

- 1 Air enters the filter and passes through the element from the center to the outside.
- 2 As the air travels through the fibrous layers, oil aerosols are captured and coalesce.
- 3 The non-wicking outer drain layer separates the bulk liquids from the air flow.
- 4 Gravity slows the bulk liquids to drip into the drain sump off the filter where they are automatically removed.



Max Pressure: 250 psi

Max Temperature: 175°F

PART NUMBER	MAX CFM	DRAIN TYPE	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0390-Z-FD	20	Float	¼" NPT	1½ lbs	8½" x 2" x 2"
21999-0390-Z-ED	20	Electronic	¼" NPT	2½ lbs	11½" x 2" x 2"
21999-0390-Z-MM	20	Pneumatic	¼" NPT	2 lbs	10½" x 2" x 2"
21999-0131-Z-FD	50	Float	½" NPT	3½ lbs	14½" x 2½" x 2½"
21999-0131-Z-ED	50	Electronic	½" NPT	4½ lbs	17½" x 5½" x 4"
21999-0131-Z-MM	50	Pneumatic	½" NPT	4 lbs	17" x 2½" x 2½"
21999-1034-Z-FD	120	Float	¾" NPT	5 lbs	16" x 3½" x 3½"
21999-1034-Z-ED	120	Electronic	¾" NPT	6 lbs	18" x 6" x 4½"
21999-1034-Z-MM	120	Pneumatic	¾" NPT	5½ lbs	18" x 3½" x 3½"
21999-0082-Z-FD	120	Float	1" NPT	5 lbs	16" x 3½" x 3½"
21999-0082-Z-ED	120	Electronic	1" NPT	6 lbs	18" x 6" x 4½"
21999-0082-Z-MM	120	Pneumatic	1" NPT	5½ lbs	18" x 3½" x 3½"
21999-0850-Z-FD	240	Float	2" NPT	11½ lbs	16½" x 7½" x 3½"
21999-0850-Z-ED	240	Electronic	2" NPT	13 lbs	19" x 10" x 6½"
21999-0850-Z-MM	240	Pneumatic	2" NPT	12½ lbs	18½" x 7½" x 3½"

ACTIVATED CARBON FILTERS

The Activated Carbon Filter removes oil vapor down to .003 ppm, removing odor and taste from the air.

HOW IT WORKS

- 1 Air enters the filter and passes through the element from the outside to the center.
- 2 As the air travels through the activated carbon layers, oil vapors are captured and held through the process of adsorption.
- 3 No liquids should be present at this stage, therefore, there is no drain.



Max Pressure: 250 psi

Max Temperature: 175°F

PART NUMBER	MAX CFM	DRAIN TYPE	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0390-AC	20	-	¼" NPT	1½ lbs	8" x 2" x 2"
21999-0131-AC	50	-	½" NPT	3½ lbs	14½" x 2½" x 2½"

FILTER DRAIN OPTIONS

Tsunami water separators and oil coalescing filters are designed to accommodate multiple drain types for specific application needs. Draining options include float drains, our patented Moisture Minder® Electronic Drain and our patent pending pneumatic filter drain.



FLOAT DRAIN
Standard with all filters.



MOISTURE MINDER® EDV
A fixed strainer screen removes contaminants before reaching the valve orifice.



MOISTURE MINDER® FILTER DRAIN
Requires an intermittent pilot signal to operate. Designed to spin on corresponding size filter housing.

FILTRATION PACKAGES

PACKAGE 1

- Includes:
- Water Separator
 - Lubricator



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0416	20	¼" NPT	2½ lbs	9½" x 4½" x 2½"
21999-0247	50	½" NPT	7 lbs	18" x 6" x 5"
21999-0248	120	1" NPT	12 lbs	19½" x 8" x 5½"

PACKAGE 3

- Includes:
- Water Separator
 - Oil Coalescing Filter



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0424	20	¼" NPT	3 lbs	9½" x 5" x 2½"
21999-0251	50	½" NPT	9½ lbs	18" x 6½" x 5"
21999-0252	120	1" NPT	14 lbs	19½" x 8" x 5½"

PACKAGE 5

- Includes:
- Water Separator
 - Oil Coalescing Filter
 - Activated Carbon Filter



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0421	20	¼" NPT	4 lbs	9½" x 8" x 2½"
21999-0255	50	½" NPT	13½ lbs	17" x 13" x 3½"
21999-0255-R	50	½" NPT	13½ lbs	17" x 13" x 3½"

PACKAGE 7

- Includes:
- Oil Coalescing Filter
 - Regulator



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0969	20	¼" NPT	2 lbs	10½" x 4" x 3½"
21999-0494	50	½" NPT	6 lbs	18½" x 6½" x 6"
21999-0967	120	1" NPT	12 lbs	21" x 8" x 5½"

PACKAGE 2

- Includes:
- Water Separator
 - Regulator
 - Lubricator



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0415	20	¼" NPT	3 lbs	10½" x 5½" x 3½"
21999-0249	50	½" NPT	10½ lbs	18" x 13" x 6½"
21999-0249-R	50	½" NPT	10½ lbs	18" x 13" x 6½"
21999-0250	120	1" NPT	16 lbs	21" x 13" x 6½"

PACKAGE 4

- Includes:
- Water Separator
 - Oil Coalescing Filter
 - Regulator



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0677	20	¼" NPT	3½ lbs	9½" x 6½" x 3½"
21999-0253	50	½" NPT	12 lbs	17" x 13" x 4½"
21999-0253-R	50	½" NPT	12 lbs	17" x 13" x 4½"
21999-0254	120	1" NPT	18 lbs	21" x 13" x 6½"

PACKAGE 6

- Includes:
- Water Separator
 - Oil Coalescing Filter
 - Activated Carbon Filter
 - Regulator



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0678	20	¼" NPT	5 lbs	10½" x 9" x 3½"
21999-0257	50	½" NPT	15½ lbs	18½" x 17" x 4½"
21999-0257-R	50	½" NPT	15½ lbs	18½" x 17" x 4½"

EDV Models Available: 20 SCFM: 21999-0457 50 SCFM: 21999-0291

PACKAGE 8

- Includes:
- Water Separator
 - Regulator



PART NUMBER	MAX CFM	PORT SIZE	WEIGHT	DIMENSIONS (HWD)
21999-0414	20	¼" NPT	2½ lbs	10½" x 4" x 3½"
21999-0679	50	½" NPT	8 lbs	18" x 6½" x 6"
21999-0968	120	1" NPT	12 lbs	21" x 8" x 5½"