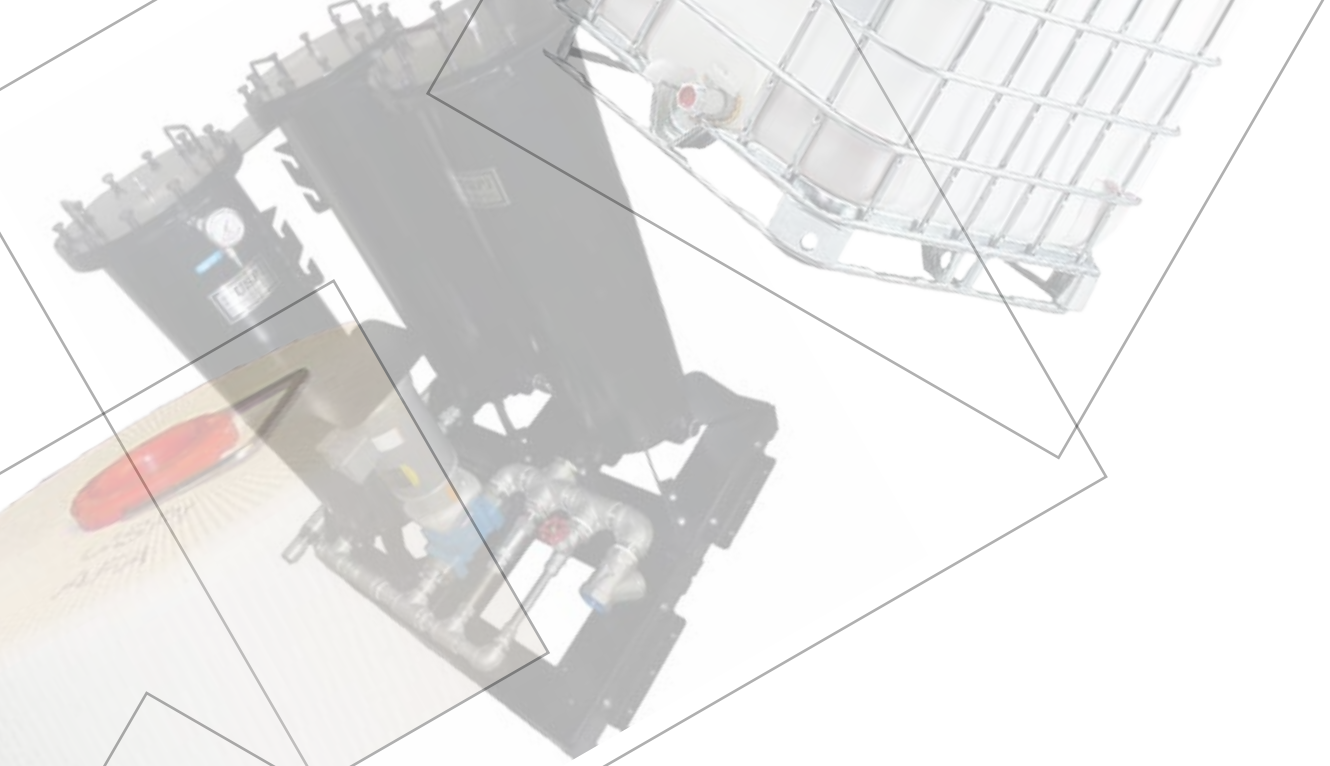

US PETROLON

LUBRICATION & FILTRATION CATALOG

www.uspetrolon.com

US
PETROLON
INDUSTRIAL

IMPROVING MACHINERY LIFE
WITH
SPECIALTY LUBRICANTS
AND
FILTRATION

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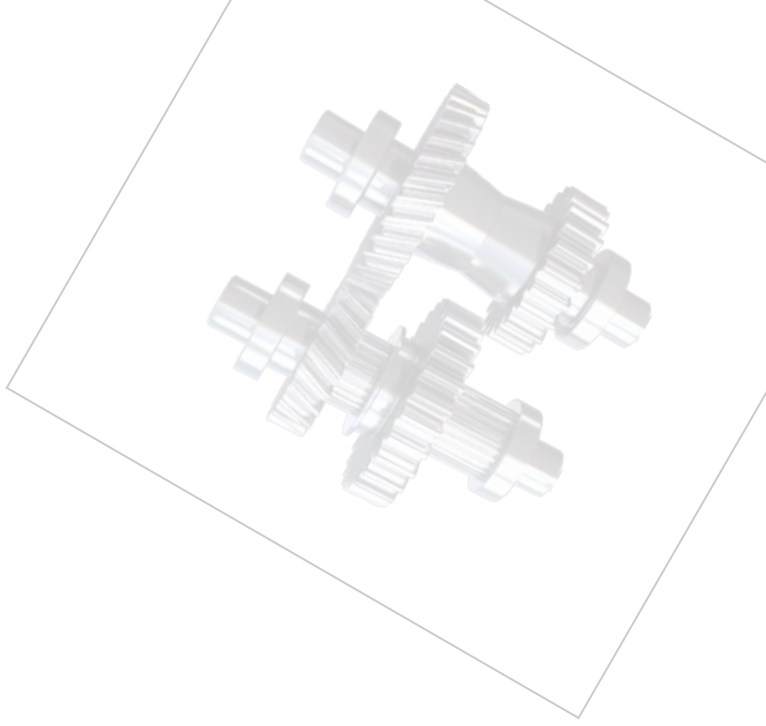


about **us**

The **Company**

US Petrolon Industrial (USPI) has been custom designing and filtering fluids of all types for over 30 years. Our knowledge and practical experience ensures that the USPI fluids and ultra-fine filtration in your Oil Filtration & Lubrication Program will be the finest available with today's technology.

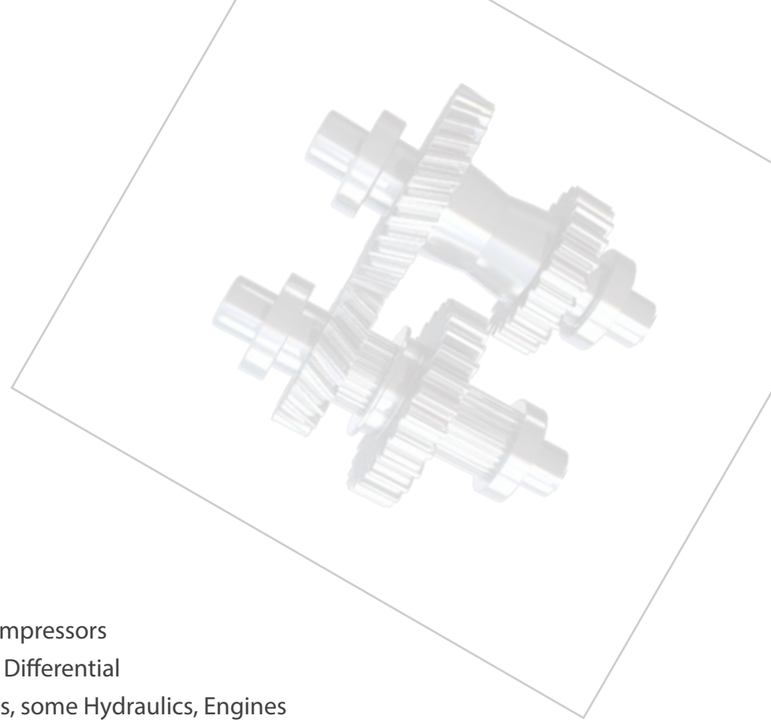
The **Program**

The USPI Oil Filtration & Lubrication Program uniquely combines our expertise and service, our high quality lubricants, and our ultra-fine particulate and water-removing depth filtration systems to maximize your lubricant and equipment life. USPI programs have been proven to reduce downtime, decrease labor and disposal costs, and maximize asset preservation.

The **Service**

Service is the cornerstone of our business. We will partner with you to create a custom-tailored oil filtration & lubrication program and assist you with managing and sustaining that program. Contact us to arrange a plant audit and inspection of your existing operation at no charge.

US
PETROLON
INDUSTRIAL



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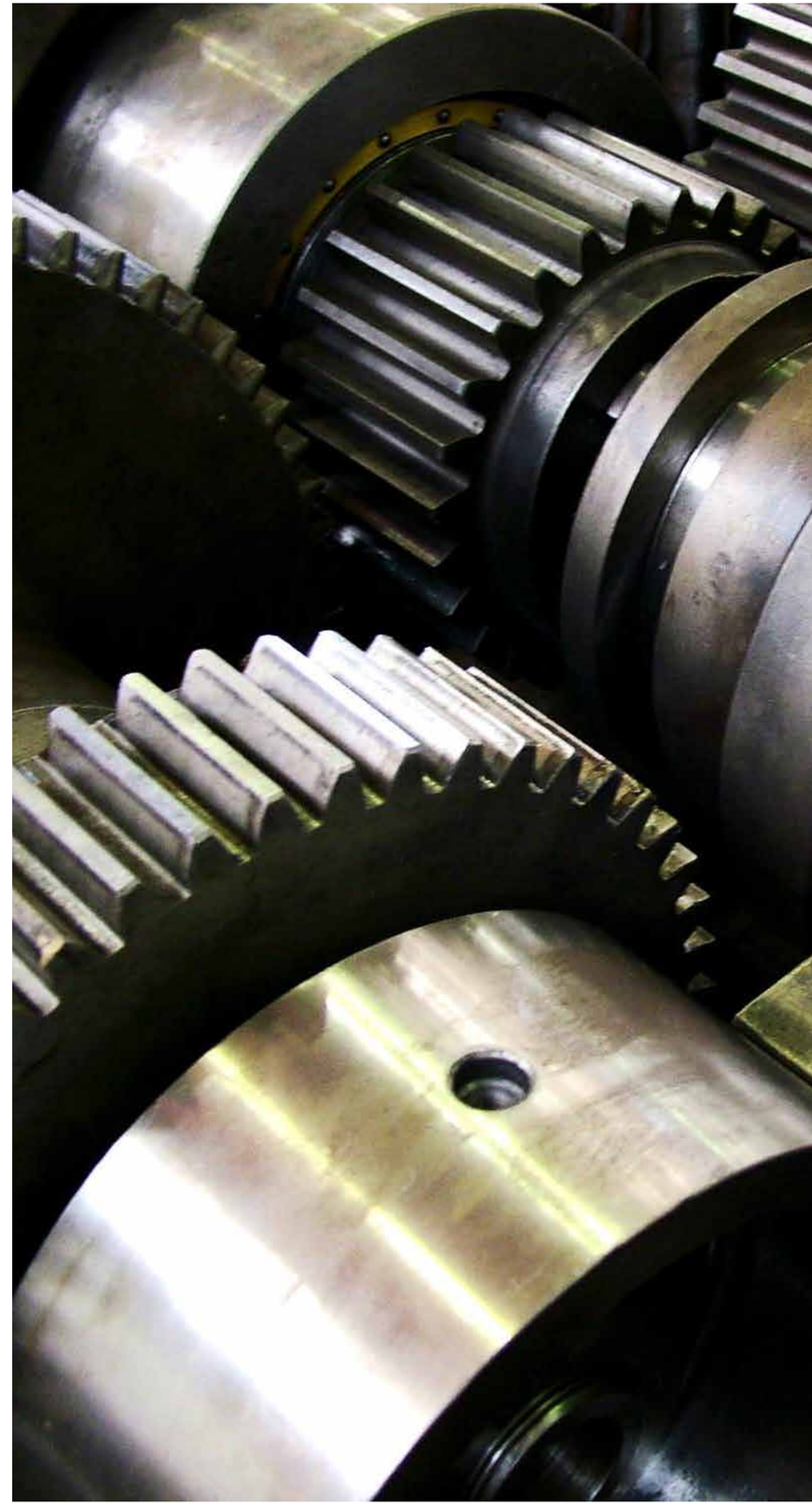
FILTRATION

70% to 80% of
machinery problems
and failures are
oil-related.

USPI filtration systems
keep your
industrial lubricants
clean and dry
to extend
both equipment
and fluid life.



US Petrolon **Filtration Systems**

custom-engineered filtration systems + depth filter elements

US Petrolon **Inline Filtration**
for refrigeration compressors

US Petrolon designs and manufactures ultra-fine water-removing depth filtration systems to extend equipment and lubricant life, saving you time and money.

USPI High Pressure Filtration

- Remove moisture (up to 5 qts per element)
- Remove solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protect and preserve oil additive package
- Reduce operating temperature
- Significantly extend equipment and fluid life

USPI S1000AMM

1 Depth filter
Reservoirs ~1-120 gal

PHYSICAL DATA
19”W x 42”H x 18”D
Weight: 85 lbs

PARTICULATE RETENTION
12-14 lbs typical

WATER RETENTION
5 quarts typical

OIL FLOW
By pressure differential

USPI D1000AMM

2 Depth filters
Reservoirs ~121-240 gal

PHYSICAL DATA
25.5”W x 42”H x 18”D
Weight: 135 lbs

PARTICULATE RETENTION
24-28 lbs typical

WATER RETENTION
10 quarts typical

OIL FLOW
By pressure differential

USPI T1000AMM

3 Depth filters
Reservoirs ~241-360 gal

PHYSICAL DATA
38.5”W x 42”H x 18”D
Weight: 215 lbs

PARTICULATE RETENTION
36-42 lbs typical

WATER RETENTION
15 quarts typical

OIL FLOW
By pressure differential

USPI 1000AMM Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Stationary Filtration for Ammonia Compressors

Oil in ammonia compressors is often dark and dirty, requiring regular changes. But the USPI 1000AMM filtration system removes both wear-causing solids and water from the lubricant, keeping the fluid clean and clear year after year. USPI filtration systems will maximize compressor, fluid, and filter life in your ammonia compressors.

UNITS:
S1000AMM for Reservoirs ~1-120 gal
D1000AMM for Reservoirs ~121-240 gal
T1000AMM for Reservoirs ~ 241-360 gal
custom-sized units available

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

USPI S1000AMM

For Reservoirs ~1-120 gal
DIMENSIONS:
19"W x 42"H x 18"D
WEIGHT: 85 lbs

USPI D1000AMM

For Reservoirs ~121-240 gal
DIMENSIONS:
25.5"W x 42"H x 18"D
WEIGHT: 135 lbs

USPI T1000AMM

For Reservoirs ~241-360 gal
DIMENSIONS:
38.5"W x 42"H x 18"D
WEIGHT: 235 lbs

USPI D1000AMM PICTURED

USPI 1000AMM Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Stationary Filtration for Ammonia Compressors

Oil in ammonia compressors is often dark and dirty, requiring regular changes. But the USPI 1000AMM filtration system removes both wear-causing solids and water from the lubricant, keeping the fluid clean and clear year after year. USPI filtration systems will maximize compressor, fluid, and filter life in your ammonia compressors.

UNITS:

S1000AMM for Reservoirs ~1-120 gal
D1000AMM for Reservoirs ~121-240 gal
T1000AMM for Reservoirs ~241-360 gal
custom-sized units available

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Ammonia Compressor Filtration System with…

USPI FLUIDS

USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants designed for long-term use in refrigeration compressors. Fluids for low temperature operation are also available.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for refrigeration compressors that meet or exceed manufacturer specifications at significantly lower costs.

US Petrolon Inline Filtration
using pressure differential

Air compressors • Hydraulic systems
Turbines • Diesel & gasoline engines

US Petrolon designs and manufactures ultra-fine water-removing depth filtration systems to extend equipment and lubricant life, saving you time and money.

USPI 1000 Series Filtration Systems

- Remove moisture (up to 5 qts per element)
- Remove solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protect and preserve oil additive package
- Reduce operating temperature
- Significantly extend equipment and fluid life

USPI 1000HC

PHYSICAL DATA
12”W x 36”H x 12”D
Weight: ~35lbs

PARTICULATE RETENTION
12-14 lbs typical

WATER RETENTION
5 quarts typical

OIL FLOW
By pressure differential

USPI Air Compressor Filtration

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Stationary Filtration for Air Compressors

Your air compressors must perform continuously with minimum downtime, despite ingested contaminants and water from the operating environment. Protect your compressor with ultra-fine water-removing filtration by installing the USPI 1000H/C inline depth filtration system.

DIMENSIONS: 12″W x 36″H x 12″D
WEIGHT: ~35lbs

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Air Compressor Filtration System with. . .

USPI FLUIDS

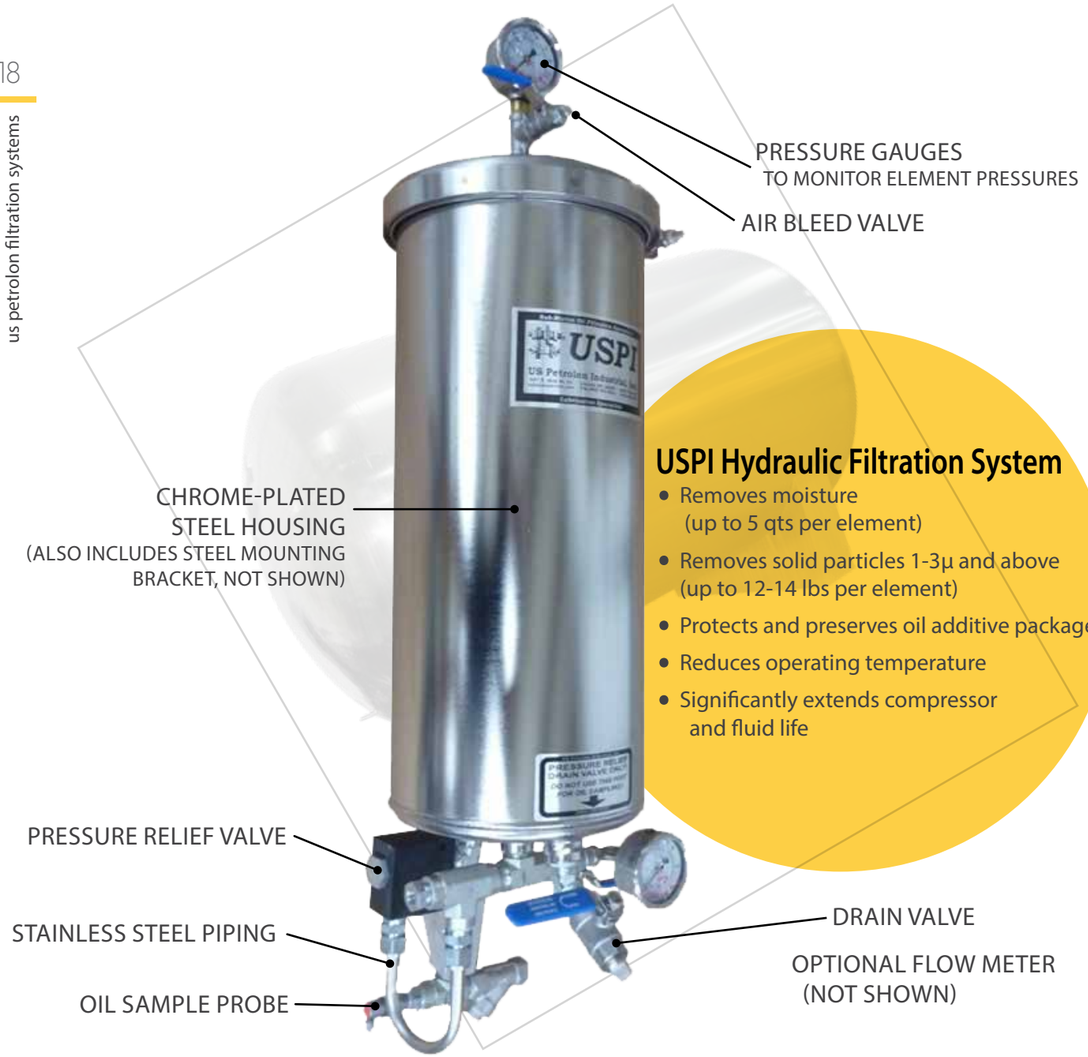
USPI offers a complete line of custom-formulated synthetic lubricants designed for the extreme operating conditions of air compressors. H-1 food grade and non-food grade options are available.

OIL SAMPLING

USPI provides free comprehensive quarterly oil analysis with the purchase of our air compressor lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air and oil filters for air compressors that meet or exceed manufacturer specifications at significantly lower costs.



USPI Hydraulic Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Stationary Filtration for Hydraulic Systems

Your hydraulic systems must perform continuously even when the system has suspended particulate and water in its fluid. Circulating these contaminants (which cause more than 70% of all system downtime) can damage your equipment. Protect your system with ultra-fine water-removing filtration by installing the USPI 1000H/C inline low pressure filtration system.

DIMENSIONS: 12"W x 36"H x 12"D
WEIGHT: ~35lbs

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Hydraulic Filtration System with…

USPI FLUIDS

USPI offers a complete line of custom-formulated lubricants designed for hydraulic systems. H-1 food grade and non-food grade options available.

OIL SAMPLING

USPI provides free comprehensive quarterly oil analysis with the purchase of our hydraukic lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters that meet or exceed manufacturer specifications at significantly lower costs.

USPI Large Engine Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Stationary Filtration for Large Engines

Your engines support critical transportation and electrical infrastructure. They must perform continually with minimal downtime for maintenance, but engines continually ingest contaminants from the air (hard particles and moisture). Protect your engine with ultra-fine filtration by installing the USPI 1000H/C inline low pressure filtration system.

DIMENSIONS: 12”W x 36”H x 12”D
WEIGHT: ~35lbs

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

US Petrolon Inline Filtration
with pump & motor

Vacuum systems • Hydraulic systems
Gearboxes • Turbines • Glycol
Compressors • Pumps
Rotary equipment • Bearings

US Petrolon designs and manufactures ultra-fine water-removing depth filtration systems to extend equipment and lubricant life, saving you time and money.

USPI 88 Series Filtration Systems

- Remove moisture (up to 5 qts per element)
- Remove solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protect and preserve oil additive package
- Reduce operating temperature
- Significantly extend equipment and fluid life

USPI 88S
1 Depth Filter

PHYSICAL DATA
18.25"W x 46"H x 18"D
Weight: 85 lbs

PARTICULATE RETENTION
12-14 lbs typical

WATER RETENTION
5 qts typical

ELECTRICAL SPECS
Motor: 0.3HP or 0.5HP 120V 1Ph
or 230/460V 3Ph
Pressure Relief Valve: 50 or 70 PSI

PUMP SPECS
0.5, 1, or 2 GPM rotary gear
(3500 PSI positive displacement)

USPI 88D
2 Depth Filters

PHYSICAL DATA
24"W x 51"H x 18"D
Weight: 135 lbs

PARTICULATE RETENTION
24-28 lbs typical

WATER RETENTION
10 qts typical

ELECTRICAL SPECS
Motor: 0.3 to 0.75HP 120V 1Ph
Pressure Relief Valve: 50 or 70 PSI

PUMP SPECS
1, 2, 4, or 6 GPM rotary gear
(3500 PSI positive displacement)

USPI 88Q
4 Depth Filters

PHYSICAL DATA
24"W x 67"H x 18"D
Weight: 215 lbs

PARTICULATE RETENTION
48-54 lbs typical

WATER RETENTION
20 qts typical

ELECTRICAL SPECS
Motor: 0.75 to 1.5HP 120V 1Ph
Pressure Relief Valve: 50 to 70 PSI

PUMP SPECS
6 to 12 GPM rotary gear
(3500 PSI positive displacement)

USPI 88SV Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends equipment and fluid life

Stationary Filtration for Vacuum Pumps

Vacuum pumps operate continuously in adverse conditions with moisture and high heat. Water can degrade oil, leading to metal deterioration, high acid and varnish. Wear-causing particulates accelerate wear on vital system parts. These contaminants increase the risk of equipment downtime, labor costs and oil disposal. Protect your vacuum pumps with a dedicated USPI 88SV filtration system.

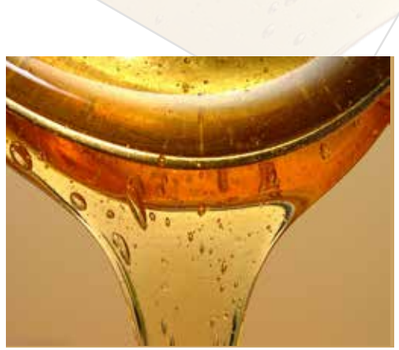
DIMENSIONS: 18.25"W x 46"H x 18"D
WEIGHT: ~85lbs

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Vacuum Pump Filtration System with…



USPI FLUIDS

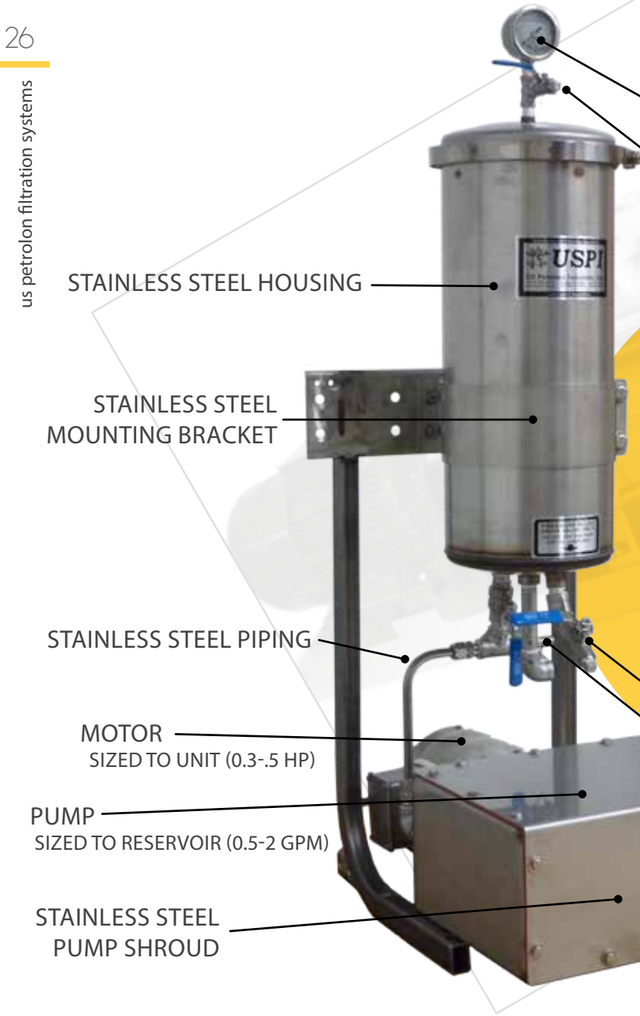
USPI offers a complete line of custom-formulated synthetic lubricants designed to withstand vacuum pump operating temperatures and moisture levels. H-1 food grade and non-food grade options available.

OIL SAMPLING

USPI provides free comprehensive quarterly oil analysis with the purchase of our vacuum pump lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air filters, oil filters, and exhaust filters for vacuum pumps that meet or exceed manufacturer specifications at significantly lower costs.



USPI 88SV-SS Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends equipment and fluid life

Stationary Filtration for Vaccum Washdown

Vacuum pumps operate continuously in adverse conditions with moisture and high heat. In some applications, vacuum pumps must be cleaned by water or caustic chemicals. USPI has designed several stainless steel units to provide dedicated ultra-fine water-removing filtration for critical equipment even in harsh environments.

DIMENSIONS: 18.25"W x 47"H x 23"D
WEIGHT: ~100lbs

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Vacuum Pump Washdown Filtration System with. . .

USPI FLUIDS

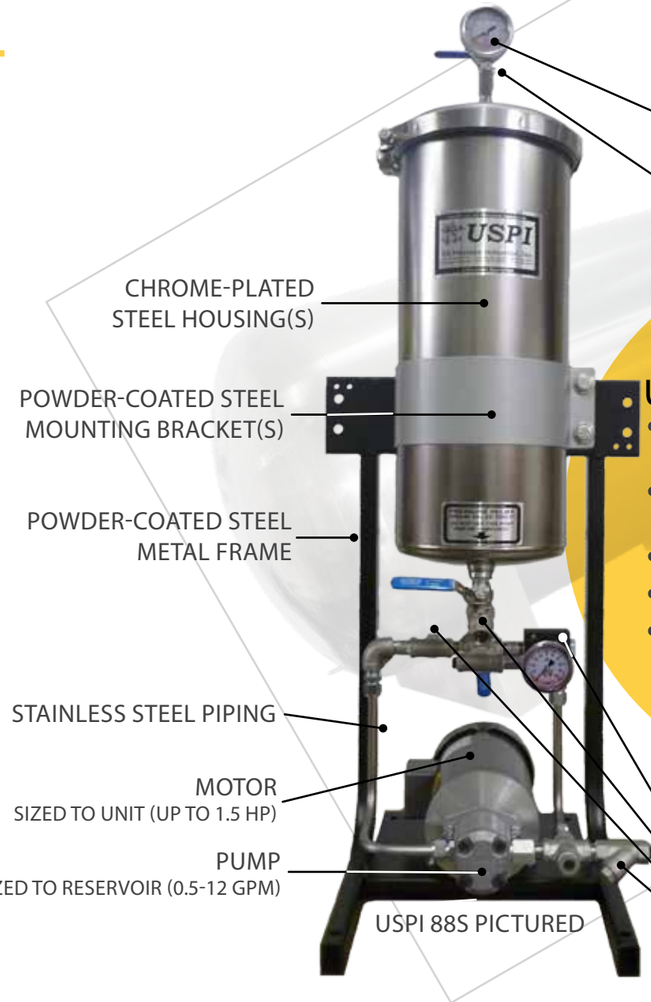
USPI offers a complete line of custom-formulated synthetic lubricants designed to withstand vacuum pump operating temperatures and moisture levels. H-1 food grade and non-food grade options available.

OIL SAMPLING

USPI provides free comprehensive quarterly oil analysis with the purchase of our vacuum pump lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air filters, oil filters, and exhaust filters for vacuum pumps that meet or exceed manufacturer specifications at significantly lower costs.



USPI Hydraulic Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends equipment and fluid life

Stationary Filtration for Hydraulic Reservoirs

Contamination is the enemy of your hydraulic systems. Water can degrade oil, leading to metal deterioration, and wear-causing particulates accelerate wear on vital system parts. These contaminants in hydraulic oil increase equipment downtime, labor costs and oil disposal. Add a dedicated USPI filtration system to your hydraulic systems to eliminate contamination problems and maximize life.

UNITS

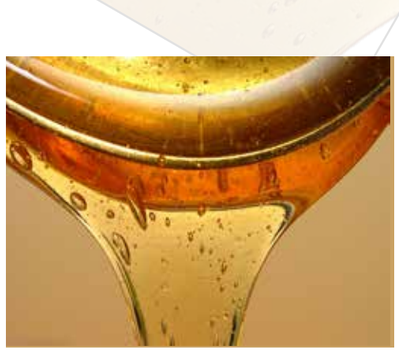
88S for Reservoirs ~ 1-150gal
88D for Reservoirs ~ 151-300gal
88T for Reservoirs ~ 301-450gal
88Q for Reservoirs ~ 451-600gal
88Q+ for Reservoirs ~ 601-1200gal
custom engineered options available

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Hydraulic Filtration System with…



USPI FLUIDS

USPI offers a complete line of custom-formulated lubricants designed to maximize performance in hydraulic systems. H-1 food grade and non-food grade options available.

OIL SAMPLING

USPI provides free comprehensive quarterly oil analysis with the purchase of our hydraulic lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for hydraulic systems that meet or exceed manufacturer specifications at significantly lower costs.

USPI Gearbox Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 3-5µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends equipment and fluid life

Stationary Filtration for Gearboxes

Contamination that leads to machinery failure and downtime is a constant threat in dirty and wet gearboxes. Although gear/lube oils are designed to lubricate and cool the gear surfaces under high pressures, keeping the oil clean is crucial for extending equipment life. Add a dedicated USPI filtration system to your gearbox to eliminate contamination problems and maximize life.

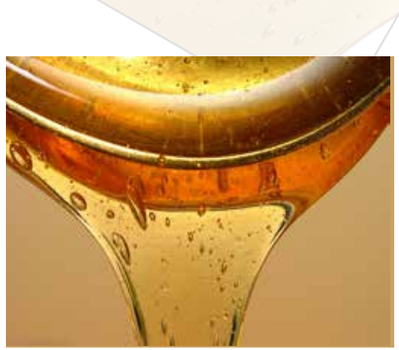
UNITS:
88S for Reservoirs ~ 1-60gal
88D for Reservoirs ~ 60-120gal
88T for Reservoirs ~ 90-180gal
88Q for Reservoirs ~ 120-240gal
88Q+ for Reservoirs ~ 180-480gal
custom engineered options available

USPI GO Filter Element

- Removes solid particles 3-5 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Gearbox Filtration System with…



USPI FLUIDS

USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants designed for the operating conditions found in gearboxes. H-1 food grade and non-food grade options available.

OIL SAMPLING

USPI provides free comprehensive quarterly oil analysis with the purchase of our gearbox lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for gearboxes that meet or exceed manufacturer specifications at significantly lower costs.

USPI 88 Turbine Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends equipment and fluid life

Stationary Filtration for LM Series Turbines

Water and particulate contamination cause 80% of oil-lubricated equipment failures. These contaminants in a turbine system increase the risk and frequency of equipment failure, resulting in downtime, oil usage and disposal, and labor costs. Add a dedicated USPI 88 series filtration system to your turbine systems to eliminate contamination problems.

UNITS:

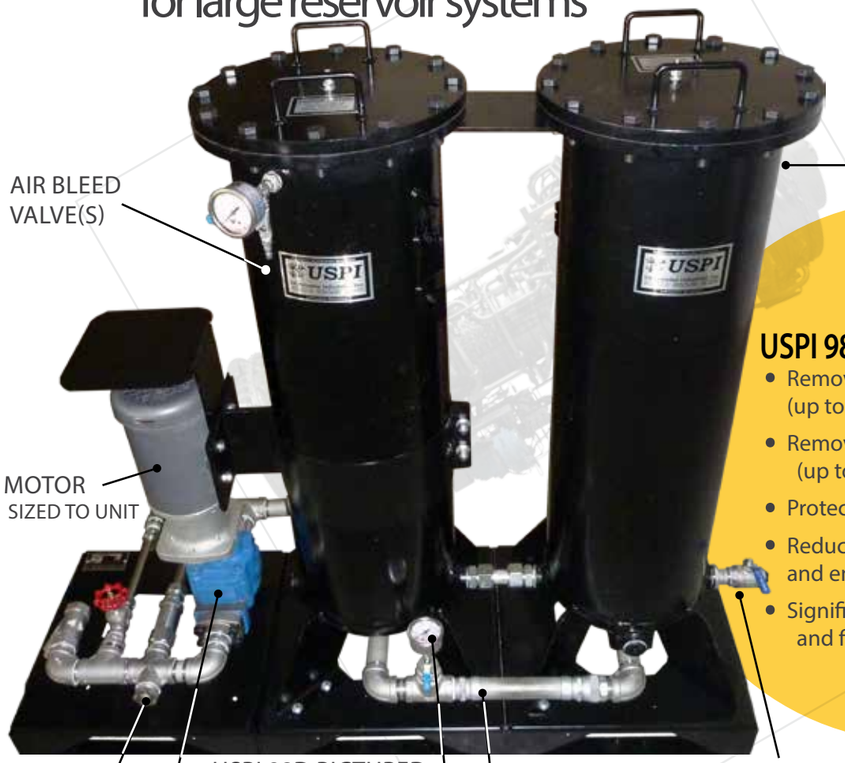
88S for Reservoirs ~10-120 gal
88D for Reservoirs ~ 121-240 gal
88T for Reservoirs ~ 241-360 gal
88Q for Reservoirs ~ 360-720 gal
88Q+ for Reservoirs ~ 721-1200 gal
washdown & custom builds available

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

for large reservoir systems



USPI 98 Turbine Filtration System

- Removes moisture (up to 24 qts per canister)
- Removes solid particles 1-3µ and above (up to 60 lbs per canister)
- Protects oil additive package
- Reduces maintenance costs and energy consumption
- Significantly extends equipment and fluid life

Stationary Filtration for Turbine Systems

Water and particulate contamination cause 80% of oil-lubricated equipment failures. These contaminants in a turbine system increase the risk and frequency of equipment failure, resulting in downtime, oil usage and disposal, and labor costs. Add a dedicated USPI 98 series filtration system to your large reservoir turbine systems to eliminate contamination problems.

UNITS:

98S for Reservoirs ~ 600-1100 gal
98D for Reservoirs ~1100-1900 gal
98T for Reservoirs ~1800-2600 gal
98Q for Reservoirs ~ 2400-3900 gal

USPI 500AFA-3 Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 60 lbs of solid particulate
- Hold up to 24 qts of water
- 40 psid differential life

SOLD SEPARATELY 3/CASE

USPI 88 Glycol Filtration System

- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Reduces maintenance costs and energy consumption
- Significantly extends equipment and fluid life

Stationary Filtration for Glycol Systems

Protect your glycol system from accumulated sludge and solids in the absorber and regeneration equipment. Add a dedicated 88 Glycol series in-line filtration unit to extend your life and significantly lower operating and maintenance costs.

UNITS:

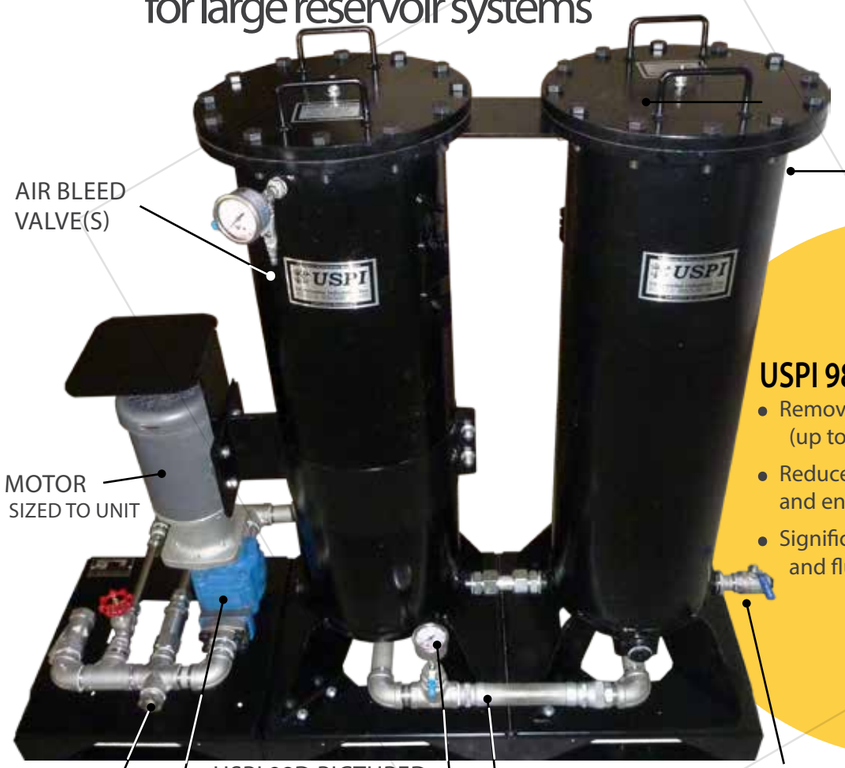
88SG for Reservoirs ~1-120gal
88DG for Reservoirs ~ 121-360 gal
88QG for Reservoirs ~ 361-720 gal
88DG+ for Reservoirs ~ 361-720 gal
88QG+ for Reservoirs ~721-1440 gal

USPI GLY Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element

SOLD SEPARATELY

for large reservoir systems



USPI 98 Glycol Filtration System

- Removes solid particles 1-3µ and above (up to 60 lbs per element)
- Reduces maintenance costs and energy consumption
- Significantly extends equipment and fluid life

Stationary Filtration for Glycol Systems

Protect your glycol system from accumulated sludge and solids in the absorber and regeneration equipment. US Petrolon's 98 series filtration systems are designed for use on large sumps and reservoirs where high flow rates are required.

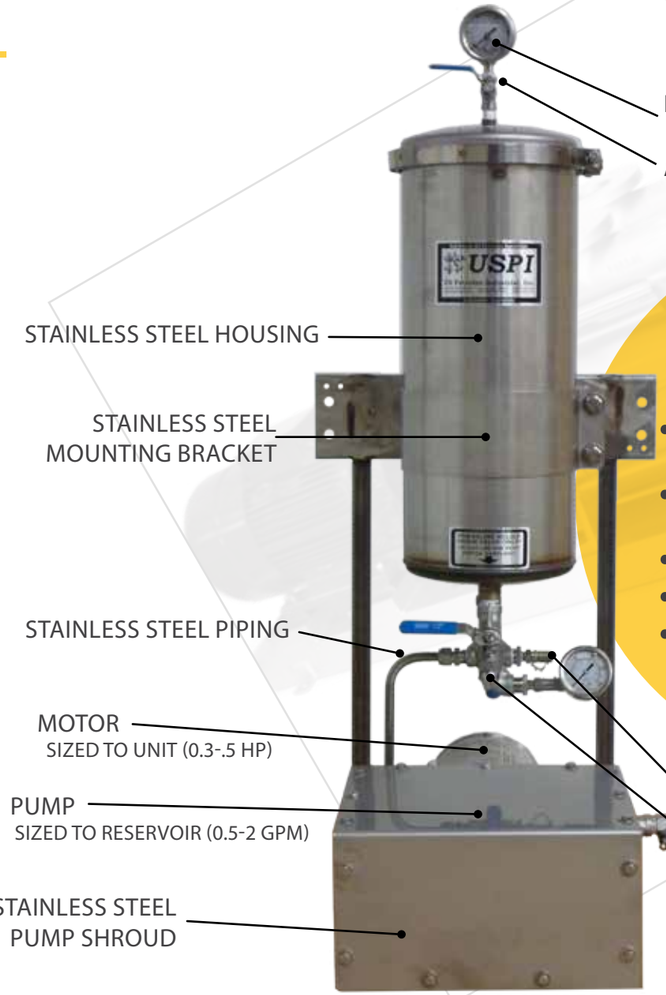
UNITS:

98S for Reservoirs ~ 900-1500 gal
98D for Reservoirs ~1501-2000gal
98T for Reservoirs ~2001-3000gal
98Q for Reservoirs ~3001-4000gal

USPI 500GLY Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 60 lbs of solid particulate
- 40 psid differential life

SOLD SEPARATELY 3/CASE



USPI 88S-SS PICTURED

USPI (Caustic) Washdown Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends equipment and fluid life

Stationary Filtration for (Caustic) Washdown

Food processing equipment continually needs to be cleaned by water or caustic chemicals. USPI has designed several stainless steel units to provide dedicated ultra-fine water-removing filtration for critical equipment even in harsh environments.

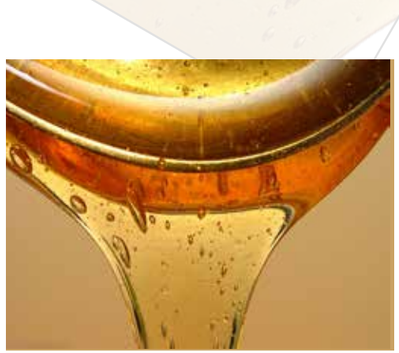
UNITS:
88S-SS for Reservoirs ~1-120gal
88D-SS for Reservoirs ~121-360gal

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI (Caustic) Washdown Filtration System with…



USPI FLUIDS

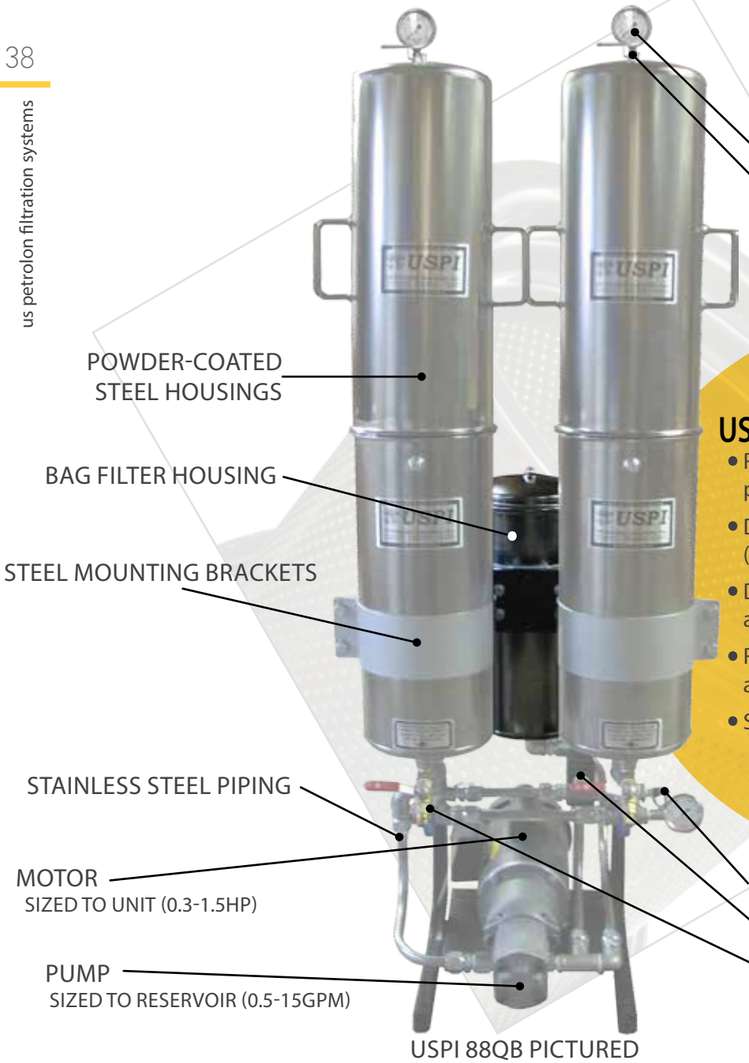
USPI offers a complete line of custom-formulated semi-synthetic and synthetic lubricants for a wide range of industrial applications, from vacuum pumps, to hydraulic systems, gearboxes, and other pumps and presses. H-1 food grade and non-food grade options available.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air filters, oil filters, separator, coalescer, and exhaust filters that meet or exceed manufacturer specifications at significantly lower costs.



USPI 88QB PICTURED

USPI 88 Bag Filtration System

- Removes large contaminants (10-200µ) prior to depth filtration
- Depth filters remove moisture (up to 5 qts per element)
- Depth filters remove solid particles 1-3µ and above (up to 12-14 lbs per element)
- Reduces maintenance costs and energy consumption
- Significantly extends equipment and fluid life

Stationary Filtration for Large Contaminants

Applications that produce large contaminants can quickly overwhelm OEM filters. A dedicated USPI 88 Bag filtration system employs either re-usable or disposable bags to filter large contaminants (10-200 microns) before oil passes through our depth filters to remove both water and small wear causing particulate (1-3 microns).

UNITS:
88SB for Reservoirs ~10-120gal
88DB for Reservoirs ~ 60-360gal
88QB for Reservoirs ~120-720gal

USPI Bag Filter Element

- Removes particles 10-200 microns and larger
- Holds up to 28 lbs of solid particulate per bag
- Re-usable or disposable types

maximize your USPI Large Contaminants Filtration System with…

USPI FLUIDS

USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants for a wide range of industrial applications, from hydraulic systems to gearboxes and other pumps and presses. H-1 food grade and non-food grade options available.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

AFA FILTERS

US Petrolon's depth filter elements remove water as well as contaminants 1-3 microns and greater while protecting the fluid's additive package.

US Petrolon Inline Filtration
for large reservoirs

US Petrolon designs and manufactures ultra-fine water-removing depth filtration systems to extend equipment and lubricant life, saving you time and money.

Our 98 series will provide filtration in any application and serves reservoirs larger than 300 gallons.

USPI 98 Series Filtration Systems

- Remove moisture (up to 24 qts per canister)
- Remove solid particles 1-3µ and above (up to 60 lbs per canister)
- Protect and preserve oil additive package
- Reduce operating temperature
- Significantly extend equipment and fluid life

USPI 98S

1 Canister / 3 Depth filters
Reservoirs ~ 300-1200 gal (depending on fluid)

PHYSICAL DATA
20”W x 55”H x 20”D
Weight: 185 lbs

PARTICULATE RETENTION
60 lbs typical

WATER RETENTION
24 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
6 or 10 GPM rotary gear
(3500 PSI positive displacement)

USPI 98D

2 Canisters / 6 Depth filters
Reservoirs ~ 600-1900 gal (depending on fluid)

PHYSICAL DATA
40”W x 55”H x 40”D OR
20”W x 55”H x 60”D
Weight: 350 lbs

PARTICULATE RETENTION
120 lbs typical

WATER RETENTION
48 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
10 or 22 GPM rotary gear
(3500 PSI positive displacement)

USPI 98T

3 Canisters / 9 Depth filters
Reservoirs ~ 900-2600 gal (depending on fluid)

PHYSICAL DATA
40”W x 55”H x 40”D OR
20”W x 55”H x 80”D
Weight: 750 lbs

PARTICULATE RETENTION
180 lbs typical

WATER RETENTION
72 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
15 or 30 GPM rotary gear
(3500 PSI positive displacement)

USPI 98Q

4 Canisters / 12 Depth filters
Reservoirs ~1200-3300 gal (depending on fluid)

PHYSICAL DATA
40”W x 55”H x 60”D OR
20”W x 55”H x 100”D
Weight: 950 lbs

PARTICULATE RETENTION
240 lbs typical

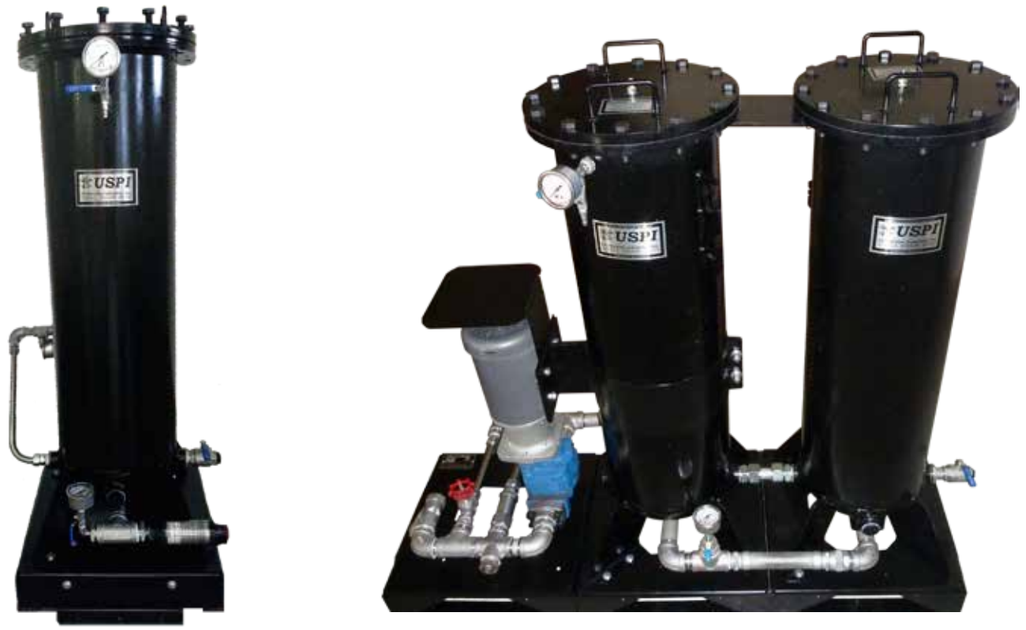
WATER RETENTION
96 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
22 or 44 GPM rotary gear
(3500 PSI positive displacement)

Inline Filtration for Large Reservoirs

Our 98 series will provide filtration in any application and serves reservoirs larger than 300 gallons.



USPI 98S

1 Canister / 3 Depth filters
Reservoirs ~ 300-1200 gal (depending on fluid)

PHYSICAL DATA
20”W x 55”H x 20”D
Weight: 185 lbs

PARTICULATE RETENTION
60 lbs typical

WATER RETENTION
24 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
6 or 10 GPM rotary gear
(3500 PSI positive displacement)

USPI 98D

2 Canisters / 6 Depth filters
Reservoirs ~ 600-1900 gal (depending on fluid)

PHYSICAL DATA
40”W x 55”H x 40”D or
20”W x 55”H x 60’D
Weight: 350 lbs

PARTICULATE RETENTION
120 lbs typical

WATER RETENTION
48 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
10 or 22 GPM rotary gear
(3500 PSI positive displacement)

Inline Filtration for Large Reservoirs

Our 98 series will provide filtration in any application and serves reservoirs larger than 300 gallons.

USPI 98T

3 Canisters / 9 Depth filters
Reservoirs ~ 900-2600 gal (depending on fluid)

PHYSICAL DATA
40”W x 55”H x 40”D or
20”W x 55”H x 80’D
Weight: 750 lbs

PARTICULATE RETENTION
180 lbs typical

WATER RETENTION
72 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
15 or 30 GPM rotary gear
(3500 PSI positive displacement)

USPI 98Q

4 Canisters / 12 Depth filters
Reservoirs ~ 1200-3300 gal (depending on fluid)

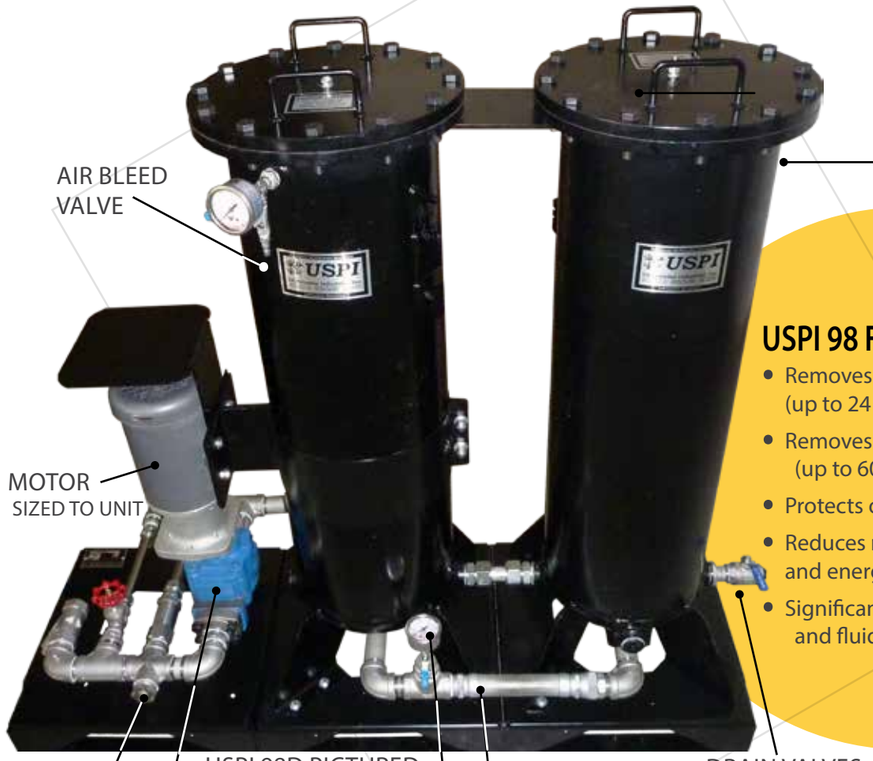
PHYSICAL DATA
40”W x 55”H x 60”D or
20”W x 55”H x 100’D
Weight: 950 lbs

PARTICULATE RETENTION
240 lbs typical

WATER RETENTION
96 quarts typical

ELECTRICAL SPECS
Motor: TEFC, Washdown, XP 3Ph

PUMP SPECS
22 or 44 GPM rotary gear
(3500 PSI positive displacement)



USPI 98 Filtration Systems

- Removes moisture (up to 24 qts per canister)
- Removes solid particles 1-3µ and above (up to 60 lbs per canister)
- Protects oil additive package
- Reduces maintenance costs and energy consumption
- Significantly extends equipment and fluid life

ON BACK/NOT SHOWN:
FLOW METER
SIZED TO UNIT (1-50 GPM)
OIL SAMPLING PORT

Stationary Filtration for Large Reservoirs

Large capacity reservoirs can accumulate large amounts of contaminants and water, circulating them through all connected equipment. US Petrolon's 98 series filtration systems are designed for use on large sumps and reservoirs where high flow rates are required. Protect your valuable equipment with ultra-fine water-removing filtration.

UNITS:
98S for Reservoirs ~ 300-1200* gal
98D for Reservoirs ~ 600-1900* gal
98T for Reservoirs ~ 900-2600* gal
98Q for Reservoirs ~1200-3300* gal
* sizing depends on fluid type

USPI 500AFA-3 Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 60 lbs of solid particulate per canister
- Hold up to 24 qts of water per canister
- 40 psid differential life

SOLD SEPARATELY 3/CASE

maximize your USPI Large Reservoir Filtration System with. . .

USPI FLUIDS

USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants for a wide range of industrial applications, from vacuum pumps and hydraulic systems to gearboxes, and other pumps and presses. H-1 food grade and non-food grade options are available.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM air, oil, and exhaust replacement filters that meet or exceed manufacturer specifications at significantly lower costs.

US Petrolon Portable Filtration

Reclamation • Reservoirs
Gearboxes • Fluid transfer

Through oil reclamation, US Petrolon portable filtration units help to minimize the environmental impact of manufacturing plants while preserving assets. Filtration extends both equipment and fluid life, saving money, reducing workload and lowering potential equipment wear.

USPI Portable Filtration Systems

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reclaims captured oil for re-use
- Significantly extends compressor and fluid life

USPI 87SA

1 Depth filter
Reservoirs ~1-120 gal

PHYSICAL DATA
18.25”W x 46.25”H x 26”D
Weight: 85 lbs

PARTICULATE RETENTION
12-14 lbs typical

WATER RETENTION
5 quarts typical

ELECTRICAL SPECS
Motor: 0.5HP 120V 1Ph
High/Low Pressure Shutoff
Low Voltage Protection

PUMP SPECS
2 GPM rotary gear
(3500 PSI positive displacement)

USPI 87DA

2 Depth filters
Reservoirs ~1-360 gal

PHYSICAL DATA
24.5”W x 46.25”H x 26”D
Weight: 135 lbs

PARTICULATE RETENTION
24-28 lbs typical

WATER RETENTION
10 quarts typical

ELECTRICAL SPECS
Motor: 0.75HP 120V 1Ph
High/Low Pressure Shutoff
Low Voltage Protection

PUMP SPECS
6 GPM rotary gear
(3500 PSI positive displacement)

USPI 87QA

4 Depth filters
Reservoirs ~ 361-720 gal

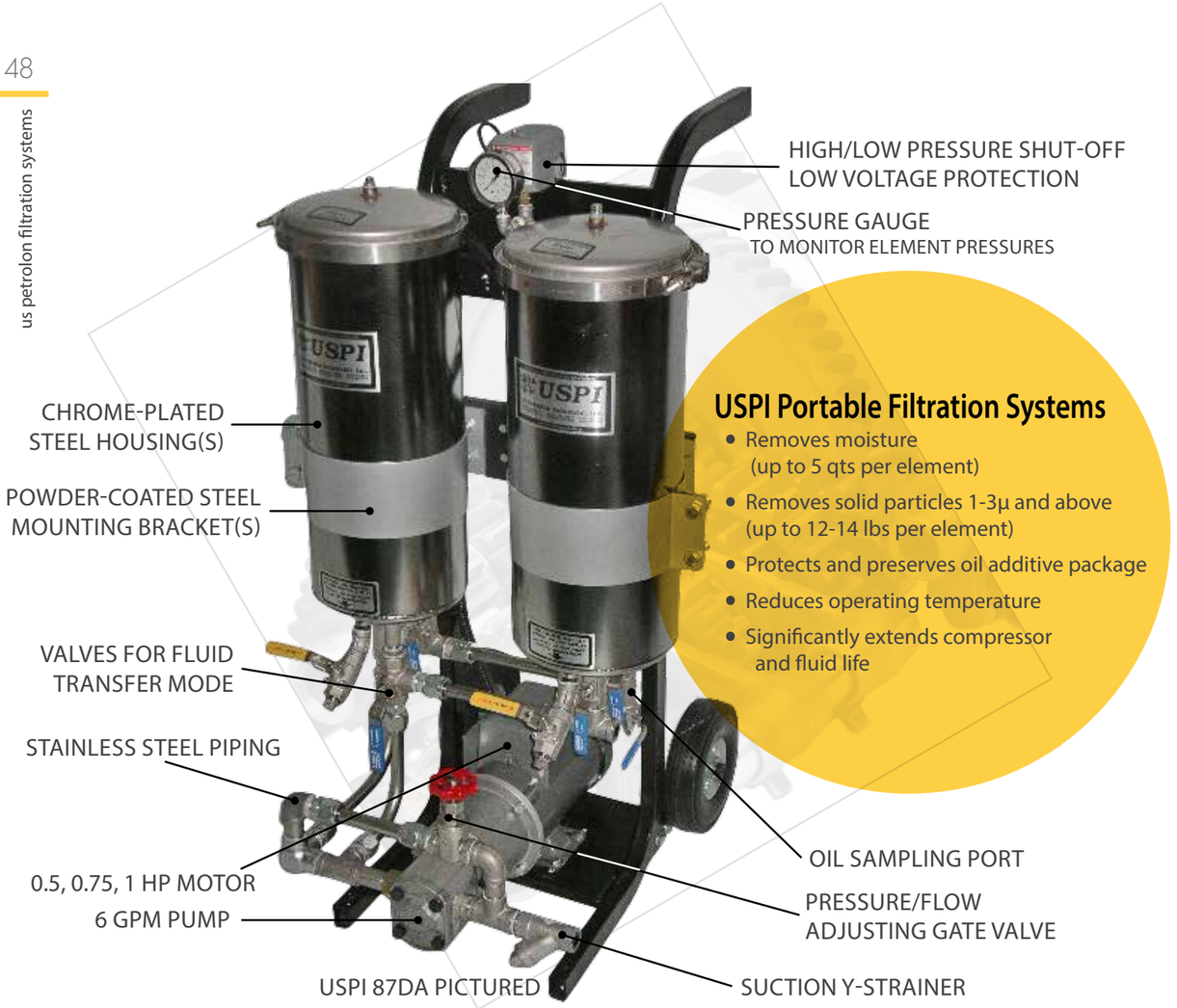
PHYSICAL DATA
26”W x 73”H x 26”D
Weight: 215 lbs

PARTICULATE RETENTION
48-56 lbs typical

WATER RETENTION
20 quarts typical

ELECTRICAL SPECS
Motor: 1HP 120V 1Ph
High/Low Pressure Shutoff
Low Voltage Protection

PUMP SPECS
12 GPM rotary gear
(3500 PSI positive displacement)



USPI Portable Filtration Systems

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Portable Filtration for Reclamation

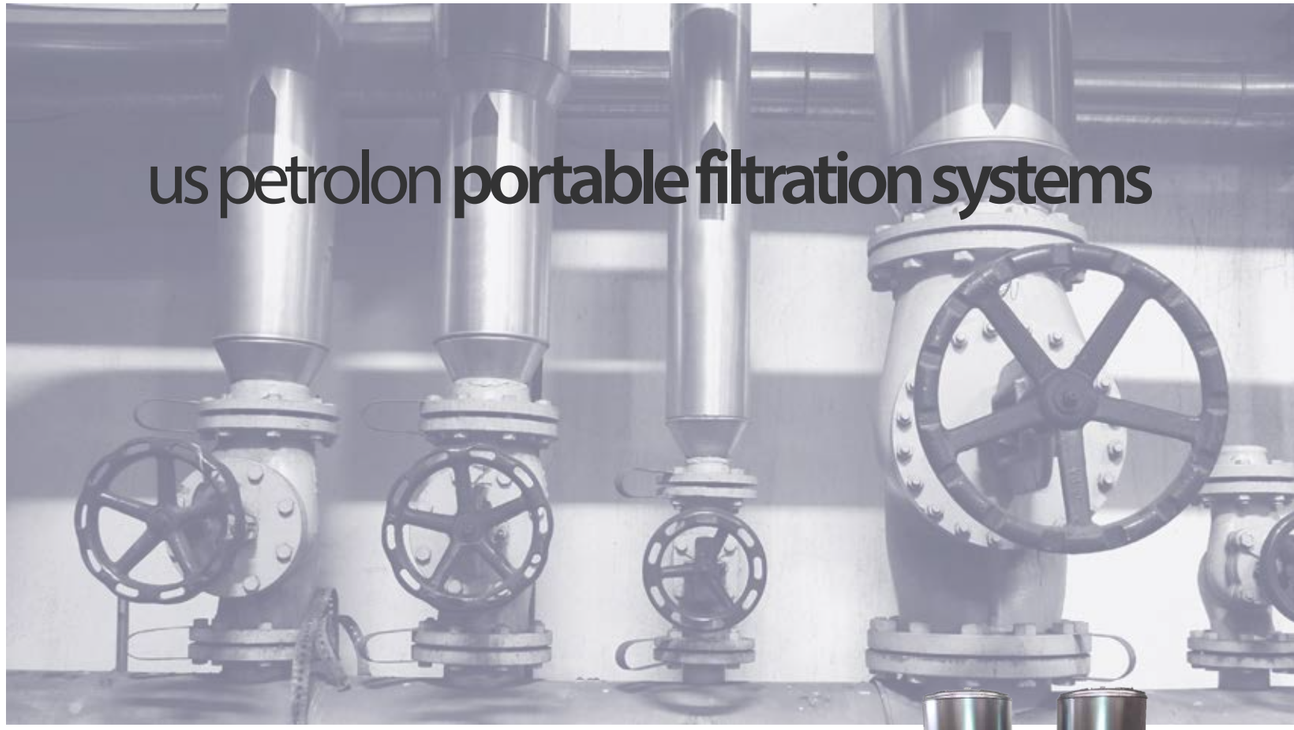
US Petrolon's portable filtration systems are easily transported throughout plant environments to handle tough reclamation and transfer jobs. Designed to run unattended, the unit uses depth filter elements to polish waste oil to cleaner-than-new levels. In bypass mode, the unit can also transfer fluids from one reservoir to another.

HOSES: (2) 3/4" x 10' 501 PSI 210F Rated
DIMENSIONS: varies by unit
WEIGHT: varies by unit

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY



us petrolon portable filtration systems

USPI 87SA

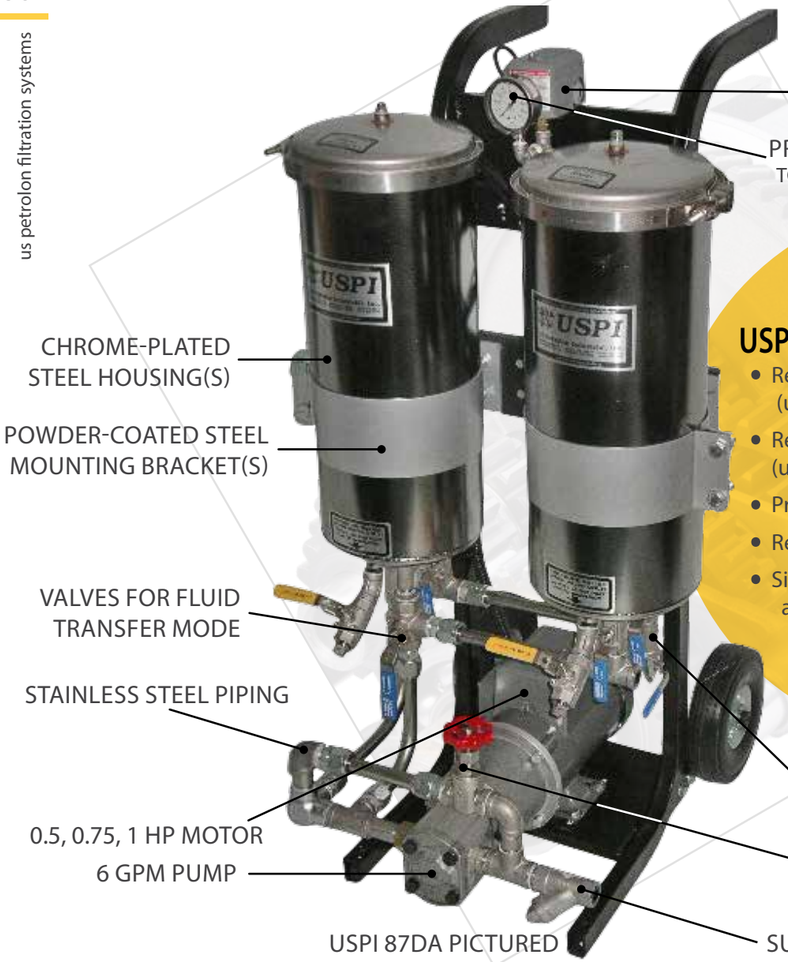
For Reservoirs ~ 1-60 gal
DIMENSIONS:
18.25"W x 46.25"H x 26"D
WEIGHT: 85 lbs.

USPI 87DA

For Reservoirs ~ 1-360 gal
DIMENSIONS:
24.5"W x 46.25"H x 26"D
WEIGHT: 135 lbs.

USPI 87QA

For Reservoirs ~ 361-720 gal
DIMENSIONS:
26"W x 73"H x 26"D
WEIGHT: 215 lbs.



USPI Portable Filtration Systems

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Portable Filtration for Reclamation

US Petrolon's portable filtration systems are easily transported throughout plant environments to handle tough reclamation and transfer jobs. Designed to run unattended, the unit uses depth filter elements to polish waste oil to cleaner-than-new levels. In bypass mode, the unit can also transfer fluids from one reservoir to another.

UNITS:
87SA for Reservoirs ~ 1-60 gal
87DA for Reservoirs ~ 1-360 gal
87QA for Reservoirs ~ 361-720 gal
units come with (2) 10ft. 3/4" hoses

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Portable Filtration System with…

USPI FLUIDS

USPI's complete line of custom-formulated semi-synthetic and synthetic lubricants are a perfect compliment to a reclamation program. Our high-quality lubricants stay in-grade, and with USPI filtration and reclamation can remain in use at your plant for years.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM air, oil, coalescer and exhaust replacement filters that meet or exceed manufacturer specifications at significantly lower costs.

PRESSURE GAUGES
TO MONITOR ELEMENT PRESSURES

MOTOR
0.3HP 1PH OR 1.8HP AIR

PUMP
0.5-2 GPM

POWDER-COATED
STEEL HOUSING

DRAIN VALVE

ON BACK/NOT SHOWN:
FLOW METER
SIZED TO UNIT (0-5 GPM)
SS 60 MESH Y-STRAINER

STAINLESS STEEL PIPING

OIL SAMPLING PORT

USPI 150HH-EM PICTURED

USPI Handheld Filtration System

- Removes moisture (up to 1 qt per element)
- Removes solid particles 1-3µ and above (up to 4 lbs per element)
- Protects and preserves oil additive package
- Reclaims oil to reduce oil purchases and disposal costs
- Reduces environmental footprint

Handheld Filtration for Small Reservoirs

USPI Handheld filtration systems are portable units for on-site preventative fluid maintenance, uniquely designed for filtering both low and high viscosity fluids. There are hundreds of applications suited for the USPI 150HH, ranging from hydraulic reservoirs, gearboxes, injection molders, construction and mining equipment, turbines, or collected dirty fluids.

UNITS:
150HH-EM: 0.3HP Electric motor
150HH-AM: 1.8HP Air motor
custom build options available
- explosion proof - washdown

USPI 150 Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 4 lbs of solids per element
- Holds up to 1 qt of water per element
- Specific elements for different applications

SOLD SEPARATELY

USPI 150HH-EM

0.3HP Electric Motor
DIMENSIONS:
12”W x 29.5”H x 17.5”D
WEIGHT: ~49 lbs.

USPI 150HH-AM

1.8HP Air Motor
DIMENSIONS:
12”W x 29.5”H x 19”D
WEIGHT: ~45 lbs.

USPI 150HH-XP

0.3HP Explosion-proof Elec. Motor
DIMENSIONS:
12.5”W x 29.5”H x 19”D
WEIGHT: ~73 lbs.

PRESSURE GAUGES
TO MONITOR ELEMENT PRESSURES

MOTOR
0.3HP 1PH OR 1.8HP AIR
PUMP
0.5-2 GPM

POWER COATED
STEEL HOUSING

DRAIN VALVE

ON BACK/NOT SHOWN:
FLOW METER
SIZED TO UNIT (0-5 GPM)
SS 60 MESH Y-STRAINER

STAINLESS STEEL PIPING

OIL SAMPLING PORT

USPI 150HH-EM PICTURED

USPI Handheld Filtration System

- Removes moisture (up to 1 qt per element)
- Removes solid particles 1-3µ and above (up to 4 lbs per element)
- Protects and preserves oil additive package
- Reclaims oil to reduce oil purchases and disposal costs
- Reduces environmental footprint

Hand-Held Filtration for Small Reservoirs

USPI Handheld filtration systems are portable units for on-site preventative fluid maintenance, uniquely designed for filtering both low and high viscosity fluids ranging from water emulsion fluids to petroleum-based gear oils. There are hundreds of applications suited for the USPI 150HH, ranging from hydraulic reservoirs, gearboxes, injection molders, construction and mining equipment, turbines, or a drum or tote of collected dirty fluids.

UNITS:
150HH-EM: 0.3HP Electric motor
150HH-AM: 1.8HP Air motor
custom build options available
- explosion proof - washdown

USPI 150 Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 4 lbs of solids per element
- Holds up to 1 qt of water per element
- Specific elements for different applications

SOLD SEPARATELY

maximize your USPI Handheld Filtration System with…

USPI FLUIDS

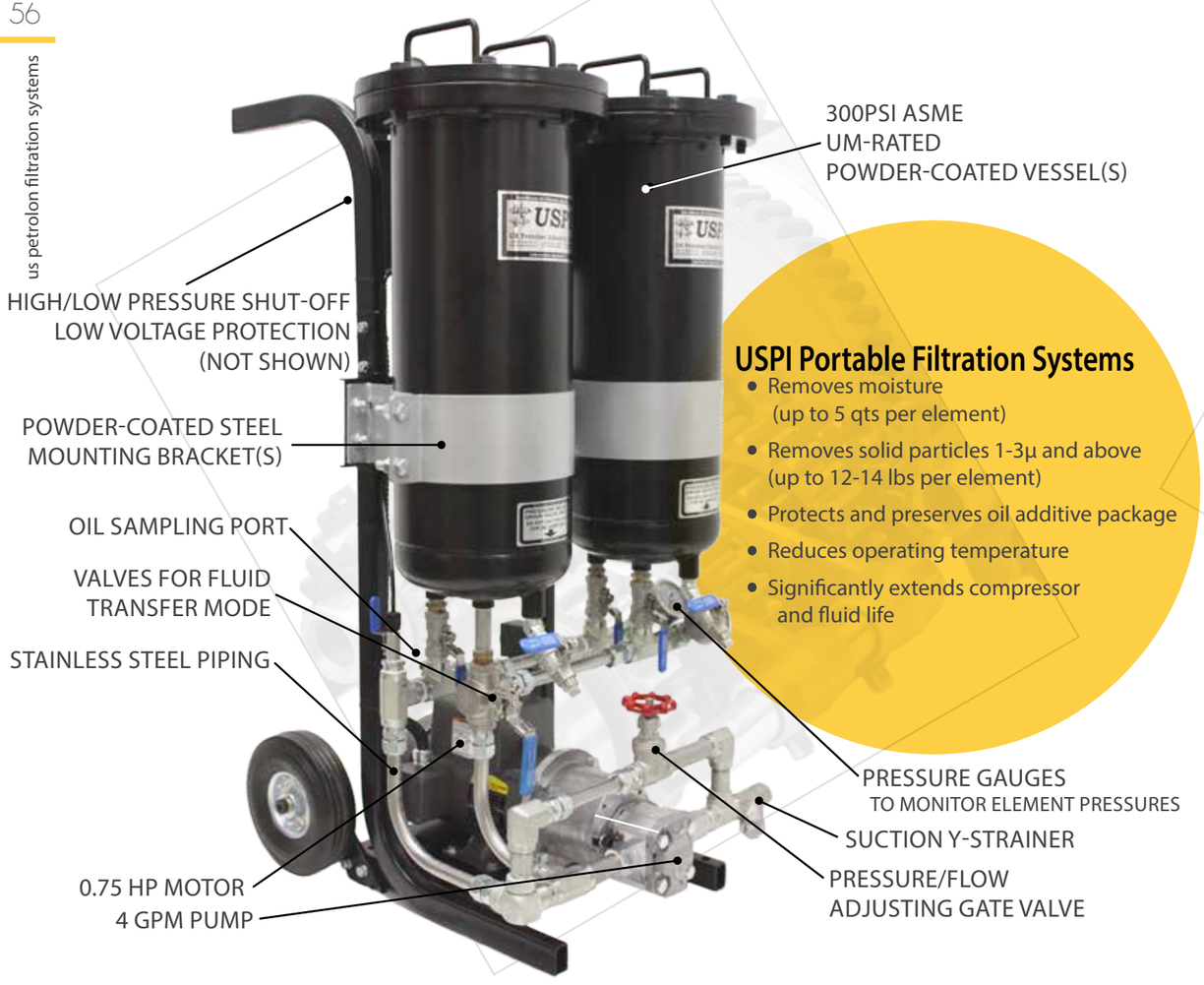
USPI's complete line of custom-formulated semi-synthetic and synthetic lubricants are a perfect compliment to a reclamation program. Our high-quality lubricants stay in-grade, and with USPI filtration and reclamation can remain in use at your plant for years.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM air, oil, coalescer and exhaust replacement filters that meet or exceed manufacturer specifications at significantly lower costs.



USPI Portable Filtration Systems

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

Portable Filtration for Refrig. Compressors

The D1007AMM is easily wheeled to otherwise waste drums of ammonia oil and pressurized or pumped down NH3 screw or recip compressor reservoirs requiring filtration. The unit is designed to run unattended, using its depth filter elements to polish waste or compressor ammonia oil to cleaner-than-new levels. In bypass mode, the unit can also transfer fluids from one reservoir to another.

DIMENSIONS: 24"W x 42"H x 26"D
WEIGHT: ~250lbs

USPI AFA Series Filter Element

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solids per element
- Holds up to 5 qts of water per element

SOLD SEPARATELY

maximize your USPI Portable Filtration System with…

USPI FLUIDS

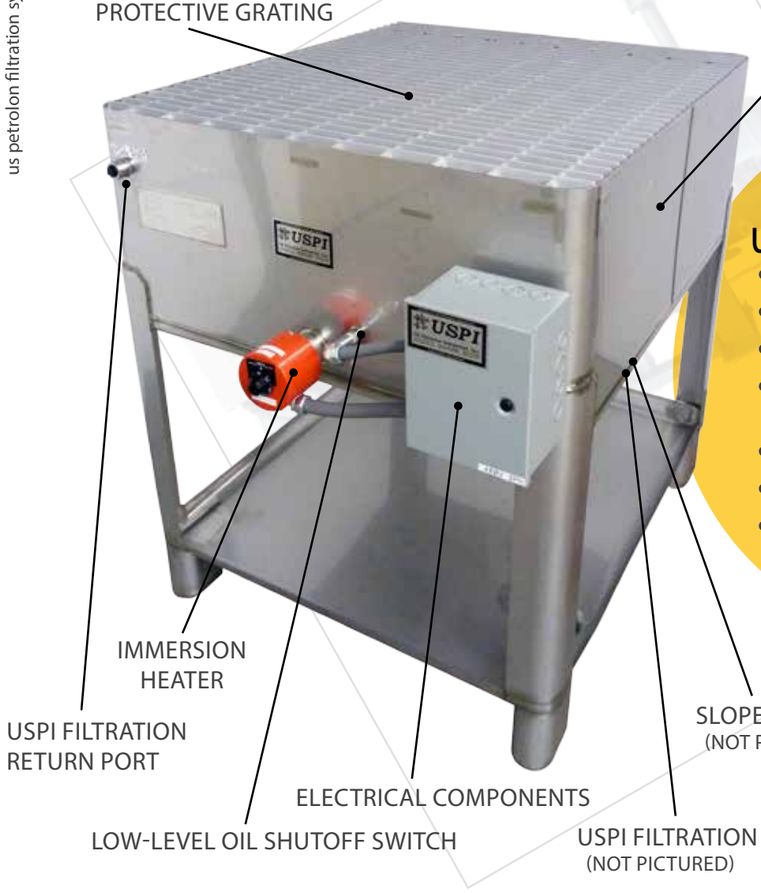
USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants designed for long-term use in refrigeration compressors. Fluids for low temperature operation are also available.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for refrigeration compressors that meet or exceed manufacturer specifications at significantly lower costs.



USPI Reclamation Distiller

- Removes excessive moisture
- Removes solid wear-causing particulate
- Protects and preserves oil additive package
- Immersion heater aids separation and filtration processes
- Reduces new oil purchases
- Reduces oil disposal costs
- Helps to achieve sustainability goals

Stationary Filtration **Reclamation Distiller**

The USPI Reclamation Distiller is specifically designed to be combined with USPI filtration systems to efficiently filter oils that are heavily contaminated with solids and water. Filtering heavily contaminated oils to cleaner-than-new condition would normally consume filter elements at a high rate. Separation and pre-filtration with the USPI Reclamation Distiller overcomes this problem. Use the Reclamation Distiller with USPI filtration systems to reclaim and recycle your heavily contaminated waste oils, helping to reduce your oil purchases and disposal costs by up to 80%.

DIMENSIONS: 48”W x 52”H x 48”D
WEIGHT: ~450lbs (excluding oil)

maximize your **USPI Reclamation Distiller with…**

USPI**FLUIDS**

USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants designed for long-term use in refrigeration compressors. Fluids for low temperature operation are also available.

OIL**SAMPLING**

USPI recommends comprehensive quarterly oil analysis with all our filtration systems and industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

USPI**PORTABLE**

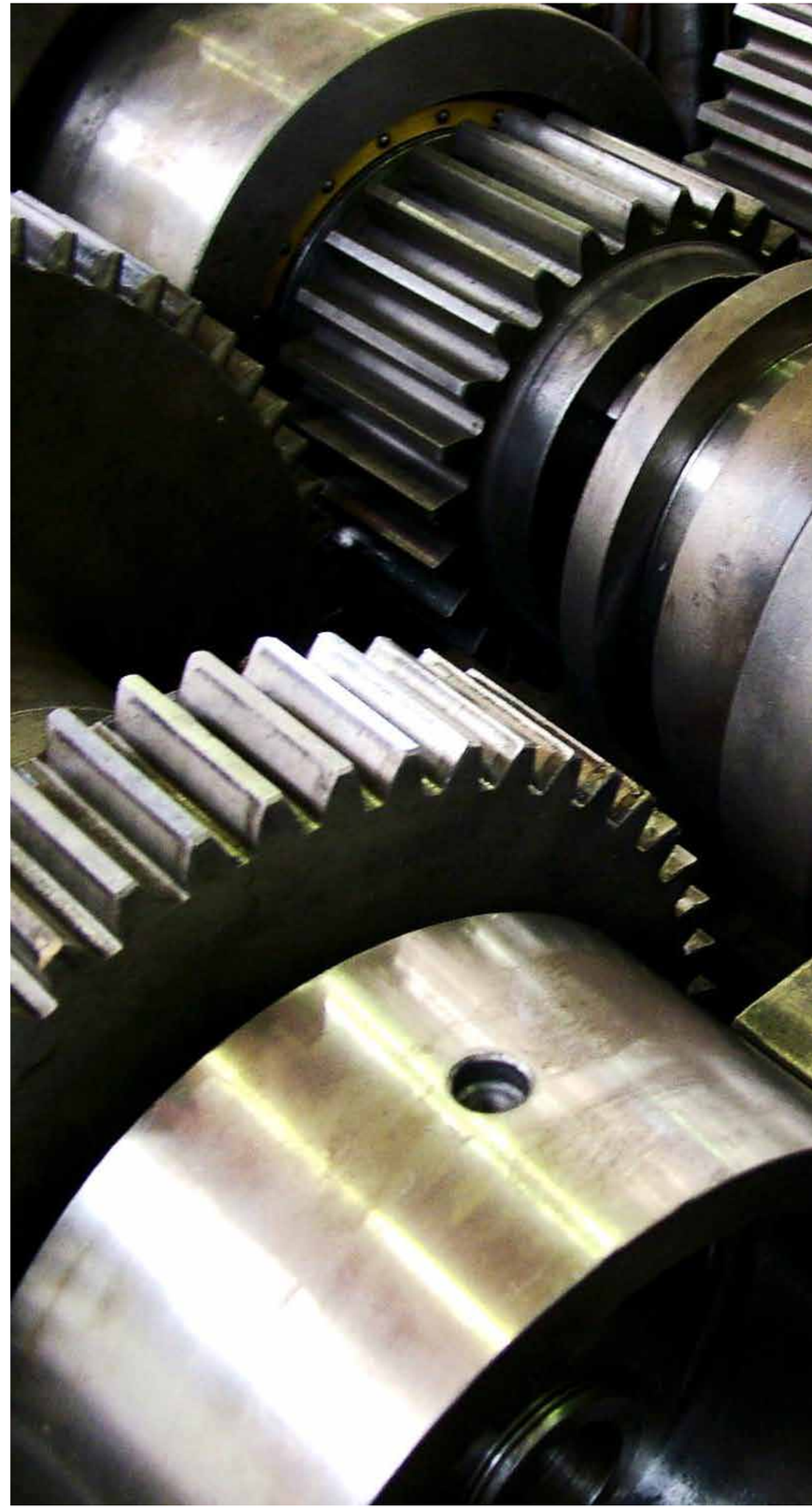
US Petrolon’s portable filtration systems are easily transported to handle tough reclamation and transfer jobs. Designed to run unattended, the unit uses depth filter elements to polish waste oil to cleaner-than-new levels.

LUBRICANTS

US Petrolon **Industrial Lubricants**

semi-synthetic + synthetic lubricants

US Petrolon offers a complete line of custom-formulated synthetic and semi-synthetic **industrial lubricants** for a wide range of applications.



USPI 1009-68SC Compressor Fluid

Ammonia Refrigeration Applications

USPI-1009-68SC is a custom blended, chemically inert, semi-synthetic lubricant. It is uniquely formulated with a seal-conditioning agent to minimize leaks due to poor elastomer performance. It also contains additives for oxidation inhibition, corrosion protection, pour point depression, and foam reduction. This fluid is widely used for applications where the lubricant is subjected to harsh chemical environments, such as the demanding conditions found in ammonia refrigeration applications. USPI-1009-68SC may not perform as well where elastomers are mechanically damaged or chemically changed due to poor maintenance practices.

APPLICATIONS

- Lubricant/coolant for ammonia refrigeration applications. Especially effective in combating corrosion and promoting long life in ammonia compressors.
- Lubricant/coolant for process gas rotary screw and reciprocating compressors.
- Lubricant for systems exhibiting leaks due to poor elastomer performance.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	64.9
Viscosity @ 100°C, cSt	8.9
Viscosity @ 100°F, SUS	337
Viscosity @ 210°F, SUS	56.2
Viscosity Index, ASTM D2270	111
Density, lb/gal, 60°F, ASTM D4052	7.24
Pour Point °F (°C), ASTM D97	-38 (-39)
Flash Point, C.O.C., °F (°C), ASTM D92	465 (240)
Fire Point, C.O.C., °F (°C), ASTM D92	515 (268)
Specific Gravity, ASTM D4052	0.868

* These values are not intended for use in preparing specifications.

Dated revised: 7/10

maximize your USPI 1009-68SC Fluid with. . .

USPI UNITS

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM oil and coalescer replacement filters that meet or exceed manufacturer specifications at significantly lower costs.

USPI **ALT-68SC Compressor Fluid**

Ammonia Refrigeration Applications

USPI ALT-68 SC is a custom blended highly refined, chemically inert, synthetic lubricant. It is uniquely formulated with a seal conditioning agent to minimize leaks due to poor elastomer performance. It contains additives for oxidation inhibition, corrosion protection, pour point depression, and defoaming. This fluid is designed for applications that require extra low temperature protection. This fluid is widely used for applications where the lubricant is subjected to harsh chemical environments, such as the demanding conditions found in ammonia refrigeration applications. USPI ALT-68 SC may not perform as well where elastomers are mechanically damaged or chemically changed due to poor maintenance practices.

APPLICATIONS

- Lubricant/coolant for ammonia refrigeration applications when the evaporator temperature drops below -45°F. Especially effective in combating corrosion and promoting long life in ammonia compressors.
- Lubricant/coolant for process gas rotary screw and reciprocating compressors.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	68.39
Viscosity @ 100°C, cSt	9.91
Viscosity @ 100°F, SUS	353.8
Viscosity @ 210°F, SUS	59.8
Viscosity Index, ASTM D2270	128
Density, lb/gal, 60°F, ASTM D4052	7.09
Pour Point °F (°C), ASTM D97	-60 (-51)
Flash Point, C.O.C., °F (°C), ASTM D92	515 (268.3)
Fire Point, C.O.C., °F (°C), ASTM D92	530 (276.7)

* These values are not intended for use in preparing specifications.

Dated revised: 12/11

maximize your **USPI ALT-68SC Fluid with. . .**

USPI**UNITS**

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL**SAMPLING**

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OEM**FILTERS**

USPI offers OEM oil and coalescer replacement filters that meet or exceed manufacturer specifications at significantly lower costs.

USPI **AIR 46 Compressor Fluid**

Air Compressor Applications

USPI AIR 46 is a custom blended polyol ester (POE) long life synthetic lubricant. It is ideal for rotary screw compressor applications where oil is exposed to elevated temperatures for extended periods of time. Accelerated tests show USPI-AIR-46 has at least four times the life of conventional diester oils.

USPI AIR 46 is especially advantageous in high temperature applications. It does not leave varnish or sludge when it oxidizes like polyalphaolefin (PAO) or mineral oil based products do.

USPI AIR 46 is readily biodegradable. Small amounts of this oil spilled or leaked onto the ground will not adversely affect the environment. Disposal of this fluid should be done in accordance with local, state, and federal regulations.

USPI AIR 46 is high quality basestock coupled with state of the art additive technology that results in performance improvements beyond mineral oil and other synthetic air compressor lubricants.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	49.6
Viscosity @ 100°C, cSt	7.45
Viscosity @ 100°F, SUS	54.9
Viscosity @ 210°F, SUS	7.63
Viscosity Index, ASTM D2270	113
Density, lb/gal, 60°F, ASTM D4052	7.93
Pour Point °F (°C), ASTM D97	-40 (-40)
Flash Point, C.O.C., °F (°C), ASTM D92	550 (288)

* These values are not intended for use in preparing specifications.

Dated revised: 8/11

maximize your **USPI AIR 46 Compressor Fluid with…**

USPI**UNITS**

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL**SAMPLING**

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM**FILTERS**

USPI offers OEM replacement air and oil filters for air compressors that meet or exceed manufacturer specifications at significantly lower costs.

USPI **FG AIR 46 Compressor Fluid**

Food Grade Air Compressor Applications

USPI FG AIR 46 is a custom blended polyalphaolefin (PAO) synthetic hydrocarbon fluid giving improved lubrication at high and low temperatures, reduced volatility, good chemical inertness and hydrolytic stability, and compatibility with mineral oils and equipment designed for use with mineral oils.

USPI FG AIR 46 is a long life lubricant formulated especially for flooded screw compressors. Other viscosities are available for specific applications.

USPI FG AIR 46 complies with FDA 21 CFR 178.3570—lubricants with incidental food contact.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	46.9
Viscosity @ 100°C, cSt	7.9
Viscosity @ 100°F, SUS	51.5
Viscosity @ 210°F, SUS	8.13
Viscosity Index, ASTM D2270	139
Density, lb/gal, 60°F, ASTM D4052	6.91
Pour Point °F (°C), ASTM D97	-44 (-42)
Flash Point, C.O.C., °F (°C), ASTM D92	475 (246)
Fire Point, C.O.C., °F (°C), ASTM D92	525 (273)
Specific Gravity, ASTM D4052	0.829

* These values are not intended for use in preparing specifications.

Dated revised: 8/11

maximize your **USPI FG AIR 46 Compressor Fluid with. . .**

USPI**UNITS**

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OIL**SAMPLING**

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OEM**FILTERS**

USPI offers OEM replacement air and oil filters for air compressors that meet or exceed manufacturer specifications at significantly lower costs.

USPI MAX FG AIR 46 Compressor Fluid

Food Grade Air Compressor Applications

USPI MAX FG AIR 46 is a custom blended food grade PAO/Ester long life synthetic lubricant. It is ideal for high temperature applications where oil is exposed to elevated temperatures for extended periods of time.

USPI MAX FG AIR 46 utilizes high quality basestocks coupled with state of the art additive technology resulting performance improvements beyond other conventional food grade lubricants. Among these are:

- Extended hour typical life
- Low volatility
- Superior corrosion protection
- Excellent thermal and oxidation stability
- High viscosity index
- High flash point
- Completely demulsible

Accelerated tests show that USPI MAX FG AIR 46 has extended life compared to the food grade polyalphaolefin (PAO) basefluids. USPI MAX FG AIR 46 has improved solvency characteristics, reducing varnish and solid formation when compared to the conventional PAO food grade lubricants.

This high-performance lubricant is recommended for use in flooded rotary screw compressors. Other viscosity grades are available for use in reciprocating compressors, rotary vane compressors and vacuum pumps.

USPI MAX FG AIR 46 complies with FDA 21 CFR 178.3570—lubricants with incidental food contact.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	46.0
Viscosity @ 100°C, cSt	7.76
Viscosity @ 100°F, SUS	236
Viscosity @ 210°F, SUS	52
Viscosity Index, ASTM D2270	138
Density, lb/gal, 60°F, ASTM D4052	7.02
Pour Point °F (°C), ASTM D97	-68.8 (-56)
Flash Point, C.O.C., °F (°C), ASTM D92	525 (274)
Fire Point, C.O.C., °F (°C), ASTM D92	540 (282)
Specific Gravity, ASTM D4052	0.843
Four-Ball Wear, Scar Diameter, mm, ASTM D4172	0.5
RPVOT, min. ASTM D2272	2325

* These values are not intended for use in preparing specifications.
Dated revised: 8/11

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USPI UNITS

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air and oil filters for air compressors that meet or exceed manufacturer specifications at significantly lower costs.

USPI HT FG AIR 46 Compressor Fluid

High Temp Food Grade Air Compressor Applications

USPI HT FG AIR 46 is a fully formulated foodgrade, H-1 approved, high performing synthetic lubricant specially formulated for long life and no sludge and varnish formation even under extreme compressor operating conditions. USPI HT FG AIR 46 is ashless and is formulated with an advanced additive system to prevent corrosion and inhibit oxidation of the basefluid.

The product displays excellent thermal, oxidative, and hydrolytic stability in applications that require extended drain intervals and performance. USPI HT FG AIR 46 is completely demulsible, has a low pour point and stable viscosity to increase effectiveness in applications where high and low temperature extremes are encountered.

Ideal for use as a bearing lubricant, for rotary screw and centrifugal compressors, USPI HT FG AIR 46 complies with FDA 21 CFR 178.3570 incidental food contact requirements. NSF approval is pending.

Based on available information, USPI HT FG AIR 46is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	45.5
Viscosity @ 100°C, cSt, ASTM D445	7.69
Viscosity Index, ASTM D2270	136
Density, lb/gal, 60°F, ASTM D4052	7.94
Pour Point °F (°C), ASTM D5950	-33 (-36)
Flash Point, C.O.C., °F (°C), ASTM D92	509 (265)
Specific Gravity, ASTM D4052	0.953

* These values are not intended for use in preparing specifications.
Dated revised: 1/15

maximize your USPI HT FG AIR 46 Compressor Fluid with. . .

USPI UNITS

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air and oil filters for air compressors that meet or exceed manufacturer specifications at significantly lower costs.

USPI COMP CLEAN II Compressor Fluid

Air Compressor Applications

USPI-COMP CLEAN II is a specially formulated synthetic fluid capable of dissolving varnish and solubilizing sludge from lubricating systems while they are operating.

USPI-COMP CLEAN II contains oxidation and rust inhibitors, and can be used as a short-term lubricant (up to 500 hours). It is fully compatible with mineral oils and is highly recommended for use as a flushing fluid when changing from other lubricants to USPI compressor lubricants. Its high flash point and non-toxic nature insure safety in its applications.

APPLICATIONS
- Cleaning fluid for removal of varnish dirt and oxidized fluid from compressor lubricating systems.
- Flushing fluid when changing from other lubricants to USPI compressor lubricants.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	38.9
Viscosity @ 100°C, cSt	5.5
Viscosity @ 100°F, SUS	43.3
Viscosity @ 210°F, SUS	5.64
Viscosity Index, ASTM D2270	65
Density, lb/gal, 60°F	8.08
Pour Point °F (°C), ASTM D97	-45 (-43)
Flash Point, C.O.C., °F (°C), ASTM D92	444 (229)
Fire Point, C.O.C., °F (°C), ASTM D92	520 (271)
Specific Gravity, ASTM D1298	0.965

* These values are not intended for use in preparing specifications.

Dated revised: 8/11

maximize your USPI COMP CLEAN II Compressor Fluid with . . .

USPI UNITS

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL SAMPLING

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OEM FILTERS

USPI offers OEM replacement air and oil filters for air compressors that meet or exceed manufacturer specifications at significantly lower costs.

USPI VAC 100 Fluid

Vacuum Pump Applications

USPI VAC-100 is a custom blended polyol ester (POE) long life synthetic lubricant. It is ideal for rotary vane vacuum pump applications where oil is exposed to elevated temperatures for extended periods of time. Accelerated tests show USPI-VAC-100 has at least four times the life of conventional diester oils.

USPI VAC-100 is especially advantageous in high temperature applications. It does not leave varnish or sludge when they oxidize like polyalphaolefin (PAO) or mineral oil based products do.

USPI VAC-100 is biodegradable. Small amounts of this oil spilled or leaked onto the ground will not adversely affect the environment. Disposal of this fluid should be done in accordance with local, state, and federal regulations.

APPLICATIONS
USPI VAC-100's high quality basestocks coupled with state of the art additive technology results in performance improvements beyond mineral oil and other synthetic vacuum pump lubricants. Among these are:
- Extremely low volatility
- Excellent corrosion protection
- Excellent oxidative and thermal stability
- Superior demulsibility
- Good natural lubricity
- Outstanding low temperature properties
- Better gas-lubricant separation (better coalescing)

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	101.2
Viscosity @ 100°C, cSt	12.8
Viscosity @ 100°F, SUS	526
Viscosity @ 210°F, SUS	71
Viscosity Index, ASTM D2270	121
Density, lb/gal, 60°F, ASTM D4052	8.1
Flash Point, C.O.C., °F (°C), ASTM D92	520 (271)
Fire Point, C.O.C., °F (°C), ASTM D92	595 (312)
Specific Gravity, ASTM D4052	0.972

* These values are not intended for use in preparing specifications.

Dated revised: 8/11

maximize your USPI VAC 100 Fluid with. . .

USPI UNITS

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air filters, oil filters, and exhaust filters for vacuum pumps that meet or exceed manufacturer specifications at significantly lower costs.

USPI MAX FG VAC 100 Fluid

Food Grade Vacuum Pump Applications

USPI MAX FG VAC 100 is a fully formulated synthetic high performance vacuum pump lubricant based on distinctive and novel synthetic basefluids that help to eliminate solid formation. The product is extremely effective in minimizing solid formation during use which can be an issue with other PAO and PAO/Ester based formulations. USPI MAX FG VAC 100 is ashless and is formulated with an advanced additive system to prevent corrosion in critical areas of the compressor system and inhibit oxidation of the lubricant basefluid.

The product displays outstanding thermal, oxidative, and hydrolytic stability in demanding applications that require extended drain intervals and performance. USPI MAX FG VAC 100 is demulsible, has a low pour point and stable viscosity to increase effectiveness in applications where high and low temperature extremes are encountered.

It is suitable for use in rotary vane vacuum pumps and reciprocating compressors. USPI MAX FG VAC 100 complies with FDA 21 CFR 178.3570 Lubricants for Incidental Food Contact or H-1 approval.

Based on available information, USPI MAX FG VAC 100 is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	103
Viscosity @ 100°C, cSt, ASTM D445	16.57
Viscosity Index, ASTM D2270	174
Moisture ppm, ASTM D1744	< 300
Specific Gravity @ 60°F/15.6°C, ASTM D4052	0.874
Pour Point °F (°C), ASTM D97	-33 (-36)
Flash Point, C.O.C., °F (°C), ASTM D93	520 (271)

* These values are not intended for use in preparing specifications.

maximize your USPI MAX FG VAC 100 Fluid with. . .

USPI UNITS

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air filters, oil filters, and exhaust filters for vacuum pumps that meet or exceed manufacturer specifications at significantly lower costs.

USPI COMP CLEAN 100 Fluid

Vacuum Pump Applications

USPI COMP CLEAN 100 is a high quality synthetic fluid based on premium dibasic acid-ester base stocks and formulated to provide superior oxidative and thermal stability. Typical applications include rotary vane and reciprocating air compressors where long life and reduced fluid consumption are objectives. Lower maintenance costs are also a result of reduced varnish, sludge and carbon deposits. Additives have also been included to provide excellent lubricity and protection against rust and copper corrosion.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	96.4
Viscosity @ 100°C, cSt	9.6
Viscosity @ 100°F, SUS	512.3
Viscosity @ 210°F, SUS	57.7
Viscosity Index, ASTM D2270	62
Density, lb/gal, 60°F, ASTM D4052	7.98
Pour Point °F (°C), ASTM D97	-20 (-28.9)
Flash Point, C.O.C., °F (°C), ASTM D92	515 (268)
Fire Point, C.O.C., °F (°C), ASTM D92	555 (291)
Specific Gravity, ASTM D4052	0.96

* These values are not intended for use in preparing specifications.

Dated revised: 11/04

maximize your USPI COMP CLEAN 100 Fluid with. . .

USPI UNITS

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OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement air filters, oil filters, and exhaust filters for vacuum pumps that meet or exceed manufacturer specifications at significantly lower costs.

USPI HYD 32 Fluid

Hydraulic Applications

USPI HYD 32 is a high performance turbine oil based on severely hydrocracked, iso-dewaxed base oil. USPI HYD 32 is formulated with an advanced oxidation and corrosion inhibition additive system. It was developed to prevent solid formation in harsh environments.

The product displays excellent thermal and hydrolytic stability in applications that require extended drain intervals and performance. The stable viscosity and low pour point make the product very effective in applications where temperature extremes are required.

It is suitable for use in gas turbines, steam turbines, R&O hydraulic applications, and circulating oils. The USPI HYD 32 meets the following performance specifications: AGMA 9005 E02-RO; AIST 125; Alstom HTGD 90 117; DIN 51515-1, 51524-1; GEK 32568, 46506, 107395; ISO 8068; MAG P-38, P-54, P-55, and P-57; Parker Denison HF-0 Bench Tests; Siemens TLV 9013 04; Solar Turbines ES 9-224.

Based on available information, USPI HYD 32 is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	34.2
Viscosity @ 100°C, cSt, ASTM D445	5.65
Viscosity Index, ASTM D2270	102
Specific Gravity @ 60°F/15.6°C, ASTM D4052	0.860
Acid Value, mg KOH/gm, ASTM D974	<0.05
Pour Point °F (°C), ASTM D97	-38 (-39)
Flash Point, C.O.C., °F (°C), ASTM D92	413 (212)

* These values are not intended for use in preparing specifications.

Dated revised: 5/15

maximize your USPI HYD 32 Fluid with. . .

USPI UNITS

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OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for hydraulic systems that meet or exceed manufacturer specifications at significantly lower costs.

USPI HYD 46 Fluid

Hydraulic Applications

USPI HYD 46 is a high performance ashless hydraulic lubricant based on severely hydrocracked, iso-dewaxed base oil. It is ideal for hydraulic applications, plain roller bearing lubrication and turbine circulation applications.

USPI HYD 46 is formulated with an advanced corrosion inhibition additive system, strong wear protection and is developed for extended corrosion protection in harsh environments. The product displays excellent thermal and hydrolytic stability in applications that require extended drain intervals and performance. The stable viscosity and low pour point make the product very effective in applications where temperature extremes are required.

Based on available information, USPI HYD 46 is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS. USPI HYD 46 meets the Denison HF-0 requirements.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	46.6
Viscosity @ 100°C, cSt, ASTM D445	6.89
Viscosity Index, ASTM D2270	103
Moisture, ppm, ASTM D1744	<100
Specific Gravity @ 60°F/15.6°C, ASTM D4052	0.86
Density, lb/gal, ASTM D1298	7.19
Steel Corrosion, ASTM D665A&B	Pass
Copper Corrosion 24hr@100°C	1a Pass
F2G	12
Pour Point °F (°C), ASTM D97	-27 (-33)
Flash Point, C.O.C., °F (°C), ASTM D92	460 (238)
Fire Point, C.O.C., °F (°C), ASTM D92	496 (258)
Water Separation	40/38/2 (3.5 min)
Foam Sequence I, II, III, ASTM D892	0/0/0 (0 sec)

* These values are not intended for use in preparing specifications.

Dated revised: 6/14

maximize your USPI HYD 46 Fluid with. . .

USPI UNITS

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for hydraulic systems that meet or exceed manufacturer specifications at significantly lower costs.

USPI HYD 68 Fluid

Hydraulic Applications

USPI HYD 68 is a high performance turbine oil based on severely hydrocracked, iso-dewaxed base oil. It is ideal for gas turbines, steam turbines, R&O hydraulic applications, and circulating oils.

USPI HYD 68 is formulated with an advanced oxidation and corrosion inhibition additive system. It was developed to prevent solid formation in harsh environments. The product displays excellent thermal and hydrolytic stability in applications that require extended drain intervals and performance. The stable viscosity and low pour point make the product very effective in applications where temperature extremes are required.

Based on available information, USPI HYD 68 is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS. USPI HYD 68 meets performance specifications for: AGMA 9005 E02-RO; AIST 125; Alstom HTGD 90 117; DIN 51515-1, 51524-1, GEK 32568, 46506, 107295; ISO 8068; MAG P-38, P-54, P-55, P-57; Parker Denison HF-0 Bench Test; Siemens TLV 9013 04; Solar Turbines ES 9-224.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	68.2
Viscosity @ 100°C, cSt, ASTM D445	8.8
Viscosity Index, ASTM D2270	102
Moisture, ppm, ASTM D1744	<50
Specific Gravity @ 60°F/15.6°C, ASTM D4052	0.867
Acid Value, mg KOH/gm, ASTM D974	<0.05
Pour Point °F (°C), ASTM D97	-38 (-39)
Flash Point, C.O.C., °F (°C), ASTM D92	473 (245)
TOST, hours, ASTM D943	5000
RBOT	570
Demulsibility (10min)	40-40-0
Foam Sequence I, II, III, ASTM D892	0/0/0
Copper Corrosion, 3hr, 24hr @ 100°C	1a

* These values are not intended for use in preparing specifications.

Dated revised: 12/14

maximize your USPI HYD 68 Fluid with. . .

USPI UNITS

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OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for hydraulic systems that meet or exceed manufacturer specifications at significantly lower costs.

USPI FG HYD 46 Fluid

Food Grade Hydraulic Applications

USPI FG HYD 46 is a high performance ashless hydraulic lubricant based on severely hydrocracked, iso-dewaxed base oil. It is ideal for hydraulic applications, plain roller bearing lubrication and turbine circulation applications.

USPI FG HYD 46 is formulated with an advanced corrosion inhibition additive system, strong wear protection and is developed for extended corrosion protection in harsh environments. The product displays excellent thermal and hydrolytic stability in applications that require extended drain intervals and performance. The stable viscosity and low pour point make the product very effective in applications where temperature extremes are required.

Based on available information, USPI FG HYD 46 is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS. The product is formulated to meet 21 CFR 178.3570 incidental food contact requirements.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	46.6
Viscosity @ 100°C, cSt, ASTM D445	6.89
Viscosity Index, ASTM D2270	103
Moisture, ppm, ASTM D1744	<100
Specific Gravity @ 60°F/15.6°C, ASTM D4052	0.86
Density, lb/gal, ASTM D1298	7.19
Steel Corrosion, ASTM D665A&B	Pass
Copper Corrosion 24hr @ 100°C	1a Pass
F2G	12
Pour Point °F (°C), ASTM D97	-32 (-36)
Flash Point, C.O.C., °F (°C), ASTM D92	460 (238)
Fire Point, C.O.C., °F (°C), ASTM D92	496 (258)
Water Separation	40/38/2 (3.5 min)
Foam Sequence, I, II, III, ASTM D892	0/0/0 (0 sec)

* These values are not intended for use in preparing specifications.

Dated revised: 7/14

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USPI UNITS

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OIL SAMPLING

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM FILTERS

USPI offers OEM replacement filters for hydraulic systems that meet or exceed manufacturer specifications at significantly lower costs.

USPI **FG HYD 68 Fluid**

Food Grade Hydraulic Applications

USPI FG HYD 68 is a fully formulated group II mineral oil based on severely hydrocracked, iso-dewaxed base oil. It is ideal for hydraulic applications, plain roller bearing lubrication, use in food and beverage plants and as a general purpose food-grade lubricating oil.

USPI FG HYD 68 is ashless and is formulated with an advanced corrosion inhibition additive system, strong wear protection and is developed for extended corrosion protection in harsh environments. The product displays excellent thermal and hydrolytic stability in applications that require extended drain intervals and performance. The stable viscosity and low pour point make the product very effective in applications where temperature extremes are required.

Based on available information, USPI FG HYD 68 is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS. The product is formulated to meet 21 CFR 178.3570 incidental food contact requirements.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	67.7
Viscosity @ 100°C, cSt, ASTM D445	8.8
Viscosity Index, ASTM D2270	103
Moisture, ppm, ASTM D1744	<100
Specific Gravity @ 60°F/15.6°C, ASTM D4052	0.867
Density, lb/gal, ASTM D1298	7.23
Flash Point, C.O.C., °F (°C), ASTM D92	464 (240)

* These values are not intended for use in preparing specifications.

Dated revised: 7/14

maximize your **USPI FG HYD 68 Fluid with. . .**

USPI**UNITS**

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL**SAMPLING**

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM**FILTERS**

USPI offers OEM replacement filters for hydraulic systems that meet or exceed manufacturer specifications at significantly lower costs.

USPI **FG SYN HYD 46 Fluid**

Food Grade Hydraulic Applications

USPI FG SYN HYD 46 is a fully formulated polyalphaolefin (PAO) based synthetic high performance gear lubricant. It is ideal for hydraulic applications, plain roller bearing lubrication and turbine circulation applications.

USPI FG SYN HYD 46 is formulated with an advanced corrosion inhibition additive system, strong wear protection and is developed for extended corrosion protection in harsh environments. The product displays excellent thermal and hydrolytic stability in applications that require extended drain intervals and performance. The stable viscosity and low pour point make the product very effective in applications where temperature extremes are required.

Based on available information, USPI FG SYN HYD 46 is a non-toxic, non-hazardous product that is not expected to cause any adverse health effects when used as designed. Users are advised to follow the recommendations provided in the MSDS. The product is formulated to meet 21 CFR 178.3570 incidental food contact requirements.

TYPICAL PROPERTIES*

Viscosity @ 40°C, cSt, ASTM D445	46.6
Viscosity @ 100°C, cSt, ASTM D445	7.8
Viscosity Index, ASTM D2270	140
Moisture, ppm, ASTM D1744	<50
Specific Gravity @ 60°F/15.6°C, ASTM D4052	0.831
Density, lb/gal, ASTM D1298	6.9
Pour Point °F (°C), ASTM D97	-76 (-60)
Flash Point, C.O.C., °F (°C), ASTM D92	520 (271)

* These values are not intended for use in preparing specifications.

Dated revised: 10/14

maximize your **USPI FG SYN HYD 46 Fluid with. . .**

USPI**UNITS**

USPI filtration systems use depth filtration to polish your oil to cleaner-than-new standards. USPI filtration can be installed on all of your systems to provide cost savings through lower maintenance costs, reduced oil purchases and disposal, and asset preservation.

OIL**SAMPLING**

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

OEM**FILTERS**

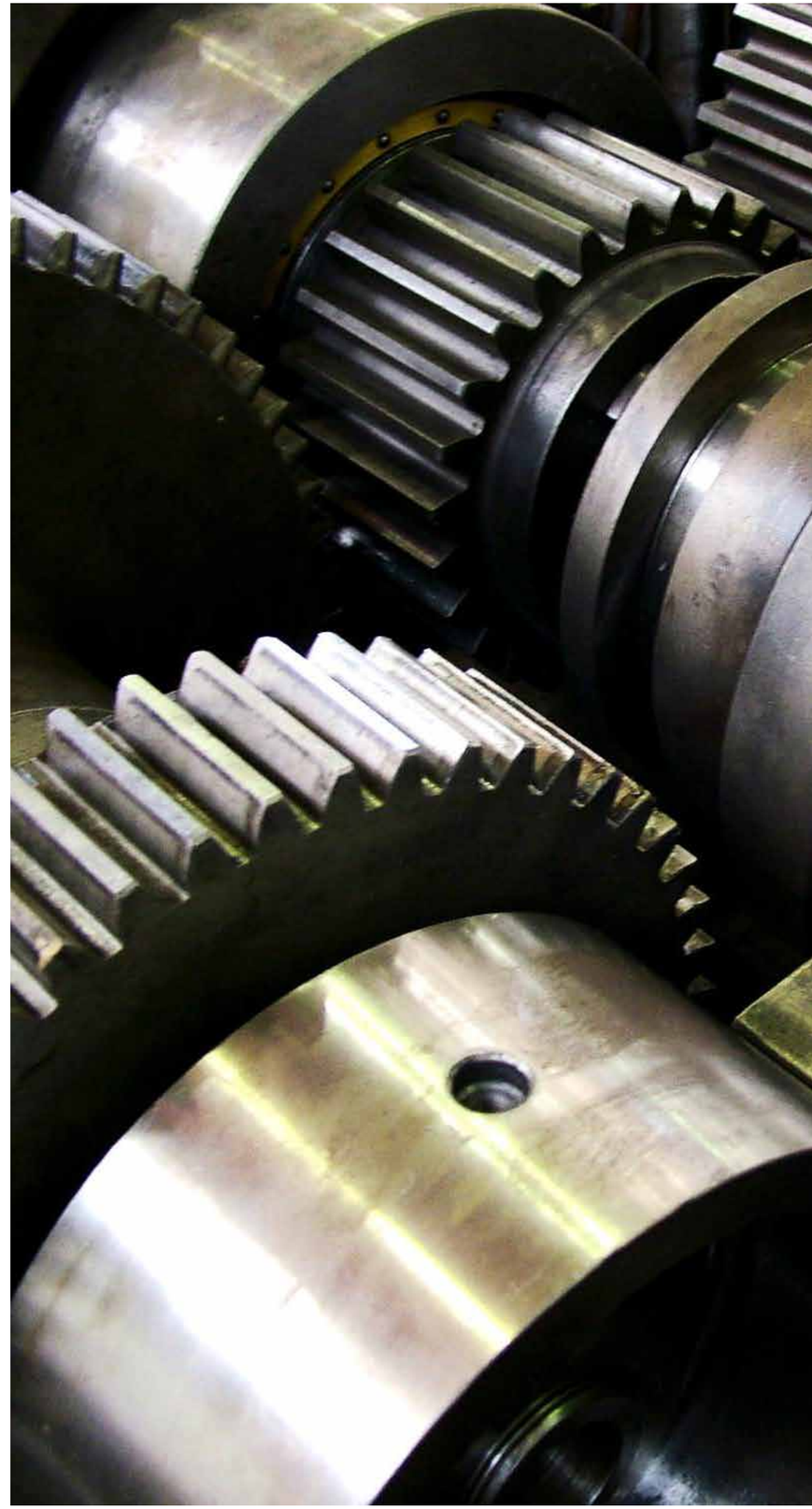
USPI offers OEM replacement filters for hydraulic systems that meet or exceed manufacturer specifications at significantly lower costs.

PROGRAMS

US Petrolon
Filtration & Lubrication Programs

industrial lubricants + depth filtration systems + oil analysis + reclamation + oem replacement filters

Our
Filtration & Lubrication Programs
combine all of
US Petrolon's expertise
into a single program
that maximizes
your asset life
and
return on investment.



Ammonia **Compressor Solutions**

Combine US Petrolon 1009-68SC compressor lubricant with the USPI 1000AMM inline filtration system to provide the best solution for extended fluid life and asset preservation.

USPI 1009-68SC Compressor Fluid

- Highly refined, de-waxed semi-synthetic
- Extremely thermally and oxidatively stable
- -40°F fluid pour point
- Up to 70% less oil carryover
- Increased liquid pump flow
- Reduced wear and longer machine life
- Patented seal conditioner
- Combine with oil analysis and monitoring

USPI S1000AMM PICTURED

USPI 1000AMM Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life
- 15+ yrs with NO oil changes using USPI fluids

USPI D1000AMM PICTURED

USPI **1009-68SC**

USPI 1009-68SC compressor lubricant is a custom-blended, highly refined, de-waxed, chemically inert semi-synthetic compressor lubricant with seal conditioner. It has a unique closed molecular structure, making it extremely thermally and oxidatively stable. It provides better lubricity than conventional refrigeration oils for reciprocating, rotary screw and vane compressors.

USPI **1000AMM Filtration System**

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- 300 PSI ASME UM-Rated powder coated vessel
- Steel piping
- Flow meter (sized to unit)
- Pressure gauges to monitor element pressure differential
- Oil sampling port
- Flow control device

SIZES & DIMENSIONS:

S1000AMM (Reservoirs ~1-120 gal): 19”W x 42”H x 18”D, 85 lbs.
D1000AMM (Reservoirs ~121-240 gal) : 25.5”W x 42”H x 18”D, 135 lbs.
T1000AMM(Reservoirs ~241-390 gal): 38.5”W x 42”H x 18”D, 215 lbs.
custom-sized units available

USPI **AFA Series Filter Element**

US Petrolon’s depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid’s additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

Low Temp **Ammonia Compressor Solutions**

Combine US Petrolon ALT-68SC compressor fluid with the USPI 1000AMM inline filtration system to provide the best low temperature solution for extended fluid life and asset preservation.

USPI ALT-68SC Compressor Fluid

- Custom-blended PAO synthetic
- Extremely thermally and oxidatively stable
- -60°F fluid pour point
- Up to 70% less oil carryover
- Increased liquid pump flow
- Reduced wear and longer machine life
- Patented seal conditioner
- Combine with oil analysis and monitoring

USPI 1000AMM Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life
- 15+ yrs with NO oil changes using USPI fluids

USPI S1000AMM PICTURED

USPI D1000AMM PICTURED

USPI **ALT-68SC**

USPI ALT-68SC compressor fluid is a custom-blended, highly refined, chemically inert synthetic compressor lubricant with seal conditioner. It has a unique PAO synthetic structure, making it extremely thermally and oxidatively stable. It is designed for applications that require extra low temperature protection. It provides better lubricity than conventional refrigeration oils for reciprocating, rotary screw and vane compressors.

USPI **1000AMM Filtration System**

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- 300 PSI ASME UM-Rated powder coated vessel
- Steel piping
- Flow meter (sized to unit)
- Pressure gauges to monitor element pressure differential
- Oil sampling port
- Flow control device

SIZES & DIMENSIONS:

S1000AMM (Reservoirs ~1-120 gal): 19”W x 42”H x 18”D, 85 lbs.
D1000AMM (Reservoirs ~121-240 gal) : 25.5”W x 42”H x 18”D, 135 lbs.
T1000AMM(Reservoirs ~241-390 gal): 38.5”W x 42”H x 18”D, 215 lbs.
custom-sized units available

USPI **AFA Series Filter Element**

US Petrolon’s depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid’s additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

Ammonia Oil **Reclamation Solutions**

Combine USPI ammonia compressor lubricants with USPI portable or fixed depth filtration units and comprehensive oil analysis to reclaim your used ammonia lubricants, polishing the fluid back to "new" condition for reuse and lowering your new oil purchases up to 80%.

USPI NH3 Compressor Fluids

- Custom-blended semi- or full synthetic
- Extremely thermally and oxidatively stable
- Low pour points
- Up to 70% less oil carryover
- Increased liquid pump flow
- Reduced wear and longer machine life
- Patented seal conditioner
- Combine with oil analysis and monitoring

USPI Portable Filtration Systems

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces carbon footprint
- Significantly extends fluid life and reduces oil purchases

USPI 87DA PICTURED

USPI **NH3 Compressor Oils**

USPI ammonia compressor lubricants are custom-blended, highly refined, chemically inert semi- or full synthetic compressor lubricant with seal conditioner. They have a closed molecular structure, making them extremely thermally and oxidatively stable. They provide better lubricity than conventional refrigeration oils for reciprocating, rotary screw and vane compressors. Options for very low temperatures are available.

USPI **Portable Filtration Systems**

US Petrolon's portable filtration systems are easily transported throughout plant environments to handle tough reclamation and transfer jobs. Designed to run unattended, the unit uses depth filter elements to polish waste oil to cleaner-than-new levels. In bypass mode, the unit can also transfer fluids between reservoirs.

SPECIFICATIONS:

- Chrome-plated steel housings
- Stainless steel piping
- Flow meter (sized to unit)
- Pressure gauges to monitor element pressure differential
- High/Low Pressure Shut-offs & Low Voltage Protection
- Oil sampling port
- Flow control device

SIZES & DIMENSIONS:

87SA (Reservoirs ~1-60 gal): 18.25"W x 46.25"H x 26"D, 85 lbs.
87DA (Reservoirs ~1-360 gal) : 24.5"W x 46.25"H x 26"D, 135 lbs.
87QA(Reservoirs ~361-720 gal): 26"W x 73"H x 26"D, 215 lbs.

USPI **Oil Analysis Kits**

Independent comprehensive oil analysis is critical in a reclamation program. "Before" and "after" samples will evaluate the condition of the reclaimed lubricant to verify its cleanliness and suitability for use before you reintroduce the lubricant back into your systems.

Air Compressor Solutions

Combine US Petrolon AIR 46 compressor fluid with the USPI 1000 H/C inline filtration system to provide the best solution for extended fluid life and asset preservation.

USPI AIR 46 Fluid

- Greatly extended drain intervals
- Cannot varnish
- High temp. performance (250°F+)
- Lubricates effectively with up to 2000ppm water content
- Increased compressor bearing life
- Free comprehensive quarterly oil analysis and monitoring

USPI 1000H/C Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

USPI AIR 46

USPI AIR 46 is a custom-blended proprietary long life synthetic lubricant. It is ideal for rotary screw air compressor applications where oil is exposed to elevated temperatures for extended periods of time. Accelerated tests show at least four times the life of conventional diester oils. It will not leave varnish or create sludge as do polyalphaolefin or mineral oil based products. USPI includes free quarterly comprehensive oil analysis with this fluid.

USPI 1000H/C Filtration System

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- Chrome-plated steel filter housing
- Steel mounting bracket
- Stainless steel ball valves
- Drain & air bleed valves
- Stainless and steel piping
- Pressure gauges to monitor element pressure differential
- Oil sample port
- Pressure regulating valve
- Pressure relief valve
- Dimensions: 12”Wx36”Hx12”D
- Weight: ~35 lbs.

USPI AFA Series Filter Element

US Petrolon’s depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid’s additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

Food Grade **Air Compressor Solutions**

Combine US Petrolon FG AIR 46 compressor fluid with the USPI 1000 H/C inline filtration system to provide a superior food-grade solution for extended fluid life and asset preservation.

USPI FG AIR 46 Fluid

- Greatly extended drain intervals
- Increased compressor bearing life
- Increased varnish resistance
- Superior rust & oxidation stability
- Free comprehensive quarterly oil analysis and monitoring

USPI 1000H/C Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

USPI **FG AIR 46**

This H-1 Food Grade certified screw air compressor fluid is a custom-blended polyalphaolefin (PAO) synthetic fluid. It gives improved lubrication at high and low temperatures, reduced volatility, and compatibility with mineral oils and equipment designed for use with mineral oils. It is a long life lubricant especially formulated with rust and oxidation inhibitors for flooded screw compressors. USPI includes free quarterly comprehensive oil analysis with this fluid.

USPI **1000H/C Filtration System**

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- Chrome-plated steel filter housing
- Steel mounting bracket
- Stainless steel ball valves
- Drain & air bleed valves
- Stainless and steel piping
- Pressure gauges to monitor element pressure differential
- Oil sample port
- Pressure regulating valve
- Pressure relief valve
- Dimensions: 12”Wx36”Hx12”D
- Weight: ~35 lbs.

USPI **AFA Series Filter Element**

US Petrolon’s depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid’s additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

Food Grade **Air Compressor Solutions**

Combine US Petrolon MAX FG AIR 46 compressor fluid with the USPI 1000 H/C inline filtration system to provide the best food-grade solution for extended fluid life and asset preservation.

USPI MAX FG AIR 46 Fluid

- Greatly extended drain intervals (27,000 fluid run hours documented)
- Increased compressor bearing life
- High temp. performance (up to 230°F)
- 2x the acid (TAN) and varnish resistance
- Lubricates effectively with 3x higher water
- Superior rust & oxidation stability
- Free comprehensive quarterly oil analysis and monitoring

USPI 1000H/C Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

USPI **MAX FG AIR 46**

This H-1 Food Grade certified screw air compressor fluid is a custom formulated full synthetic lubricant, specifically designed for high temperature performance up to 230°F. It has double TAN and varnish resistance and lubricates effectively with up to three times higher water content. USPI includes free quarterly comprehensive oil analysis with this fluid.

USPI **1000H/C Filtration System**

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- Chrome-plated steel filter housing
- Steel mounting bracket
- Stainless steel ball valves
- Drain & air bleed valves
- Stainless and steel piping
- Pressure gauges to monitor element pressure differential
- Oil sample port
- Pressure regulating valve
- Pressure relief valve
- Dimensions: 12”Wx36”Hx12”D
- Weight: ~35 lbs.

USPI **AFA Series Filter Element**

US Petrolon’s depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid’s additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

HT FG **Air Compressor Solutions**

Combine US Petrolon HT FG AIR 46 compressor fluid with the USPI 1000 H/C inline filtration system to provide a high-temp food-grade solution for extended fluid life and asset preservation.

USPI HT FG AIR 46 Fluid

- Greatly extended drain intervals
- Cannot varnish
- High temp. performance (250°F)
- 4x acid (TAN) resistance
- Lubricates effectively with up to 2000ppm water content
- Increased compressor bearing life
- Free comprehensive quarterly oil analysis and monitoring

USPI 1000H/C Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects and preserves oil additive package
- Reduces operating temperature
- Significantly extends compressor and fluid life

USPI **HT FG AIR 46**

This H-1 Food Grade certified screw air compressor fluid is a custom formulated full synthetic lubricant, specifically designed for high temperature performance up to 250°F. It has quadruple TAN resistance, cannot varnish and lubricates effectively with up to 2000ppm water content. USPI includes free quarterly comprehensive oil analysis with this fluid.

USPI **1000H/C Filtration System**

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- Chrome-plated steel filter housing
- Steel mounting bracket
- Stainless steel ball valves
- Drain & air bleed valves
- Stainless and steel piping
- Pressure gauges to monitor element pressure differential
- Oil sample port
- Pressure regulating valve
- Pressure relief valve
- Dimensions: 12”Wx36”Hx12”D
- Weight: ~35 lbs.

USPI **AFA Series Filter Element**

US Petrolon’s depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid’s additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

Vacuum **Pump Solutions**

Combine US Petrolon VAC 100 vacuum pump fluid with the USPI 88SV inline filtration system to provide the best solution for extended fluid life and asset preservation.

USPI VAC 100 Oil

- Extended life over conventional fluids
- Safe for use up to TAN of 6.0
- No sludge or varnish accumulation
- Higher operating temperatures (up to 350°F)
- Extremely low fluid carrover
- Increased vacuum pump life
- Free comprehensive quarterly oil analysis and monitoring

USPI 88SV Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- Reduces operating temperature
- Significantly extends pump and fluid life

USPI **VAC 100**

USPI VAC 100 is a custom-blended proprietary long life synthetic lubricant for the demanding conditions in vacuum pumps. With an extended fluid life four times greater than conventional diester fluids, it provides high temperature performance up to 350°F and will not leave varnish or create sludge, tolerating a TAN up to 6.0. USPI includes free quarterly comprehensive oil analysis with this fluid.

USPI **88SV Filtration System**

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- Chrome-plated steel filter housing
- Powder-coated steel mounting bracket & frame
- Stainless and steel piping
- Oil sample port
- Pressure relief valve
- Drain & air bleed valves
- Pressure gauge to monitor element pressure differential
- Pump: 1 GPM
- Motor: Choose between 120/240V 1Ph. or 230/460V 3Ph.
- Dimensions: 18.25"Wx46"Wx18"D
- Weight: ~85 lbs.

USPI **AFA Series Filter Element**

US Petrolon's depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid's additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

Food Grade **Vacuum Pump Solutions**

Combine US Petrolon MAX FG VAC 100 vacuum pump fluid with the USPI 88SV inline filtration system to provide the best food-grade solution for extended fluid life and asset preservation.

USPI MAX FG VAC 100 Oil

- Greatly extended drain intervals over all other H-1 food grade oils
- 4x the acid (TAN) and varnish resistance
- 3x the moisture level (800-1000ppm)
- Higher operating temperatures (up to 230°F)
- Superior rust & oxidation stability
- Increased vacuum pump life
- Free comprehensive quarterly oil analysis and monitoring

USPI 88SV Filtration System

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- Reduces operating temperature
- Significantly extends pump and fluid life

USPI **MAX FG VAC 100**

This H-1 Food Grade certified vacuum pump fluid is specifically designed for the demanding conditions in vacuum pumps. It provides high temperature performance up to 230°F, with quadruple TAN and varnish resistance, and it lubricates effectively with up to three times higher water content. USPI includes free quarterly comprehensive oil analysis with this fluid.

USPI **88SV Filtration System**

This in-line, kidney-loop filtration system coupled with our depth style filter elements will eliminate unnecessary oil changes, increase productivity and provide cost savings.

SPECIFICATIONS:

- Chrome-plated steel filter housing
- Powder-coated steel mounting bracket & frame
- Stainless and steel piping
- Oil sample port
- Pressure relief valve
- Drain & air bleed valves
- Pressure gauge to monitor element pressure differential
- Pump: 1 GPM
- Motor: Choose between 120/240V 1Ph. or 230/460V 3Ph.
- Dimensions: 18.25”Wx46”Wx18”D
- Weight: ~85 lbs.

USPI **AFA Series Filter Element**

US Petrolon’s depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI AFA elements to remove water as well as contaminants 1-3 microns and greater while protecting the fluid’s additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

LUBE ROOM

US Petrolon **Lube Room Solution**

oil storage + transfer & dispensing + depth filtration systems + depth filter elements

USPI's Oil Defender Lube Room Solution simplifies oil storage and distribution while cleaning and drying your fluids before they reach your equipment.

Oil Defender **Lube Room Solution**

Combined storage and filtration systems provide the best solution for an efficient lube room to dispense fluids that are clean and dry from the start.

USPI Oil Defender System

- Dedicated filtration system for each fluid (per tote)
- Drum-to-tote & Tote-to-drum operation
- Color-coded fluid management
- Secondary containment (optional)
- Sturdy metal frame with drip trays
- Single or Three Phase Options
- Simple installation

USPI **Storage Totes**

The Oil Defefender system utilizes stainless steel totes with color-coded start-stop boxes for efficient storage that can be stacked vertically or horizontally. You can easily view oil levels with either option.

SPECIFICATIONS:

- Stainless valves and piping
- Sloped floor to pickup point
- Large clean-out port
- Desiccant breather port

SS SIZES: 40 gal • 70 gal • 120 gal • 165 gal
custom sizes available

USPI **Filtration Systems**

Even new oil can be dirty. USPI's filtration systems (one per fluid/tote) prefilter your lube room fluids, removing wear particles and moisture before the fluid enters your equipment.

SPECIFICATIONS:

- Chrome-plated filter housing
- Stainless steel ball valves
- Steel mounting bracket
- Drain & air bleed valves
- Stainless steel piping
- Pressure gauges to monitor element pressure differential
- Pressure relief valve
- Canister heater
- Color-coded for fluid management

USPI **Depth Filter Elements**

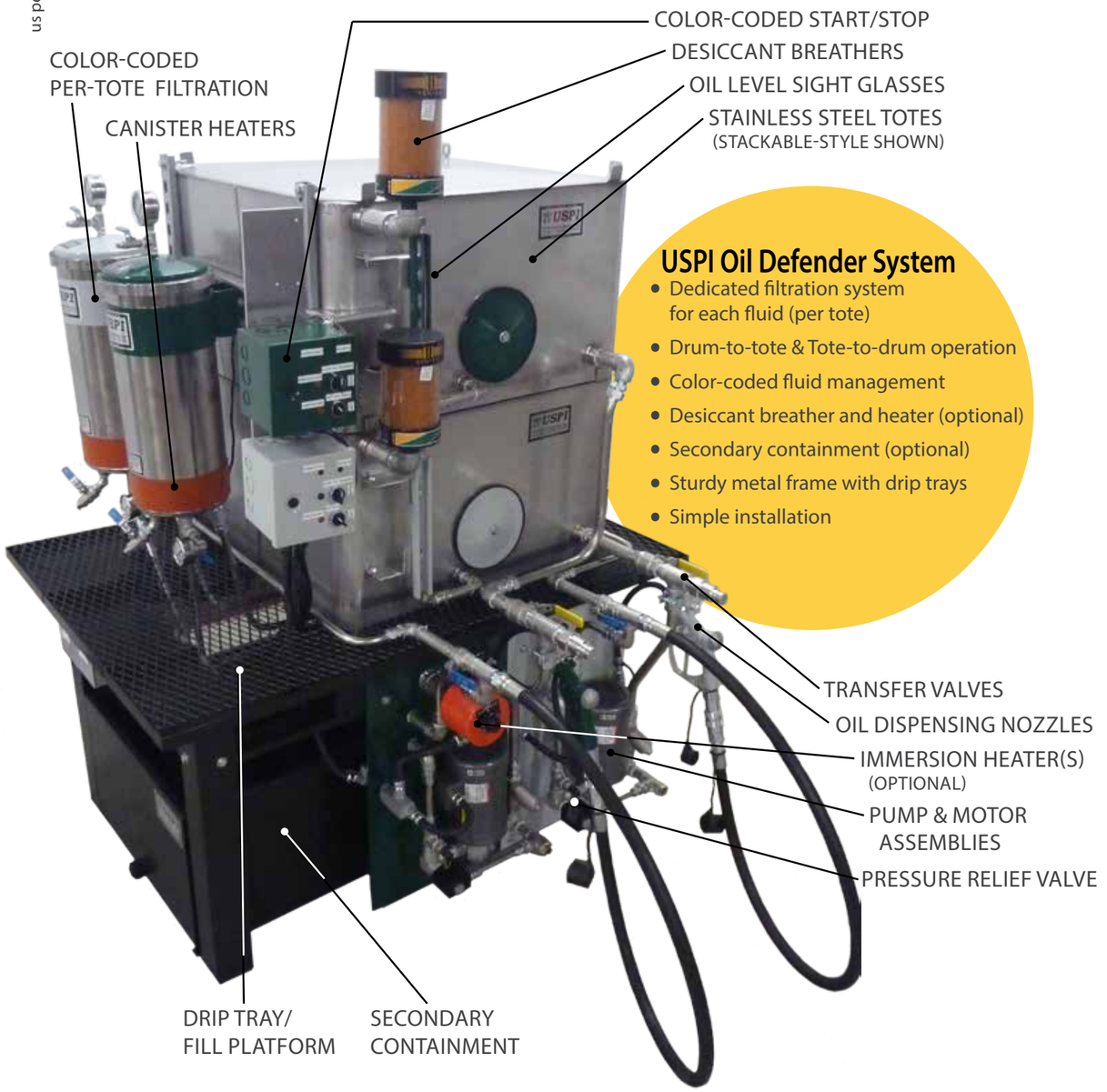
US Petrolon's depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI elements to remove water as well as contaminants 1-3 or 3-10 microns and greater (depending on type) while protecting the fluid's additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 or 3-10 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

Oil Defender **Lube Room Solution**

Combined storage and filtration systems provide the best solution for an efficient lube room to dispense fluids that are clean and dry from the start.



USPI Oil Defender System

- Dedicated filtration system for each fluid (per tote)
- Drum-to-tote & Tote-to-drum operation
- Color-coded fluid management
- Desiccant breather and heater (optional)
- Secondary containment (optional)
- Sturdy metal frame with drip trays
- Simple installation

USPI **Storage Totes**

The Oil Defefender system utilizes stainless steel totes with color-coded start-stop boxes for efficient storage that can be stacked vertically or horizontally. You can easily view oil levels with either option.

SPECIFICATIONS:

- Stainless valves and piping
- Sloped floor to pickup point
- Large clean-out port
- Desiccant breather port

SS SIZES: 40 gal • 70 gal • 120 gal • 165 gal
custom sizes available

USPI **Filtration Systems**

Even new oil can be dirty. USPI's filtration systems (one per fluid/tote) prefilter your lube room fluids, removing wear particles and moisture before the fluid enters your equipment.

SPECIFICATIONS:

- Chrome-plated filter housing
- Stainless steel ball valves
- Steel mounting bracket
- Drain & air bleed valves
- Stainless steel piping
- Pressure gauges to monitor element pressure differential
- Pressure relief valve
- Canister heater
- Color-coded for fluid management

USPI **Depth Filter Elements**

US Petrolon's depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI elements to remove water as well as contaminants 1-3 or 3-10 microns and greater (depending on type) while protecting the fluid's additive package.

SPECIFICATIONS:

- Removes solid particles 1-3 or 3-10 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

USPI Oil Defender System Manifold

The manifold is a centrally located, simple, color-coded method of transferring and filtering fluids throughout the system.

SPECIFICATIONS:
- Stainless tubing, ball valves, and fittings
- Color coded fluid management
- Dedicated pump and motor
- Start/stop station
- Fluid sampling
- Clean, drip-free work space

OPTIONAL:
- Flat face quick connections
- Immersion heater

USPI Oil Defender Transfer Container

Transfer oil from tote to equipment without outside air contamination with this sealed oil transferring unit.

SPECIFICATIONS:
- Color coded fluid management
- Sealed from outside air
- Hand pump and pour spout options

OPTIONAL: quick connect fill port

SIZES: 2gal 3gal 4gal

USPI Oil Defender Drum Transfer

Provides a safe, efficient, and contamination-free method to transfer oil from drums to tanks or for filtration. Color-coded.

SPECIFICATIONS:
- All metal construction works with drums and totes
- Dedicated per tote/fluid to prevent cross-contamination
- Desiccant breather port
- Includes: 0.75" male quick connect oil return port; 1.25" x 8' oil supply hose; quick connect inlet & outlet ports

OPTIONAL: 1" male quick connect pickup; flat face quick connections

USPI Oil Defender Canister Heater

Provides optimal oil temperatures for ultra-fine water-removing depth filtration of your lube room fluids.

SPECIFICATIONS:
- Uniform heat distribution
- Exceptional durability
- Redresses oil resistance to flow

USPI Oil Defender Dispensing Nozzle

The dispensing nozzle attaches to the Oil Defender System Manifold (above) to provide a safe, clean and efficient way to dispense oil without outside air contamination.

SPECIFICATIONS:
- All metal construction
- Custom colored fluid management
- Includes 18" hydraulic hose
- 0.75" male quick connect receiver port

OPTIONAL: Flat face quick connections for drip-free connections

USPI Oil Defender Immersion Heater

Increases gear oil filtration efficiency by maintaining optimal temperatures for ultra-fine water-removing depth filtration.

SPECIFICATIONS:
- Maintains oil temperatures during filtration
- Increases gear oil pumpability
- Allows for easier/quicker oil dispensing

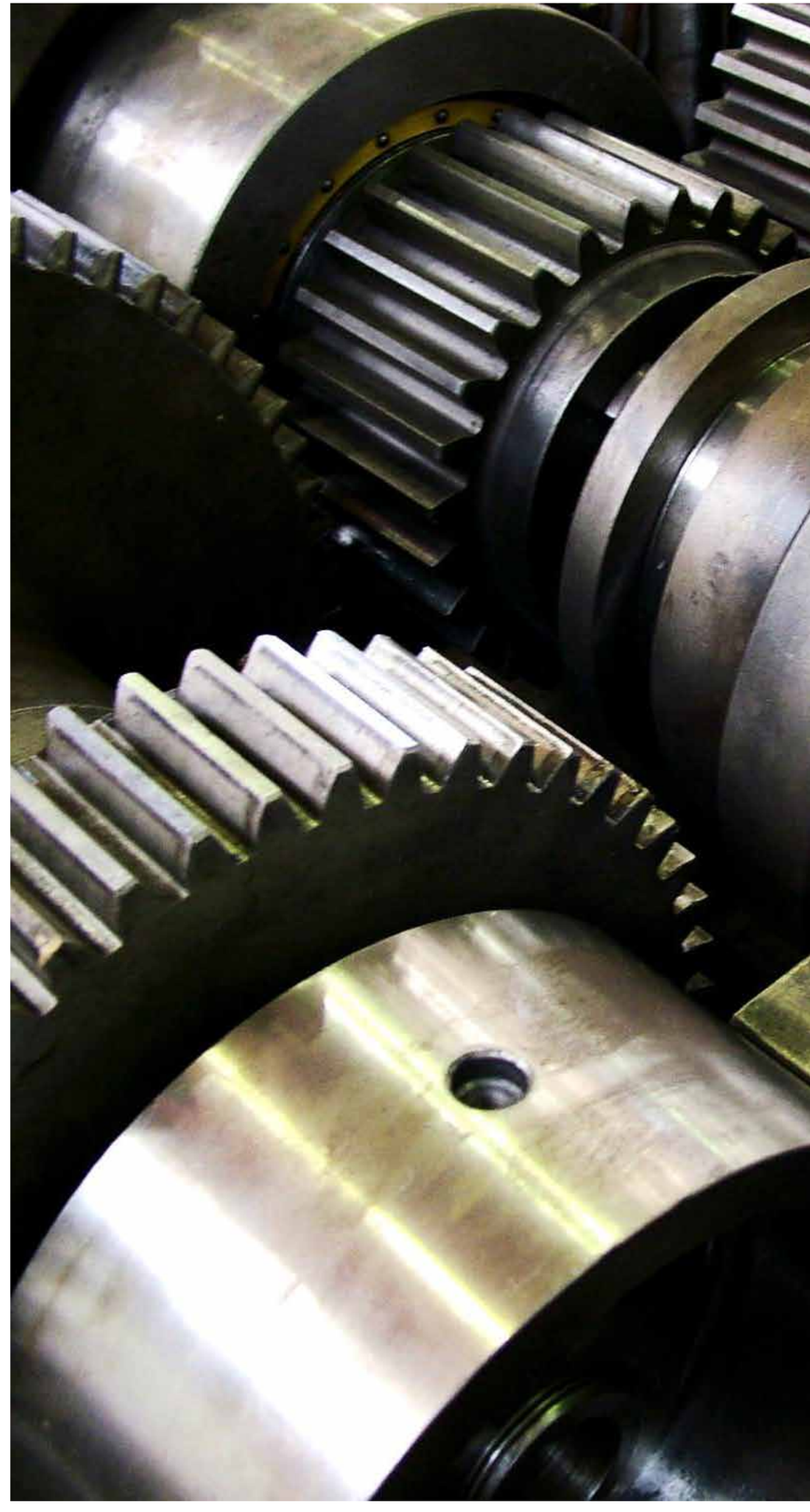
FILTERS

US Petrolon **Filter Elements**

depth filter elements + oem replacement filters

USPI depth filter elements work with our filtration systems to keep your industrial lubricants clean and dry to extend both equipment and fluid life.

USPI OEM replacement filters provide a high-quality cost-effective alternative for your OEM filter needs.



US Petrolon **Depth Filter Elements**

US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon filtration systems use our depth filters to remove virtually all contaminants 1-3/3-5 microns (depending on element type) and greater in the fluid.

USPI Depth Filter Element

- Removes solid particles 1-3/3-5µ and above (up to 12-14 lbs per element)
- Removes moisture (*some elements) (up to 5 qts per element)
- Protects oil additive package
- High temp (350°F) option available
- Use with USPI filtration systems

USPI **AFA** Elements

Provides depth filtration for a wide range of fluid types including: ammonia, air compressor, freon, vacuum pump, transmission, turbine, transformer, and hydraulic.

SPECIFICATIONS:
Removes solid particles 1-3 microns and larger
Holds up to 12-14 lbs of solids per element
Holds up to 5 qts of water per element

USPI **GO** Elements

Provides depth filtration for gear fluids.

SPECIFICATIONS:
Removes solid particles 3-10 microns and larger
Holds up to 12-14 lbs of solids per element
Holds up to 5 qts of water per element

USPI **HYD** Elements

Provides depth filtration for a wide range of fluid types including: hydraulic, turbine, transformer and transmission.

SPECIFICATIONS:
Removes solid particles 1-3 microns and larger
Holds up to 12-14 lbs of solids per element
Holds up to 5 qts of water per element

USPI **GLY** Elements

Provides depth filtration for glycol fluids.

SPECIFICATIONS:
Removes solid particles 1-3 microns and larger
Holds up to 12-14 lbs of solids per element
Does NOT remove water from the fluid

USPI AFA-2 Filter Element

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- High temp (350°F) option available
- Use with USPI filtration systems

US Petrolon **AFA-2 Depth Filter Element**

US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design. This improves filtration by forcing oil through a wound filter media, thus preventing fluids from bypassing the filter element. As a result, US Petrolon filters remove virtually all contaminants 1~3 microns and greater in the fluid.

APPLICATIONS:
AFA-2 elements can be used with mineral-based, semi-synthetic and synthetic lubricants for:
Air Compressors • NH3 Compressors
Vacuum Pumps • Hydraulic Systems
Turbines • Engines

VISCOSITIES: 22-100 ISO, based on fluid type

RETURN ON INVESTMENT:
Depth filtration with USPI AFA-2 elements provide a rapid return on investment by:
- Reducing oil purchases
- Increasing equipment efficiencies
- Lowering maintenance labor time and cost
- Increasing OEM filter life
- Extending equipment life

USPI also offers **OEM Replacement Filters**

that meet or exceed manufacturer specifications at significantly lower costs

USPI **Separators**

US Petrolon separator filters are the simple way to avoid contamination, keeping compressed air clean and oil-free in your expensive equipment. Our coalescing separator filters provide the highest level of clean, compressed air with a minimum loss of energy (pressure drop).

SPECIFICATIONS:
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most separators
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI **Coalescers**

Through the selection of appropriate coalescing materials and sealing methods, US Petrolon's advanced line of coalescing filters guarantees your refrigeration compressor systems a rare blend of exceptional performance, proven reliability and uncommon value allowing your equipment to operate correctly with minimal operational upkeep.

SPECIFICATIONS:
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most coalescers
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI **Exhaust Filters**

Oil mist is generated by vacuum pumps for a variety of reasons. The most common cause is operating the pump by pumping against an "open" or leaky system. US Petrolon exhaust filters are optimized to suit all operating conditions of the vacuum pump and ensures oil-mist-free exhaust gas (degree of separation over 99.9%) even at high intake pressures and when pumping vapors.

SPECIFICATIONS:
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most coalescers
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI AFA-3 Filter Element

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- High temp (350°F) option available
- Use with USPI filtration systems

US Petrolon **AFA-3 Depth Filter Element**

US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design. This improves filtration by forcing oil through a wound filter media, thus preventing fluids from bypassing the filter element. As a result, US Petrolon filters remove virtually all contaminants 1~3 microns and greater in the fluid.

APPLICATIONS:
AFA-3 elements can be used with mineral-based, semi-synthetic and synthetic lubricants for:
Air Compressors • NH3 Compressors
Vacuum Pumps • Hydraulic Systems
Turbines • Engines

VISCOSITIES: 22-100 ISO, based on fluid type

RETURN ON INVESTMENT:
Depth filtration with USPI AFA-3 elements provide a rapid return on investment by:
- Reducing oil purchases
- Increasing equipment efficiencies
- Lowering maintenance labor time and cost
- Increasing OEM filter life
- Extending equipment life

USPI also offers **OEM Replacement Filters**

that meet or exceed manufacturer specifications at significantly lower costs

USPI **Separators**

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SPECIFICATIONS:
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most separators
- Extended interval changes
- 99.97% efficiency @ .30 microns

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SPECIFICATIONS:
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most coalescers
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI **Exhaust Filters**

Oil mist is generated by vacuum pumps for a variety of reasons. The most common cause is operating the pump by pumping against an "open" or leaky system. US Petrolon exhaust filters are optimized to suit all operating conditions of the vacuum pump and ensures oil-mist-free exhaust gas (degree of separation over 99.9%) even at high intake pressures and when pumping vapors.

SPECIFICATIONS:
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most exhaust filters
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI GO Filter Element

- Removes moisture (up to 5 qts per element)
- Removes solid particles 3-10µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- High temp (350°F) option available
- Use with USPI filtration systems

US Petrolon **GO Depth Filter Element**

US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design. This improves filtration by forcing oil through a wound filter media, thus preventing fluids from bypassing the filter element. As a result, US Petrolon filters remove virtually all contaminants 3-5 microns and greater in the fluid.

APPLICATIONS:
GO elements can be used with mineral-based, semi-synthetic and synthetic gear oils.

VISCOSITIES: 220-680 ISO gear oils

RETURN ON INVESTMENT:
Depth filtration with USPI GO elements provide a rapid return on investment by:

- Reducing oil purchases
- Increasing equipment efficiencies
- Lowering maintenance labor time and cost
- Increasing OEM filter life
- Extending equipment life

use your **USPI GO Depth Filter Elements with. . .**

USPI**FLUIDS**

USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants for a wide range of industrial applications, from ammonia and air compressors to vacuum pumps, hydraulic systems, gearboxes, and other pumps and presses. H-1 food grade and non-food grade options are available.

OIL**SAMPLING**

USPI recommends comprehensive quarterly oil analysis with our industiral lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.

USPI**UNITS**

USPI filtration systems can be installed on any oil-lubricated equipment to provide cost savings by lowering maintenance costs, reducing oil purchases and disposals, and preserving your assets.

USPI HYD Filter Element

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3µ and above (up to 12-14 lbs per element)
- Protects oil additive package
- High temp (350°F) option available
- Use with USPI filtration systems

US Petrolon **HYD Depth Filter Element**

US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design. This improves filtration by forcing oil through a wound filter media, thus preventing fluids from bypassing the filter element. As a result, US Petrolon filters remove virtually all contaminants 1~3 microns and greater in the fluid.

APPLICATIONS:
HYD elements can be used with mineral-based, semi-synthetic and synthetic lubricants for:
Hydraulic Systems • Turbines
Transmissions • Transformers

VISCOSITIES: 22-68 ISO, based on fluid type

RETURN ON INVESTMENT:
Depth filtration with USPI HYD elements provide a rapid return on investment by:
- Reducing oil purchases
- Increasing equipment efficiencies
- Lowering maintenance labor time and cost
- Increasing OEM filter life
- Extending equipment life

use your **USPI HYD Depth Filter Elements with…**

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USPI filtration systems can be installed on any oil-lubricated equipment to provide cost savings by lowering maintenance costs, reducing oil purchases and disposals, and preserving your assets.

USPI Coalescer Element

- OEM quality at substantially lower cost
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most coalescers
- Extended interval changes
- 99.97% efficiency @ .30 microns

US Petrolon **Coalescer Elements**

Special inorganic materials are required for the construction of properly functioning oil separators in refrigeration compressor packages. In these units, gases other than air (such as freon or ammonia) are being compressed and mixed with lubricating oil which still must be removed prior to use of the gas.

Through the selection of the appropriate coalescing materials and sealing methods used, US Petrolon's advanced line of coalescing filters guarantees your refrigeration compressor systems a rare blend of exceptional performance, proven reliability and uncommon value allowing your equipment to operate correctly with minimal operational upkeep.

other **USPI Filter Elements**

USPI **Depth Filters**

For use with USPI filtration systems, US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design to force oil through a wound filter media, preventing fluids from bypassing the filter element. As a result, US Petrolon depth filters remove virtually all contaminants 1-3 microns and greater.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5qts of water per element

USPI **Separators**

US Petrolon separator filters are the simple way to avoid contamination, keeping compressed air clean and oil-free in your expensive equipment. Our coalescing separator filters provide the highest level of clean, compressed air with a minimum loss of energy (pressure drop).

SPECIFICATIONS:

- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most separators
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI **Exhaust Filters**

Oil mist is often generated by vacuum pumps for a variety of reasons. The most common cause is operating the pump by pumping against an "open" or leaky system. US Petrolon exhaust filters are optimized to suit all operating conditions of the vacuum pump and ensures oil-mist free exhaust gas (degree of separation over 99.9%) even at high intake pressures and when pumping vapors.

SPECIFICATIONS:

- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most exhaust filters
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI Separator Elements

- OEM quality at substantially lower cost
- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most coalescers
- Extended interval changes
- 99.97% efficiency @ .30 microns

US Petrolon **Separator Elements**

US Petrolon separator filters are the simple way to avoid contamination, keeping compressed air clean and oil-free, in your expensive equipment. Our coalescing separator filters provide the highest level of clean, compressed air with a minimum loss of energy (pressure drop).

Through the selection of the appropriate grade of filtration media, and maintaining quantity, diameter and direction of individual fibers, US Petrolon's advanced line of coalescing filters guarantees your air compressor system a rare blend of exceptional performance, proven reliability and uncommon value allowing your equipment to operate correctly with minimal operational upkeep.

other **USPI Filter Elements**

USPI **Depth Filters**

For use with USPI filtration systems, US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design to force oil through a wound filter media, preventing fluids from bypassing the filter element. As a result, US Petrolon depth filters remove virtually all contaminants 1-3 microns and greater.

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- Removes solid particles 1-3 microns and larger
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- Holds up to 5 qts of water per element

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Through the selection of appropriate coalescing materials and sealing methods, US Petrolon's advanced line of coalescing filters guarantees your refrigeration compressor systems a rare blend of exceptional performance, proven reliability and uncommon value allowing your equipment to operate correctly with minimal operational upkeep.

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Through the selection of the appropriate coalescing materials and sealing methods used, US Petrolon's advanced line of coalescing filters guarantees your vacuum pumps a rare blend of exceptional performance, proven reliability and uncommon value allowing your equipment to operate correctly with minimal operational upkeep.

other **USPI Filter Elements**

USPI **Depth Filters**

For use with USPI filtration systems, US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design to force oil through a wound filter media, preventing fluids from bypassing the filter element. As a result, US Petrolon depth filters remove virtually all contaminants 1-3 microns and greater.

SPECIFICATIONS:

- Removes solid particles 1-3 microns and larger
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

USPI **Coalescers**

Through the selection of appropriate coalescing materials and sealing methods, US Petrolon's advanced line of coalescing filters guarantees your refrigeration compressor systems a rare blend of exceptional performance, proven reliability and uncommon value allowing your equipment to operate correctly with minimal operational upkeep.

SPECIFICATIONS:

- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most coalescers
- Extended interval changes
- 99.97% efficiency @ .30 microns

USPI **Separators**

US Petrolon coalescing separator filters are the simple way to avoid contamination, keeping compressed air clean and oil-free, in your expensive equipment. Our coalescing separator filters provide the highest level of clean, compressed air with a minimum loss of energy (pressure drop).

SPECIFICATIONS:

- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most separators
- Extended interval changes
- 99.97% efficiency @ .30 microns

ACCESSORIES

US Petrolon **Parts & Accessories**

replacement and upgrade items for your filtration systems & equipment

USPI supports
our clients
with
parts and accessories
to keep your
filtration & lubrication
program running at
its top level.

USPI Sample Probe

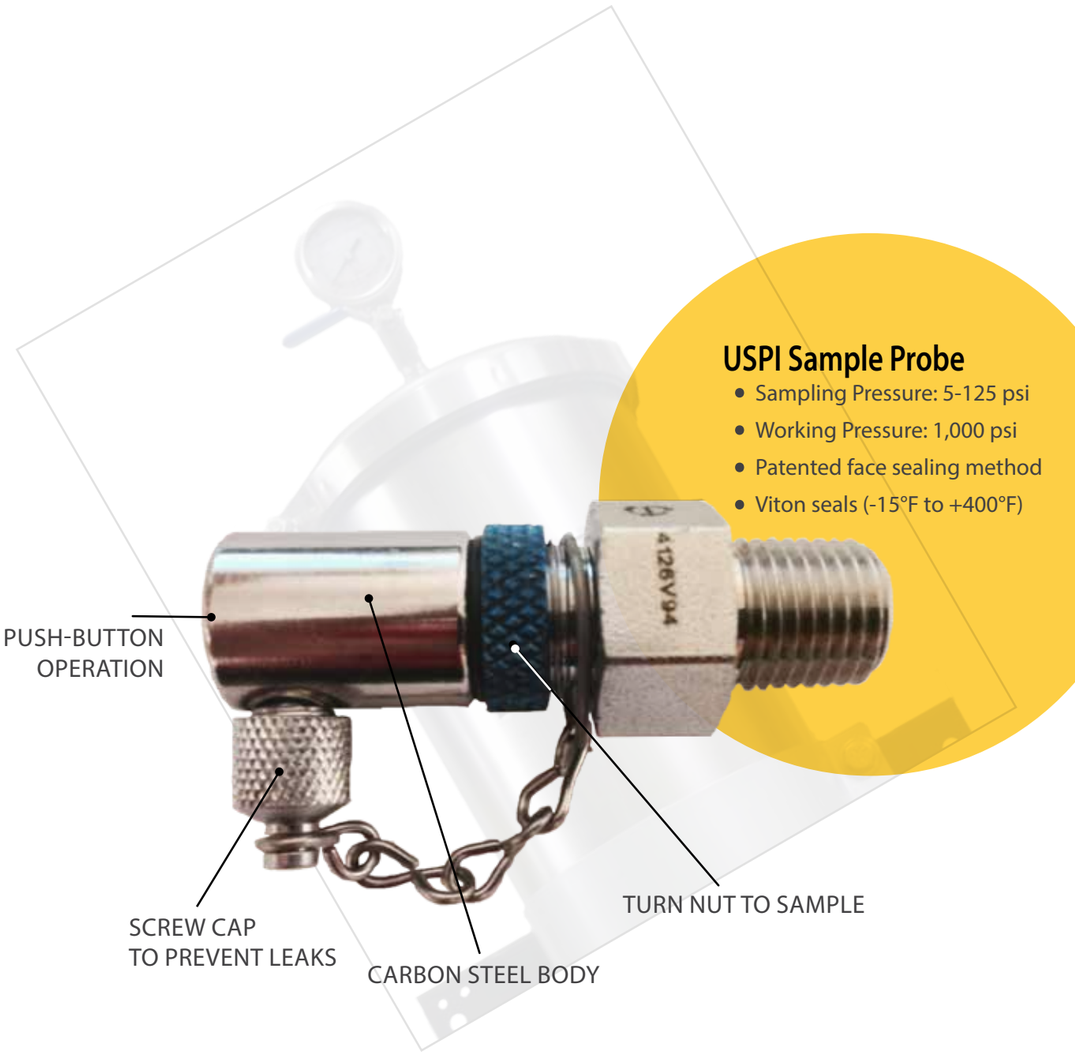
- Sampling Pressure: 5-750 psi
- Working Pressure: 6,000psi
- Passed ISO 8434-5
  (1 million cycles @ 7800psi)
- Patented face sealing method
- Neoprene seals (-65°F to +285°F)

US Petrolon **High Pressure Sample Probe**

The USPI sample probe contributes to a proactive maintenance approach by enabling you to draw hot fluid from an active circuit while the equipment is running. This provides a well-mixed and representative fluid sample for accurate oil analysis that helps to keep equipment operating smoothly.

The USPI **high pressure** sample probe is designed for use on filtration systems for refrigeration and air compressors and with our 98 series filtration systems.

For help drawing an accurate oil sample, please see the SOPs on our website (www.uspetrolon.com/resources) or view the training video on our website (requires login).



USPI Sample Probe

- Sampling Pressure: 5-125 psi
- Working Pressure: 1,000 psi
- Patented face sealing method
- Viton seals (-15°F to +400°F)

US Petrolon **Low Pressure Sample Probe**

The USPI sample probe contributes to a proactive maintenance approach by enabling you to draw hot fluid from an active circuit while the equipment is running. This provides a well-mixed and representative fluid sample for accurate oil analysis that helps to keep equipment operating smoothly.

The USPI **low pressure** sample probe is designed for use on filtration systems for vacuum pumps, hydraulics, gearboxes, and other low pressure systems.

For help drawing an accurate oil sample, please see the SOPs on our website (www.uspetrolon.com/resources) or view the training video on our website (requires login).

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