

*Stronger
together!*

LEADER + **h₂O** 
innovation®

TRADITION MEETS INNOVATION



2023

**MAPLE SUGARING
EQUIPMENT**

STRONGER TOGETHER



The 2022-2023 season is shaping up to be rich in growth opportunities for our maple business line. The acquisition of Leader Evaporator in late June 2022 has allowed us not only to double our revenues, but also to expand our presence in the U.S. with over 75 distributors and a 103,780 sq. ft. plant in Swanton, Vermont. As a result, maple syrup producers can now count on a network of 100 distributors in North America to provide them with equipment of unparalleled quality and reputation.

Together, H2O Innovation and Leader Evaporator represent the perfect union between innovation and tradition. They also benefit from 150 years of evaporation expertise and reputation, combined with a common desire to transform maple syrup production by integrating high-performance technologies and undeniable membrane filtration expertise. This partnership offers our customers an array of top-of-the-line products manufactured on both sides of the border.

The teams at our Ham-Nord (Quebec) and Swanton (Vermont) manufacturing plants are more motivated than ever to meet the high demand for our products. Furthermore, our recent investments and the acquisition of a brand-new extrusion line at the Swanton plant will allow us to expand and optimize our production in Ham-Nord. With these investments, which amount to nearly \$1 M, we can increase our production capacity and offer more quality products that are up to the high standards of maple syrup producers.

The union between H2O Innovation and Leader Evaporator has provided us with a comprehensive line of maple syrup products and equipment to better meet the needs of small and large producers alike. We are driven by the idea of supporting maple syrup producers in their beginnings and in all stages of their growth. We also strive to help them become more efficient and produce high-quality maple syrup by giving them access to products and technologies that can be easily adapted to their ever-changing needs.

Our daily mission is to provide you with the best possible service. That is why we have also added resources to our service team. In addition, we have recently launched the H2GO™, a self-serve store located inside a container that is accessible 24 hours a day, 7 days a week. This innovation is the first of its kind in the North American maple syrup industry and allows producers to access the products they need 24 hours a day, 7 days a week.















Year after year, we continue to invest in our maple syrup business line, to develop new high-performance products, and to offer a personalized service to our customers.

Thank you for your continued trust. Have a great maple syrup season!

A stylized, handwritten signature in black ink, consisting of several fluid, connected strokes.

Frédéric Dugré
President & CEO

FOLLOW THE SAP

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LEADER 5/16" SPOUTS

LEADER



THE CHECK VALVE

Leader proven technology effectively eliminate the backflow of sap from the tubing system, and, as a result, increase sap production in two ways:

- Sap that leaves the hole during short sap runs cannot be pulled back by the tree as it freezes.
- Contaminated sap from the tubing system is prevented from being pulled back into trees, extending the sugaring season and substantially increasing sap production.

THE VALUE OF COLOR

We have introduced color to some of our most popular spouts and adapters in order to help you color-code your woods, to help make your operation more efficient and profitable. Alternate colors annually to eliminate yield loss from reusing old spouts forgotten from the previous year.

	○	●	●	●	●	●
Clear Check Valve Spout	4712	—	4712R	4712B	4712Y	4712G
Check Valve Adapter	4111	4711	4111R	4111B	4111Y	4111G
Clear 5/16" Spout	4713	—	4713R	4713B	4713Y	4713G
Spout Adapter	4116	4716	4116R	4116B	4116Y	4116G



CHECK VALVE SPOUT

		Centre ACER	Cornell
Net Gain (USD) Additional revenue from <u>each</u> Check Valve spout		\$2.19	\$2.24
Annual Yield Increase (%)		20%	26%
Net Gain (USD) Potential as various sugarbush sizes	5 000 taps	\$10 400.00	\$10 650.00
	10 000 taps	\$20 800.00	\$21 300.00
	20 000 taps	\$41 600.00	\$42 600.00



Check out Dr. Tim Perkins at UVM Proctor Maple Research Center video on YouTube!

Test	Annual volume (gal.)	Average at 2 Brix (lbs)	Bulk syrup revenue per tap	Bulk syrup Price/lb (USD)	Total gain	Difference Check Valve vs Standard
Check Valve Spout	23.35	5.94	\$14.85	\$2.50	\$2.45	\$0.26
Standard spout	19.5	4.96	\$12.40	-	-	-
Check Valve Spout	18.9	4.81	\$12.03	\$2.50	\$2.50	\$0.26
Standard spout	15	3.81	\$9.53	-	-	-

*Results come from 2 research centers in different regions with advanced control sites.

708 SERIES

With a reduced drilling diameter of 1/4", it will minimize the zones affected by the tapholes. Offered in blue, black and now white. The compartmentalization zone is the area of dead wood caused by a taphole. The diameter and depth of the hole have a great influence on the extent of this area. Recent studies have demonstrated that by switching from a 19/64" to a 1/4" spout, the compartmentalization area decreases two to three times. If the growth sustainability of your forest is a priority, the 1/4" spouts from the 708 Series is the wise choice. Tap hole : 1/4".



Blue spout 1/4", 5/16" connection
ERAH20708-B



Black spout 1/4", 5/16" connection
ERAH20708



White spout 1/4"
ERAH20708W

BIO-SEAL

COMPATIBLE WITH THE 708 SERIES



- Ensures absolute seal to avoid presence of oxygen and micro-leaks at the taphole for better annual production.
- Facilitates tapping by requiring only one slight tap, reducing the risk of cracking.
- Reduces the risk of the bark being damaged when untapping, an observed phenomenon when a conventional spouts' plastic sticks to the maple trees during tapping season.

H2O is constantly on the lookout for innovations that will improve the performance of producers and their forest management, while prioritizing sustainable development and the health of maple trees; the Bio-Seal is the perfect example.

Tap hole : 19/64"



BIO-SEAL

Bio-Seal
ERAH20408

5/16" SPOUTS

WITHOUT
MOLDING LINE
WITHOUT
COMPROMISE



704 SERIES

This spout is also known as DU-EAU from the original Darveau's recipe. With its two barbs and its oversized head, it is appreciated for its lifespan and its performance. Available in 2 colors : black or blue. Tap hole : 19/64".



Black Du-Eau 19/64" spout
ERAH20704



Blue Du-Eau 19/64" spout
ERAH20704B

705 SERIES

Offered in black, blue or white, they are the most popular H2O spouts because of its best quality-price ratio. It is the perfect compromise between an extended lifespan and a perfect sealing. Tap hole : 19/64".



19/64" Black spout
ERAH20705



19/64" Blue spout
ERAH20705B



19/64" White spout
ERAH20705W

709 SERIES

This polycarbonate clear spout is made with thin wall technology that ensures the best sealing at the tap hole. By its perfect transparency, it is easy to see sap running through it. Tap hole : 19/64".



Clear 19/64" thin wall spout
ERAH20709C

CLEAR ADAPTERS



Straight clear spout 19/64", seasonal
ERAH20706C



Straight clear spout 1/4", seasonal
ERAH20707C



Clear reducing female spout 19/64", seasonal
ERAH20703C

TAPPING BITS

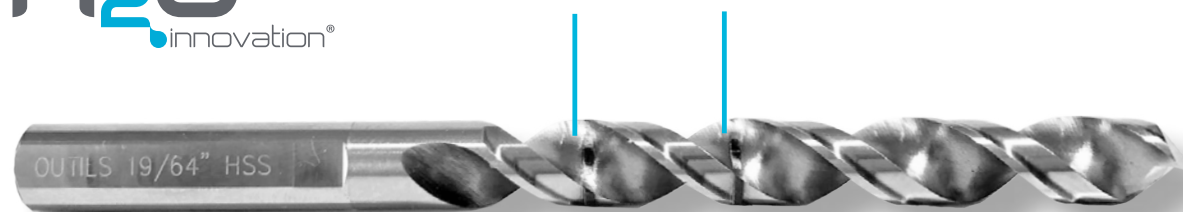
TAPPING BITS

H2O Innovation's tapping bits are sold with a protective case.

Sharpened with precision. for neat and precise tapping.
Laser drawn lines to 1-1/2" and 2".



Visual guides
2" 1 1/2"



Check out the demo on our YouTube channel!

H2O Innovation



H2O Innovation's tapping bit

ERA412107H	1/4"
ERA412106H	19/64"
ERA412105H	5/16"

*Comes with a protective plastic case for each bit



Bolduc



Bolduc's tapping bit

ERA412107	1/4"
ERA412106	19/64"
ERA412105	5/16"

Leader



5/16" Tree Saver Bit, 3 1/2" length

63055	5/16"
-------	-------

Tapping is the most important job of the year in the sugarbush. Start by using the best materials: H2O Innovation, Bolduc, and Leader tapping bits are designed to be extremely sharp and provide debris free cleaning.

Studies have shown that taphole depth may play an important role in sap production and overall tree health. Recommended at depths of 1 1/2" to 2" deep depending on tree size, the H2O Innovation bit has two clear depth markers for the perfect taphole, every time. The H2O Innovation bit is engineered with tap consistency in mind. The Leader bit is ideal for smaller 10"-12" trees improving cleanout speed and eliminating bark tearing. They also have a reduce head point to prevent the bit from "walking" when starting the hole.

5/16" TEES

h₂O ^{innovation} + LEADER

5/16" TEES



Long female tee-plug 5/16"

ERAH20713

Female tee-plug 5/16" with
plug adapter

ERAH20718



Female tee-plug 5/16"

ERAH20715



Male tee-pin 5/16"

ERAH20714

Red male block-tee,
50/50 left & right

ERAH20714R

Red long female block-tee,
50/50 left & right

ERAH20713R

Red female block-tee,
50/50 left & right

ERAH20715R



Tee with plug

4737



Green dead end tee LEFT

4744L



Red dead end tee RIGHT

4744R

DID
YOU KNOW?

Using dead end tees can save time and money in the woods? Sap flow for the last tubing loop on the tree is completely shut off and stopped by the fitting. The result is a significant reduction in tubing leaks caused by squirrel chews from the end tree loop

5/16" ADAPTERS AND REDUCERS

ADAPTERS



5/16" End of line hook plug
ERAH20819



Hook for slide fitting
ERAH2081525



End of line black ring
ERAT1400



Union hook 5/16"
ERAH20813



End hook for 5/16"
4745



Long female slide fitting
for 5/16" tubing
ERAH20815



Long female black end of line
elbow hook
ERAH20817



Hooked connector*
4710



End ring**
4738



Slide fitting for 5/16" with pin
4743

**The ultimate way to secure your 5/16" lateral lines to the end tree; no "dead" area in the tubing for bacteria to grow.

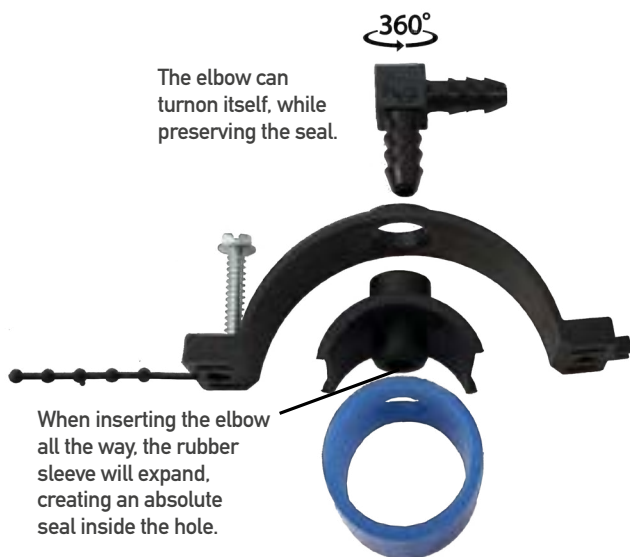
*New & Improved! Reduces unwanted tension on mainline entrance fittings. Doubles as a straight connector.



5/16" ELBOW SADDLE TEES

h₂O⁺ + LEADER

Renowned for its unparalleled sealing, it ranks among the best, especially when it is used under high vacuum. With its unique rubber which follows the shape of the hole on the main line year after year, it will facilitate your management of leaks throughout the seasons!



With the swivel H₂O elbow saddle, you can avoid this problem that occurs when you have a fixed head elbow saddle!

H₂O Saddle elbow kits, 15/32" drill

ERAH20820P	3/4"
ERAH20821P	1"
ERAH20822P	1-1/4"

*Components also sold separately



5/16" Gasket

ERAH20829



Saddle elbow screw

W-VISZINC



5/16" Elbow

ERAH20720



Saddle clamp

ERAH20825	3/4"
ERAH20826	1"
ERAH20827	1-1/4"



STEP 1

Insert the rubber in the 15/32" hole previously drilled



STEP 2

Install the saddle around the mainline, and temporarily attach it



STEP 3

Insert the elbow all the way in



STEP 4

Secure with the screw



LEADER

Leader quick seal mainline entrance fitting
*sized for blue mainline

4708	3/4" quick seal
4708G	3/4" replacement gasket
4706	1" Quick seal
4706G	1" replacement gasket

3/16" FITTINGS



Blue spout 19/64", 3/16"
ERAH20705-3B



Black spout 19/64", 3/16"
ERAH20705-3



Leader clear 3/16" spout
4113



Leader clear-valve spout, 3/16"
4112



Female tee-plug 3/16"
ERAH20715-3



Red block-tee 3/16"
ERAH20715R-3



Reduced elbow 5/16" to 3/16"
ERAH20720-3



Slide fitting for 3/16" tubing
ERAH20815-3



3/16" drop for 5/16" lateral
ERAH20712

ERAH20712

In recent years, it has been shown that 3/16" diameter tubing helps create additional vacuum upstream when the tube is full. Although, the slope must be steep enough that the vacuum effect is created.

Unfortunately, sugarbushes do not always come with ideal topography characteristics for this type of installation. It is therefore logical to believe that this effect could be observed using 3/16 drops on a 5/16 tubing network.

Recently, some producers have in fact observed an additional vacuum was indeed created by using 3/16 on a 5/16 lateral. The H2O 712, paired with a 705-3 spout, was exactly designed for this sole purpose.



3/16" End of line hook plug
ERAH20818



Hook connector 3/16" to 3/16" tubing
4100



Hook connector 3/16" to 5/16" tubing
4101



Elbow saddle kit for 3/16" tubing.
15/32" drill

ERAH20820-3P	3/4"
ERAH20821-3P	1"
ERAH20822-3P	1-1/4"

BENEFITS OF 3/16"

- Creates a natural vacuum
- Improve performance even without a releaser or vacuum pump
- Up to 27 inHg vacuum potential!

3 crucial tips to maximize sap yield:

- Have a leak-free line
- Have an elevation between the first tap and the mainline
- Have a height difference to create the suction effect
(a minimum of 30 ft. is necessary to create the highest vacuum effect)

MAPLE SUGARING KITS AND SAP COLLECTION

h₂O innovation + **LEADER**



MAKE YOUR OWN MAPLE SYRUP!

BUCKET MAPLE SUGARING KIT

INCLUDED

Tapping bit
Thermometer
10 x 5/16" Spouts
10 Buckets
10 Bucket lids
Syrup filter
3 Leaf bottles
with caps (250 ml)
User Guide



Bucket maple sugaring kit - 10 taps
ERA-SIROP10

TIRED OF PICKING UP BUCKETS?

TUBING MAPLE SUGARING KIT

INCLUDED

2 Green Flex rolls of 5/16"
Tapping bit 1/4"
60 x 1/4" Spouts
55 long female tee-plugs
5 end of line elbow hooks
5 slide fittings with hooks
5 union hooks
6 way star 5/16" x 1/2" NPT
12V pump
Wooden hammer
User Guide



Tubing maple sugaring kit - 60 taps
ERA-SIROP60



12V Pump
SHUMA532-12V

TRADITIONAL SAP COLLECTION



5/16" Tree Saver spout
ERAPB-TSS | 5611



Sap bucket - 2 US gal. (8 3/4" dia.)
ERAPB2-PSB



Sap bucket - 3 US gal. (8 3/4" dia.)
5609



Sap bucket cover (10" x 10")
ERAPB-PSBL-2 | 5610

5/16" TUBING & PRE-CUT DROPS



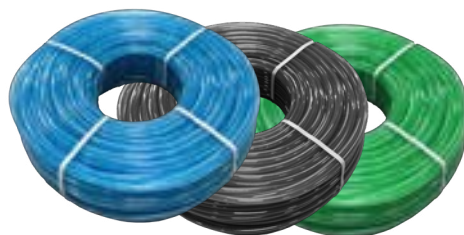
Flex Series

H2O Innovation's Flex Series tubing has proven itself. Flexible, high-quality formula will maintain wall memory & integrity through rugged, sugarbush conditions, year after year. It also offers an excellent adhesion on fittings which is ideal when making drops.

H2O Innovation 5/16" Flex tubing

Product No.	Description
ERATUY5/16H2OFLEX	Blue H2O Innovation flex tubing, 5/16", 500 ft., 15 years
ERATUY5/16H2OFLEX-GRIS	Gray H2O Innovation flex tubing, 5/16", 500 ft., 15 years
ERATUY5/16H2OFLEX-VERT	Green H2O Innovation flex tubing, 5/16", 500 ft., 15 years

NOTE: 60 rolls per pallet



G7 Semi-Rigid Series

Designed for producers with increased tension and tighter installation applications. The G7 semi-rigid tubing allows a longer distance between fittings without sagging. This resin, specially formulated for maple sugaring makes it a premium quality product on the market.

H2O Innovation G7 5/16" Semi-rigid tubing

Product No.	Description
ERATUY5/16G7	Green H2O Innovation G7 semi-rigid tubing, 5/16", 500 ft., 15 years

NOTE: 60 rolls per pallet



Semi-Rigid Series

The answer for producers looking for a tubing offering a good compromise between rigidity and flexibility. It's also the most economic option.

H2O Innovation 5/16" Semi-rigid tubing

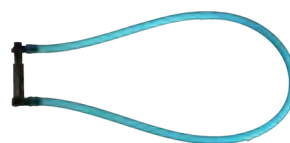
Product No.	Description
ERATUY5/16H2OSR-BR	Royal blue H2O Innovation semi-rigid tubing, 5/16", 500 ft., 15 years
ERATUY5/16H2OSR-V	Green H2O Innovation semi-rigid tubing, 5/16", 500 ft., 15 years

NOTE: 60 rolls per pallet



H2O Innovation 5/16" assembled or pre-cut drops

Product No.	Description	Qty. per box
ERACHUTASS	Drops assembly	-
ERATUYCH30FB	Tube for drops 5/16" X 30" 15 years	350
ERATUYCH32FB	Tube for drops 5/16" X 32" 15 years	350
ERATUYCH34FB	Tube for drops 5/16" X 34" 15 years	350
ERATUYCH36FB	Tube for drops 5/16" X 36" 15 years	350
ERATUYCH38FB	Tube for drops 5/16" X 38" 15 years	350
ERATUYCH40FB	Tube for drops 5/16" X 40" 15 years	350
ERATUYCH42FB	Tube for drops 5/16" X 42" 15 years	350
ERATUYCH48FB	Tube for drops 5/16" X 48" 15 years	350



MULTIPLE BENEFITS

- Excellent adhesion on fittings
- Constant diameter
- Always straight
- Resistant & flexible

5/16" TUBING

LEADER

Leader 30PLeader's most rigid tubing formula. Ideal for flat woods installations.

This lateral line plastic tubing is made from virgin polyethylene and meets the highest standards for quality maple tubing. With the smoothest interior wall in the maple industry, it is ideal for new, high-output tubing systems looking for maximum flow and optimal sap quality. The ultra-violet characteristic of this plastic tubing allows sunlight to pass through, as the plastic walls are very clear. This limits heating of sap within the tubing system.

Leader 30P, 5/16" tubing

Product No.	Description
4730PB	Blue Leader 30P, 5/16" tubing, 500 ft., 10 years

Leader Max Flow Grip

More flexible than our 30P tubing, Max Flow Grip's locked-on grip helps eliminate fittings pulling apart from tension and stress over years of use. When a tree limb or snow knocks the tubing down, it will spring back close to how it was originally hung.

Leader Max Flow Grip, 5/16" tubing

Product No.	Description
4701	Blue Leader Max Flow Grip, 5/16" tubing, 500 ft., 10 years
4701GRN	Green Leader Max Flow Grip, 5/16" tubing, 500 ft., 10 years

**MOST
POPULAR!****UNI 50**

This is our newest 5/16" semi-rigid tubing. Flexible enough to be used for drops and strong enough to be used for lateral lines. This tubing can do it ALL!

Leader UNI 50 semi-rigid 5/16" tubing

Product No.	Description
4702	Blue Leader UNI-50 semi-rigid tubing, 5/16", 500 ft., 10 years

Leader Max Flow Flex

Designed as drop-line tubing, this is our most flexible offering. It has been tested and shown to have a remarkable bond to tubing fittings – a bond that is nearly impossible to break by spinning or tension. The supple walls allow it to fill in around each barb for ultimate holding power that eliminates costly leaks. Its flexibility makes it great for drop lines, especially on colder days, yet it is strong and durable enough to be used as a lateral line tubing if desired.

Leader Max Flow Flex, 5/16" tubing

Product No.	Description
4700	Blue Leader Max Flow Flex, 5/16" tubing, 500 ft., 10 years
4700Y	Yellow Leader Max Flow Flex, 5/16" tubing, 500 ft., 10 years
4700O	Orange Leader Max Flow Flex, 5/16" tubing, 500 ft., 10 years
4700P	Pink Leader Max Flow Flex, 5/16" tubing, 500 ft., 10 years



A portion of profits from sales of our new
PINK TUBING will be donated to
BREAST CANCER RESEARCH



5/16" PRE-CUT DROPS + 3/16" TUBING & DROPS



Leader 5/16" pre-cut drops

Because our drops are cut directly off the tubing manufacturing line, they remain perfectly straight. Save time and money by not having to manually cut drops, or to deal with drops that curl.

Leader Flex 5/16" pre-cut drops

Product No.	Description
4700DB36	Blue flex tube for drops 5/16" x 36", 10 years
4700DG36	Grey flex tube for drops 5/16" x 36", 10 years
4700DO36	Orange flex tube for drops 5/16" x 36", 10 years
4700DP36	Pink flex tube for drops 5/16" x 36", 10 years
4700DY36	Yellow flex tube for drops 5/16" x 36", 10 years



Leader UNI-50, 5/16" pre-cut drops (2000 drops min. order)

Product No.	Description
4702D	Blue UNI-50 tube for drops 5/16", 10 years

3/16" Leader Max Flow 50

Semi-rigid blend with superior seal strength for the greatest hold on fittings. Enhanced flexibility and retraction memory maintains the tubing's diameter and durability in even the harshest of winter conditions. Can be used as lateral line or in drop line applications. Improved clarity: deep blue color increases woods and sap visibility.



Leader Max Flow 50, 3/16" tubing

Product No.	Description
473800	Blue Leader Max Flow 50, 3/16" tubing, 800 ft., 10 years
473800G	Green Leader Max Flow 50, 3/16" tubing, 800 ft., 10 years
473800Y	Yellow Leader Max Flow 50, 3/16" tubing, 800 ft., 10 years



H2O Innovation 3/16" Semi-rigid

H2O Innovation 3/16" tubing

Product No.	Description (120 rolls per pallet)
ERATUY3/16H20G-V	H2O Innovation semi-rigid tubing, 3/16", 500 ft., 10 years



H2O Innovation 3/16" pre-cut drops (2000 drops min. order)

Product No.	Description	Qty. per box
ERATUYCH30GV-3	Tube for drops 3/16" X 30", 15 years	700
ERATUYCH36GV-3	Tube for drops 3/16" X 36", 15 years	700



MD MAINLINE - 140 PSI & MAINLINE - 100 PSI

H2O Innovation mainlines

The H2O Innovation mainlines are designed to meet the requirements of maple syrup producers. The resin used makes it a smooth and easy to clean pipe. Available in blue or black. The color black is normally chosen by producers who want a mainline that heats faster for cold woods applications. As for blue, it is often chosen for the warmer maple groves (southern slope) for a pipe that heats up at a slower pace.

Black mainlines

MD 140 PSI	100 PSI	Description
ERATMLMD007NR	ERATML007NR	3/4" 140 PSI black - roll 500'
ERATMLMD007NB	ERATML007NB	3/4" 140 PSI black - spool 2500'
ERATMLMD010NR	ERATML010NR	1" 140 PSI black - roll 500'
ERATMLMD010NB	ERATML010NB	1" 140 PSI black - spool 2000'
ERATMLMD012NR	ERATML012NR	1" 1/4 140 PSI black - roll 500'
ERATMLMD012NB	ERATML012NB	1" 1/4 140 PSI black - spool 1000'
ERATMLMD015NR	ERATML015NR	1" 1/2 140 PSI black - roll 500'
ERATMLMD015NB	ERATML015NB	1" 1/2 140 PSI black - spool 900'
ERATMLMD020NR	ERATML020NR	2" 140 PSI black - roll 250'
ERABOB		Empty spool (returnable if in good condition)



Blue mainlines

MD 140 PSI	100 PSI	Description
ERATMLMD007BR	ERATML007BR	3/4" 140 PSI blue - roll 500'
ERATMLMD007BB	ERATML007BB	3/4" 140 PSI blue - spool 2500'
ERATMLMD010BR	ERATML010BR	1" 140 PSI blue - roll 500'
ERATMLMD010BB	ERATML010BB	1" 140 PSI blue - spool 2000'
ERATMLMD012BR	ERATML012BR	1" 1/4 140 PSI blue - roll 500'
ERATMLMD012BB	ERATML012BB	1" 1/4 140 PSI blue - spool 1000'
ERATMLMD015BR	ERATML015BR	1" 1/2 140 PSI blue - roll 500'
ERATMLMD015BB	ERATML015BB	1" 1/2 140 PSI blue - spool 900'
ERATMLMD020BR	ERATML020BR	2" 140 PSI blue - roll 250'
ERABOB		Empty spool (returnable if in good condition)



Leader 30P Mainline

Product No.	Description
4743U	1/2" light blue - roll 100'
4743U1	1/2" light blue - roll 400'
4744U	3/4" light blue - roll 100'
4744U1	3/4" light blue - roll 300'
4744U2	3/4" light blue - roll 500'
4744U3	3/4" light blue - roll 1000'
4745U	1" light blue - roll 100'
4745U1	1" light blue - roll 200'
4745U2	1" light blue - roll 500'
4745U4	1" light blue - roll 1000'
4746U	1-1/4" light blue - roll 100'
4746U2	1-1/4" light blue - roll 400'
4747U	1-1/2" light blue - roll 100'
4747U3	1-1/2" light blue - roll 400'

CHARACTERISTICS

- Smooth inner walls for less bacteria buildup
- Light color to see sap movement
- Light color to keep sap cooler
- LDPE for less thermal expansion



Leader 20P Mainline

Product No.	Description
47560500	3/4" blue - roll 500'
475601000	3/4" blue - roll 1000'
475601500	3/4" blue - roll 1500'
47561500	1" blue - roll 500'
475611000	1" blue - roll 1000'
475611500	1" blue - roll 1500'
47562250	1-1/4" blue - roll 250'
47562500	1-1/4" blue - roll 500'
47562800	1-1/4" blue - roll 800'
47563250	1-1/2" blue - roll 250'
47563500	1-1/2" blue - roll 500'
47563800	1-1/2" blue - roll 800'
47564250	2" blue - roll 250'
47564500	2" blue - roll 500'



The 20P tubing formula reduces weight and maintains rigidity. 20P is manufactured with high quality materials and provides an economical installation solution. Deep blue color increases woods and sap visibility for faster identification of leaks.

CHARACTERISTICS

- Stainless steel fittings recommended

STAINLESS STEEL FITTINGS



Stainless steel end hook



S/S Barb Tee



Stainless steel male adapter, ins. X MPT



S/S Barb Coupling



S/S Barb Y



S/S Barb Adapter x MPT



S/S Ball Valves with Barbs



Stainless steel sanitary quick connector (alone or in kit)



S/S Barb Reducing Y



Stainless steel coupler



Stainless steel Y



Stainless steel tee



100% stainless steel heavy duty clamps



100% stainless steel clamps



Mainline Plugs

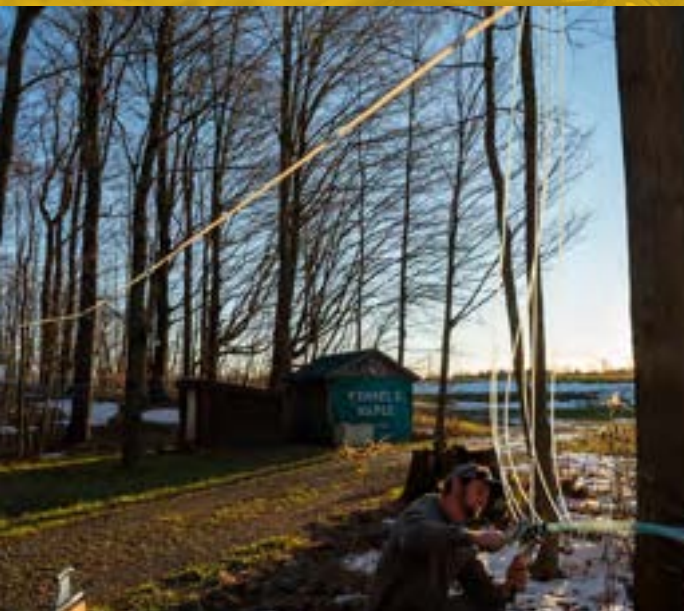


Y (plastic)



Mainline tee

FLAT WOODS & LIFTING SAP



UTILIZE 3/16" TUBING AND H₂O SADDLES TO IMPROVE SAP LADDERS

Nick Wendel of Wendels Maple and more, in East Concord NY, has been utilizing H₂O Innovation saddles and Leader 3/16 tubing to lift sap with vacuum and increase flow with the smaller diameter tubing. Sap lifts of this kind can be an effective way to get sap out of the woods when trees are below grade. Lift sap up to 16 ft.!



**QUESTIONS
ABOUT LIFTING SAP?**

**ASK AN EXPERT,
WE'RE HERE TO HELP!**

Check out the demo
on our YouTube channel!



Saddle elbow kits, 15/32" drill

ERAH20820-3	3/4"
ERAH20821-3	1"
ERAH20822-3	1-1/4"



End cap for 1/2" mainline fittings

4766	5/16"
4766A	1/2"

MAINLINE STARS - SAP LADDER FITTINGS



3-way star 5/16" x 1/2" NPT
ERAMJM753



4-way star 5/16" x 1/2" NPT
4765



6-way star 5/16" x 1/2" NPT
ERAMJM756
4765A



Female plug 5/16"
ERAH20736

PRUNO TOOLS

SPOUT PULLERS



Aluminum spout puller

ERA41271824	15"
ERA41271827	27"
ERA41271836	36"
ERA41271828	48"



Double hybrid spout puller

ERA412718401	15"
ERA412718402	27"
ERA412718403	36"
ERA412718404	48"



Steel double spout puller,
pocket-size 8"

ERA41271854



Universal 15" spout puller

ERA412718561

PLIERS & ACCESSORIES



Stainless steel wire tie installation hook

ERA41271927	0 - 1 ¹ / ₄ "
ERA41271928	0 - 2"



Aluminum wire tie installation hook

ERA41271926	0 - 1 ¹ / ₄ "
ERA41271925	0 - 2"



Tubing plier

ERA41271915-1	3/16"
ERA41271915	5/16"

*To use for mainline broaching on galvanized wire



Automatic tension
cut vacuum plier

ERA41271919



Manual cut vacuum plier

ERA41271921



Deluxe installation pliers with
knife and flaring

ERA41271101



Deluxe installation pliers with knife

ERA41271106



PLIERS

PLIERS



Compact plier with blade

ERA41271050



Deluxe installation tool
(without blade and flaring)

ERA41271130



Light tubing plier with blade

ERA41271108



Automatic adjustment repair tool

ERA41271401



Light tubing plier

ERA41271109



Manual adjustment tubing plier

ERA41271141



4 function stripping plier

ERA41271210



Manual adjustment repair tool

ERA41271441

MAINLINE PLIERS



Mainline pliers

ERA41271500 3/4" - 1"

ERA41271510 1" - 1-1/4"

ERA41271520 1-1/4" - 1-1/2"

ERA41271530 1-1/2" - 2"

ERA41271532 1" - 2"

3/16" TOOLS



Compact insertion pliers
with knife 3/16"

ERA412710501



Compact insertion pliers 3/16"

ERA412710506



Compact insertion pliers 3/16"

ERA412710551



Compact insertion pliers 3/16"

ERA412710651

PUNCHES



Hole punch tool 31/64" red for 881

ERA41271300



Red drill bit with handle 31/64"

ERA41271301



Green hole punch tool 15/32" for
820 & 821

ERA41271310



Green drill bit with handle 15/32"

ERA41271311



Green bit for mainline punch - 15/32"

47720



Yellow drill bit with handle 5/16"

ERA41271331



Drill bit 31/64"

ERA41271302



Drill bit 15/32"

ERA41271312

LOAC TOOLS (aluminum)

MISC. TOOLS



Side tie adjuster

ERA412932 22.5"

ERA412933 30"

ERA412930E Telescopic 30"



Cut flow plier

ERA412943



Food-grade lubricant 120 ml

ERA412904



SPOUT PULLERS



Paint spout puller

ERA412950 30"

ERA412951 48"



Rotating spout puller

ERA412922R 20"

ERA412923R 30"

ERA412924R 40"



Spout puller (all sizes)

ERA412921 20" (XS)

ERA412922 22.5" (S)

ERA412923 30" (M)

ERA412924 40" (L)

ERA412925 48" (XL)

ERA412926 60" (XXL)

HAMMERS



Bark chipping hammer 10"

ERA412914



2-faced hammer

ERA412911

PLIERS



Universal installation clamp plier
5/16" aluminum

ERA412941



Universal plier 3/16"

ERA412942

SPARE PARTS



ERA4129



ERA412940-1

LOAC repair parts

ERA4129 Foam handle

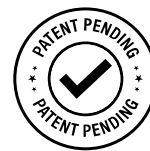
ERA412940-1 3/16 & 5/16 blade

ERA412940-2 LOAC magnet for plier

ERA412940-3 Bolt

ERA41294 Spring

ERA412LPIBCPP LOAC plier spring



**4
USES!**

ADAPTER
SEPARATOR,
PULLER, SCRAPER
& TAPPING
HAMMER.

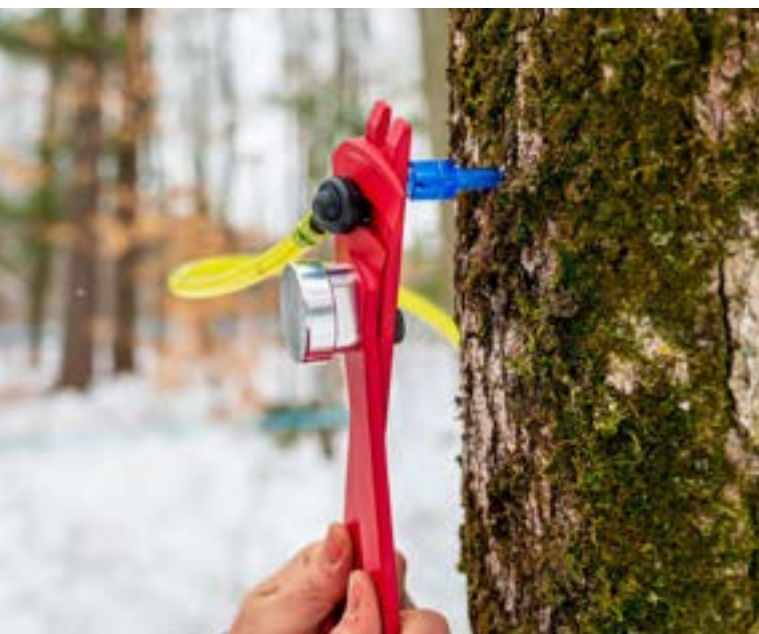


Adapter Separator

CHARACTERISTICS

- Equalized, engagement pressure pops stubby's loose with ease
- Lightweight & foldable aluminum design
- Protective coating for harsh environments
- Secondary spout puller and hammer

**COMING
SPRING 2023!**



MISCELLANEOUS TOOLS

ASSEMBLY



One-hand tubing fitting assembly tool
4791A

CUTTERS



Kwik-cut mainline cutter, large
4795 L | 1/8" x 1-5/8"
4796 XL | 1/8" x 1-7/8"



Tubing cutter for 5/16 tubing
4790 Small & efficient
4790A Extra cutting blades

HAMMERS



Metal handle, metal head
4403



Nylon handle, metal head
4401



Wooden handle, plastic head
4400



Wooden handle, metal head
4402



Wooden hammer
ERA412MARTEAUC



LineViper™
Multi-tool tapping plier
ERA4128101AR



H₂O pressure gauges, 2.5"
back mount, glycerine 1/4 NPT, s/s
FLOY63BL-30 -30 psi
lower mounts
FLOY63BTL-30 -30 psi



Pressure gauge adapter
ERAMJM884
ERA41271942 cone 1/4" NPTF



Orange apron with 6 pouches
ERA412TAB6



Tension hooks
ERA41271904
ERA41271905 5/16" & 3/16"



Non-toxic paint | Nelson
NELPN201 Red
NELPN211 Orange
NELPN212 Yellow
NELPN213 Blue



Flagging tape
RVE-30 Yellow
RVE-20 Orange
RVE-70 Green
RVE-50 Red
RSE-10 Pink/Black



Mail box
PFH425BOILET
Two identification plates
personalized for letterbox
SPH-425BOILETNOM

TUBING SPOOLERS



Spinning wire spooler w/ adjustable break
4729



Adjustable spinning wire
and tubing spooler
ERA41271625



All stainless steel tubing spooler
4731



Horizontal suspended tubing spooler
(opt. base)

ERA41271600 spooler & base

ERA41271610 spooler only



Horizontal aluminum suspended
tubing spooler

ERA41271615



Vertical tubing spooler

ERA41271635



Stainless steel mainline, tubing & wire
spooler (fully adjustable)

4736 Complete spooler

4736E Extension ring



Manual wire twister

ERA41271901



Hand-tying tool - 17 ga. wire ties

4771



Automatic wire twister

ERA412169973



Automatic wire tying tool

4782



High-tensile wire cutter

4794



Wire tensioning handle

4728



Wire tension tool #9 & 12 with spring

ERA41271576



Mainline level hooks

ERA41271902

FENCING

Mainline support wire & galvanized side tie wire

Product No.	Dimensions
ERABRCAR9-50	Mainline support wire # 9 - 50 lbs aluminium clad steel
ERABRCARGALV9-50	Mainline support wire # 9 - 50 lbs galvanized steel clad (strongest / high tensile)
ERABRUNI9-50	Mainline support wire # 9 - 50 lbs galvanized steel - 900 ft. approx
ERABRUNI12-10	Side tie wire # 12 - 10 lbs - 345 ft. approx.
ERABRUNI12-50	Side tie wire # 12 - 50 lbs - 1 735 ft. approx.
ERABRUNI14-10	Side tie wire # 14 - 10 lbs - 580 ft. approx.
ERABRUNI14-50	Side tie wire # 14 - 50 lbs - 2 465 ft. approx.
4776	Mainline support wire # 9 - 50 lbs - 850 ft. approx.
4725	High tensile # 12 ½ - 52 lbs - 2 000 ft. approx.
4777	Side tie wire with spooler, 600 ft. per spool



4776



4777



4725

Wire ties 16 & 17 ga.

Product No.	Dimensions
4768	4" for tubing ½" - 1000/coil (17 ga.)
4769	5" for tubing ¾" - 1000/coil (17 ga.)
4770	6" for tubing 1" - 1000/coil (17 ga.)
4770A	8" for tubing 1 ¼" - 1 ½" 1000/coil (17 ga.)
4770C	10" for tubing 2" - 1000/coil (17 ga.)
4770D	12" for tubing 2" + 1000/coil (17 ga.)
4763	8" for tubing 1 ¼" - 1 ½" 1000/coil (16 ga.)
4769A	6" for tubing 1" - 1000/coil (16 ga.)



Wire ties 18 ga.

Product No.	Dimensions
ERABRTWIS5	5 ½" for tubing ¾" - 2 500 pkg
ERABRTWIS6	6" for tubing 1" - 2 500 pkg
ERABRTWIS7	7" for tubing 1 ¼" - 2 500 pkg
ERABRTWIS8	8" for tubing 1 ½" - 2 500 pkg
ERABRTWIS10	10" for tubing 2" - 2 500 pkg
ERABRTWIS12	12" - 2 500 pkg
ERABRTWIS14	14" - 2 500 pkg



ERABRTWIS6

Splices & Gripples

Product No.	Dimensions
ERAPEISS9	Splice for #9 wire (per pair)
ERAPEISS10	Splice for #10 wire (per pair)
ERAEPIT9	Head splice #9 (per unit)
ERAEPIT-10	Head splice #10 (per unit)
ERAGRIP12	Gripping #9 850 lbs
ERAGRIP9	Gripping #9 1200 lbs
4724	Gripping #12½
ERA412PINGRIP	Gripping pliers



ERA412PINGRIP

ERAPEISS9



ERAGRIP9



Lag Bolt with Insulator

4722

Tension grip

Product No.	Description
ERATENSION-3/4	¾"
ERATENSION-1	1"
ERATENSION-11/4	1" ¼
ERATENSION-11/2	1" ½
ERATENSION-2	2"



Wire tensioners

Product No.	Description
4727	12 ½ or 9 Ga. Wire Tensioning Device
4730	Stainless steel tensioning device. Ideal for 1 ¼" + mainline



4727



4730

smartrek

**The most reliable and most
sold** wireless monitoring and
management system
in North America.

IN YOUR SUGAR SHACKS SINCE 2011

Smartrek Technologies

The experience acquired through the years allow our team to fine tune the system and offer you unequaled quality and reliability. Sensors, installed all over sugar bushes in North America, allowing maple syrup producers to significantly increase their yield and labor efficiency. The data collected by sensors and various pumping stations are transmitted via radio waves to an application that collects the information and sends you complete and easy-to-understand reports. These reports, delivered in real time, allow you to identify the location of your leaks, increase the efficiency of your installations, monitor your tanks, and even control your devices remotely.

The Smartrek monitoring system supplied by H2O Innovation helps you to detect the various problems of your installations, and thus, help you improve your tubing network to obtain the maximum performance. Also, H2O Innovation offers an unparalleled customer service, but it is so easy to use that you won't even need it!

NEW FOR 2023

For 2023, H2O Innovation is introducing the new SMART GATEWAY powered by Smartrek. The SMART GATEWAY is the heart of your monitoring network. This device can replace the original Smartrek Starter Kit so that you can forget the electronic tablet. It communicates directly with the cloud and it is compatible with any kind of device



CONNECTIVITY

Allowing you to connect your system multiple ways

- WI-FI
- ETHERNET
- CELLULAR (upcoming 2023)



INTERNAL BACKUP BATTERY

Keeping your system up and running even if there is a power outage



POLLING PRIORITY

Choosing devices that will be updated in priority like tank-level sensors



COMPATIBILITY

Web 3.0 Application is compatible with any kind of device like iPhone, Android, computers and electronic tablets.



EASY UPGRADE

Allowing you to go from a standard gateway to the new SMART GATEWAY



WEB 3.0 APPLICATION

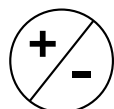
The new web 3.0 application launched before 2022 season was a total success. This platform is simple to use, reliable, and makes navigation easy. The Smartrek system gives you 24/7 real-time access to your sugarbush's key data. This is making you understand your tubing network and pumping stations to allow you to increase your performance and your profit.

The Smartrek monitoring system has multiple sensors connected via a one-step installation procedure. Data can then be consulted using the Android application provided or remotely from the Web 3.0 application if the system is configured to send information to the cloud.

Web 3.0 application compatibility:

iPhone

android



DIFFERENTIAL TOOL

Allowing to see all at once tables of vacuum classified by pumping station.



ADVANCED ALARM MANAGEMENT

allowing to receive text messages & automated calls according to the user needs.



FAST SYSTEM

Data refresh speed is customizable and allows the user to configure and tune the system to his own liking.



CHARTS

allowing you to analyze and target your problems with significant data.



OPERATIONS AUTOMATION

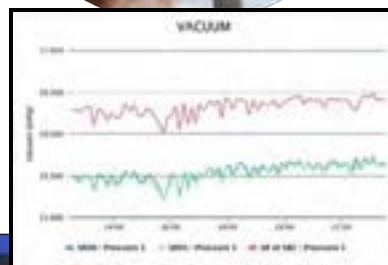
to facilitate the maple syrup producer's repetitive tasks.



INTERACTIVE SATELLITE MAP



TASK CALENDAR



STRONG AND DURABLE HOUSING



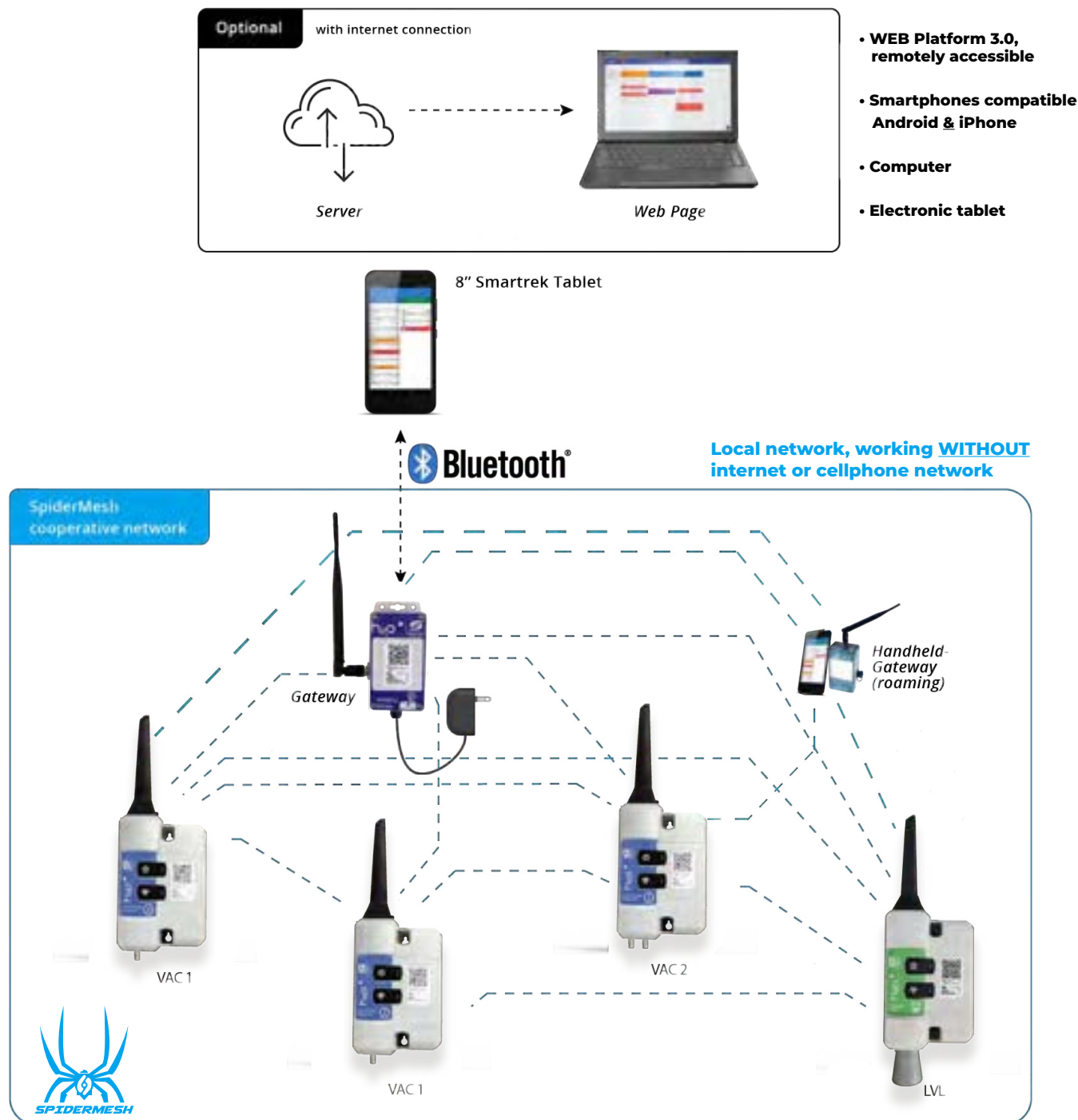
In 2018, H2O Innovation designed its own mold powered by Smartrek Technologies' technology to produce a sensor exclusively for the maple syrup industry.

The 11 years of experience and the tens of thousands of sensors installed in the woods have made it possible to develop the most rugged and durable sensor in the industry.

-  Power of communication by radio waves;
-  Smartrek devices operating everywhere, even without a cellular network or Wi-Fi;
-  3 D-type batteries for a life span of 3 to 5 seasons;
-  Toughest housing in the industry, withstands impacts & harsh weather resistant;
-  All-in-one solution with a QR code facilitating the system configuration;
-  High performance sensor probe with a precision of $\pm 0,10\text{inHg}$;
-  Outdoor temperature probe integrated to each vacuum sensor.

H2O Innovation always innovates and stands out powered by Smartrek Technologies monitoring system. Contact our team for more information or a demonstration at your sugar bush!

COMMUNICATION DIAGRAM



Smartrek's radio wave communication is very high performance. Indeed, two devices can communicate up to 10 kilometers away from each other in direct line of sight (without obstruction). In a maple grove, they will easily communicate together at a distance of 300 meters (1 000 feet). During installation, it is easy to determine if the communication is sufficient simply by watching the flashing LED on the device!

STARTER KITS

The starter kit is the heart of the Smartrek technologies monitoring system. The long-range gateway acts as a base by receiving all information from the network. The electronic tablet displays the data on its application. The system works without Internet or cellular network. To use the new 3.0 Web Platform, connect the tablet to the WiFi network. This way, it will be possible to access your system from outside your sugarbush and to enjoy the most advanced features of the 3.0 Web Platform.



SMARTREK PREMIUM

- Starter kit including long range gateway, electronic tablet and programming
- Vacuum sensor
- Indicating outside temperature
- Ultrasonic tank level sensor
- Control remotely 2 electrical devices
- Many inputs for optional readings (water meter, ampmeter, mechanical meter)

SMART-CONTROL

- Electronic tablet
- Long range gateway
- Vacuum sensor
- Indicates outside temperature
- Multifunction control sensor to remotely activate 2 electrical devices
- Many inputs for optional readings (water meter, ampmeter, mechanical meter)



SMART-STATION

- Electronic tablet
- Long range gateway
- Vacuum sensor
- Indicates outside temperature
- Ultrasonic tank level sensor



SMART-KIT8

- Electronic tablet
- Long range gateway



STARTER KITS - SMART GATEWAY

H₂O Innovation is proud to expand its offer on Smartrek starter kits with its new SMART GATEWAY. From the original starter kits offers, we replace the tablet/gateway combo with the new SMART GATEWAY. This device has interesting multiple connectivity choices (WIFI/Ethernet) and soon cellular connectivity (SIM card). No need to manage an electronic tablet anymore! With this new technology, the SMART GATEWAY is communicating directly to the Web 3.0 application. It is also compatible with any kind of device.



NEW!

SMARTREK PREMIUM-SG

- Starter kit including smart gateway and programming
- Vacuum sensor
- Indicating outside temperature
- Ultrasonic tank level sensor
- Control remotely 2 electrical devices
- Many inputs for optional readings (water meter, ampmeter, mechanical meter)

SMART-CONTROL-SG

- Smart gateway
- Vacuum sensor
- Indicates outside temperature
- Multifunction control sensor to remotely activate 2 electrical devices
- Many inputs for optional readings (water meter, ampmeter, mechanical meter)



SMART-STATION-SG

- Smart gateway
- Vacuum sensor
- Indicates outside temperature
- Ultrasonic tank level sensor



SMART-GATEWAY

- Smart gateway



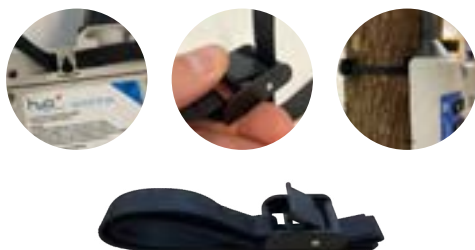
VACUUM SENSORS



Product No.	Description
SMART-VAC1	Single port vacuum sensor
SMART-VAC2	Double port vacuum sensor
SMART-VAC3	Triple port vacuum sensor

CHARACTERISTICS

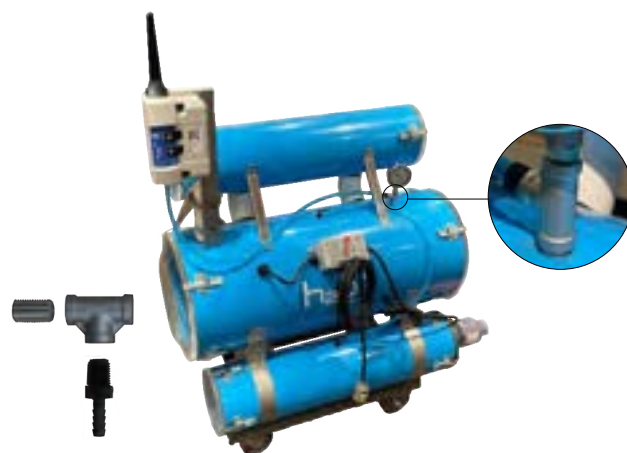
The vacuum sensor records the vacuum level in real-time. It allows you to quickly identify problems in your tubing network so that you can fix them. Batteries are included.



Tether strap for sensor
SMART-ATTACH

CHARACTERISTICS

Tether strap for Smartrek sensor. 48 inches of overall length, it also has a quick release buckle for an easy installation.



Plumbing kit to connect a vacuum sensor to the extractor

PARP4MCB4	Tubing connector - polypropylene 1/4 NPT x 1/4 insertion
SSF304A05002	Stainless steel tee 1/4" FPT
SSF304480CL	Stainless steel nipple 1/4"



Monitoring system installation
SMART-INSTALLATION

CHARACTERISTICS

Deployment of the system by an H2O technician, sensor installation in the sugarbush and network roll-out.

Not included: connection to the vacuum sensor, electrical connection for pump starter.

TANK LEVEL SENSORS



SMART-LVL

Product No.	Description
SMART-LVL	Ultrasonic tank level sensor
SPH-SMART-LVL	Stainless steel support for tank level sensor

CHARACTERISTICS

The tank level sensor measures the level of sap using ultrasound and with no contact with the sap. Batteries are included with the sensor.



SMART-SMART-LVL



Electrical water level sensor - piezometer 110v
SMART-PIEZ

CHARACTERISTICS

This sensor reads the pressure of the water column to give you an accurate reading of the level of water above it. It is used to monitor a silo or a closed tank and comes with a 5 meter wire.



ERAPRMAP-PIEZ

Product No.	Description
ERAPRMAP-PIEZ	Smartrek wireless piezometer RS-485, node only
ERAPRMAP-PIEZ-PT500	PT500 standard piezometer logger (0-10M) for RS-485 node, compatible with ERAPRMAP-PIEZ
ERAPRMAP-PIEZ-TC	Tri-clamp piezometer logger (0-10M) for RS-485 node, compatible with ERAPRMAP-PIEZ

CHARACTERISTICS

Of industrial design, this probe is used to measure the water level in all types of tanks, no matter their size whatever the height. It might be a refrigerated closed tank, or in vertical silo, the piezometer probe will provide a precise reading of the water height level. Batteries are included with the sensor.



ERAPRMAP-PIEZ-PT500



ERAPRMAP-PIEZ-TC



Stainless steel fitting for piezometer (SILO)
SPH-217XX-1000

CHARACTERISTICS

Complete kit of stainless steel fittings, ready to weld for silo type tanks. Completely weatherproof, install it on your next silo tank to pair with an Smartrek water level sensor (piezometer).

GATEWAYS, ACCESSORIES & REPEATER



SMART-GATEWAY



ERAPRMAP-GAT

Product No.	Description
SMART-GATEWAY	Smartrek smart gateway. Wifi & Ethernet connectivity, 110V with internal backup battery, 2m ethernet cable included
ERAPRMAP-GAT	Smartrek long range gateway
SAM550708	Smartrek electronic tablet & programming
SMART-DEP-ANT	Smartrek gateway antenna deportation kit, including 20-feet wire & stainless steel antenna bracket
ERAPRMAP-FIL-ANT	Smartrek gateway antenna deportation kit, including 20-feet wire & stainless steel antenna bracket



SAM550708



SMART-DEP-ANT



ERAPRMAP-FIL-ANT

CHARACTERISTICS

Allows to install the antenna outside the building while keeping the gateway inside. The antenna is fixed on a stainless steel support.



Gateway for mobile
ERAPRMAP-HAN

CHARACTERISTICS

The handheld gateway connects to an Android mobile device. It gives you access to all the data on your network, no matter where you are in the sugarbush and even while fixing leaks!

Employees can send text messages to each other through the Smartrek network and know their GPS position!



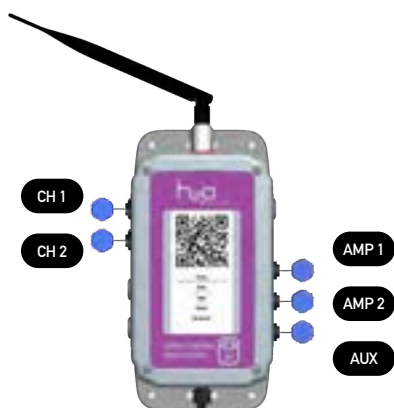
Up to 5 mi (8 km)

Repeater (batteries included)
SMART-REP

CHARACTERISTICS

The repeater is also used to cross great distance. Indeed, in direct line of sight, 2 sensors or repeaters can be more than 4 miles apart and communicate between them without issue.

MULTIFUNCTION CONTROL AND VALVES



Multifunction control, 120V, inputs and outputs, 2 pins wire

ERAPRMAP-REL

OPTION - MULTIFUNCTION CONTROL	
Remote control (Ex.: vacuum pump, transfer pump, electrical valves)	
2 independent outputs	CH 1 CH 2
WAG788312	Relay 24V for pump remote control
ERAPRMAP-22MM15	15 ft extension wire, 2 pins, 2 connectors, male-male *Mandatory to link the multifunction control to the relay 24V
ERAVALH20-VAL...	Electrical valves (see table below)
Amperage reading	AMP 1 AMP 2
2 independent inputs	
ERAPRMAP-C	Ampmeter 0-100Amp (including 6 ft wire). Allows you to know the amperage of your electrical devices such as vacuum pumps, transfer pumps and even know if your osmosis (RO) is working.
Auxiliary reading	AUX
1 independent input	
ERAPRMAP-F	Stainless steel mechanical float. Allows you to know at all times the status of the float and even configure and link an alarm to it. (Ex.: Installed on a moisture trap, the float will warn you if it encounters a problem and that the water rises in the trap)
ERAPRMAP-EKM...	Stainless steel water meter (see table p.36)



WAG788312



ERAPRMAP-22MM15



ERAPRMAP-C



ERAPRMAP-F

Electrical valves

Product No.	Description
ERAVALH20-VAL-020	Butterfly valve on/off 2"
ERAVALH20-VAL-030	Butterfly valve on/off 3"
ERAVALH20-VAL-105	Ball valve on/off 1/2"
ERAVALH20-VAL-107	Ball valve on/off 3/4"
ERAVALH20-VAL-110	Ball valve on/off 1"
ERAVALH20-VAL-310	3-way ball valve on/off 1"
ERAVALH20-VAL-405	Needle valve on/off 1/2" Modulating 0-10V or 4-20 Ma

OPTIONS

ERAPRMAP-CONT-VAL	Valve on/off - Option Smartrek, including ~ 6 ft wire
ERAVAL-CONT-VAL	Control box for valve
SMART-MODUL	4-20mA control box for modulating valve

CHARACTERISTICS

The multifunction control ERAPRMAP-REL and the Smartrek option ERAPRMAP-CONT-VAL are mandatory to the functioning of an electrical valve. *2 independent outputs per multifunction control sensor*



BUTTERFLY VALVE



3-WAY BALL VALVE



BALL VALVE



ERAPRMAP-CONT-VAL

WATER METERS AND ACCESSORIES



ERAPRMAP-EKM-075



ERAPRMAP-EKM-100



ERAPRMAP-EKM-150



ERAPRMAP-EKM-200

Water meters

Product No.	Model	Min. flow (GPM)	Max. flow (GPM)	Nominal flow (GPM)
ERAPRMAP-EKM-075	3/4"	0.22	22	11
ERAPRMAP-EKM-100	1"	0.22	31	15
ERAPRMAP-EKM-150	1 1/2"	0.88	88	44
ERAPRMAP-EKM-200	2"	1.98	132	66

Water meter verification

Product No.	Description
VERIF-EKM-075-100	Water meter verification 3/4" and 1"
VERIF-EKM-150-200	Water meter verification 1-1/2" and 2"

CHARACTERISTICS

- Reading directly on meter or on the Smartrek tablet
- All stainless steel
- Precision rate up to 2%
- Compatible with Smartrek monitoring system **AUX**
 - Must be plugged in the multifunction control sensor ERAPRMAP-REL
 - 1m cord included (2 pins connector)
 - 15 feet extension available ERAPRMAP-22MF15
 - Get your readings as well as history directly on the Smartrek system



Sensor for flowmeter (batteries included)
SMART-FLO

CHARACTERISTICS

You need a SMART-FLO to work in pair with the flowmeters seen below.

Smart rotary chopper wheel flowmeter

ERAPRMAP-PADFLO-1	1"
ERAPRMAP-PADFLO-15	1-1/2"
ERAPRMAP-PADFLO-2	2"

CHARACTERISTICS

Flow and volume monitoring for piping from 1" to 2" diameter.



Industrial D type battery -
3 per sensor

ASMGGEN-BATTERY-D



Extension wire

ERAPRMAP-33MM15	15 ft., 3 pins, male-male
ERAPRMAP-33MF15	15 ft., 3 pins, male-female
ERAPRMAP-22MM15	15 ft., 2 pins, male-male
ERAPRMAP-22MF20	20 ft., 2 pins, male-female

SPECIFIC APPLICATION SENSOR



Multiple digital input sensor
SMART-NUM

CHARACTERISTICS

This sensor contains 4 inputs that can be paired to floats. It is often used as a water level sensor in a zero vacuum tank or in a tank where a ultra-sonic reading from a regular level sensor is impos- sible. The 4 floats, installed at different heights, will indicate where the level is, without being affected by the vacuum in the tank. You can also use this sensor to monitor the state of a electrical device. Connected to the extractor pump, it will allow you to know how many times it has released.



Transmitter 4-20mA
PRGEN-CK-420T

CHARACTERISTICS

This sensor can send a signal 4-20mA through the Smartrek system. It is therefore possible to remotely control the opening (0 to 100%) of a modulating valve (paired with the SMART-MODUL control box). It also allows you to control a variable frequency drive (VFD) remotely.



Product No.	Description
ERAPRMAP-PRES	Smartrek wireless 0-300 psi pressure node, with 2m cable, excluding ERAPRMAP-ANF-0300G pressure sensor
ERAPRMAP-ANF-0300G	Pressure sensor 0-300 psi, 1/4" NPT connection - compatible with ERAPRMAP-PRES
ERAPRMAP-PRES-1000	Smartrek wireless 0-1000 psi pressure node, with 2m cable, excluding ERAPRMAP-ANF-1000G pressure sensor
ERAPRMAP-ANF-1000G	Pressure sensor 0-1000 psi, 1/4" NPT connection - compatible with ERAPRMAP-PRES-1000

CHARACTERISTICS

The pressure sensor is used to monitor the pressure in PSI. It is useful to know the pressure of an RO to know if the equipment is functioning properly. This sensor can also be installed on sap transfer line to monitor its proper functioning. Abnormally high pressure means the line is frozen



AGRICULTURE AT THE HEART OF CONNECTIVITY

When it comes to agricultural production, it is crucial to always have access to key data, and to monitor multiple parameters. Having this information at your fingertips in real time, even from a distance, will allow you to increase the productivity of your crops and reduce labor costs, while optimizing your precious time.

H2O Innovation provides a turnkey wireless sensor system powered by Smartrek that tracks and analyze the most relevant data to optimize yields. In addition, this technology allows farmers to gain efficiency and productivity while improving how they manage their operations. Farmers can thus obtain an excellent return on investment and use the IoT to its full potential.



A PRECISE OVERVIEW OF YOUR CROPS

- Precise temperature at plant;
- Soil tension;
- Water level;
- Pressure (psi);
- Pump remote control;
- 4-20 mA transmitter.



RELIABILITY AND SIMPLICITY

- Easy & quick installation, minimal planification;
- Rapid data refresh rate;
- Modular and evolutive system;
- Network tolerates breakdowns, functional without cellular network and Internet;
- Very good long-term reliability;
- Made in Quebec.



YOUTUBE CHANNEL
AGRICULTURE & IRRIGATION MANAGEMENT



ELECTRICAL EXTRACTORS

12" x 36" & 12" x 30"

These small extractors are designed to reach high levels of vacuum. Size options up to 5000 taps where flow is 15 gallons per minute. The top lid offers an easy access to the internal components so it allows for quick and efficient cleaning. Automatic rapid draining bottom valve for security and seamless operation.

1236 Vertical Extractors

Product No.	Description	Dimensions	Capacity	Pumping elevation	Sap inlet height	Input
ERARELH201236HVC	1-pump vertical extractor 0.5 HP	12" x 36"	15 GPM @ 28 inHg	10 feet	21"	2 x 2"
ERARELH201236HVC-M	1-pump vertical extractor 0.5 HP with 6"x 27" pre-punched manifold	12" x 36"	15 GPM @ 28 inHg	10 feet	27"	5 x 1 1/4"
ERARELH201236HVC-10	1-pump vertical extractor 1 HP	12" x 36"	15 GPM @ 28 inHg	30 feet	21"	2 x 2"
ERARELH201236HVC-M-10	1-pump vertical extractor 1 HP with 6"x 27" pre-punched manifold	12" x 36"	15 GPM @ 28 inHg	30 feet	27"	5 x 1 1/4"



ERARELH201236HVC



ERARELH201236HVC-M



ERARELH201236HVC-M
with cleaning system

DID YOU KNOW?

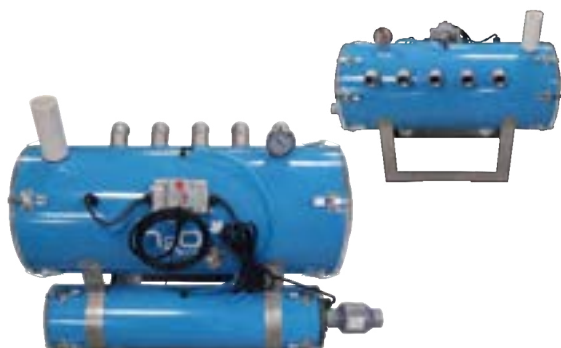
A mechanical releaser is the greatest cause of leaks in your maple operation!

1230 Horizontal Extractors

Product No.	Description	Dimensions	Capacity	Pumping elevation	Sap inlet height	Input
ERARELH201230HVC-H	1-pump horizontal extractor 0.5 HP	12" x 30"	15 GPM @ 28 inHg	10 feet	21"	5 x 1 1/4"
ERARELH201230HVC-HM	1-pump horizontal extractor 0.5 HP with 6"x 27" pre-punched manifold	12" x 30"	15 GPM @ 28 inHg	10 feet	24"	5 x 1 1/4"
ERARELH201230HVC-H10	1-pump horizontal extractor 1 HP	12" x 30"	15GPM @ 28 inHg	30 feet	21"	5 x 1 1/4"
ERARELH201230HVC-HM10	1-pump horizontal extractor 1 HP with 6"x 27" pre-punched manifold	12" x 30"	15GPM @ 28 inHg	30 feet	24"	5 x 1 1/4"

Note: For non-standard horizontal models without manifold, sleeves and 45 ° inlet elbows not included

Technical information: **0.5 HP pump = 4.6 AMP at 230V** | **1 HP pump = 8.6 AMP at 230V**



ERARELH201230HVC-H



ERARELH201230HVC-HM

ELECTRICAL EXTRACTORS

18" x 36" VERTICAL

For bigger sugarbushes, the 18" models can go up to 20 000 taps. Available either horizontal or vertical and ranging from 1 to 4 pumps, these very sturdy extractors are designed to offer high vacuum efficiency that will meet your high yield expectations.

Available with or without manifold, each extractor's capacity depends on the number of pumps the model has. Each of these pumps is made for approximately 5 000 taps. Each manifold is now designed with a plastic screen to protect the extractor's mechanical components.

1836 Vertical Extractors

Product No.	Description	Dimensions	Capacity	Pumping elevation	Sap inlet height	Input
1836 VERTICAL EXTRACTOR 0.5 HP, 4.6 AMP at 230V						
ERARELH201836HVC	1-pump vertical extractor 0.5 HP	18" x 36"	15 GPM @ 28 inHg	10 feet	25 1/2"	2 x 1 1/4"
ERARELH201836HVC-M	1-pump vertical extractor 0.5 HP with 8"x 36" pre-punched manifold	18" x 36"	15 GPM @ 28 inHg	10 feet	34"	6 x 1 1/4"
ERARELH201836HVC-2	2-pump vertical extractor 0.5 HP	18" x 36"	30 GPM @ 28 inHg	10 feet	25 1/2"	2 x 1 1/4"
ERARELH201836HVC-2M	2-pump vertical extractor 0.5 HP with 8"x 36" pre-punched manifold	18" x 36"	30 GPM @ 28 inHg	10 feet	34"	6 x 1 1/4"
ERARELH201836HVC-3	3-pump vertical extractor 0.5 HP	18" x 36"	45 GPM @ 28 inHg	10 feet	25 1/2"	2 x 1 1/4"
ERARELH201836HVC-3M	3-pump vertical extractor 0.5 HP with 8"x 36" pre-punched manifold	18" x 36"	45 GPM @ 28 inHg	10 feet	34"	6 x 1 1/4"
1836 VERTICAL EXTRACTOR 1 HP, 8.6 AMP at 230V						
ERARELH201836HVC-10	1-pump vertical extractor 1 HP	18" x 36"	15 GPM @ 28 inHg	30 feet	25 1/2"	2 x 1 1/4"
ERARELH201836HVC-M-10	1-pump vertical extractor 1 HP with 8"x 36" pre-punched manifold	18" x 36"	15 GPM @ 28 inHg	30 feet	34"	6 x 1 1/4"
ERARELH201836HVC-210	2-pump vertical extractor 1 HP	18" x 36"	30 GPM @ 28 inHg	30 feet	25 1/2"	2 x 1 1/4"
ERARELH201836HVC-2M10	2-pump vertical extractor 1 HP with 8"x 36" pre-punched manifold	18" x 36"	30 GPM @ 28 inHg	30 feet	34"	6 x 1 1/4"
ERARELH201836HVC-310	3-pump vertical extractor 1 HP	18" x 36"	45 GPM @ 28 inHg	30 feet	25 1/2"	2 x 1 1/4"
ERARELH201836HVC-3M10	3-pump vertical extractor 1 HP with 8"x 36" pre-punched manifold	18" x 36"	21 GPM @ 28 inHg	30 feet	34"	6 x 1 1/4"



ELECTRICAL EXTRACTORS

18" x 36" & 18" x 48" HORIZONTAL

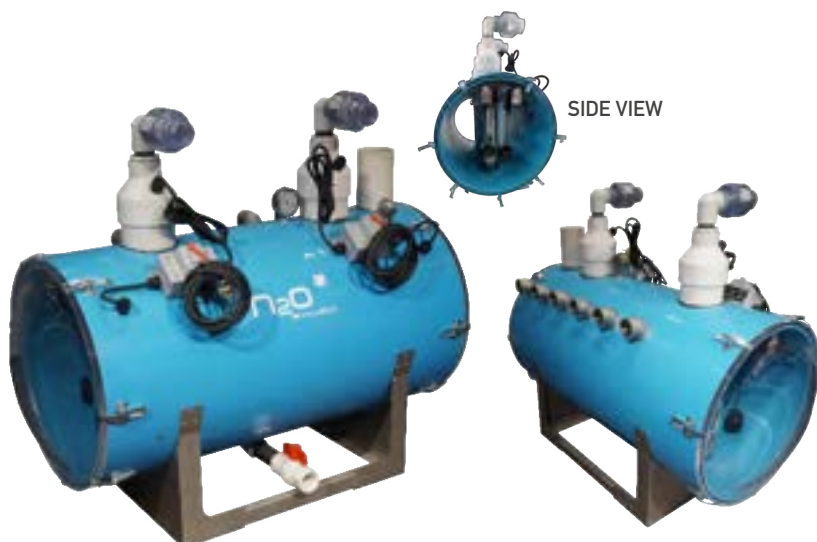
1836 Horizontal Extractors

Product No.	Description	Dimensions	Capacity	Pumping elevation	Sap inlet height	Input
1836 HORIZONTAL EXTRACTORS 0.5 HP, 4.6 AMP at 230V						
ERARELH201836HVC-H	1-pump horizontal extractor 0.5 HP	18" x 36"	15 GPM @ 28 inHg	10 feet	23 1/2"	6 x 1 1/4"
ERARELH201836HVC-HM	1-pump horizontal extractor 0.5 HP with 8"x 36" pre-punched manifold	18" x 36"	15 GPM @ 28 inHg	10 feet	31 1/2"	6 x 1 1/4"
ERARELH201836HVC-H2	2-pump horizontal extractor 0.5 HP	18" x 36"	30 GPM @ 28 inHg	10 feet	23 1/2"	6 x 1 1/4"
ERARELH201836HVC-H2M	2-pump horizontal extractor 0.5 HP with 8"x 36" pre-punched manifold	18" x 36"	30 GPM @ 28 inHg	10 feet	31 1/2"	6 x 1 1/4"
ERARELH201836HVC-H3	3-pump horizontal extractor 0.5 HP	18" x 36"	45 GPM @ 28 inHg	10 feet	23 1/2"	6 x 1 1/4"
ERARELH201836HVC-H3M	3-pump horizontal extractor 0.5 HP with 8"x 36" pre-punched manifold	18" x 36"	45 GPM @ 28 inHg	10 feet	31 1/2"	6 x 1 1/4"
ERARELH201848HVC-H4	4-pump horizontal extractor 0.5 HP	18" x 48"	60 GPM @ 28 inHg	10 feet	23 1/2"	6 x 1 1/4"
ERARELH201848HVC-H4M	4-pump horizontal extractor 0.5 HP with 8"x 48" pre-punched manifold	18" x 48"	60 GPM @ 28 inHg	10 feet	31 1/2"	6 x 1 1/4"
ERARELH20HY1824HVC	1-pump hybrid extractor 0.5 HP (electric with mechanical option)	18" x 24"	15 GPM @ 28 inHg	On tank	On tank	8 x 1 1/4"

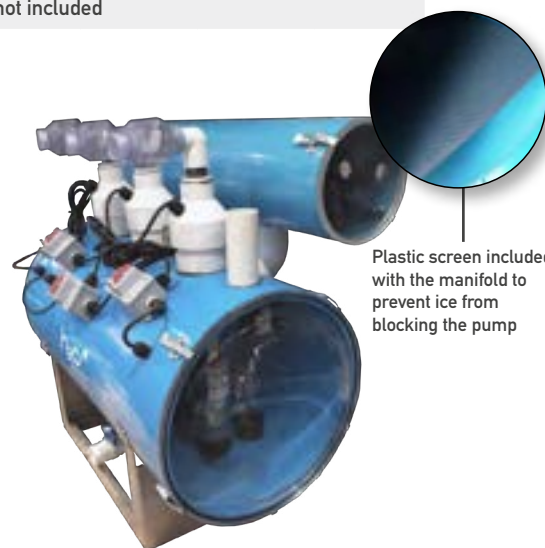
1836 HORIZONTAL EXTRACTORS 1 HP, 8.6 AMP at 230V

ERARELH201836HVC-H10	1-pump horizontal extractor 1 HP	18" x 36"	15 GPM @ 28 inHg	30 feet	23 1/2"	6 x 1 1/4"
ERARELH201836HVC-HM10	1-pump horizontal extractor 1 HP with 8"x 36" pre-punched manifold	18" x 36"	15 GPM @ 28 inHg	30 feet	31 1/2"	6 x 1 1/4"
ERARELH201836HVC-H210	2-pump horizontal extractor 1 HP	18" x 36"	30 GPM @ 28 inHg	30 feet	23 1/2"	6 x 1 1/4"
ERARELH201836HVC-H2M10	2-pump horizontal extractor 1 HP with 8"x 36" pre-punched manifold	18" x 36"	30 GPM @ 28 inHg	30 feet	31 1/2"	6 x 1 1/4"
ERARELH201836HVC-H310	3-pump horizontal extractor 1 HP	18" x 36"	45 GPM @ 28 inHg	30 feet	23 1/2"	6 x 1 1/4"
ERARELH201836HVC-H3M10	3-pump horizontal extractor 1 HP with 8"x 36" pre-punched manifold	18" x 36"	45 GPM @ 28 inHg	30 feet	31 1/2"	6 x 1 1/4"

Note: For non-standard horizontal models without manifold, sleeves and 45 ° inlet elbows not included



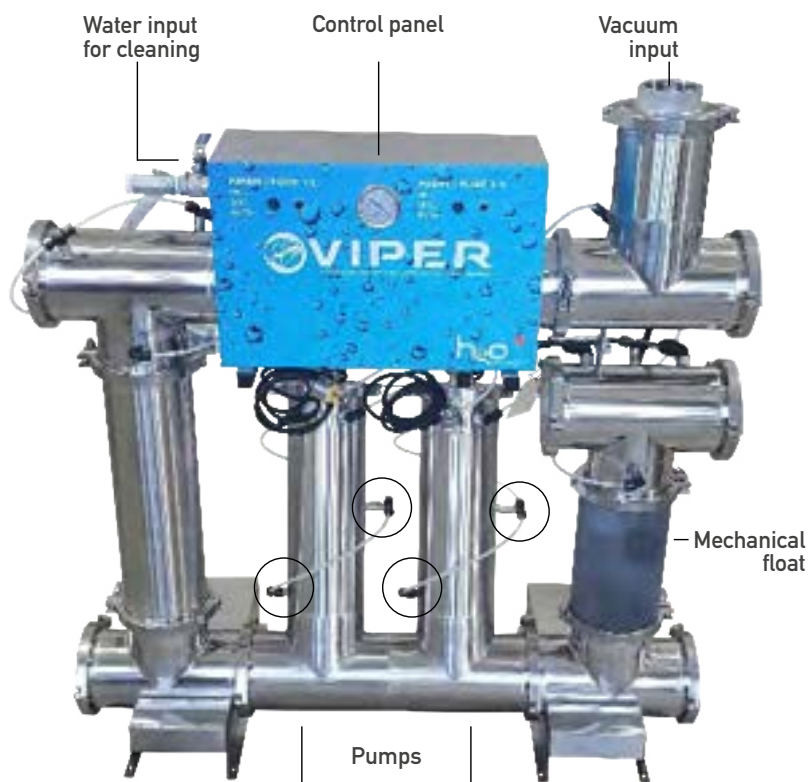
ERARELH201836HVC-H2



Plastic screen included with the manifold to prevent ice from blocking the pump

ERARELH201836HVC-H3M

VIPER ELECTRICAL EXTRACTORS



VIPER

VIPER EXTRACTOR

Entirely made of Stainless Steel, the absolute pinnacle of extractors available on the market. Pump flexibility can easily be expanded from 1 to 4 pumps, allowing you to grow your operation in place. Designed for high, continuous vacuum operation, the VIPER is a must have for serious sugarmakers.



6 INCH
SAP FLOW
SIGHT
TUBE

Stainless steel extractors with integrated washing system

Product No.	Description	Dimensions	Capacity	Pumping elevation	Sap inlet height	Input
ERARELV1	1-pump VIPER s/s extractor 0.5 HP. 5 000 taps	48" L x 46" H x 20" P	28 inHg	10 feet	37"	4 x 2"
ERARELV2	2-pump VIPER s/s extractor 0.5 HP. 10 000 taps	48" L x 46" H x 20" P	28 inHg	10 feet	37"	4 x 2"
ERARELV3	3-pump VIPER s/s extractor 0.5 HP. 15 000 taps	60" L x 46" H x 20" P	28 inHg	10 feet	37"	4 x 2"
ERARELV4	4-pump VIPER s/s extractor 0.5 HP. 20 000 taps	72" L x 46" H x 20" P	28 inHg	10 feet	37"	10 x 2"

NOTE: Includes 2" NPT tri-clamp ring adapters.

Butterfly valves and additional gaskets/collars sold separately.

Possibility to add a 1HP pump, add \$300/pump *Elevation 30 feet*

ELECTRICAL & MECHANICAL SAP EXTRACTORS

BHR Mechanical sap extractors

Product No.	Dimensions	Tap capacity	Manifold	Sap inlet height	Vacuum pump outlet
VERTICAL					
ERABER211	Vertical double 8" x 16"	1 000	6" x 18" 4 x 1"	2 x 2" 18" High	1 1/2"
64236	Vertical double 12" x 18"	2 500	6" x 27" 4 x 1"	2 x 2" 18" High	1 1/2"
HORIZONTAL					
ERABER218	Horizontal double 12" x 18"	4 000	6" x 36" 8 x 1" 1/4	2 x 3" 20" High	2"



64236



ERABER211



ERABER218



Stainless steel releaser support for tank (adjustable height)
*other tank width available on request

Product No.	Dim.
PFHSUPREL48-AJUST	48"
PFHSUPREL60-AJUST	60"



66314



66314D



Universal Releaser Support

Sits on top of 49" wide Leader Stainless Steel tanks. Allows releaser to be recessed in the tank, to reduce splashing.

Product No.	Dimensions
570000	49"

AIRABLO Electrical Horizontal Extractors

Product No.	Dimensions	Tap capacity	Manifold	Sap inlet height	Vacuum pump outlet
66314H	1-pump Airablo horizontal extractor 1 HP	5000	6" x 12" 4 x 1"	1 x 2" 20" High	1 1/2"
66314	1-pump Airablo horizontal extractor 2 HP	10 000	6" x 18" 4 x 1"	2 x 2" 18" High	1 1/2"
66314D	2-pump Airablo horizontal extractor 2-2 HP	15 000	6" x 36" 8 x 1" 1/4	2 x 3" 20" High	2"

PLEASE ASK ABOUT OUR VFD OPTIONS

For use with high vacuum systems.

Designed for use at 28" Hg. Now available with VFD.

MOISTURE TRAPS



ERARELTR1227

Vortex moisture trap from H2O Innovation is a high security product that protects your vacuum pump. It isolates the most important element of your pumping station against water and humidity, even at high vacuum.

VORTEX technology captures water and moisture particles to redirect them to the bottom of the trap. Equipped with a float, the Vortex moisture trap will automatically stop your vacuum pump when the sap level is problematic. After stopping the pump, it can drain by itself, then restart the vacuum pump.

By its robust design, the VORTEX moisture trap is an essential accessory to have in your pumping station.



ERARELTR1227P

VORTEX moisture trap

Product No.	Description
ERARELTR1227	Vortex electric moisture trap 3" output, with foam 12" x 30"
ERARELTR1227P	Vortex electrical moisture trap with safety kit

Vortex electrical moisture trap with safety kit

- › Keep the vacuum pump running when the trap is draining

Standard moisture trap

Product No.	Description
ERARELTR827	Single moisture trap 8" x 27", 2" output
64192	Moisture trap 10" x 24" - CFM rating 60
64182	Moisture trap 10" x 24" electric - CFM rating 60
64191	Moisture trap 15" x 30" - CFM rating 130



ERARELTR827

VACUUM KIT PART NUMBER SELECTION TOOL



COMPLETE KIT

- Dimensions: 73" H x 58" L x 23" D
- Robust steel skid
- VORTEX moisture trap
- VFD or Starter
- All connections included

OPTIONS

- Start & stop with Thermostat
- Antifreeze automatic modulating of vacuum
- Safety kit for vortex moisture trap
- Smartrek vacuum sensor

VACUUM KIT PART NUMBER SELECTION TOOL				
VACUUM PART NUMBER CLASSES	KIT	HP	POWER	OPTION
4102	1	8.6	V	A
4101 : KWIK 4102 : ATLAS GVS 4103 : ATLAS DZS	1 : Kit include (Frame assembly, moisture trap & piping) 0 : No kit, only parts	1.216A : HP (Atlas only) 1.225A : HP (Atlas only) 2 : HP 3 : HP 5 : HP 7.5 : HP 8.6 : HP (Atlas only) 10 : HP (KWIK only)	S : Starter (240V Single phase vacuum pump) V : VFD (variable frequency drive for three phase vacuum pump)	T : Thermostat A : Antifreeze



Oil-lubricated, KWIK vacuum pumps by H2O Innovation are high-performance pumps and can reach an incredible vacuum level close to the absolute vacuum (up to 29.9 inHg).

CHARACTERISTICS

- High performance
- Very compact
- Quiet in operation
- Low maintenance
- In-house H2O Innovation technicians for the best after-sales service

KWIK Rotary vane vacuum pumps – EMR Series (Single phase 220V motor)

Product No.	Description
EM-R0040	KWIK rotary vane vacuum pump, 2HP single phase 220V motor- 13CFM @ 20 InHg. max 29.9 InHg. air intake 1-1/4"
EM-R0063	KWIK rotary vane vacuum pump 3HP single phase 220V motor - 18CFM @ 20 InHg. max 29.9 InHg. air intake 1-1/4"
EM-R0100	KWIK rotary vane vacuum pump 5HP single phase 220V motor - 28CFM @ 20 InHg. max 29.9 InHg. air intake 1-1/4"
EM-R0165	KWIK rotary vane vacuum pump 7.5HP single phase 220V motor - 52CFM @ 20 InHg. max 29.9 InHg. air intake 2"

KWIK Rotary vane vacuum pumps – EMR Series (Three phase 208V motor)

Product No.	Description
EM-R0040-3	KWIK rotary vane vacuum pump, 2HP three phase 208V motor- 13CFM @ 20 InHg. max 29.9 InHg. air intake 1-1/4"
EM-R0063-3	KWIK rotary vane vacuum pump 3HP three phase 208V motor - 18CFM @ 20 InHg. max 29.9 InHg. air intake 1-1/4"
EM-R0100-3	KWIK rotary vane vacuum pump 5HP three phase 208V motor - 28CFM @ 20 InHg. max 29.9 InHg. air intake 1-1/4"
EM-R0165-3	KWIK rotary vane vacuum pump 7.5HP three phase 208V motor - 52CFM @ 20 InHg. max 29.9 InHg. air intake 2"
EM-R0302-3	KWIK rotary vane vacuum pump, 10HP three phase 208V motor - 89CFM @ 20 InHg. max 29.9 InHg. air intake 2"



NOTE: KWIK pumps have other voltages available on request

Oil for EMR Series pumps

Product No.	Description
ERA0IL-80-4	Oil for EM and EMR pump - 3.8 l
AIR01280534	Oil filter



BENEFITS YOU CAN COUNT ON!

- Easy installation with its compact design not taking a lot of room
- High reliability thanks to its robust design and optimal oil retention at all the operating pressures
- Low maintenance & minimal wear with the drive shaft optimally selected speeds
- Low noise & vibrations when operating throughout the pressures range

READY TO USE

Oil lubricated rotary vane vacuum pumps from the GVS Series come complete with all the options and all the accessories you need for a general application of vacuum & can easily reach up to 29.9 inHg. This technology of pump that can get to the highest vacuum level on the market. If you have unique vacuum needs, please contact your H2O Innovation representative to help you to choose the best custom solution.



GVS Series | Oil lubricated rotary vane pumps

Product No.	Description	HP	Max. vacuum	Capacity (CFM)	Air inlet	Dimensions	Weight (lbs)	Oil volume
8153316222	GVS 16 A 1PH 230V	1.2	29.9 inHg	11	1/2" FNPT	17" x 11" x 9"	55	2L
8153316230	GVS 16 A 3PH 230/380/460V	1.2	29.9 inHg	11	1/2" FNPT	17" x 11" x 9"	55	2L
8153316248	GVS 25 A 1PH 230V	1.2	29.9 inHg	17	1/2" FNPT	17" x 11" x 9"	55	2L
8153316255	GVS 25 A 3PH 230/380/460V	1.2	29.9 inHg	17	1/2" FNPT	17" x 11" x 9"	55	2L
8153316263	GVS 40 A 1PH 230V	2	29.9 inHg	31	1-1/4" FNPT	22" x 11" x 12"	99	1L
8153316297	GVS 40 A 3PH 230/380/460V	2	29.9 inHg	31	1-1/4" FNPT	22" x 11" x 12"	99	1L
8153316321	GVS 60 A 3PH 230/380/460V	3	29.9 inHg	42	1-1/4" FNPT	24" x 13" x 10"	115	2L
8153316354	GVS 100 A 3PH 230/380/460V	5	29.9 inHg	69	1-1/4" FNPT	33" x 16" x 11"	205	2L
8153311827	GVS 150 3PH 230/460V	5	29.9 inHg	107	1-1/2" G	34" x 15" x 18"	182	2L
8153316396	GVS 200 A 3PH 230/380/460V	7.5	29.9 inHg	130	2" FNPT	43" x 21" x 16"	353	5-9L
8153316438	GVS 300 A 3PH 230/380/460V	8.6	29.9 inHg	200	2" FNPT	43" x 22" x 18"	495	8.5-11.5L

Accessories

Product No.	Description
1630204901	Oil for Atlas Copco GVS 1 l
3001170154	Maintenance kit GVS 16-25A (filtration)
3001170155	Maintenance kit GVS 40A
3001170156	Maintenance kit GVS 60A
3001170157	Maintenance kit GVS 100A
3001170158	Maintenance kit GVS 200A
3001170159	Maintenance kit GVS 300A
AIR01280534	Screw-on oil filter

NOTE: Kits include: spring, exhaust filter, O-ring & gasket.

Exhaust filters

Product No.	Description
3001170182	Exhaust filter for GVS16A - GVS25A
3001170183	Exhaust filter for GVS40A
3001170184	Exhaust filter for GVS60 (x1) & GVS100A (x2)
1625391762	Coalescent filter for GVS150 (x1)
3001170185	Exhaust filter for GVS200A (x4)
3001170186	Exhaust filter with bypass for GVS300A (x3)

DZS PUMPS



GREEN AND CLEAN PERFORMANCE
The DZS Series is a stainless steel dry claw vacuum pump series. It is however a high end model that can reach up to 28,4in Hg. It's a pump technology that is clean, easy maintenance and safe for the environment.

DZS Series | Dry claw stainless steel vacuum pumps

Product No.	Description	HP	Max. vacuum	Capacity (CFM)	Air inlet	Dimensions	Weight (lbs)	Oil vol.
8153644326	DZS 065V UL/cUL 230/460/60	3	28,4 inHg	48	1-1/4" NPT	36" x 16" x 22"	265	1L
8153644334	DZS 150V UL/cUL 230/460/60	5	28,4 inHg	108	1-1/4" NPT	37" x 16" x 22"	353	1L

Accessories



- Included with pump**
- TEFC drive motor
 - Stainless steel claws
 - Awning attenuating noise
 - Inlet filter
 - Safety relief valve
 - Intake silencer





OIL-SEALED ROTARY SCREW VACUUM PUMPS | GHS SERIES

- Easy installation thanks to its compact design that takes little room
- High reliability through its robust design and optimal oil retention at all operating pressures
- Low maintenance & wear due to its optimally selected drive shaft speeds
- Low noise & vibrations when operating throughout the pressure range

GHS Series | Oil-sealed rotary screw vacuum pumps

Product No.	Description	HP	Max. vacuum	Capacity (CFM)	Air inlet	Dimensions	Weight (lbs)	Oil vol.
8153614076	GHS 350VSD+ AC 460V/3PH IEC-UL/CUL	7.5	29.9 inHg	230	DN80	51" x 35" x 43"	1,210	16L
8153638504	GHS 350VSD+ AC 460V/1PH IEC-UL/CUL	7.5	29.9 inHg	230	DN80	51" x 35" x 43"	1,210	16L
8153614094	GHS 585VSD+ AC 460V/3PH IEC-UL/CUL	10	29.9 inHg	330	DN80	51" x 35" x 43"	1,210	16L
8153638522	GHS 585VSD+ AC 460V/1PH IEC-UL/CUL	10	29.9 inHg	330	DN80	51" x 35" x 43"	1,210	16L
8153614102	GHS 730VSD+ AC 460V/3PH IEC-UL/CUL	15	29.9 inHg	430	DN80	51" x 35" x 43"	1,232	16L
8153638530	GHS 730VSD+ AC 460V/1PH IEC-UL/CUL	15	29.9 inHg	430	DN80	51" x 35" x 43"	1,232	16L

INCLUDED

- Variable speed control
- Elektronikon MK5 graphic controller
- Plug & Play design
- Premium efficiency TEFC engine
- Air inlet filter
- IP54 Controls
- Vacuum synthetic fluid

Accessories

Product No.	Description
1630112600	Synthetic Atlas Oil for GHS, 20 l
2901990076	V111 filter kit (7.5 HP 350)
2901990077	V111 filter kit (10 HP 585)
2901990078	V111 filter kit (15 HP 730)
1312101297	Transformer 208V 20 KVA for GHS350 and GHS585
1312101298	Transformer 230V 20 KVA for GHS350 and GHS585
1280564803	Transformer 575V 20 KVA for GHS350 and GHS585
1312101299	Transformer 208V 27 KVA for GHS730
1312101301	Transformer 230V 27 KVA for GHS730
1330100702	Transformer 575V 20 KVA for GHS730
ERAATLFLANGE3PO	3" NPT inlet flange
FNWNA1RG116M	3" flange gasket
ADAPATLAS-2	Exhaust flange with gasket and bolts

NOTE: Adapter flanges will be required for connection to NPT piping.

BUSCH & GAS VACUUM PUMPS

Busch rotary claw vacuum pump

The unique non contacting, friction-free design reduces wasted energy from drag and friction. A factory installed and programed Variable Frequency Drive further improves energy efficiency.

In the pumping chamber, two "S" shaped rotors spin in opposite directions to create a void of trapped air that is compressed and discharged. A small, fixed gauge clearance is maintained between all moving parts. Due to this, there is no friction or wear, and oil is not required in the compression chamber for lubrication, sealing, or cooling.

Dry running non-contacting

- High level of efficiency
- Oil-less compression
- Air-cooled
- Minimal maintenance
- Included complete with VFD
- Also available in single phase (special order)

Busch mink rotary claw vacuum pumps

Product No.	Description
70572M	3.2 HP, 57 CFM Busch rotary claw vacuum pump, electric moisture trap, recommended for 3 000 taps sugarbush
70571M	6.4 HP, 103 CFM Busch rotary claw vacuum pump, electric moisture trap, recommended for 8 000 taps sugarbush



Flood system with oil cooling kit

These rotary vane vacuum pump systems are driven by belt and pulley from a gas motor, and come with an oil reclaiming system to be installed on the exhaust of the vacuum pump. Unlike traditional drip oiling systems found on most rotary vane pumps the flood system injects a stream of oil into the housing to create additional lubrication, cooling, and higher vacuum.

CHARACTERISTICS

- 27 inches+ vacuum levels
- Reclaims 95% of the oil
- No heated rooms or constant water supply required
- Designed for the intense, 24-hour use of maple syrup producers

**We service
and repair
vacuum
pumps!**



64370K

Flood system vacuum pump with cooler

Product No.	Description
64375K	5.5 HP, Gas ES engine, recommended for 1 000 taps sugarbush
64250K	9 HP, Gas ES engine, recommended for 3 000 taps sugarbush
64127	Gas oil cooler kit

INCLUDED

Complete with a vacuum regulator, check valve, one season supply of oil, and oil filters. Moisture trap is included!

NOTE: All Airablo products available



Guzzler® BOSGE-0501N (120V) BOSGE-0501N

CHARACTERISTICS

- Up to 400 taps
- Up to 9.9 gallons per minute
- Efficient 120V induction motor
- Durable crank arm assembly requires no lubrication
- No releaser required; runs wet or dry
- 1-1/4" NPTF inlet and outlet hose connection
- Ships with a spare diaphragm
- Made of FDA-approved food grade materials



BOSGE-0501N

24V PUMP | AVAILABLE
ON REQUEST
(FOR BATTERY USE)



BOSG2-0501N

Guzzler® BOSG2-0501N (120V) BOSG2-0501N

Twice the capacity of a single diaphragm pump

CHARACTERISTICS

- Up to 800 taps
- Ideal for vacuum production on mainlines
- Up to 19.8 gallons per minute
- Can create vacuum and / or transfer fluid; no separator required
- Efficient 120V induction motor
- Buna-N diaphragm and silicone umbrella valves
- Features 1-1/4" PVC Female inlet/outlet ports
- Ships with two spare diaphragms
- Made of FDA-approved food grade materials

Spare parts

Product No.	Description
ERAP07090-02	Replacement diaphragm
ERAP0G500	Repair kit
ERAG500UVSSET	Umbrella Valve Set/Silicone (pair)

NOTE: Recommended inlet filter for better service life of ERARONPREF diaphragms



AUTOMATIC VACUUM CONTROL ANTIFREEZE

Antifreeze

With a device like the Antifreeze from H2O Innovation, it is finally possible to control the vacuum level of your pump depending on the outside temperature. According to precise internal sensors, it will control the vacuum level to avoid freezing in the collection network, autonomously, and adjustable according to the installation. Why make it complicated when it can be simple!

Maintain a high vacuum level! This is what all the experts have been telling us for a few years. However, obtaining the "high vacuum" highlighted the weaknesses of the collection system. Field observations made it possible to see that the "high vacuum" creates more leaks in the network, especially when going from -25inHg to -28inHg.

As the vacuum increases, the number of micro-leaks also increases.

In addition, when the air enters a vacuum system, the air cools instantly, and freezes the sap before the air temperature outside reaches the freezing point. The ultimate goal is therefore to reach the highest possible vacuum, without exposing yourself to potentially freezing your mainlines.

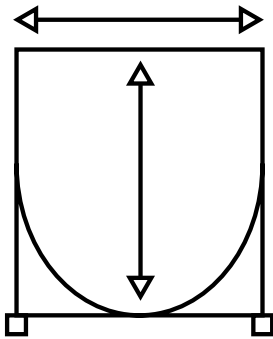


Automatic and modulating vacuum control: Antifreeze

Product No.	Description
Z100105	Automatic vacuum control - ½" valve for 1.5HP to 10HP single phase motors (controlled leak)
Z100110	Automatic vacuum control - 1" valve for multiple pumps system - single phase motors (controlled leak)
Z100507	Automatic vacuum control - 2" valve for VFD with 3-phase motors (controlled vacuum)
Z100507GHS	Automatic vacuum control - for Atlas Copco GHS pump (controlled leak)

INCLUDED

- User friendly controller
- Motorized valve
- Temperature probe with 23 ft cable
- Vacuum transducer

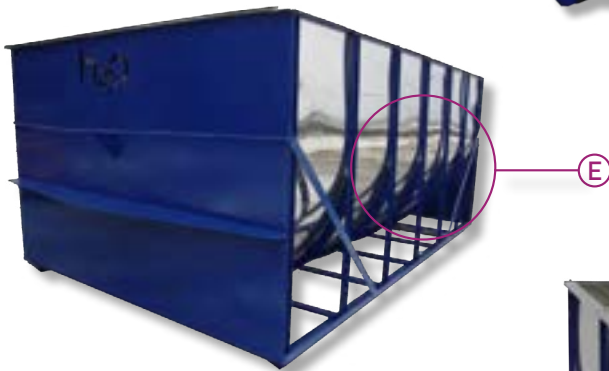
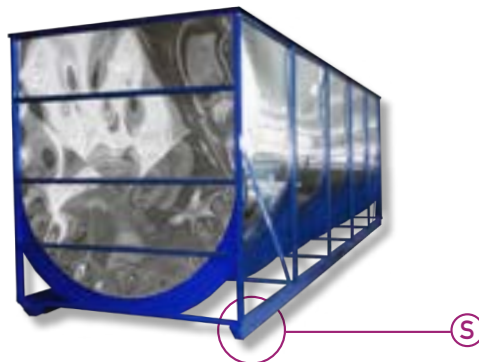


Sap tanks manufactured by H2O Innovation & Leader are made of extremely robust stainless steel grade 304 (20 ga.). Available in many sizes and capacities, our tanks offer guaranteed strength & durability!

- 120 to 13 000 gal. US capacity
- From 2 feet to 10 feet wide
- Up to 7 feet tall and 32 feet long
- Available on 4-inch skids and reinforced every 24 inches
- Premium paint quality for increased rust resistance
- Can be personalized with your company name
- Available in blue color standard or red, subject to availability (-R)

CHARACTERISTICS

- **S** = Skids (raised). to ease mobility and to solidify the structure on uneven flooring
- Includes a 2" drain



CHARACTERISTICS

- **E** = vertical reinforcements at each 2' for increased rigidity
- Includes a 3" drain



CHARACTERISTICS

- **H** = 6" raised frame for easy piping installation to drain out the front
- Includes a 2" drain



120 Gal. Tank

CUSTOM TANKS!

We offer customization with your company name of our tanks.
Call us for more details.







Mini MicRO 110V RO

- Removes approx. 62% of the water from sap = from 2% to 5.2% sugar in one pass.*
- 31 gallons per hour throughput.
- Runs on 110-volt, 8.4-amps.
- Built for mobility with rugged, dual carry handles.
- Super quiet operation.
- High-flow 20-inch membranes.
- Includes pressure gauge and flow meter, with a concentrate dial for brix adjustment.
- Auto shutoff and pump override feature for startup, to prevent malfunctions.
- Designed for producers with under 250 taps.

**Just 70 lbs.
Built for mobility.**

Product No.	Description	Gal./hr	Membranes	Recirc. pump	Amps. / Volts
700009A	Leader Mini MicRO	31	2 x 20"	-	8.4/110
700009C	Leader Mini MicRO with integrated recirculation pump	35	2 x 20"	1/2 HP	10/110
700009R	Leader Mini MicRO recirculation pump (only)	35	-	1/2 HP	1.5/110

*With the recirculation. The performance increase to 35 gallons per hour and Brix to 6.2 %.



CHECK OUT THE MINI MICRO
VIDEO ON YOUTUBE

MicRO

CHARACTERISTICS

- 24" Wide - 14" Deep - 54" Tall
- Fully stainless steel frame
- Easy-change pre-filter housing
- Fast wash cycle
- Plug and process plumbing, only 1 valve!
- 2%-8% in one pass, Self heating water wash cycle
- Simple operation!

Benefits of an RO

Few things can transform a sugaring operation like reverse osmosis (RO). According to scientific studies, RO can reduce energy usage by up to 90% when compared with evaporation alone.

The implementation of reverse osmosis can result in profit increases of over 20%.



Micro Wash Tank and Valve Kit

A game changer of an add-on for our popular MicRO2. Easy to install, it adds a flexible, fast way to wash your RO with just a few valve twists. It will save you time and money, and keep you on a steady boil all season long.

MicRO wash tank and valve kit

700000 Wash tank and valve kit

Start-up kit

A plumbing kit with everything that is normally needed for the recommended installation such as: braided hose, valve, tee, strainer, hose clamp, adaptor, etc

Start-up kit

700000	Start-up Kit
69992	R/O Powder Soap 5lbs
80008	Citric Acid 11b
70001	Membrane preservative 1lb
70009	Glycol 1 gal.
70013	Cartridge filter 5 microns 10" x 6"

Product No.	Description	Gal./hr	Membranes	Pressure pump	Recirculation pump	Amps. / Volts
700010A	MicRO1 reverse osmosis system	80/100	1 x 4"	1 HP	1 HP	10/230
700012A	MicRO2 reverse osmosis system	100/120	2 x 4"	1 HP	1 HP	10/230
700010W	MicRO1 with wash tank and valve kit	80/100	1 x 4"	1 HP	1 HP	10/230
700012W	MicRO2 with wash tank and valve kit	100/120	2 x 4"	1 HP	1 HP	10/230
703379	MicRO3 post add on	160/180	3 x 4"	1 HP	1 HP	10/230



PFH-MINI-RO-24

MINI RO 4

The Mini RO 4 is a small concentrator on wheels built with the same components as the higher gallon concentrators. Its performance allows it to filter up to 100 gallons per hour. Easy to use, the Mini RO 4 is compact and requires a low energy consumption.

- 52" x 23" x 32"
- New sturdy vessel, 4" tri-clamp
- Washing tub included
- Removes up to 70% of water
- Can go up to 8° Brix
- Automatic shut off when out of water

Product No.	Description	Gal./hr	Membranes	Pressure pump	Amps. / Volts	Price
PFH-MINI-RO-4	Mini RO 4 with 4" membrane	100	1 x 4"	1.5 HP	11/230	On request
PFH-MINI-RO-24	Mini RO 4 with 2 x 4" membrane	200	2 x 4"	2 HP	12/230	Upcoming 2023



Dimensions:
30" x 52" x 52"

PFH-CONCENTRATOR300

REDESIGNED & EXTENSIBLE

CONCENTRATOR

The Concentrator is a small reverse osmosis system developed to concentrate between 200 and 300 gallons / hour at up to 12° Brix thanks to its independent recirculation pump. Everything has been thought of so you can save: its initial cost is low, it consumes very little energy and it is quite compact.

The concentrator has been completely redesigned. Membrane vessels are now entirely made of stainless steel, the permeate and concentrate piping are also in welded stainless steel. The assembly & disassembly are simple and efficient. With its new configuration it will allow you to expand your operation as it's easy to modify your concentrator and go from 2 to 3 membranes.

Product No.	Description	Gal./hr	Membranes	Pressure pump	Recirc. pump	Amps. / Volts
PFH-CONCENTRATOR200/240V	Concentrator 200 with 2 x 4" membrane	200	2 x 4"	1.5 HP	1/2 HP	13/240
PFH-CONCENTRATOR300/240V	Concentrator 300 with 3 x 4" membrane	300	3 x 4"	1.5 HP	1/2 HP	16/240

ECONOX

The Econox line is designed for producers owning between 1 000 to 15 000 taps

- Compact, takes less than 5 sqft² of floor surface
- Very simple to operate
- Fast clean & rinse
- Best recirculation on the market
- Best quality/price ration on the market
- Easy to install
- Automatically stops during power surge or motor fault, low temperature or low pressure
- Full stainless steel frame

CHARACTERISTICS

- Modular design: 1 to 6 membranes
- Electropolished stainless steel vessels
- Quick wash in 45 minutes
- System: 72" H x 27" L x 28" D
- Vessel: 54" H x 21" L x 13" D
- Easy installation
- Power input: 1 ½" (38 mm)
- and 2" (50,8 mm) for 2000 model
- Permeate output: 1" (25 mm)
- Concentrate output: 1" (25 mm)
- Drain: 1" ½ (38 mm)

INSTRUMENTATION

- Temperature control
- Pressure switch
- Prefilter pressure gauge AV/AP
- Membrane pressure gauge
- System state indicator:
 - Operating
 - Low pressure
 - High temperature
 - Motor fault



Integrated wash tanks and valves

Quick & complete vessel and osmosis drainage

ECONOX 600

The Econox 600 osmosis is the smallest in the big league! This unit will allow you to save lots of time and energy and space to store maple sap in the sugarhouse. You will have peace of mind with the legendary efficiency and reliability of this machine.

Product No.	Flow gal./hr	Avr. Brix	Membranes	5HP pressure pump	Feed pump	Booster pump	Amps. / Volts
SPH-ECO18ERA12	550	-	0	10 GPM	1 HP	-	29.5/240
PFH-ECO18ERA12	550	8	1	10 GPM	1 HP	-	35/240
PFH-ECO28ERA12	850	12	2	10 GPM	1 HP	-	41/240
PFH-ECO38ERA12	800	16	3	10 GPM	1 HP	-	48/240



ECONOX 1200

Many options are available for this osmosis category of Econox. It all depends on the number of taps as well as the desired yield during the sugaring season. this machine will allow you to concentrate at a higher level because of its configuration allowing you to connect membranes in parallel or in series to get a higher flow. Initially designed for three membranes. You can start with only one membrane, but can go up to six with the High Brix option!

Product No.	Flow gal./hr	Avr. Brix	Membranes	7.5HP pressure pump	Feed pump	Booster pump	Amps. / Volts
SPH-ECO38ERA20	1200	-	0	20 GPM	2 HP	-	42.5/240
PFH-ECO18ERA20	550	8	1	20 GPM	2 HP	-	49/240
PFH-ECO28ERA20	950	12	2	20 GPM	2 HP	-	55/240
PFH-ECO38ERA20	1200	14	3	20 GPM	2 HP	-	62/240
PFH-ECO48ERA20	1300	16	4	20 GPM	2 HP	-	68/240
PFH-ECO48ERA20-B1	1100	20	4	20 GPM	2 HP	1 HP	78/240



ECONOX 2000

With all the advantages of the Econox 1200, this unit will treat a very impressive amount of sap. With its 5 HP feed pump a 7.5 HP pressure pump that can go up to 2000 gallons per hour. The Econox 2000 is built with a stainless steel prefilter vessel containing 3 cartridges.

Our team of experts will help you determine the best possible strategy for your business. This model is the highest performing if its category and we are very proud of it! This category fills a dire need for a mid size maple syrup producing business!

Product No.	Flow gal./hr	Avr. Brix	Membranes	7.5HP pressure pump	Feed pump	Booster pump	Amps. / Volts
SPH-ECO68ERA30	2000	-	0	30 GPM	5 HP	-	34/240
PFH-ECO48ERA30	1600	15	4	30 GPM	5 HP	-	60/240
PFH-ECO58ERA30	1800	15	5	30 GPM	5 HP	-	67/240
PFH-ECO68ERA30	2000	15	6	30 GPM	5 HP	-	73/240
PFH-ECO68ERA30-B2	1700	20	6	30 GPM	5 HP	2 HP	85/240





SUPRA

The Supra is the state of the art in terms of performance design based on our knowhow of membrane filtration, this series won't disappoint you. Performance between 2 000 and 8 000 GPH, with or without high brix, and also with the possibility of full automation the Supra is the leader for efficiency and performance. The Supra serie also include a cartridge filter housing for the concentration and one for washing.

CHARACTERISTICS

- Modular design: 4 to 18 membranes
- Electropolished stainless steel vessels
- Quick wash in 45 minutes
- 2400 - 4000 System: 74" H x 80" L x 40" D
- 6000 - 8000 System: 74" H x 80" L x 46" D
- Vertical vessel: 54" H x 21" L x 50" D
- Cart for vessel: 61" H x 19" L x 56" D
- Easy installation
- Power input: 3" (76 mm)
- Drain: 3" (76 mm)

SUPRA 1200

Supra 1 200 includes 1 High pressure pump of 20 GPM, for a total input flow between 1 000 and 1 600 gph, 2 to 4 membranes. Includes one feed pump 2 HP, and 3 cartridge filter housing of 5 round (2 concentration, 1 wash)

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
SPH-SUPRA-COEUR-01-36-A	-	-	-	2 x 20 GPM	1 x 7.5 HP	-	-
PFH-SUP68ERA40	2000	16	6	2 x 20 GPM	1 x 7.5 HP	-	133/240
PFH-SUP78ERA40-B2	2000	22	7	2 x 20 GPM	1 x 7.5 HP	2 HP	151/240

SUPRA 2000

Supra 2000 includes 1 High pressure pump of 30 GPM, for a total input flow between 1 600 and 2 300 gph, 4 to 6 membranes. Includes one feed pump 5HP, and 2 cartridge filter housing of 5 round (1 concentration, 1 wash)

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
SPH-SUPRA-COEUR-01-36-A	-	-	-	2 x 20 GPM	1 x 7.5 HP	-	-
PFH-SUP68ERA40	2000	16	6	2 x 20 GPM	1 x 7.5 HP	-	133/240
PFH-SUP78ERA40-B2	2000	22	7	2 x 20 GPM	1 x 7.5 HP	2 HP	151/240

SUPRA 2400

The Supra 2400 includes 2 High pressure pumps of 20 GPM, for a total input flow between 2 000 and 2 600 gph, 6 to 9 membranes. Includes two feed pumps 5HP, and 3 cartridge filter housing of 5 round (2 concentration, 1 wash)

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
SPH-SUPRA-COEUR-01-36-A	-	-	-	2 x 20 GPM	1 x 7.5 HP	-	-
PFH-SUP68ERA40	2000	16	6	2 x 20 GPM	1 x 7.5 HP	-	133/240
PFH-SUP78ERA40-B2	2000	22	7	2 x 20 GPM	1 x 7.5 HP	2 HP	151/240
PFH-SUP88ERA40	2600	16	8	2 x 20 GPM	1 x 7.5 HP	-	146/240
PFH-SUP98ERA40-B2	2400	22	9	2 x 20 GPM	1 x 7.5 HP	2 HP	164/240

SUPRA 4000

The Supra 4 000 includes 2 High pressure pumps of 30 GPM, for a total input flow between 3 000 and 4 000 gph, 6 to 12 membranes. Includes one feed pump 7,5HP, and 3 cartridge filter housing of 5 round (2 concentration, 1 wash)

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-SUP48ERA60	1600	16	4	1 x 30 GPM	1 x 7.5 HP	-	60/240
PFH-SUP68ERA60	2400	16	6	1 x 30 GPM	1 x 7.5 HP	-	73/240
PFH-SUP88ERA60	3200	16	8	2 x 30 GPM	1 x 7.5 HP	-	150/240
PFH-SUP108ERA60	3600	16	10	2 x 30 GPM	1 x 7.5 HP	-	163/240
PFH-SUP108ERA60-B2	2600	22	10	2 x 30 GPM	1 x 7.5 HP	2 HP	174/240
PFH-SUP128ERA60	4000	16	12	2 x 30 GPM	1 x 7.5 HP	-	176/240
PFH-SUP128ERA60-B2	3000	22	12	2 x 30 GPM	1 x 7.5 HP	2 HP	187/240

SUPRA 6000

The Supra 6 000 includes 3 High pressure pumps of 30 GPM, for a total input flow between 5 500 and 7 000 gph, 16 to 24 membranes. Includes one feed pump 10 HP, and 5 cartridge filter housing of 5 round (3 concentration, 2 wash)

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-SUP168ERA90	5200	16	16	3 x 30 GPM	1 X 10 HP	-	251/240
PFH-SUP168ERA90-B2	4000	22	16	3 x 30 GPM	1 X 10 HP	2 x 2 HP	273/240
PFH-SUP188ERA90	6000	16	18	3 x 30 GPM	1 X 10 HP	-	264/240

SUPRA 8000

The Supra 8 000 includes 4 High pressure pumps of 30 GPM, for a total input flow between 7 500 and 9 000 gph, 20 to 32 membranes. Includes two feed pump 7,5 HP, and 6 cartridge filter housing of 5 round (4 concentration, 2 wash)

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-SUP248HB8ERA120	8000	30	24 + 8HB	4 x 30 GPM	2 x 7.5 HP	4 x 3 HP	460/240



CREATOR OF THE HIGH BRIX TECHNOLOGY

PATENTED TECHNOLOGY

Did you know that H2O Innovation is the creator of the HIGH BRIX technology? In fact, this technology was invented by our RO specialists in 2012 directly in our Ham-Nord facilities. Our goal was to fill a primary need of maple producers : to reduce production cost and improve time management. By being a major player in membrane filtration all over the world, H2O Innovation had the know-how and knowledge required to put this idea to rest.

WHY CHOOSE HIGH BRIX TECHNOLOGY?



Syrup taste

The process patented by H2O Innovation retains all the elements present in the sap, resulting in uncompromising maple syrup.



Operating time

Total time invested in boiling High Brix concentrate is 50% less for the same amount of syrup produced. Time is money!



Operation flexibility

Reduce concentrate quantity, store it for days in a refrigerated bulk tank and boil only when it's necessary. Optimal time management!



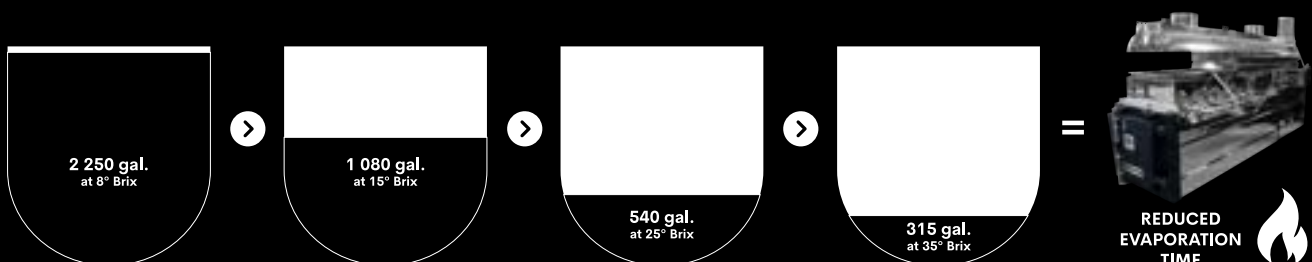
Variable speed

In combination of our High Brix Oil Finishing Rig, choose your pan configurations to set your operating speed the way you want.



Ecological footprint

Less time boiling has a direct impact on greenhouse gas emissions in the atmosphere.





ECONOX

HIGH BRIX

35° BRIX IN ONE PASS

The High Brix Econox is the most efficient osmosis on the market for a producer that wants to be part of the cutting-edge technology. Allowing a concentration of 30 °Brix and more, this unit will enable you to maximize your floor space and your time all this translates to an increased profitability for your entreprise. This machine allows you to concentrate your sap in a one and only step up to more than 30°Brix.

You can also concentrate in 2 steps either from 2 to 15 °Brix with a conventional osmosis and then from 15 to 35 °Brix with this sytem. This option is viable and allows you keep your current concentrator.

ECONOX 1200HB

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-ECO38HB1ERA20	1300	25 to 27	3 + 1HB	20 GPM	2 HP	3 HP	85/240
PFH-ECO48HB2ERA20	1350	27 to 30	4 + 2HB	20 GPM	2 HP	3 HP	98/240
PFH-ECO08HB2ERA20	250	30 to 35	0 + 2HB	10 GPM	1 HP	3 HP	72/240
PFH-ECO08HB4ERA20	500	30 to 35	0 + 4HB	10 GPM	1 HP	2 x 3 HP	102/240
PFH-ECO08HB6ERA20	750	30 to 35	0 + 6HB	20 GPM	2 HP	3 x 3 HP	132/240

ECONOX 2000HB

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-ECO48HB2ERA30	1600	30 to 32	4 + 2HB	30 GPM	5 HP	3 HP	90/240
PFH-ECO58HB2ERA30	1800	30 to 32	5 + 2HB	30 GPM	5 HP	3 HP	97/240

OPTIONS

PFHSC-KIT1-3	One High Brix vessel with 3 HP booster pump, horizontal wheeled support & flowmeter
PFHSC-KIT-2	Two High Brix vessels with hor. wheeled support & flowmeter
PFHSC-KIT-2-3	Two High Brix vessels with 3 HP booster pump, horizontal wheeled support & flowmeter
ECX-E03-08	Electrical box for High Brix Econox (Increased capacity) including 2 recirculation pump, 1 x 2 HP booster pump
ECX-E03-07	Electrical box for High Brix Econox (Increased capacity) including 3 recirculation pump, 1 x 2 HP booster pump & 1 x 2 HP booster pump

SUPRA

HIGH BRIX

35° BRIX IN ONE PASS

The High Brix Supra is Patented technology and the reference in the maple industry. We perfected reverse osmosis applications for sugarmakers that need professional and practical results. Designed as single step operations, machines are capable of 2 to 35 brix reducing energy and maximizing sugarhouse efficiency vs 2-step processes. The High Brix Supra can be paired with up to 32 membranes at flows of 8 000 gallons per hour.

Trust the membrane filtration experts!

SUPRA 2400HB

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-SUP68HB2ERA40	2000	30 to 35	6 + 2HB	2 x 20 GPM	7.5 HP	3 HP	163/240
PFH-SUP88HB4ERA40	2600	30 to 35	8 + 4HB	2 x 20 GPM	7.5 HP	3 HP	189/240

SUPRA 4000HB

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-SUP108HB4ERA60	3600	30 to 35	10 + 4HB	2 x 30 GPM	7.5 HP	2 x 3 HP	223/240
PFH-SUP128HB4ERA60	4000	30 to 35	12 + 4HB	2 x 30 GPM	7.5 HP	2 x 3 HP	236/240

SUPRA 6000HB

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-SUP188HB6ERA90	6000	30 to 35	18 + 6HB	3 x 30 GPM	10 HP	3 x 3 HP	354/240

SUPRA 8000HB

Product No.	Flow gal./hr	Avr. Brix	Membranes	Pressure pump	Feed pump	Booster pump	Amps. / Volts
PFH-SUP248HB6ERA90	8000	35+	24 + 8HB	4 x 30 GPM	2 x 7.5 HP	4 x 3 HP	460/240

AUTO-START & INTELLIGENT OSMOSIS



Remote control - AUTO-START

AUTO-START-02

Remotely control your Econox with any mobile device. Start and stop your Reverse Osmosis machine; start concentration, wash, or rinse cycles. 5 control valves included.

*Options available upon request.

AUTO-START-12

Remotely control your Supra with any mobile device. Start and stop your Reverse Osmosis machine; start concentration, wash, or rinse cycles. 7 control valves included.

*Options available upon request.



H2O Innovation Intelligent Osmosis - The pinnacle of intelligent automation

AUTO-SUPRA-XXXX

With a 15" operator interface, remotely controls your Supra with any mobile device. Start and stop your Reverse Osmosis Machine; start concentration, wash, or rinsing cycles. Starts and stops according to the operator's choice or depending on your tank level. Data history and alarms are sent by e-mail. Includes, 15 control valves, temperature and pressure probes, conductometer, concentrate and filtrate flowmeter. Maple sap, concentrate and permeate levels are also included.

Options : - RF-50 continuous Brix reader;
- Acid dosing pump;
- Caustic dosing pump;
- pH probe.



Continuous Brix Reader

RF-50

Developed by H2O Innovation, the REFRACTO RF-50 is a very precise continuous brix reader with an unbeatable price-performance ratio. With a reading range of 0 to 50 Brix, it is an interesting tool to add to your RO in order to know at all times the Brix output from it.

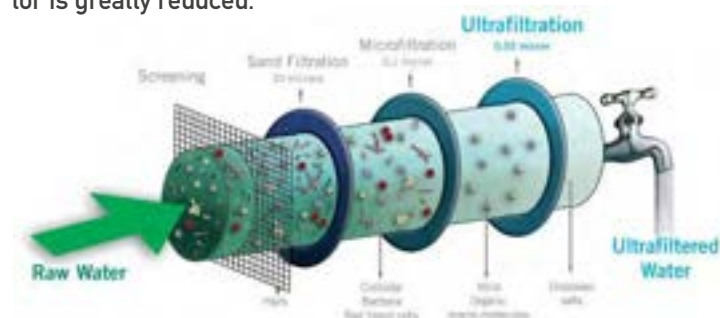


RF-50

REFRACTO
RF-50

ULTRAFILTRATION

Ultrafiltration technology has been used in a multitude of applications for several years, whether removing bacteria from milk and brine, or producing drinking water. We have been a pioneer in this industry with more than 100 systems installed to date. Recently, this technology has also been used in the maple industry to remove bacteria and microorganisms from sap or concentrate. The removal of these pollutants allows the sap or concentrate to be stored over a longer period of time. In addition, if the ultra-filtered sap is boiled to make syrup, the production of foam and sugar sand in the evaporator is greatly reduced.



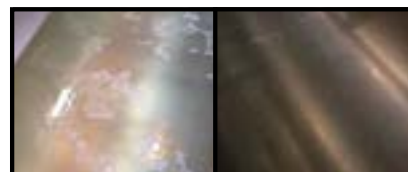
The ECONOX-UF is the entry-level ultrafiltration, completely manual, which allows you to treat a good amount of sap at a lower price. The series includes a 5 cartridge canister of 20" prefilters for prefiltration and all the necessary instrumentations. Available from 1 to 4 membranes, and completely modular, the ECONOX-UF is a very good choice for smaller operations.

Econox-UF Series

Product No.	Description	Amps. / Volts
PFH-ECO-UF-1	Ultrafiltration system 5 GPM	27/240
PFH-ECO-UF-2	Ultrafiltration system 10 GPM	45/240
PFH-ECO-UF-3	Ultrafiltration system 15 GPM	54/240
PFH-ECO-UF-4	Ultrafiltration system 20 GPM	60/240

BEFORE

AFTER



The ultrafiltration with the SUPRA-UF series is the most sophisticated on the market, while remaining very simple to operate. The unit includes a speed dimmer and a magnetic flow meter that maintains a constant flow while compensating for the clogging of the membranes. The SUPRA-UF series is also equipped with 3 filtration modules (5 x 5microns 20") 2 for operation and 1 for washing. This series is available from 4 to 12 membranes and is completely modular to fit your needs over time

SUPRA-UF Series

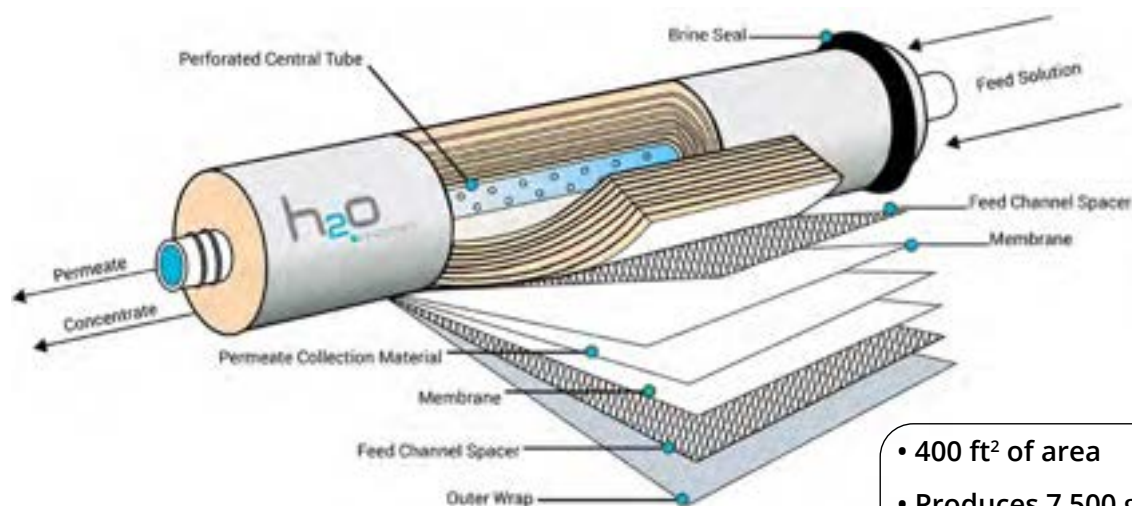
Product No.	Description
PFH-SUPRA-UF-6	Ultrafiltration system 30 GPM
PFH-SUPRA-UF-8	Ultrafiltration system 40 GPM
PFH-SUPRA-UF-10	Ultrafiltration system 50 GPM
PFH-SUPRA-UF-12	Ultrafiltration system 60 GPM

Ultrafiltration membranes

Product No.	Description
H2O-UF-100	UF membrane
PFH-POT-UF-100	8" UF vessel with membrane

**DID YOU
KNOW?**

H2O Innovation has
installed more than 250
UF membrane water
filtration systems
in North America.



- 400 ft² of area
- Produces 7 500 gal./day
- Rejection rate of 99,5%

Membranes

Product No.	Description
RE2540-BLF	Membrane - 2 1/2"
85061	Leader 4" x 20" Membrane
H2O-704040	H2O 70-4040 - 4" Membrane
H2O-70400	H2O 70-400 - 8" Membrane
ULE-8040	H2O 8" Ultra Low Energy Membrane
H2O-SC-400	H2O 8" High Brix Membrane



H2O-70400

Storage vessel

Product No.	Description
ERACASREM-4	4" membrane storage vessel
ERACASREM	8" membrane storage vessel

Membranes cleaning

Product No.	Description
X-TEST-MEMB	Capacity test
X-LAVAMEMB4	4" membrane wash
X-LAVAMEMB8	8" membrane wash
X-LAVAMEMB-SS	Extra for D&G stainless steel vessels



Off season membrane cleaning

We recommend sending the membrane back to a specialist once a year to have a complete factory cleaning. H2O Innovation has its own membrane cleaning department, one in Ham-Nord, QC and a new cleaning line in Swanton, VT (Summer 2023).



RO CHEMICAL PRODUCTS & ACCESSORIES



CHE-C6H807-1



CHE-NAOCL-5G



CHE-BIOMEMBRANE-1G



PWT-LAVASOLVII-5G



CHE-REMISAGE-1G



PWT-ULTRA-BIOMEMBRANE-1G

Chemical products and accessories

Product No.	Description	
CHE-BIOMEMBRANE-1G	Bio-membrane 4 l	
CHE-C6H807-1	OptiClean A 1 lb	
CHE-C6H807-4	OptiClean A 4 lbs	
CHE-C6H807-25	OptiClean A 25 lbs	
CHE-OXISAN-1G	Oxisan 1 gal.	
CHE-NA2S2O5-1.5 LBS	Sodium metabisulfite 1.5 lb 1/4 cup per membrane	
CHE-NA2S2O5-4 LBS	Sodium metabisulfite 4 lb 1/4 cup per membrane	
CHE-C6H807-55	Citric acid 55 lbs (bag)	
CHE-NAOCL-5G	Sodium hypochlorite 12%	
CHE-BASIC50LBS	Powder basic soap 50 lbs	
CHE-C3H802-4L	Propylene glycol 4l	
CHE-HCL-1G	Chloridric acid 1 gallon	
PWT-ULTRA-BIOMEMBRANE-1G	Ultra Bio-Membrane 4 l	
PWT-LAVASOL7-5G	Lavazol 7 (VII) 5 gal.	
COLR59200-10	pH paper	
CHE-REMISAGE-1G	Storage solution with glycol	
CHE-DRY-REM-1G	Storage solution (dry 1 gal. US)	
70001	Membrane preservative 1 lb jar	
70008	Citric acid 1 lb jar	
69980	ACID Magic - Muriatic acid 1 gallon	
70009	Glycol gallon	
69996	R/O Powder soap 2 lb container	
69993	R/O Powder soap 50 lb pail	

DID YOU KNOW?

Oxisan can also be used as a disinfectant and isn't as harmful as chloride for the environment

WARNING : Take note that some of our products can't be stored and/or mixed together and/or with other products. At H2O Innovation we care about your safety! For any questions you might have regarding chemical products please contact us.

Off season membrane storage

It's important to store the membrane in a sealed vessel with a storage solution. Storage solution will prevent bacteria growth. Bacteria will damage the membrane.

Usage: Do not completely fill the pressure vessel. Use 1 gallon of storage solutions in the dry vessel to get the perfect storage for your membrane. Store it above the freezing point

Membrane storage vessel
ERACISREM


Only use
1 gal.

Storage solution
CHE-DRY-REM-1G
or CHE-REMISAGE-1G

Bacteria

EVAPORATORS CHEMICAL PRODUCTS & ACCESSORIES

Evaporator cleaning products

Product No.	Description
ERASUPCL4L	Super Clean 4 l
ERASUPCL20L	Super Clean 20 l
ERAVINGLA20L	Acetic glacial acid 20L 
ERAICRE-SET	Stainless steel cleaner - Kit
ERAICRE-500	Stainless steel cleaner - bottle only
63006	Leader plan cleaner - Quart
63016	Leader plan cleaner - Gallon
63023	Leader plan cleaner - 5 gallons



ERASUPCL4L

Sap defoamer & cups

Product No.	Description
ERAKASHER	Anti-foam Kosher 200g
ERAANTI-1L	Liquid anti-foam Kosher 1 l
ERAANTI-4L	Liquid anti-foam Kosher 4 l
PFH425GOBKAS	Stainless steel anti-foam cup
ERA170H001	Wooden anti-foaming block (maple)
63015	Sap defoamer - 4oz squeeze bottle
63018	Sap defoamer - Quart
63021	Sap defoamer - Gallon
63019	Defoamer dripper
63037	Organic Defoamer - 4 oz 
63038	Organic Defoamer - Quart 
63039	Organic Defoamer - Gallon 



63015







ERA170H001



PFH425GOBKAS

Tubing maintenance, cleaning solutions & tools

Product No.	Description
ERAALC00L4L	70% Isopropyl alcohol 4L 
ERAALC00L20L	70% Isopropyl alcohol 20L 
ERAALC00LBAR	70% Isopropyl alcohol 45 gal. barrel 
ERAALC00LAD2J	Tapping alcohol 4L AD2J
CHE-NAOCL-5G	Sodium hypochlorite 12% 5 gal. 
ERAPISTALC5	5ml alcohol doser gun
ERAPISTALC15	15ml alcohol doser gun
KIT-08L	5L backpack tank and 15ml alcohol doser gun kit
628451480228	Brush tip for alcohol gun



ERAPISTALC5



ERAPISTALC5



KIT-08L

HALF PINT EVAPORATOR

LEADER

CHOOSE YOUR ARCH (WOOD, OIL OR GAS)



Wood
372433CWLR



Oil
372433COLR-A



Gas
372433CGLR-A

Above units include reservoir.

Extension kits for oil and gas arches require factory installation. Call for pricing

UPGRADE YOUR PANS



The Supreme Pan

We have increased the surface area of the traditional boiling pan by adding 6 micro flues to the middle of the pan. This increase in surface area results in a significant increase in evaporation rates.

372433S-A



The Traditional Pan

Three compartment flat bottom boiling pan with large flow syrup cutouts and 1/2" Draw offs. Sturdy 20ga SS construction and L-top reinforced design.

372433L-A

EXPAND YOUR COMPONENTS



ADD
CAPACITY
TO YOUR
EVAPORATOR!



Bolt-on regulator system w/ Float

For use with all welded Half Pint and Supreme Boiling Pans.

59029A



Half Pint BTU Booster

Add-on accessory that can be installed quickly, this 120-volt blower increases turbulence in the fire box with a massive amount of air, increasing heating temperatures and evaporation rates.

370000A

Half pint extensions available for wood oil & gas.



The Vermont

2' X 4' LEADER

Step up to the Vermont as your operation grows. Designed for producers 50-150 taps with continuous, dual float sap level control. A must have for the next level hobby sugarmaker.

372404VA : The Vermont pan

302404R-A : 2 x 4 Natural draft arch

CHARACTERISTICS

- This 2' x 4' Combo Pan includes a syrup pan and flue pan in one!
- Features 10 - 5.5" raised flues
- Boiling rate of approx. 22-25 gallons per hour
- Internal bolt-on regulating system for hot sap
- All stainless steel is tig welded
- Dial thermometer fitting in syrup box
- Two-compartment syrup pan
- 1" Draw-Offs

WSE Evaporator

2' X 6' LEADER

CHARACTERISTICS

- Tig welded 20 ga. BA stainless steel
- Heavy duty stainless steel connections and clamps
- Three compartment syrup pan
- Rotate syrup pan to change syrup compartment
- External regulating system for drop flue
- Internal bolt-on regulating systems for hot and cold sap in raised flue
- Drop flue features 6 - 7.5" drop flues (392400LW-A)
- Raised flue features 10 - 5.5" raised flues (392400LWR-A)

Optional Butterfly Valve Kit (3900002A)

For WSE Evaporator, easier draining of pan and faster pan reversal. Required for use with Reverse Osmosis and other enhancements.



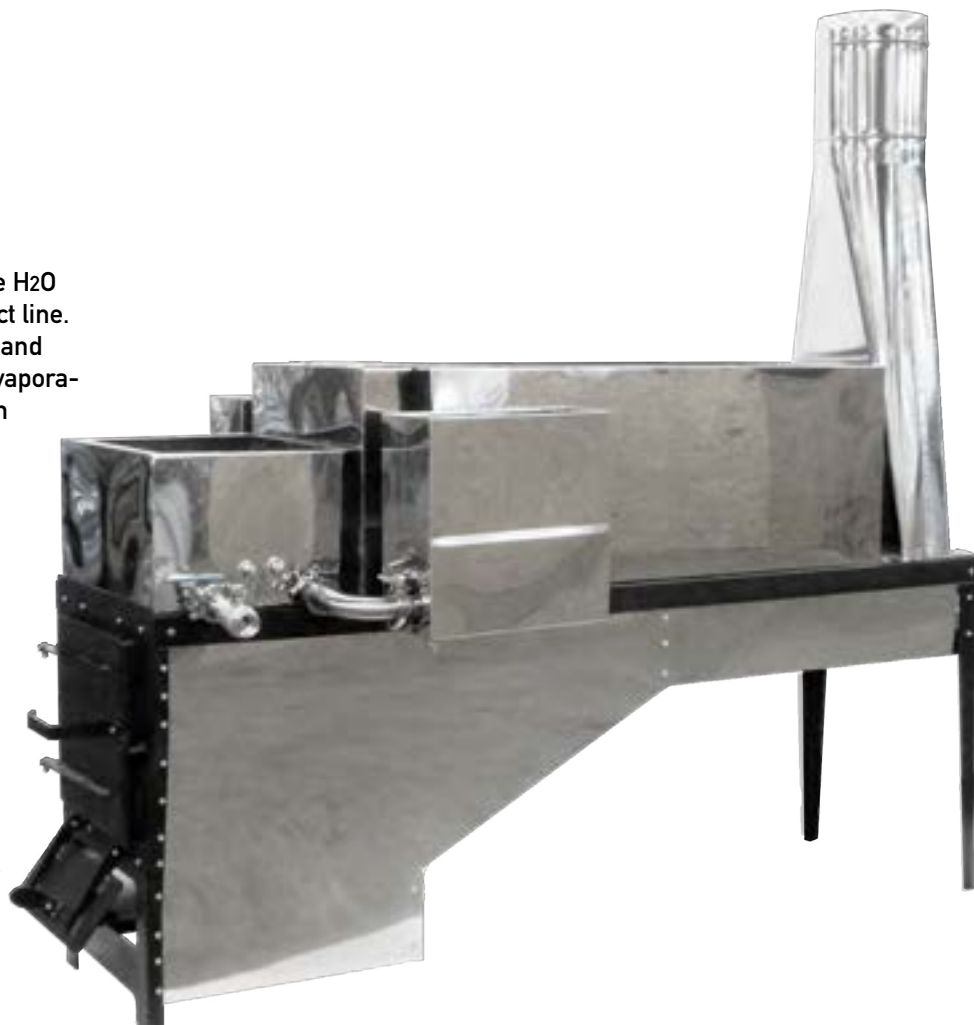
NOW AVAILABLE IN RAISED AND DROP FLUE

THE ROOKIE

Rookie

To perfect technique

The Rookie is meant to be the most economical choice in the H2O Innovation evaporators product line. Standard with 5" raised flues and 2 float boxes, this complete evaporator is ready to fire. Its cast iron front end and stainless steel pans are built to last.



INCLUDED

- Base
- Flue pan (5" flues)
- Flat pan
- Base stack
- Smoke stack
- Sap-in float box
- Transfer float box
- Ceramic wool
- Casting valve

OPTIONS

- Closed hood
- Suspended hood
- Smoke stack cover
- Chinese stack cover
- Hood stack
- Extra flat pan
- Stack roof jack & collar
- Hood roof jack & collar
- Radiant protection
- Full length suspended hood (12" larger than evaporator)
- Closed or suspended hood light
- Sight level

NOTE: Bricks and mortar are not included with The Rookie.

*Equipment picture is for illustrative purposes only. The design of some parts may be different.

Tradition

A tradition of quality

Recently revisited and improved the solid design of the Tradition includes stainless steel valves and a cast iron door. Its float box includes a decantor to facilitate the elimination of sugar sand. The Tradition is also available with the grate & blower option with an insulated door. Even the smallest are finished and performs like the big ones, thanks to the standard 7" flues.



INCLUDED

- Base
- Flue pan (7" flues)
- Flat pan
- Base stack
- Smoke stack
- Sap-in float box
- Float box
- Socket & pan transfers
- Insulation strip
- 1-1/2" glass sight level for flue pan
- Ceramic wool

NOTE: Bricks and mortar are not included with The Tradition.

DIMENSIONS		PERFORMANCE AT 15 °BRIX	
WIDTH	LENGTH	MAPLE SAP GAL./H	SYRUP GAL./H
1.5'	5.5'	25	4
2'	8'	48	8
2.5'	10'	75	13
3'	10'	90	15
3.5'	12'	127	22
4'	14'	169	29
5'	16'	241	41
6'	14'	253	43
6'	16'	289	49

NOTE: Values for information only, may vary by +/- 20%.
The rate of evaporation is directly linked to the quality of the fuel used.

OPTIONS

- Closed hood
- Suspended hood
- Smoke stack cover
- Chinese stack cover
- Hood stack (24")
- Extra flat pan
- Blower & grate option
- Insulated door
- Ash tray
- Base stack key
- Stack roof jack & collar
- Hood roof jack & collar
- Radiant protection
- Catch pan
- Full length suspended hood (12" larger than evaporator)
- Preheater
- Hot water pan
- Flow inverter
- 1 1/2" Glass sight level
- Closed hood light
- Suspended hood light
- Flue pan washer
- Coil
- Automatic draw-off
- Flue pan air injector
- Flat pan air injector

*Equipment picture is for illustrative purposes only.
The design of some parts may be different.

THE TSUNAMI

TSUNAMI

A force of nature

The Tsunami evaporator is the biggest and best performing wood fired evaporator offered by H2O Innovation. Its optimized design makes it one of the best high performance evaporators on the market. The boiling is done continuously, without heat peaks, thanks to the constant temperature of the insulated combustion chamber. This allows for a continuous and stable flow. This evaporator includes a fan with variable control to produce optimum combustion regardless of the type of wood used. The operation of the Tsunami is simple and allows you to maximize your work without requiring more effort. The efficiency of the Tsunami can be increased as it is possible to convert it into a High Brix finishing rig.



Adjustable
performance
dial

DIMENSIONS		PERFORMANCE AT 15 °BRIX	
WIDTH	LENGTH	SAP GAL./H	SYRUP GAL./H
3'	12'	110	19
3.5'	12'	128	22
3.5'	14'	149	25
4'	12'	146	25
4'	15'	183	31
5'	12'	183	31
5'	14'	213	36
5'	16'	243	42
6'	16'	292	50

NOTE: Values for information only, may vary by +/- 20%.
The rate of evaporation is directly linked to the quality of the fuel used.



IMPROVEMENT

Secondary air supply
is optimized for
improved combustion.

*Equipment picture is for illustrative purposes only.
The design of some parts may be different.



INCLUDED

- Base
- Flue pan (7" flues)
- Flat pan
- Base stack
- Smoke stack
- Butterfly valve
- Sap-in float box
- Transfer float box
- Sockets & pan transfers
- Insulation strip
- Closed hood
- Suspended hood
- Smoke stack cover
- Chinese stack cover
- Steam stack (24')
- 1-1/2" glass sight level for flue pan

NOTE: Total length of the included steam stack is 24' (2 x 12').

OPTIONS

- Extra flat pan
- Stack roof jack & collar
- Hood roof jack & collar
- Radiant protection
- Full length suspended hood (12" larger than evaporator)
- Catch pan
- Preheater
- Hot water pan
- Flow inverter
- 1-1/2" glass sight level for flat pan
- Closed hood light
- Suspended hood light
- Flue pan washer
- Coil
- Automatic draw-off
- Flue pan air injector
- Flat pan air injector
- Inlet electric valve (alarm)

WOOD FIRED ARCHES

LEADER



Natural Draft

Wood-Fired Arch

Our natural draft wood-fired arches feature heavy-duty cast iron fronts designed with expansion joints for durability. Our unique “Double V” grate design is the strongest and most warp resistant cast iron grate in the maple industry. All sizes come standard with stainless steel sides and stainless steel smoke stack. All arches need to be insulated during installation with properly rated fire bricks and refractory materials (not included with the arch).

All wood-fired arches come equipped with twice the evaporator’s length in smoke stack, rounded to the nearest three-foot increment (i.e. $3 \times 10 = 21$ feet of stack) and the proper number of cast iron grates.

CHARACTERISTICS

- Traditional, long-lasting design
- Cast iron front and doors
- Adjustable draft door
- Adjustable rear legs
- Stainless steel sides and stack
- Grates included
- Sturdy angle iron frame
- Adjustable leg levelers





Inferno

Wood-Fired Arch

The Inferno wood fired arch features Leader's forced draft system, installed using the special dome-shaped forced air grates, and properly sized air blowers with speed controls. Combining the forced draft with the special air tight front allows the blowers to be run at high levels, creating more turbulence in the fire box. That turbulence will increase the BTU output of your wood, and increase your fuel efficiency. Some secondary air is also injected through the front of the arch. Smaller arches have air coming in through the door casing, while on the larger arches the air comes in through the door itself.

It is very important with the additional heat these arches generate that the arch be properly insulated during installation, which includes fire bricking sides and front with properly rated bricks and refractory materials (not included with arch).

CHARACTERISTICS

- 20% more efficient than a natural draft arch
- Durable 14-gauge airtight door
- Rugged, balanced, angle iron frame
- Tough, trucker-style two-hinge door
- Stainless steel sides and stack
- Blower included
- Forced draft grates included
- Adjustable leg levelers



Available in sizes from 2 x 6 to 6 x 18.



Vortex

Wood-Fired Arch

The Vortex Arch is the most aggressive wood fired arch in the maple industry. Clean burning, easy to fire and very consistent syrup pan temperatures. Designed to save time, the firebox can reach full temperatures from a cold sugarhouse in as little as 15 minutes. Ideal for both raw sap or high brix applications.

CHARACTERISTICS

- Highest wood fire boiling rate
- 45% more efficient than a natural draft arch
- Triple-lined insulation for maximum heat retention
- Minimal brick for rapid heating and cooling cycles
- Double-wall construction & ribbed stainless steel outer wall
- Durable 14-gauge airtight door
- Dual fans + air-cone-controlled induction system
- Stainless steel stack
- Side access panels
- Tough trucker style two-hinge door
- Rheostat low pressure fan control
- Forced draft grates included



Swing away
door to re-direct
heat away from
user during
firing cycles



Gingerich Brothers and Sperry Sugarhouse
Middlefield, OH

3' x 14' Vortex Arch
Revolution Max Raised 9' & 5' set of pans
Enhanced Steam Away
Steam hoods with full access door



The Vortex is insulated with three layers of 2600° ceramic blanket and minimal bricks to reduce residual heat and maximize thermal cycling – less time waiting for arch cooling means less labor. A massive combustion chamber is fueled by primary and secondary air to increase flow and burning capacity, optimizing wood value and distributing BTU output efficiently to the pans

Superior next level bricking panel walls replace standard bricks drastically extending Vortex arch life!

Vortex Insulating Panels

Product No.	Description
3660001	Panel A - 63 ½ x 22
3640001	Panel B - 54 ½ x 22

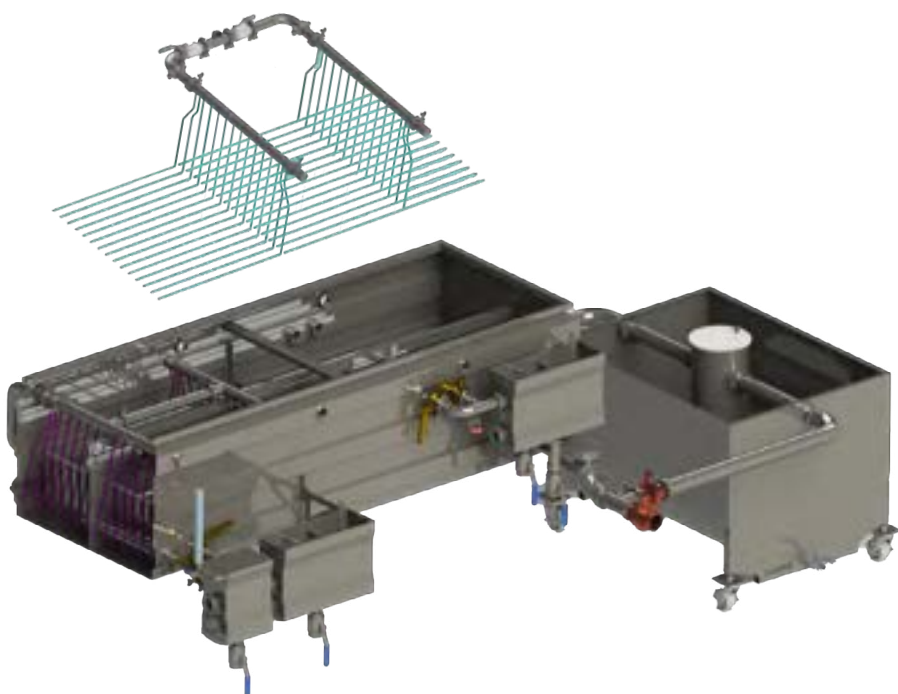
Vortex Panels – Custom high temperature refractory panels with Stainless steel grit is next level arch design. Save bricking installation time and extend arch life with two firebox length panels

Freedom Flue pan

BUILT TO CLEAN

100% REVERSIBLE

- All boxes, pipes, valves, brackets, CIP and bubbler
- Inline Flue pan reversal
 - Change flue pan flow direction from one side by turning 4 valves
- Will fit all Leader Revolution and Crossflow syrup pans
- 11" raised flues



NEW HOT SAP SYSTEM!

- High sap flow with nitre chip trap box
- Sap flow under liquid to eliminate foam
- Fast draining boxes

ALL NEW 2 1/2" SYRUP PAN PIPE KIT AVAILABLE

CIP (Clean In Place)

SS tube sprayers front and mid flue

CHARACTERISTICS

- CIP Tank, nitre basket and VFD pump
- CIP cycles can be run in closed loop for chemical cycles
- Fill Flue pan to any level in closed loop
- 3" Dual drains
- Flush drains directly into tank - for maximum chip removal
- Adjust pump speed for customizable cleaning preferences

Bubbler

CHARACTERISTICS

- All SS pipes run the full length of the flue
 - High pressure blower with Rheostat
- Use during CIP cycles for increased agitation

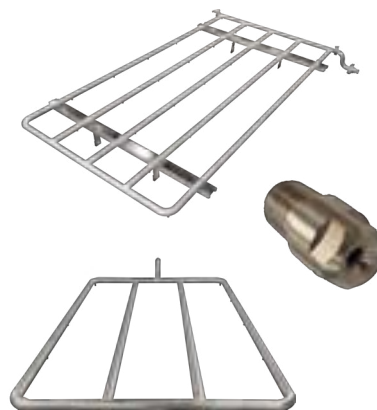


Both CIP and bubbler can be added on later. Installed on flue pan.

PAN CLEANING & BUBBLERS

Syrup pan CIP sprayers

Cleaning systems are essential to extend the longevity of boils and life of your evaporator. Spray nozzle cleaning pipes can be added to any syrup pan. Pipes are installed just inside the syrup pan and out of the way for hoods during operation.

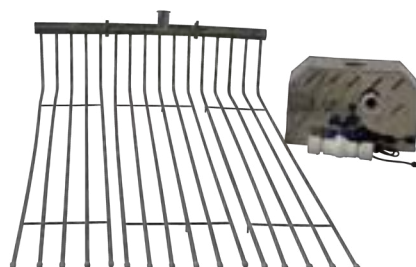


Syrup pan washer systems

Speed up syrup pan cleaning by removing pans and washing independently. Spray systems are designed to spray 1, 2 and 4 pans continuously. Customize your configurations and choose covers, nozzles, rack, basin and pump size. Complete cleaning flexibility with stand alone wash systems or integrated on the evaporator,

Bubblers (Air injector)

Fit up to any H2O or Leader pan and improve agitation during boiling and cleaning cycles. All Stainless steel tubes slide into flue pan and lay at the bottom of every flue to maximize effectiveness.



PFH154148DL

Getting started with Cleaning

Sugarmakers continue to improve and increase production capacities. Improper cleaning techniques can wear and damage your equipment. We are here to help you understand and improve cleaning methods that save you time and money. Contact us and chat with an expert!

NOTE: Please contact a local dealer for specific type and size.

LEADER SYRUP PANS

LEADER



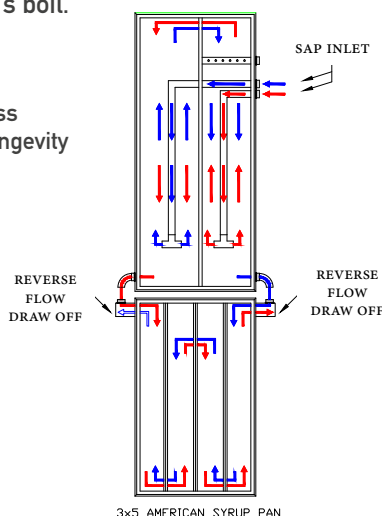
American Pans

Drop Flue Style

An American legacy, these drop flue pans are completely welded with stainless steel fittings, and stainless steel draw-off valves. Unlike many other welded pans, Leader is committed to full-seam welding of all partitions. This is essential for preventing back-mixing and dilution during boiling (both of which can cause a drop in the grade of the syrup). These pans are equipped with an automatic sap regulating system that allows the operator to reverse the flow of liquid quickly, easily, and without slowing down the evaporator's boil.

CHARACTERISTICS

- High quality, 20-gauge stainless steel pans, the standard for longevity in the maple industry
- Drop flue style set of pans
- Stainless steel fittings and draw-off valves
- Simple flow reversal design
- Full-seam welded partitions



Patriot Pans

Reverse Flow System

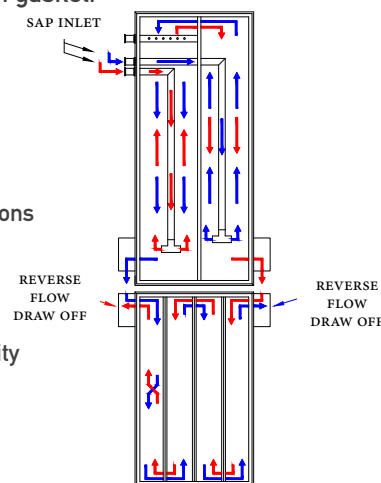
Features two floats, one for the flue pan and one for the syrup pan. This allows the ultimate in liquid level control: the flue pan can be run slightly shallower for performance and syrup quality, while the syrup pan can be run deeper for safety. All Patriot Evaporators have full-seam welded partitions, and are constructed by the industry's finest craftsmen entirely from 20 ga. stainless steel for unsurpassed durability.

When the syrup compartment begins to coat up with nitre and sugar sand builds up, you will have access to two valves and a single plug, all on the outside of the evaporator. These allow you to reverse the flow within the evaporator, so that syrup can be drawn on the opposite side of the syrup pan. With a Patriot Evaporator, there is no need for messy, time-consuming pan changes during peak boiling days.

The Patriot Evaporator is also easily expandable with features like the Steam-Away, or with reverse osmosis. Patriot pans come complete with all draw-off valves, float systems, syrup pan to flue pan connections, plugs, and a ceramic pan gasket.

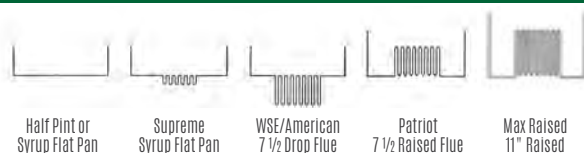
CHARACTERISTICS

- High quality, 20-gauge stainless steel pans, the standard for longevity in the maple industry
- Full-seam welded partitions
- Separate floats for flue and syrup pans
- Two valves allowing quick and easy reversal
- Easily expandable capacity



Which pans are right for you? The short answer is, "it depends." Talk it over with your dealer. They know the right questions to ask to get you started right.

Max flue pan available on demand





Cross-Flow Pans

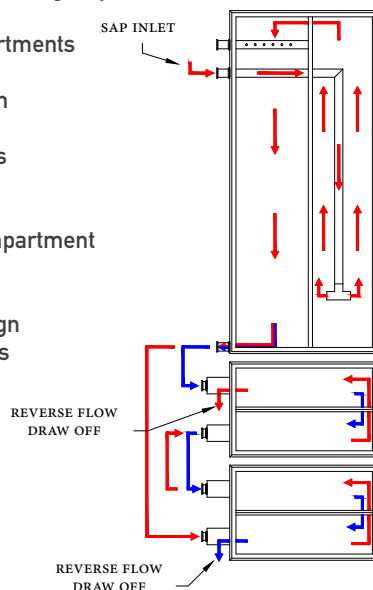
Ultimate in Flexibility

Our Cross Flow pans offer you the most flexibility in cross-flow technology. The U-shaped compartment construction offers greater strength and flexibility. Full-seam welded end panels for all compartments limits unwanted mixing.

Draw-off boxes are seamless, with bottom outlets, offering superior draining. Draw-off valves are also separate from pan connection ports. Includes butterfly valves for pan segregation.

CHARACTERISTICS

- High quality, 20-gauge stainless steel pans, the standard for longevity in the maple industry
- Full-seam welded compartments to eliminate mixing
- Closed top boxes to fill pan deeper for cleaning
- Flat compartment bottoms for easier cleaning
- Slip joint connections
- Base drains for every compartment
- Reinforced drain elbows
- Butterfly valves included
- Simple flow reversal design
- Dual dial thermometer outlets
- No plugs



Revolution Pans

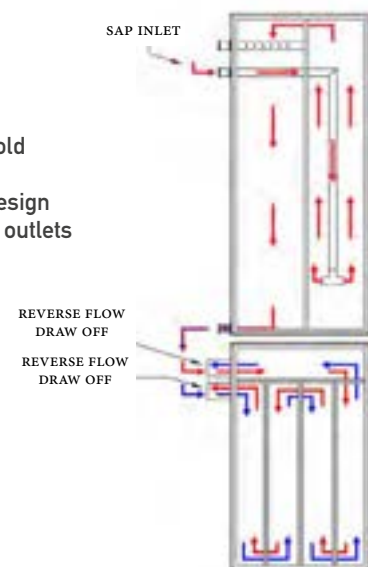
"Right Sizing"

The Revolution Evaporator brings "Right Sizing" to the maple industry. It has the exact same draw-off point all the time, so that barrels, filtering, and workspace can be set and not need to change. Crowds of people can flow around you without interfering in the necessary functions of running the evaporator.

The Revolution Syrup Pan has its syrup compartments in the back of the pan, where the heat is greater, allowing for more consistent, smaller batches of syrup.

CHARACTERISTICS

- High quality, 20-gauge stainless steel pans, the standard for longevity in the maple industry
- Full-seam welded compartments to eliminate mixing
- Slip joints connections
- Two-sided drain manifold
- Butterfly valves
- Simple flow reversal design
- Dual dial thermometer outlets



For exact dimensions and pricing, visit our website or set up a sales consultation with a member of the Leader team (bit.ly/leader-maple).

OIL EVAPORATOR

Classic

A timeless classic

Fully equipped, the classic oil is ready for high production sugarmakers. All stainless-steel wrapped design and front facing electronics is easy to operate. The Classic can be modified later on to be used in conjunction with a High Brix concentrator.

The Carlin burner which it is equipped with is easy to adjust and has a low maintenance cost. Since this type of burner is popular amongst sugar makers, you will easily and quickly find an authorized technician in your area to help you.



DIMENSIONS		PERFORMANCE AT 15 °BRIX	
WIDTH	LENGTH	SAP GAL./H	SYRUP GAL./H
2'	6'	37	6
2'	8'	49	8
2.5'	10'	76	13
3'	10'	91	16
3.5'	12'	128	22
4'	14'	170	29
5'	16'	243	42
6'	14'	256	44
6'	16'	292	50

NOTE: Values for information only, may vary by +/- 20%.
The evaporation rate is linked directly to the size of the nozzle used.

INCLUDED

- Base
- Flue pan (7" flues)
- Flat pan
- Base stack
- Smoke stack
- Butterfly valve
- Sap-in float box
- Transfer float box
- Sockets & pan transfers
- Insulation strip
- Closed hood
- Suspended hood
- Smoke stack cover
- Chinese stack cover
- Smoke stack (24')
- 1-1/2" glass sight level for flue pan
- Burner cover
- Base stack cover

OPTIONS

- Extra flat pan
- Stack roof jack & collar
- Hood roof jack & collar
- Radiant protection
- Full length suspended hood
- Catch pan
- Preheater
- Hot water pan
- Flow inverter
- 10" Flue pan (High Brix)
- 1-1/2" glass sight level for flat pan
- Closed hood light
- Suspended hood light
- Flue pan washer
- Coil
- Automatic draw-off
- Flue pan air injector
- Flat pan air injector
- Inlet electric valve
- Transfer electric valve



Reverse Fire Supreme

Oil-Fired Arch

The latest in oil-fired arch technology. The front panel features control switches, indicator lights for burner functions, and a digital oil pressure gauge for monitoring burner performance. The repositioned burners have optimized boiling dynamics by improving heat distribution. The combustion chamber temperatures under the syrup pan were tested, and measured less than a 100° range from the front corners to the center of the pan. This virtually eliminates batching in the syrup pan and keeps the draws of syrup coming steady.

Double-walled with multiple layers of 2600° insulating blanket, and cooled with circulating fans, the outer stainless steel wrap is easy to keep clean and makes this the ideal arch for your show-place sugarhouse.

CHARACTERISTICS

- Triple-lined insulation for maximum heat retention
- Stainless steel stack and barometric damper included
- Rear burner placement for consistent syrup pan boiling
- Side access panel
- Front access electrical panel
- Body cooling fans
- Front and rear power outlets
- Double-wall construction
- Ribbed stainless steel outer wall
- Easy access front display
- Adjustable leg levelers

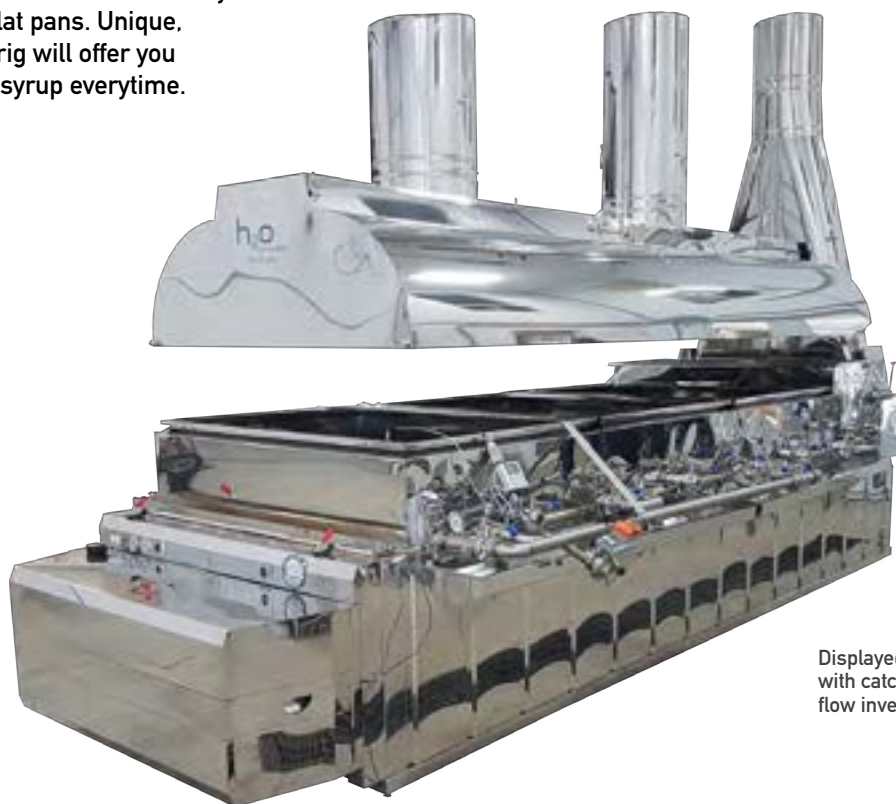
OIL FINISHING RIG

Oil/Gas Finishing Rig

For well-developed flavors

The High Brix patented technology makes it an highly efficient finishing evaporator, capable of producing up to 225 gallons of syrup per hour.

It is also easy to clean and maintain. A pan washer can be fitted directly on top of the flat pans. Unique, the Finishing rig will offer you a high quality syrup everytime.



Displayed model
with catch pan &
flow inverter options

DIMENSIONS		PERFORMANCE AT 30 °BRIX	
WIDTH	LENGTH	SAP GAL./H	SYRUP GAL./H
2.5'	10'	87	30
2.5'	12'	105	36
3.5'	14'	171	58
3.5'	16'	195	67
5'	14'	244	83
5'	16'	279	95
6'	14'	293	100
6'	16'	335	114
7'	20'	488	166

NOTE: Values for information only, may vary by +/- 20%.
The evaporation rate is linked directly to the size of the nozzle used.

INCLUDED

- Base
- Flue pan (10" flues)
- Flat pan
- Base stack
- Smoke stack
- Butterfly valve
- Sap-in float box
- Transfer float box
- Sockets & pan transfers
- Insulation strip
- Smoke stack cover
- Chinese stack cover
- Hood stack (24')
- Full length susp. hood (1' larger than evaporator)
- High Brix hood collar
- 1-1/2" glass sight level for flue pan
- Burner cover
- Base stack protector

OPTIONS

- Extra flat pan
- Stack roof jack & collar
- Hood roof jack & collar
- Radiant protection
- Catch pan
- Hot water pan
- Flow inverter
- 1-1/2" glass sight level for flat pan
- Suspended hood light
- Flue pan washer
- Coil
- Automatic draw-off
- Flue pan air injector
- Flat pan air injector
- Inlet electric valve
- Transfer electric valve
- Base stack preheater

NOTE: Available with flue pans of 48" and 72".

The Steam Away

HARNESS VIRTUALLY FREE ENERGY!



50% TO 65% INCREASED EVAPORATION!

By using steam from the flue pan funneled through a heat exchanger, the Steam Away consistently increases evaporator performance by 50 to 65%. This increase is achieved by preheating the sap to as high as 200 degrees and concentrating the sap. The Steamaway is great when used with RO machines!

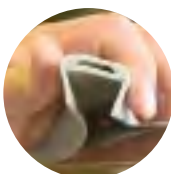
Sap test entering the Steam Away	8%	10%	12%	15.5%
Sap test leaving the Steam Away	12.2%	15%	18%	22.7.%

CHARACTERISTICS

- 90% Distilled water to utilize!
- All Stainless Steel air chamber for back flushing liquid in the pipes
- Removable air pipe ends for easy cleaning
- Just place on top of an existing flue pan
- Can be fitted for flue H₂O pans, transition required
- For all concentrate applications

STEAM AWAY CONDENSATE RETURN

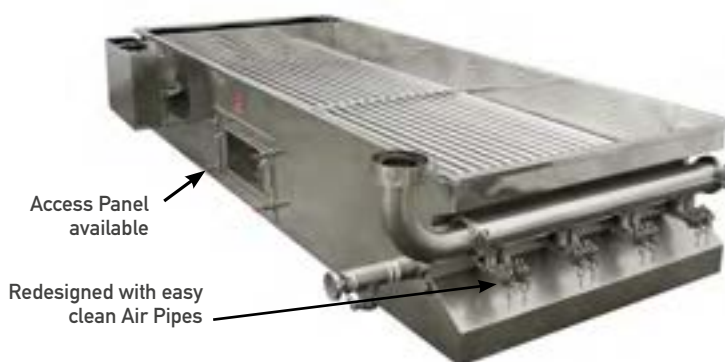
- 2' x 6' = 0.5 - 1 gallons / minute
- 3' x 8' = 1.5-2.5 gallons / minute
- 4' x 10' = 3-4 gallons / minute
- 6' x 10' = 4-6 gallons / minute



42997

STEAM AWAY GASKET

Easy, elegant solution to creating a strong seal between your Steam Away and flue pan. U-channel design eliminates need for tape. Grips pan with no slipping and sliding. Won't lift when you raise your Steam Away.



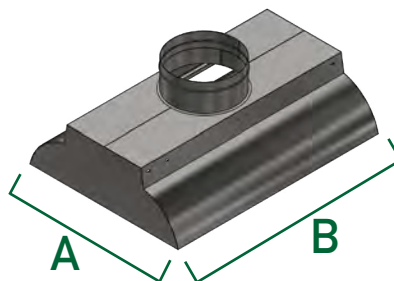
HOODS AND PRE-HEATER



Base stack preheater
for sap or permeate



PFH1514X4



Closed hoods



Suspended hoods

H₂O INNOVATION HOODS

CHARACTERISTICS

- Designed to harness and accumulate steam condensation
- Suspension hooks included 4 windows (closed hoods only)
- 22 ga. stainless steel

OPTIONAL

- Roof jack & collar
- Stack cover
- Smoke stack
- Hood key



Hood with
Full Door



7' Hood
Double
Door

LEADER HOODS

Excess steam creates a humid environment that can wreak havoc with sensitive electronics, while also creating an environment for bacteria and mold to thrive. Hoods can be mounted directly on top of pans for complete steam elimination, or suspended above a syrup pan. Leader hoods have a built-in channel drain for condensation, with outlets on both sides.

Leader hoods up to 6' feature full-access doors for complete access to interior of the flue pan or syrup pan. Hoods longer than 7 feet come standard with four doors to access the pan interior. All hoods are equipped with brackets for lifting hoods for pan changes.

PARALLEL FLOW PREHEATER

Our parallel flow preheaters are the standard in maximizing sap concentration output. Improve boiling rates by 20% if used in combination with a hood.



STACK AND ACCESSORIES



Stainless steel
smoke and steam stack



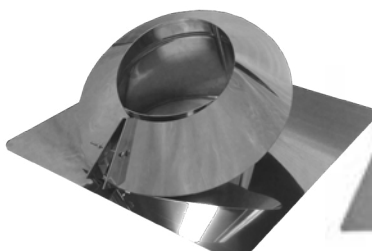
Base stack



Double layer stack
(air chamber, non-CSA)



Watertight
roof jack



Roof jack
with rain collar



Icebreaker (roof jack guard)



Smoke stack cover 22 ga.



Chinese stack cover 22 ga.



Stainless steel top hat



Stack cover



Finishing sheet for ceiling



Stack thermometer

NOTE: Please contact a local dealer for specific type and size.

TS-PRO AUTO DRAW-OFF

TS-PRO automatic draw-off / thermoregulator

Product No.	Description
ERATHEH20TS-1	Modulating auto draw-off, 1", threaded, pouring nozzle included
ERATHEH20TS-2	Modulating auto draw-off, 2", tri-clamp, pouring nozzle included
ERATHEH20TS-2D	Modulating auto draw-off, 2 readings with probe selector, 2", tri-clamp, pouring nozzle included



TS-PRO

In recent years, thermoregulators, commonly known as "automatic draw offs", have become a must, even for producers with fewer taps. A hold up on this trend, on the other hand, was the price. A few affordable models appeared on the market, but they had the disadvantage of being either completely open or completely closed.

The TS-Pro revolutionizes the world of "automatic draw offs" with its modulating action, and its affordable price. The multi-position valve will adjust to the slightest tenth of a degree, creating a constant flow adjusted with the temperature, and a more constant movement of the product in the pans. It is offered in 2022 with a 2-inch Tri-Clamp butterfly valve, or a 1-inch ball valve. The TS-PRO 2 is also available for evaporators equipped with a flow inverter, with 2 probes, 2 controls, and a selector button to change control of the valve to one or the other on the TS-PRO.




EVEN FLOW AUTO DRAW-OFF

Even Flow automatic draw-off / thermoregulator

Product No.	Description
ERATHEH20PB	EVEN-FLOW modulating and barometric automatic draw-off, 2" tri-clamp, pouring nozzle included
ERATHEH20PB-2D	EVEN-FLOW modulating and barometric automatic draw-off with double temperature reading, temperature probe selector, 2" tri-clamp, pouring nozzle included
ERATHEH20-12	Factory retrofit of EVEN-FLOW automatic draw-off to EVEN-FLOW II automatic draw-off
ERATHESONDE+CONTR	Controller and probe for automatic draw-off
ERAVALH20-VALR	Motorized valve for automatic draw-off
AUTRTD010006030H	Probe for automatic draw-off
AUTCD12L0B020C0	2m cable for automatic draw-off
TRCGST25U24-P1J	24V wall adapter
SPH-TRD0134A	Stainless steel 1/4" adapter for probe
SPH-153320	Pouring nozzle 2" tri-clamp
ERATHER23	Double pouring nozzle 2" tri-clamp

CHARACTERISTICS

In order to effectively control the temperature of your syrup pan. The automatic draw-off includes a barometer and a fast motor. This user-friendly interface and its quality connectors will facilitate your work. For every 1 / 10th of a Farenheit degree exceeding the value targeted, the valve will open 10%.

 The EVEN FLOW auto draw-off is now equipped with an extra security. If the syrup temperature exceeds of 5°F its set point, an audio signal will warn the operator.

Adapters

Product No.	Description
ERATHER1.5FX1.25NPTF	1-1/2" sanitary X 1-1/4" NPTF female pipe thread
ERATHER1.5FX1.25NPTM	1-1/2" sanitary X 1-1/4" NPTM nipple
ERATHER1.5FX1.5NPTF	1-1/2" sanitary X 1-1/2" NPTF female pipe thread
ERATHER1.5FX1.5NPTM	1-1/2" sanitary X 1-1/2" NPTM nipple
ERATHER1.5FX1NPTF	1-1/2" sanitary X 1" NPTF female pipe thread
ERATHER1.5FX1NPTM	1-1/2" sanitary X 1" NPTM nipple
ERATHER2.5FX2NPTM	2-1/2" sanitary X 2" NPTM nipple
ERATHER2FX1.25NPTF	2" sanitary X 2" NPTF female pipe thread
ERATHER2FX1.25NPTM	2" sanitary X 1-1/4" NPTM nipple
ERATHER2FX1.5F	2" sanitary X 1-1/2" sanitary
ERATHER2FX1.5NPTF	2" sanitary X 1-1/2" NPTF female pipe thread
ERATHER2FX1.5NPTM	2" sanitary X 1-1/2" NPTM nipple
ERATHER2FX2NPTF	2" sanitary X 2" NPTF female pipe thread
ERATHER3FX2.5NPTF	3" sanitary X 2-1/2" NPTF female pipe thread
SPH-TRD2012A	Compression probe fitting s/s
ERATHER2C8	Adapter extension for auto. draw-off 2" sanitary

Water detector

Product No.	Description
ERADETECTEAU	Water level detector (visual and sound)



ACCESSORIES AND OPTIONS

Flow inverter

Product No.	Description
PFH16011/2	Flow inverter 1 ½" stainless steel
PFH1602	Flow inverter 2" stainless steel
PFH16021/2	Flow inverter 2-1/2" stainless steel
PFH1603	Flow inverter 3" stainless steel



Catch pan

Product No.	Dimensions	Product No.	Dimensions
PFH138-3-LP	Catch pan 3' x 14", large	PFH138-7-LP	Catch pan 7' x 14", large
PFH138-4-LP	Catch pan 4' x 14", large	PFH138-8-LP	Catch pan 8' x 14", large
PFH138-5-LP	Catch pan 5' x 14", large	PFH138-9-LP	Catch pan 9' x 14", large
PFH138-6-LP	Catch pan 6' x 14", large	PFH138-10-LP	Catch pan 10' x 14", large

*Narrow models available on request



Float box

Product No.	Dimensions
SPH-153101	Input float box, Rookie series - 1 ½"
SPH-153103	Transfer float box, Rookie series - 1 ½"
SPH-153102	Input float box with drain - 2" (Evaporator 18" wide)
SPH-153104	Transfer float box with drain - 2" (Evaporator 18" wide)
SPH-153105E	Reversible input float box (Evaporator 24" wide and more)
SPH-153105T	Reversible transfer float box (Evaporator 24" wide and more)
ERABOUCHON	Conical cap arm float
SPH-153102-C	Cover for input float box
SPH-153104-C	Cover for transfer float box



SPH-153105T

Glass sight level

Product No.	Description
SPH-ERA-32-01A	Complete sight level 1 ½" for flat pan
SPH-ERA-32-02A	Complete glass sight level 1 ½" for flue pan (7")
SPH-ERA-32-03A	Complete glass sight level 1 ½" for flue pan (10")
SPH-ERA-32-05	Complete glass sight level ½"
ERAVERRE 5/8X12	Glass only 5/8" x 12"
ERAVERRE3/4X12	Glass only ¾" x 12"
ERAVERRE5/8X18	Glass only 5/8" x 18"
ERAVERRE11/2X8	Glass only 1 ½" x 8"
ERAVERRE11/2X12	Glass only 1 ½" x 12"
COLLANT-SCALE-PAN	Graduated scale sticker for sight level



SPH-ERA-32-01A



SPH-ERA-32-02A

Sanitary butterfly valve

Product No.	Description
BTFSS304015	Sanitary butterfly valve s/s tri-clamp 1-½"
BTFSS304020	Sanitary butterfly valve s/s tri-clamp 2"
BTFSS304025	Sanitary butterfly valve s/s tri-clamp 2-½"
BTFSS304030	Sanitary butterfly valve s/s tri-clamp 3"



BTFSS304020

Inlet and electric transfer valve

You can have the option with the transfer valves and/or electric inlet, you will need the following components: an automated valve, a water detector and a sight level for flue pan and/or a sight level for flat pan. You will also need to add an electrical outlet to connect your devices.

NOTE: Can be manually controlled in case of power outage.

Automated valves ON/OFF and modulating valves

Product No.	Description
ERAVALH20-VAL-020	Butterfly valve ON/OFF 2"
ERAVALH20-VAL-025	Butterfly valve ON/OFF 2-1/2"
ERAVALH20-VAL-030	Butterfly valve ON/OFF 3"

*Extra fee for threaded NPT or insertion connection.



Water detector

Product No.	Description
ERADETECTEAUUV	Water detector and electric valve controller



ERADETECTEAUUV

Complete inlet sight level

Product No.	Description
SPH-ERA-32-01A	Complete 1-1/2" sight level for flat pan
SPH-ERA-32-02A	Complete 1-1/2" sight level for flue pan



SPH-ERA-32-01A SPH-ERA-32-02A

Electrical outlet

Product No.	Description
PFH16010	Set of 3 electrical outlets installed on the side of the evaporator (sap inlet, transfer and flow)

- Mandatory options when the water detector is connected to the burner.



ACCESSORIES & MAINTENANCE

Skimmers and laddles

Product No.	Description
59004	Small skimmer 3-7/8" wide
59003	Large skimmer 5 1/2" wide
PFH425ECU6X8L	Flat skimmer (large) 6" x 8"
59002	Small scoop for evaporator 3-7/8" x 8-1/4"
59001	Large scoop for evaporator 5 1/2" x 8-1/4"
PFH425ECU6X8GR	Perforated skimmer 6" x 8"
PFH425LOU5	Round laddle 5"
PFH425LOU6C	Square laddle 6"
PFH425LOU7	Round laddle 7"
PFH425LOU8	Round laddle 8"
PFH425LOUPL8	Round laddle with flat side 8"



PFH425ECU6X8L



59004



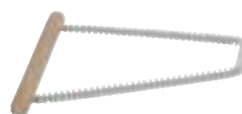
PFH425LOU5



59001

Brushes

Product No.	Description
ERABR003	Spout brush - nylon handle
ERABR004	Spout brush - white nylon 1/4" dia x 3" x 8" long
ERABR020	Inside flue brush, black nylon # 97, 2" x 7"
ERABR025	Inside flue brush, white nylon 1/2" x 7"
ERABR027	Inside flue brush, white nylon, 2" x 7"
ERABR030	Inside flue brush, black nylon 4" x 7"
60056	Outside flue brush Leader Max (11" flues)
60058	Outside flue brush standard



ERABR025



60056



ERABR030



60058

Bricking accessories

Product No.	Description
65003	3000 °F Full Brick
65006	3000 °F Half Brick
65001	Refractory cement 30 lbs (pail)
65000	Insulboard 1" x 12" x 36"
65190	Vermiculite, 16#

65003
65006

65001

Miscellaneous accessories

Product No.	Description
63123	Leader firing gloves
59005	Hardwood handle
5615	Stainless steel draw-off pail - 13 quart
5616	Stainless steel draw-off pail - 16 quart
PFH425SEAU12	12" dia. x 18" high, bucket with handle and spout
ERAPAL5X40	Wooden paddle for syrup tank



5615



63123

Clear Plastic Filter Presses

A filter press is a must-have piece of equipment for sugar makers who pack in glass. Other methods simply don't filter as clearly.

See the syrup going through your press and know when the frames are filling, needing to be changed!



550510A

7 1/2" Press available in three sizes

Our presses' unique stainless steel screens (instead of waffle plates) offer superior support to papers during filtering: it is very difficult to rupture papers if the press is correctly assembled.

The plastic does not absorb heat from your syrup, keeping the press hot even when filtering small batches. The press will remain warm to the touch, and can often be handled with bare hands (just don't touch the recessed stainless steel screens).

Built with 100% food grade materials.

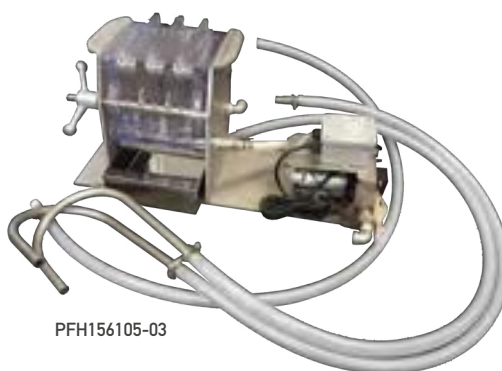


Air Diaphragm Pump

55118



550503H



PFH156105-03

Polycarbonate 7.5-inch presses (clear)

Product No.	Description
550503H	Clear plastic 7.5" syrup press, 3-frame, 8 to 15 gallons with hand pump
PFH156105-03	Clear plastic 7.5" syrup press, 3-frame, 8 to 15 gallons with electric pump and assembly
550505A	Clear plastic 7.5" syrup press, 5-frame, 25 to 40 gallons with air diaphragm pump
550510A	Clear plastic 7.5" syrup press, 10-frame, 60 to 80 gallons with air diaphragm pump
68744	7.5" Stop plate
55118	Air diaphragm pump complete

CHARACTERISTICS

- Filtering conditions vary throughout the season.
Ratings are based on proper filter aid usage with average filtering syrup.

10-INCH SYRUP FILTER PRESS

10-inch syrup filter press

Product No. Description

WITHOUT PUMP

PFH156107	Syrup filter press 3 plates 10" without pump
PFH156110	Syrup filter press 6 plates 10" without pump
PFH156113	Syrup filter press 9 plates 10" without pump

DIAPHRAGM PUMP

PFH156107-02	Syrup filter press 3 plates 10" with ass. 1/2" pneumatic diaphragm pump
PFH156110-02	Syrup filter press 6 plates 10" with ass. 1/2" pneumatic diaphragm pump
PFH156113-02	Syrup filter press 9 plates 10" with ass. 1/2" pneumatic diaphragm pump

ELECTRIC PUMP

PFH156107-03	Syrup filter press 3 plates 10" with electric pump
PFH156110-03	Syrup filter press 6 plates 10" with electric pump
PFH156113-03	Syrup filter press 9 plates 10" with electric pump

PISTON PUMP

PFH156110P	Syrup filter press 6 plates 10" assembled, hoses with s/s piston pump 275 gal/h
PFH156113-08	Syrup filter press 9 plates 10" with piston pump



PFH156110-02



PFH156107-03

Pumps for syrup filter press

Product No. Description

DYIDSABC02	Regulator 1/4" for diaphragm pump
ERAPOM90	Hand diaphragm pump
DYIDS04SAITSS02-1/2	Stainless steel diaphragm pump 1/2"
PRO-04-02	Pneumatic diaphragm pump assembly with base & valves
DYIDS04SAITSS01	Diaphragm pump 1"
SHU2088-594-154	Electric diaphragm pump 3 gal./min
PRO-04-04	Electrical syrup pump with starter
PRO-04-03	Electrical syrup pump assembly with base and valves
PRO-04-08	Assembly for 275 piston pump with base and valves
ERAPOMS-275	Piston pump, 275 gal./h, engine 1/2 c.v. s/s
ERAPOMS-600	Piston pump, 600 gal./h, engine 3/4 c.v. s/s

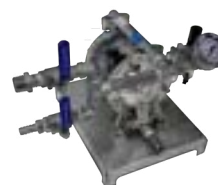


PRO-04-03

Accessories for syrup filter press

Product No. Description

SPH-PRE1210A	1/2" U-shaped tube for syrup filter press
SPH-PRE3410A	3/4" U-shaped tube for syrup filter press
SPH-PRE1010A	1" U-shaped tube for syrup filter press
SPH-156110	10" Syrup filter press support with wheels and pans (3 & 6 plates)
SPH-156113	10" Syrup filter press support with wheels and pans (9 plates)
ERABLFIL7	Filtration block 10", 3 plates
ERABLFIL10	Filtration block 10", 6 plates
ERABLFIL13	Filtration block 10", 9 plates
PR1512E-1	Waffle plate 10"
PR1512A-1	Hollow plate 10"
PR1512H	Spacing bar for 9 x 10" plates
SPH-156110-0003	10" Dividing plate for syrup filter press
WIK9200015	Pressure gauge 0 - 100 psi low socket 1/4 s/s



PRO-04-02



PRO-04-04



SPH-PRE3410A

20-INCH SYRUP FILTER PRESS



Overall dimensions
76" L x 30" W x 48" H

CHARACTERISTICS

- Integrated valve system with all the sanitary accessories
- Separation plate included - to use less plates
- Valve to drain the press before cleaning maintenance
- Pan that drains automatically
- Rotates 180° on wheels
- Offset handle for ease of maneuvering, cleaning and assembly
- Stainless steel diaphragm pump
- Pre-heating / desugaring function
- 100% pneumatic
- Sampling valve for test tubes

20-inch syrup filter press

Product No.	Description
PFH156120-7	Syrup filter press 7 plates 20" with 1" pneumatic diaphragm pump
PFH156120-9	Syrup filter press 9 plates 20" with 1" pneumatic diaphragm pump
PFH156120-11	Syrup filter press 11 plates 20" with 1" pneumatic diaphragm pump
SPH-156-02	Hollow plate
SPH-156-03	Thin waffle plate
SPH-156120-0005	Division plate for 20" syrup filter press

DRAW-OFF TANKS



PFH155220DBL

CHARACTERISTICS

- Thermal insulation to maintain heat
- Valve set
- Stainless steel plumbing
- Cover with handles

Insulated double draw-off syrup tank (cover and valves included)

Product No.	Description
PFH155220DBL	Double draw-off tank stainless steel 18" x 44" x 31"H (2 x 20 gal.)
PFH155440DBL	Double draw-off tank 22" x 60" x 31"H (2 x 40 gal.)
PFH155260DBL	Double draw-off tank 25" x 82" x 31"H (2 x 60 gal.)
ERA412718067633	PRUNO syrup paddle 18" x 48"
ERA412718067634	PRUNO syrup paddle 18" x 60"



ERA412718067633

Filter press tanks for Maple Syrup

Product No.	Description
55172A	Filter press tank - 13 gallons
55171A	Filter press tank - 19 gallons
55170A	Filter press tank - 39 gallons

Round bottom draw-off tank with open top and outlet on bottom. Mix in your filter aid and run directly to the filter press. Sloped to the outlet for easy draining. All stainless steel construction. Legs have leveling bolts in place.



ROUND DRAW-OFF TANKS & CONE FILTER TANKS

Round draw-off tank

Product No.	Description
PFH155105R	Round draw-off tank s/s 9" x 20" 5 gal. US
PFH155112R	Round draw-off tank s/s 15" x 20" 12 gal. US
PFH155125R	Round draw-off tank s/s 21" x 26" 25 gal. US
PFH155135R	Round draw-off tank s/s 21" x 30" 35 gal. US
PFH155140R	Round draw-off tank s/s 23" x 31" 40 gal. US
PFH148005	Pouring nozzle 1/2 NPT
PFH148007	Pouring nozzle 3/4 NPT
PFH1551636	Syrup mixer 36" long



PFH155112R avec valve,
bec verseur et support sur roulettes



PFH1551636

Wheel support for draw-off syrup tank

Product No.	Description
PFH155112SR	Wheel support for draw-off syrup tank 15" (12 gal.)
PFH155125SR	Wheel support for draw-off syrup tank 21" (25/35 gal.)
PFH155140SR	Wheel support for draw-off syrup tank 23" (40 gal.)



PFH155112SR

Syrup filter support

Product No.	Description
PFH155105F	Syrup filter holder s/s 9" (1 hole - 5 gal.)
PFH155112F	Syrup filter holder s/s 15" (1 hole - 12 gal.)
PFH155112F2	Syrup filter holder s/s 15" (2 holes - 12 gal.)
PFH155125F	Syrup filter holder s/s 21" (2 holes - 25/35 gal.)
PFH155140F	Syrup filter holder s/s 23" (3 holes - 40 gal.)



PFH155112F2

Cone filter tank (1/2" faucet not included)

Product No.	Description
55068A	Filter tank for 1 cone filter (approx. 9" sq.)
55069A	Filter tank for 2 cone filter



55068



55069

FILTRATION ACCESSORIES

Filtration accessories

Product No.	Description
ERA17024PFILRD	Prefilter round press 24" (12/pkg)
ERA17024PRRD	Round filters 24" (1/pkg)
ERA170POLY10	Polyester filters 10" (18/pkg)
ERA170POL7	Polyester filters 7" (18/pkg)
64040	7" Filter press paper (400 per case)
64048	7.5" Filter press paper (400 per case)
64043	10" Filter press paper (400 per case)
64044	15" Filter press paper (sold individually)
64041	20" Filter Press Paper Leader (sold individually)
ERA170PR10BL	Paper filter - white 10" (400 filters)
ERA170PR10GBL	Paper filter with loop 10"
ERA170PR7BL	Paper filter - white 7" (400 filters)
ERA1701080	Orlon filter # 8 (yellow hat) 
ERA170108P	Polyester filter # 8 (white hat) 
ERA170108PFE	Paper filter # 8 (12 pre-filters/pkg)
ERA17036X360	Orlon filter 36" x 36"
ERA170POU	Filter aid Celite 545, 50 lbs bag
ERA170POUHY	Filter aid Celite Hyflo, 50 lbs bag
64046	Filter aid Dicalite, 50 lbs bag, food grade
ERAGRAI140Z	Food grade grease 14 oz.
ERA170PR20BLH	Paper filter 20" H ₂ O (250 filters)
ERA170PR18BL	Paper filter 18" LS (400 filters)
ERA170PR7BL-T	Paper filter 7" Teknik (400 filters - case)
ERA1701224PFILRD	Prefilter for 12" round press (12/pkg)
AQUF-BPGS02P	Sap filter bag



64040



ERA170PR10BL



ERA170POU



64046



ERA1701080



64019

Sap filter

Product No.	Description
ERA170105	7" support for 1-1/2" sap filter
ERA170116A	7" x 16" 50 microns loop sap filter
ERA170116L	7" x 16" 50 microns eyelet sap filter
ERA170120	7" support for 2" sap filter
ERA170130A	7" x 30" 50 microns loop sap filter
ERA170130L	7" x 30" 50 microns eyelet sap filter
64052	Pop-on filter head
64055	17" pop-on bag
64058	33" pop-on bag

Syrup filters

Product No.	Description
64019	36" x 36" Syrup synthetic filter
64016	24" x 30" Synthetic filter (sold individually)
64022	5 Quart Synthetic filter (sold individually)
64025	8 Quart Synthetic filter (sold individually)
64004	36" x 36" Rayon prefilters (12 pack)
64001	24" x 30" Rayon prefilters (12 pack)
64007	36" x 60" Rayon prefilters (12 pack)
64013	Cone type prefilters (12 pack)

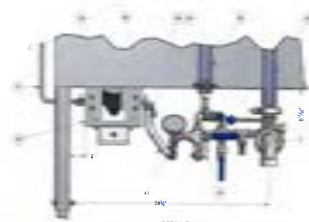
SYRUP MIXERS



PFH157350



VUE ISO.



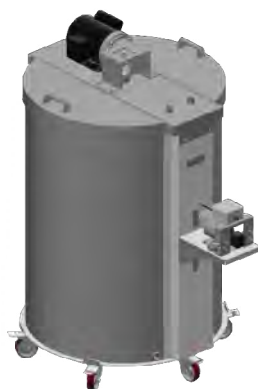
DETAIL E

Syrup mixers

Product No.	Description
PFH157125	Syrup mixer including round insulated tank of 125 gal. US (wheels)
SPH-157125-3000	Wheeled support for 125 gal. US syrup mixer
SPH-157125-3100	48" legged support for 125 gal. US syrup mixer
PFH157350	Syrup mixer including square insulated tank of 350 gal. US (adjust. legs)
SPH157250	Syrup mixer including support and motor, without tank, designed for 4' feet high tank

CHARACTERISTICS

- Insulated tank for batching
- Integrated pump to add permeate
- Sight level with densimeter cup
- 1/3 HP Mixer
- Adjustable legs for barrels (only for square tank mixer)
- Insulated cover
- Can also be used as a remixer to work the buddy syrup
- Also available in option: digital continuous ° Brix reader
- 125 Gal. : 38" x 60", on wheels
- 350 Gal. : 60" x 60", with adjustable legs from 79" to 126"



PFH157125



SPH-157125-3000



SPH-157125-3100

Syrup grader

Product No.	Description
PFH103200	Automatic brix calibration device with Calibrix controller

CHARACTERISTICS

- Includes Atago continuous ° Brix reader
- Automated permeate injection
- Intuitive backlit interface



CANNING UNITS

LEADER

Water jacket canning tank, stainless steel

Product No.	Description
55100A	18 gal. capacity tank, 1/2" syrup outlet (heating element, faucet and stand not included)
55105A	Stainless steel stand for 18 gal. water jacket tank w/ shelf
55075A	40 gal. capacity tank with two heating elements and two 1/2" syrup outlets (faucet and stand not included)
55058A	Stainless steel stand for 40 gal. water jacket tank w/ shelf
55102	3,000 watt heat element with thermostat - (18 gal. only)
55103	5,000 watt heat element with thermostat - (18 gal. only)



55100 - 18 gal.
55105 - Stand

55075 - 40 gal.
55058 - Stand

CHARACTERISTICS

- These tig welded units have a double tank. The outside tank is a water jacket with 220 volt heating elements to keep the syrup at 180°F for canning.

Gas-fired filter & canning units

Product No.	Description
55041A	Pan, filter rack, cover & arch - 16" x 16"
55042A	Pan, filter rack & cover - 16" x 16"
55044	Cover - 16" x 16"
55045	Rack - 16" x 16"
55048A	Arch - 16" x 16"
55021A	Pan, filter rack, cover & arch - 16" x 24"
55022A	Pan with rack & cover - 16" x 24"
55024A	Cover - 16" x 16"
55025A	Rack - 16" x 16"
55026A	Arch - 16" x 16"
61019	Dial thermometer 3 x 6 (0-250°)



55041

55021

CHARACTERISTICS

- 16" x 16": Perfect for filtering and canning syrup for the small operator. Capacity: 8 gals. to bottom of rack. (Dial Thermometer and 1/2" faucet not included)
- 16" x 24": Ideal for filtering and canning syrup. Pan capacity below filter approx. 15 gallons. Comes complete with stainless steel pan, filter rack cover, stand with adjustable legs and container tray, 40,000 B.T.U. L.P. burner, hose, regulator, and thermometer fitting.

Ball valve for canning units



61139

Product No.	Description
60100	1/2" Stainless steel ball valve
61139	1/2" Stainless steel ball valve with nozzle
61137	1/2" Stainless steel nozzle, tip only, male thread

Draw-off elbows



Product No.	Description
3500	Draw-off elbow 1/2"
3500EXT	Draw-off elbow extension 1/2"
3503	Draw-off elbow 3/4"
3504	Draw-off elbow 1"
3505	Draw-off elbow 1 1/2"
3506	Draw-off elbow 2"

WATER-JACKETED BOTTLER, FINISHING EVAPORATORS & TAFFY PANS

Water-jacketed bottler

Product No.	Description
PFH158112R	12 gal. water-jacketed bottler 15" D x 20" H, 1 element
PFH158135R	35 gal. water-jacketed bottler 23" D x 35" H, 1 element
PFH158135R-2	35 gal. water-jacketed bottler 23" D x 35" H, 2 elements
PFH158145R-2	45 gal. water-jacketed bottler 23" D x 43" H, 2 elements
WATBCN16N10SE	3000W heating element
PFH158208	Replacement power cord, 10 feet
PFH15824X24	Stainless steel table 24" x 24" with adjustable tray



PFH158112R



PFH15824X24

INCLUDED

- 10' electrical cord per element.

Ex: 2 elements =
2 electrical cords

Finishing Evaporators — Gas Fired

Perfect little finishing rig for the small volume producer who wants to sell quality syrup. Sturdy iron, two-burner gas stand with valves and regulator, S/S tig-welded pan, and 1" threaded fitting in bottom. Capacity: 28 gallons

Because it's gas fired, this finishing rig gives sugar makers the greatest possible control over their final product. Gas heat is easily adjusted and can be completely shut off when syrup reaches the correct density. Operates on bottled gas. Comes complete with stainless steel pan.

Product No.	Description
481632A	16" x 34" Gas finisher (complete with 2-burner stand)
481632PA	16" x 34" Pan only - Capacity 28 gallons
481632C	16" x 34" Pan cover
55032A	Dual burner for 16x34. BTU max.: 120,000



Finishing Evaporators - Gas fired

Product No.	Description
482404	2' x 4' finishing evaporator comp 160,00 BTU
482404C	2' x 4' pan cover
482405	2' x 5' finishing evaporator comp 200,00 BTU
482405C	2' x 5' pan cover
482406	2' x 6' finishing evaporator comp 250,00 BTU
482406C	2' x 6' pan cover



Taffy pan (s/s 20 ga.)

Product No.	Dimensions	Product No.	Dimensions
PFH14812X12	12" x 12" without drain	PFH14812X12DR	12" X 12" with drain
PFH14814X14	14" x 14" without drain	PFH14814X14DR	14" X 14" with drain
PFH14816X16	16" x 16" without drain	PFH14816X16DR	16" x 16" with drain
PFH14824X24	24" x 24" without drain	PFH14824X24DR	24" x 24" with drain
PFH14824X36	24" x 36" without drain	PFH14824X36DR	24" x 36" with drain
PFH148COU16X16	Pan cover 16" x 16"		
PFH425PLA12X16	Flared dish 12" x 16" x 6"		



PFH14812X12DR



PFH425PLA12X16

BOTTLING MACHINE 2.0

High volume syrup bottling simplified

Maximize your bottle efficiency with the H2O bottling system. The new 2.0 is easy to use, fast cleaning, and fully adjustable. Designed with quality materials for reliable filling.

H2O Innovation bottling system

Product No.	Description
ERAEMB360	Bottling system with many adjustments



CHARACTERISTICS

- 425 bottles/hour (250 ml bottles)
- Consistent syrup level
- Adjustable plug clamping force
- Work table with adjustable height
- Adjustable cap holder up to 1"
- Easy to clean
- Bottles various formats
- Miniature filling nozzle available for 50 ml bottle (optional)

INSTRUMENTATION

- Adjustable liquid level
- Simple and fast programming
- Liquid pump included
- Recirculation of surplus flow
- Requires 120V power supply
- Requires connection to an air compressor
- Maximum of 200 °F



BARRELS & ACCESSORIES

Stainless steel barrels – BARINOX

Product No.	Description
ERABARILINOX25-304	Barrel 25 gal. (30 gal. US)
ERABARILINOX34-304	Barrel 34 gal. (40 gal. US)
ERABARILINOX34-3042T	Barrel 34 gal. (40 gal. US) 2 bungs
ERABARILINOX34-3042TDC	Barrel 34 gal. (40 gal. US) 2 bungs (1 on the side)
ERABARILINOX40-304	Barrel 40 gal. (48 gal. US)
Add -L at the end of your BARINOX barrel code for the lettering option (Applicable on all models above)	
(CODE) -L	Lettering on barrel / per line, 14 characters per line and 2 lines max.



Barils en acier inoxydable – INOVADRUM

Product No.	Description
ERABARINOV34-301	Barrel 301 34 gal. (40 gal. US)
ERABARINOV34-3012T	Barrel 34 gal. (40 gal. US) 2 bungs
ERABARINOV45-301	Barrel 301 45 gal. (54 gal. US)
Add -L at the end of your INOVADRUM barrel code for the lettering option (Applicable on all models above)	
(CODE) -L	Lettering on barrel / per line, 14 characters per line and 2 lines max.



CHARACTERISTICS

NOTE: Additional fees to increase the number of plugs or change their location.

Barrel accessories

Product No.	Description
ERA412CLEFON	Cast iron drum key
ERABARBOU3/4INOX	Cap for stainless steel barrel 3/4"
ERABARBOU2INOX	Cap for stainless steel barrel 2"
ERABARBOU2PL	Cap for plastic barrel 2"
ERABARBOU2Z	Cap for zinc barrel 2"
PFH-ERALEVBAR	Barrel lever
PFH425ENTON	Barrel funnel
PFH15740	Pneumatic barrel vacuum
67073	Drum pump air dispenser
PFH157410	Stainless steel barrel transfer 1"
PFH157410-A	Additional adapter
CH-BARIL3000W	Barrel heater / 3,000W - 240V
63074	Air pressure regulator



ERA412CLEFON



PFH-ERALEVBAR



ERABARBOU2INOX



CH-BARIL3000W



ERABARBOU2PL



PFH157410



ERABARBOU2Z



PFH157410-A



PFH15740



PFH425ENTON

GLASS BOTTLES

LEADER

MARASCA Bottles

The Marasca Bottle has tons of possibilities. It is well suited for maple syrup sales in retail outlets because of its compact footprint and clean, straight sides for label application. It is also suited for many other liquid products, from oils to liqueurs. Caps included.

Marasca bottles

Product No.	Description
07106	Marasca plain glass bottle 8.45oz / 250ml (24 per case)
03612	Marasca plain glass bottle 16.9oz / 500ml (12 per case)
ETCHED	
67550	Marasca etched glass bottle 8.45oz / 250ml (24 per case)
67465	Marasca etched glass bottle 16.9oz / 500ml (12 per case)

**GALLONE Bottles**

The Gallone bottle has a classic old fashioned jug shape that appeals to a wide variety of customers. It has a round base and wide mouth, making it easier to fill than some other options. Caps included.

Gallone bottles

Product No.	Description
04204	Gallone glass bottle 1.3oz / 50ml (100 per case)
00584	Gallone glass bottle 8.45oz / 250ml (12 per case)
00587	Gallone glass bottle 16.9oz / 500ml (12 per case)
67555	Gallone glass bottle Half Gallon (6 per case)
67556	Gallone glass bottle Gallon (4 per case)

Shrink & foil tops for glass bottles

Product No.	Description
67470A	Gold foil large
67473	Silver foil large
67474	Gold shrink large
67471	Gold shrink medium (24ml)
67477	Gold shrink small (18ml)
67478	Silver shrink w/ Maple Leaf (50ml)

**HANDLE Bottles**

The Handle Bottle is one of our most popular bottles. It is also an economical choice without sacrificing looks or quality. These bottles come with a special printed red metal cap. The cap is printed with a maple leaf and "Maple Syrup." Caps included.

Handle bottles

Product No.	Description
67485	Handle glass bottle 8.45oz / 250ml (12 per case)
67487	Handle glass bottle 12oz (12 per case)



MAPLE Glass Bottles

It's no wonder these bottles are a popular choice for packaging and selling maple syrup. The beautiful design is evocative of the forest and trees from which the syrup arises. Clear bottles show off the delicious color of the syrup. And they make amazing gift items. We have these bottles in several different sizes, available in odd quantities or case lots.

Available with gold or white caps (except 50ml, only gold).

Maple Glass bottles

Product No.	Description
67475	Maple glass bottle 1.7oz / 50ml (48 per case)
67445	Maple glass bottle 3.4oz / 100ml (12 per case)
67476	Maple glass bottle 8.45oz / 250ml (12 per case)
67441	Maple glass bottle 16.9oz / 500ml (12 per case)
67464	Maple glass bottle 25.3oz / 750ml (6 per case)

**Decanter bottles**

Product No.	Description
67499	Decanter bottle 16oz (12 per case)
67498	Decanter bottle 32oz (12 per case)

**DECANTER Bottles**

The Decanter glass bottle is a hardy standby that is also one of our most popular bottles. It offers an economical choice in glass that requires no sacrifice in appearance or quality. Includes a black plastic flip top cap.

Snowflake bottles

Product No.	Description
67600	Snowflake bottle 8.45oz (12 per case)

**SNOWFLAKE Bottles**

This snowflake bottle makes an attractive gift item when filled with syrup, and is a popular seller, particularly for wintertime sales. Caps included.

Chalet bottles

Product No.	Description
07323	Chalet bottle 8.45oz / 250ml (12 per case)

**CHALET Bottles**

The Chalet glass bottle actually looks like a cabin! Filled with syrup, this bottle is perfect and will really shine on your shelves. What better way to represent your syrup from the sugarhouse than in a glass "sugarhouse" cabin. Caps included.

Jug bottles (nips)

Product No.	Description
67442	Jug bottle 1.7oz (48 per case)

**JUG Bottles (NIPS)**

Perfect sampler sized bottle for inclusion in gift boxes, to offer as corporate gifts, or as impulse buys on the counter of your store, this bottle has an old time feel with the pleasing see-through-ability of glass.

Vacuum Filler for Glass Bottles

Product No.	Description
61150	Vacuum filler 110V

**CHARACTERISTICS**

Great for high volume small nip (40/50ml) filling. Eliminate messy spills from overfilling and reduce clean up. Not recommended for plastic jugs.

JUGS

H2O Innovation offers you the possibility to personalize your jugs with your own business logo and/or add your customized corporate image.



Maple syrup jugs

H2O No.	Leader No.	Description
-	-	Plain jug / no logo. Ex: AMP100ML-P or with custom logo Ex: AMP100ML-NS
AMP3.4OZ	-	Jug 3/4 oz - cap included case of 100
AMP1/2PINT	67419AS	Jug 1/2 pint - cap included case of 100
AMPINT	67418AS	Jug pint - cap included case of 100
AMPQUART	67417AS	Jug quart - cap included case of 100
AMP1/2GAL	67416AS	Jug 1/2 gallon - cap included case of 50
AMPGAL	67415AS	Jug gallon - cap included case of 24

FOR CUSTOM JUGS

* Available with a maximum of 3 colors, minimum quantity of 2000 units per model, \$200 fee if min. amount isn't reached. Logo creation fee of a \$100 per color and per model size, each time.

3-Color Sugar Hill Style – plastic jugs

Vermont	New-York	All States	Description
67183	67219	67201	Gallon (24 per case)
67186	67222	67204	Half Gallon (32 per case)
67189	67225	67207	Quart (90 per case)
67192	67228	67210	Pint (100 per case)
67195	67231	67213	Half Pint (100 per case)
67198	67234	67216	100ml jug (100 per case)



All of our cans and jugs are correctly-sized for hot pack maple syrup.

Shipping cartons for jugs

Product No.	Description
66072	1-Pint
66075	1-Quart
66078	1-Half Gallon
66081	1-Gallon
66087	24-Half Pint
66090	12-Pint
66093	12-Quart
66096	6-Half Gallon
66099	4-Gallon



Caps for jugs

Product No.	Description
67406	Large plastic caps
67409	Small plastic caps
67495	Cap for glass bottles

H2O Innovation Maple Cream Mixer with 1HP pump

The H2O maple cream machine allows you to transform your maple syrup into maple cream easily. With its 3-gallon capacity, the production process takes about 5 minutes to produce the unit capacity. The design of this equipment makes it easy to disassemble and clean. Making maple cream has never been easier.

Maple cream mixer with 1HP pump

Product No.	Description	Capacity
PFH15710	1 HP	3 gallons

CHARACTERISTICS

- Removable and graduated funnel, facilitating cleaning
- 1HP pump



Leader Maple Cream Machine

This sturdy, reliable unit makes creaming simple and very profitable for any sugar maker. Large 16" dia. pan and fully adjustable paddles are formed from top quality stainless steel. The turntable revolves on a gear reduction motor and is driven by a 1/4 hp motor.

Maple cream and maple sugar machine

Product No.	Dimensions
582001A	Maple cream machine

CHARACTERISTICS

- Robust equipment and easy to use
- Large 16 inch of diameter pan
- Adjustable stainless steel paddles
- 1/4 HP motor
- Specifically designed for big batches of maple cream or maple sugar



**GREAT
FOR
MAPLE
NUTS!**

Leader Sipple Sugar Maker Machine

Triple your profit on each gallon of syrup by converting it to maple candy. The efficient Sipple Sugar Maker Machine, powered by a gear reduction motor, greatly reduces the labor-intensive job of maple candy making. The stainless steel worm efficiently reduces grain to bring out the finest quality maple texture. The stainless steel pan, sometimes called a pig, is double seamed throughout for longer life. The pig's snout is a built in funnel and is designed for a non-clog positive flow and is equipped with a spout and shut-off control. Makes 15 pounds per batch. All fabricated from the highest quality food grade stainless steel.

Maple candy making machine

Product No.	Dimensions
5801	Maple candy making machine

CHARACTERISTICS

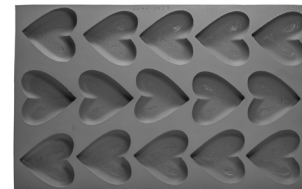
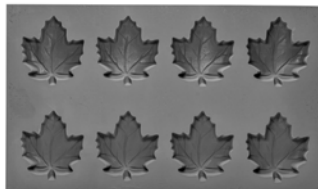
- Stainless steel auger reduces grain and produces a very fine sugar
- Produces 15 lbs per production lot
- Designed for candies but can also make a small quantity of maple cream



MOLDS & ACCESSORIES

Rubber Candy Molds

These are the modern, economical and sanitary method of making a large variety of uniform, eye-appealing, delicious candy, as well as cake decorations and novelties. We have dozens of shapes and sizes, from maple leaves to turkeys, from Santa to pumpkins. Check our website for the full selection. We also offer plastic molds.



Our Top 10 Candy Molds

Product No. Description

Maple Leaf

581137	8 cavity / 2 oz.
581138	12 cavity / 1 oz.
581204	72 cavity / 1 oz.
581243	20 cavity / ¹ / ₃ oz.
581301	160 cavity / ¹ / ₃ oz.

Other models

58DEMO	Demo
581056	Hearts - 15 cavity
581477	Snow Flake
581465	Flowers and Leaves
501144	Christmas Tree



Maple Cream Plastic Jars

Product No. Description

582101	1/2 lb jar (150 per case)
582102	1 lb jar (135 per case)

CHARACTERISTICS

* Hot pack container with pressure-sensitive sealing cap.



Digital candy thermometer,
tilting readout unit & flip open cover
61005



Maple cream glass jars,
tight-fitting metal lids & straight sides

582103	1/2 lb
582104	1 lb



Maple Cream Tubs

Product No. Description

582106	1/2 lb tub
582108	1 lb tub
582109	Lid only

CHARACTERISTICS

* Snug fitting lids with room to fit your label. Tubs include lids.

Densimeters & hydrotherms



Densimeter 0° to 10° Brix

ERA412DEN0/10



Densimeter 0° to 15° Brix

ERA412DEN0/15



Sap hydrometer - calibrated to 38°

61042 7" - 0 to 8° Brix

61041* 12" - 0 to 10° Brix



Syrup densimeter 45° to 75° Brix

ERA412DEN45/75



Syrup hydrotherm - no numbers

ERA412HYD



Maple syrup hydrometer - 51° to 71° Brix

61040* 9 3/8", 25° to 40° baume - short test cup

61043* 12" - tall test cup

Refractometers



Refractometer 0°- 30° Brix
| Maple sap

ERAH20101



Refractometer 0°- 30° Brix
| Concentrate

ERAH20103



Refractometer 0°- 80° Brix
| Syrup

ERAH20108

*VT State inspected instrument

Syrup thermometers & densimeter cups

Syrup thermometer

ERA412THESIR

Numeric thermometer
with alarm

ERA412THENUM



Densimeter testing cups

PFH425GOBDEN9 9"

PFH425GOBDEN912 12"

59000 1"

59007 2" short

59006 2" long

Thermometers

Product No.	Description
BAS3A02B-02	Thermometer 3" OD x 2 1/2", stem 1/2" MPT, 25-125 °F
BAS3A02B-08	Thermometer 3" OD x 2 1/2", stem 1/2" MPT, 25-300 °F
BAS3A12BV-50	Syrup thermometer 3" OD x 12" stem 1/4" MPT, 0-50 °F
BAS3A09BV-50	Syrup thermometer 3" OD x 9" stem 1/4" MPT, 0-50 °F
BAS5A09BV-50	Syrup thermometer 5" OD x 9" stem 1/4" MPT, 0-50 °F
BAS3A12B-12	Thermometer 3" OD x 12" stem 1/4" MPT, 1000 °F
61022	Thermometer 3" dial x 6" stem 1/4" NPT, 0-50 °F
61019	Thermometer 3" dial x 6" stem 1/4" NPT, 0-250 °F
61025	Thermometer 3" dial x 9" stem 1/4" NPT, 0-50 °F
61028	Thermometer 5" dial x 6" stem 1/4" NPT, 0-50 °F
61031	Thermometer 5" dial x 9" stem 1/4" NPT, 0-50 °F



Calibration

Product No.	Description
ACERDEF	Off-flavor set
ACERCAL66	Acer calibration solution 66 - + .1 to 20 C
ACERCOL05NCL	Acer color syrup classification IISE/IMSI
ERAHI7033	Calibration solution for refractometer 500ml



ACERCAL66

Sampling

Product No.	Description
SAM-1ozP	Sampling bottle 1oz (30ml) - includes white lid
ERA67.743	Test tube for sampling (by unit)
ERA65.803	Test tube caps (by unit)



SAM-1ozP



ERA67.743

PACKING SUPPLIES

Metal signs 18" x 24"
(can't be shipped via UPS)

Product No.	Description	Product No.	Description
62025	All States	66053	West Virginia
62028	Vermont	62043	Ohio
62031	New York	62046	Pennsylvania
62034	Connecticut	62049	Massachusetts
62037	New Hampshire	62052	Michigan
62040	Maine	62055	Wisconsin
62033	Rhode Island	62030	Indiana
66054	Virginia	62027	Ontario (Canada)
		62026	Pure Organic



Lovibond Grading Comparator

Product No.	Description
62091	Maple syrup grading comparator

Folded Hang Cards

Product No.	Description
67015	1-1/2" x 2-1/2" card



Gold cord (for hang cards)

Product No.	Description
67033	Gold cord (pkg. of 50)



Neck Label

Product No.	Description
67013	Work on nip bottles only



4 Color Pressure Sensitive Label

Product No.	Description
67007	8 oz.
67010	12 oz.



Maple Syrup Grading Kit

Product No.	Description
62081	Glycerin maple syrup grading kit



3"x 4"



3"x 6"

Labels for Decanter Bottles (16 oz. & 32 oz.)

Product No.	Description
67012	Front label for 16 oz. bottle - 3" x 4"
67014	Back label for 16 oz. bottle - 3" x 4"
67018	Front label for 32 oz. bottle - 3" x 6"
67019	Back label for 32 oz. bottle - 3" x 6"

*FRONT LABEL available for: VT, NY, WI, MN, NH, MA, OH, All States
BACK LABEL featured nutritional labels and sugar replacement chart.



Grading Stickers (maple leaf shaped)

*Available for: US, VT, NY., and grades Golden, Amber, Dark, Very Dark

PVC SCH40

Piping

PVC piping SCH40 (white)



SPE400-012

SPE400-010	1"
SPE400-012	1-1/4"
SPE400-015	1-1/2"
SPE400-020	2"
SPE400-025	2-1/2"
SPE400-030	3"



SPE400-010L

PVC piping SCH40 (clear)

SPE400-005L	1/2"
SPE400-010L	1"
SPE400-012L	1-1/4"
SPE400-015L	1-1/2"
SPE400-020L	2"

Flexible tubing

Product No.	Description
TUYCL010ID	Polyethylene clear hose 1" ID x 1" 1/2 OD - 100'
TUYCL012ID	Polyethylene clear hose 1" 1/4 ID x 1" 3/4 OD - 50'
TUYCL015ID	Polyethylene clear hose 1" 1/2 ID x 2" OD - 50'
TUYCL020ID	Polyethylene clear hose 2" ID x 2" 1/2 OD - 50'
TUYCL9/16ID	Polyethylene clear hose 9/16" ID x 15/16" OD - 100' (blue line)
TUYPR1/2	Polyethylene grey hose for syrup filter press 1/2" - 400'
TUYTR005ID	Clear reinforced hose 1/2" x 3/4" OD - 500'
TUYTR007ID	Clear reinforced hose 3/4" x 1" OD - 200'
TUYTR010ID	Clear reinforced hose 1" x 1" 1/2 OD - 200'
TUYTR012ID	Clear reinforced hose 1" 1/4 x 1" 3/4 OD - 100'
TUYTR015ID	Clear reinforced hose 1" 1/2 x 2" OD - 100'
TUYTR020ID	Clear reinforced hose 2" x 2" 1/2 OD - 50'
TUYSUC010ID	Suction hose 1"
TUYSUC012ID	Suction hose 1 1/4"
TUYSUC015ID	Suction hose 1 1/2"
TUYSUC020ID	Suction hose 2"



TUYTR005ID



TUYCL9/16ID

Teflon

Product No.	Description
W-RUBTEFVERT	Green heavy duty teflon



Glue and primer

Product No.	Description
W-OAT31526	Clear primer 237ml
W-OAT31511	Grey glue for PVC 237ml
W-OAT31513	Grey glue for PVC 946ml
W-OAT31536	Clear glue for PVC 237ml



QUICK ADAPTERS (CAMLOCKS)



(1) PA005P

FPT x male coupling (part A)

PA005P	1/2"
PA007P	3/4"
PA010P	1"
PA012P015	1-1/4" x 1-1/2"
PA015P	1-1/2"
PA020P	2"

(2) PB005P

MPT x female coupling (part B)

PB005P	1/2"
PB007P	3/4"
PB010P	1"
PB012P015	1-1/4" x 1-1/2"
PB015P	1-1/2"
PB020P	2"

(3) PC005P

Male insertion x female coupling (part C)

PC005P	1/2"
PC007P	3/4"
PC010P	1"
PC012P015	1-1/4" x 1-1/2"
PC015P	1-1/2"
PC020P	2"

(4) PD005P

FPT x female coupling (part D)

PD005P	1/2"
PD007P	3/4"
PD010P	1"
PD012P015	1-1/4" x 1-1/2"
PD015P	1-1/2"
PD020P	2"

(5) PE010P

Male insertion x male coupling (part E)

PE005P	1/2"
PE007P	3/4"
PE010P	1"
PE012P015	1-1/4" x 1-1/2"
PE015P	1-1/2"
PE020P	2"

(6) PF012P

MPT x male coupling (part F)

PF005P	1/2"
PF007P	3/4"
PF010P	1"
PF012P015	1-1/4" x 1-1/2"
PF015P	1-1/2"
PF020P	2"

(7) PDC015P

Female cap (part DC)

PDC005P	1/2"
PDC007P	3/4"
PDC010P	1"
PDC012P	1-1/4"
PDC015P	1-1/2"
PDC020P	2"

(8) PDP015P

Male plug (part DP)

PDP005P	1/2"
PDP007P	3/4"
PDP010P	1"
PDP015P	1-1/2"
PDP020P	2"

(9) PG010

Gasket

PG007	3/4"
PG010	1"
PG015	1-1/2"
PG020	2"

*Some adapters also available in stainless steel, ask your distributor (replace P by SS at the end of the product code)

PVC SCH40 FITTINGS



Tee (ins. x ins. x ins.)



Tee (ins. x ins. x FPT)



Reducing tee (ins. x ins. x FPT)



Reducing tee (ins. x ins. x ins.)



90° Elbow (ins. x MPT)



Female adapter
(ins. x FPT)



Male adapter
(MPT x ins.)



90° reducing elbow
(ins. x MPT)



90° Elbow (ins. x ins.)



90° Elbow (ins. x FPT)



Nipple



Sleeve (ins. x ins.)



Male plug insert



Reducing coupling (ins. x ins.)



Reducing male adapter (MPT x ins.)

PVC SCH40 FITTINGS



Tee (glued x female)



Reducing tee (glued x female)



90° elbow (glued female)



90° elbow (glued x FPT)



90° elbow (FPT x FPT)



90° elbow (glued male x female)



90° elbow (MPT x FPT)



90° elbow (MPT x glued female)



90° elbow (FPT x glued male)



45° elbow (glued female)



Cross (glued female)



Union
(FPT x glued female)



Adapter (MPT x glued female)



Reducing adapter
(MPT x glued female)



Clamp (glued female)

NOTE: Please contact a local dealer for specific type and size.

PVC FITTINGS AND STAINLESS STEEL FITTINGS



Reducer bushing
(glued male x glued female)



Reducer bushing (MPT x FPT)



Reducer bushing
(glued male x FPT)



Cap (glued female)



Polypropylene tank adapter



Threaded cap (glued female)



Plug spig (glued male)



Plug (MPT)



PVC coupling
(glued female x glued female)



Female adapter
(ins. x glued female)



Female adapter
(glued male x FPT)



Coupling (FPT x FPT)

STAINLESS STEEL ADAPTERS



Cross (FPT)



Tee (FPT)



Reducing clamp (FPT)



90° Elbow (FPT)



45° Elbow (FPT)



90° Elbow (MPT x FPT)



Half clamp (FPT)



Reducer (MPT x FPT)



Sleeve

NOTE: Please contact a local dealer for specific type and size.

3-way NY-Glass ball valve

Product No.	Dimensions
BV3W1FNPT	3-way valve poly-p 1"
BV3W1-1/4FNPT	3-way valve poly-p 1" 1/4
BV3W1-1/2FNPT	3-way valve poly-p 1" 1/2



BV3W1FNPT

PVC guillotine valve (white)

Product No.	Dimensions
ERA4084415V	PVC guillotine valve 1" 1/2 VALTERA
ERA4084420V	PVC guillotine valve 2" VALTERA
ERA4084425V	PVC guillotine valve 2" 1/2 VALTERA
ERA4084430V	PVC guillotine valve 3" VALTERA



ERA4084415V

Rubber mechanical gaskets

Product No.	Dimensions
ERA650930	1" 1/4
ERA650931	1" 1/2
ERA650933	1" 1/2 x 1" 1/4
ERA650934	1" 1/2 x 1" 1/2
ERA650935	3"
ERA650939	2" x 1" 1/2



ERA650934

O'Ring guillotine valve gaskets

Product No.	Dimensions
ERA477715	Buna guillotine valve o'ring 1" 1/2
ERA477720	Buna guillotine valve o'ring 2"
ERA477730	Buna guillotine valve o'ring 3"
ERA477740	Buna guillotine valve o'ring 4"



ERA477720

Clear check valves

Product No.	Dimensions
SPES1520C10F	Clear check valve 1"
SPES1520C12F	Clear check valve 1" 1/4
SPES1520C15F	Clear check valve 1" 1/2
SPES1520C20F	Clear check valve 2"
SPES1520C30F	Clear check valve 3"



SPES1520C10F

VALVES | STAINLESS STEEL & PVC

VALVES

Stainless steel valves



Product No.	Dimensions
BTFSS304015	Sanitary butterfly valve 1" 1/2 s/s
BTFSS304020	Sanitary butterfly valve 2" s/s
BVSS3043W05FNPT	3-way valve 1/2" s/s
BVSS3043W07FNPT	3-way valve 3/4" s/s
BVSS3043WL1FNPT	3-way valve 1" s/s
BVSS3043W1-1/2FNPT	3-way valve 1" 1/2 s/s
BVSS316002	Ball valve 1/4" s/s
BVSS316005C	Ball valve 1/2" s/s
BVSS316007C	Ball valve 3/4" s/s
BVSS316010C	Ball valve 1" s/s
BVSS316012C	Ball valve 1" 1/4 s/s
ERA40711SS	Mini faucet s/s 304 F x M 1/4"
SWCVSS3041/2FNPT	Check valve with rocker 1/2"
SWCVSS3041-1/4FNPT	Check valve with rocker 1" 1/4
SWCVSS3041-1/2FNPT	Check valve with rocker 1" 1/2
SWCVSS3041FNPT	Check valve 1"
ERA409210SS	Check valve spring 1" s/s



BVSS3043W1-1/2FNPT



BVSS316010C



SWCVSS3041/2FNPT

Threaded & glued BMI ball valves SCH40

Product No.	Dimensions
BVPVC40010CSH	Glued BMI ball valve SCH40 1"
BVPVC40015CSH	Glued BMI ball valve SCH40 1 1/2"
BVPVC40020CSH	Glued BMI ball valve SCH40 2"
BVPVC40005FSH	Threaded BMI ball valve SCH40 1/2"
BVPVC40007FSH	Threaded BMI ball valve SCH40 3/4"
BVPVC40010FSH	Threaded BMI ball valve SCH40 1"
BVPVC40012FSH	Threaded BMI ball valve SCH40 1 1/4"
BVPVC40015FSH	Threaded BMI ball valve SCH40 1 1/2"
BVPVC40020FSH	Threaded BMI ball valve SCH40 2"



Threaded & glued PVC union ball valves SCH40

Product No.	Dimensions
BVPV100CSH	Glued PVC union ball valve SCH40 1"
BVPV150CSH	Glued BMI ball valve SCH40 1 1/2"
BVPV200CSH	Glued BMI ball valve SCH40 2"
BVPV100FSH	Threaded BMI ball valve SCH40 1"
BVPV150FSH	Threaded BMI ball valve SCH40 1 1/2"
BVPV200FSH	Threaded BMI ball valve SCH40 2"



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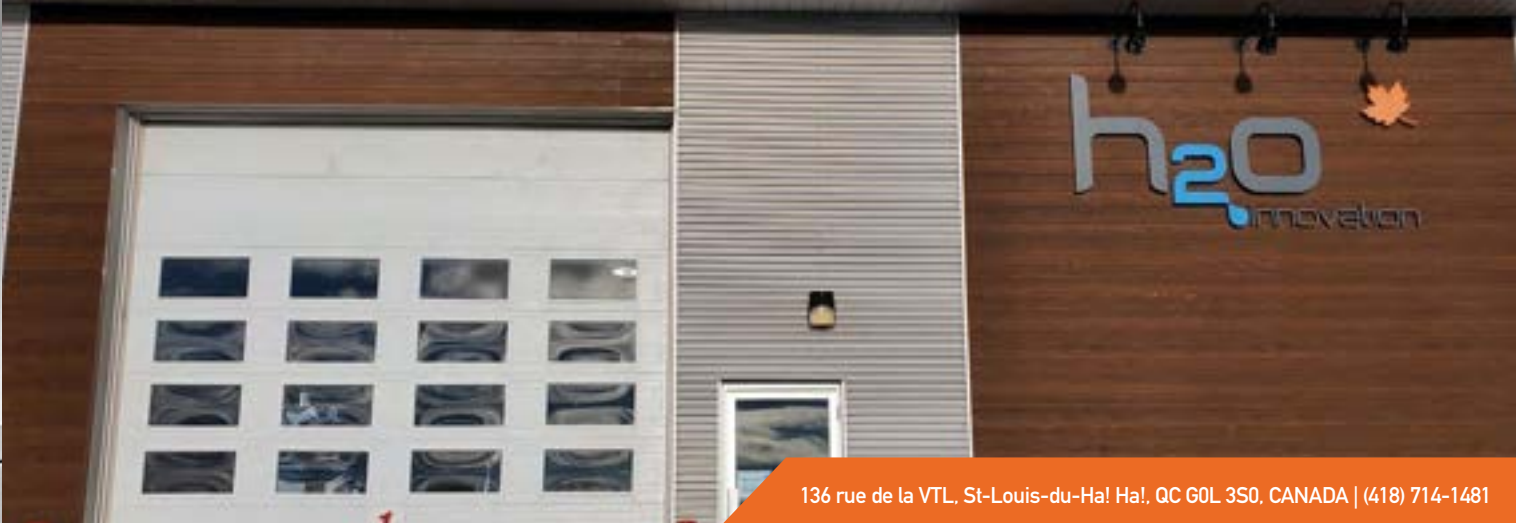
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