

CATALOG











A Commitment

The seasons follow one another but are not the same. Indeed, 2019 was a year, all in all, impossible to predict and fortunately very generous. In this particular context, it was a pleasure to have worked with you, to have put our shoulders to the wheel and above all to have respected our commitments.

Developing innovation and providing product quality assurance is, more often than not, a matter of boldness, astuteness and a good dose of passion. Above all, it is a commitment to deliver high-performance, high-quality maple syrup equipment. A pledge to offer you the pleasure and satisfaction of producing, on the local and international scenes, a truly fine syrup and its derivatives, which is a source of pride for all of us.

Your success, which is not without hard work and sacrifice, nevertheless requires meticulous preparation of your sugar bush, your equipment as well as a high level of compliance with production standards. To help you achieve this, we are applying all of our expertise and resources to make this demanding time a memorable and profitable event for all.

No matter how ambitious your maple syrup expectations are, we want to offer you a unique opportunity that will make your experience a very positive one. In this way, we would like to highlight our commitment to all master maple syrup producers and those who are about to become masters, with a new logo. Soon a new corporate image will cover the maple syrup landscape. A sleeker and more fluid logo to express our desire to share expertise and make the mastery of know-how a reality.

Over the next year, we invite you to explore our new universe, consult our various communication platforms, exchange through the various available means as well as through our network of experts, in order to profit from the best advice and to be well served by professional equipment adapted to your reality. We wish you an equally remarkable season ahead, enriched by a shared passion and unconditional commitment.

Anick, Chantal, Carl & Donald Lapierre

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WELL THOUGHT-OUT SOLUTIONS FOR YOUR COLLECTION SYSTEM!

MAPLEFLEX is a flexible solution inspired by a selection of products designed to optimize the management of your sap gathering system and facilitate installation, tapping and maintenance operations.

INSPIRED NEW PRODUCTS!





OPTIMAL VACUUM, QUICK & EASY INSTALLATION

With utmost efficiency and exemplary design, the FLEXClip self adjusts and perfectly matches the main-line for optimal grip and vacuum.

The gasket, made of self-adhering food grade material, ensures an impeccable maintenance of the assembly. The inner surface of the FLEXClip has molded-in diamond-tipped anchors. These retaining points penetrate the surface of the pipe, consolidating the whole assembly to the main-line.









TUBING WITH EXCEPTIONAL PROPERTIES

The brand new 5/16 semi-rigid is made from the best food grade resins to ensure excellent waterproofing, mnemonic elasticity (shape memory) and maximum transparency. The MAX15 is the result of proven expertise as a user and extruder of maple syrup tubing.

The orientation, altitude and topography of your maple sugar bush will certainly have an influence on the performance of your collection system. The choice of a specific colour will also affect freezing and thawing cycles. Whether for a new installation, a new area or tubing replacement, the MAX15 is the choice of maple syrup producers.

HYBRID SPOUTFLEXIBLE NYLON, MEDIUM GREY

EXCELLENT BEHAVIOR IN FREEZE-THAW CYCLES

MAPLEFLEX offers a new hybrid sap spout, the best combination. Rethought and redesigned, it is the result of a successful collaboration between Lapierre and maple syrup experts. Made of flexible resin, the hybrid spout retains its original shape memory, which ensures optimal seal. The ideal compromise between thawing and freshness!







Your gathering system is the backbone of your sugaring operation's profitability. We offer several categories of 5/16" and 3/16" tubing. Ask your representative today.

GET THE BEST GATHERING SYSTEM AVAILABLE TODAY

Lapierre Equipment is more than just a distributor. We manufacture our MapleFlex® 5/16" tubing and mainlines in our proprietary extrusion plant, **using only the best raw materials and the best U.V. protection** available. We produce and deliver with the highest quality standards in the business.

NEW

MAPLEFLEX® HIGH DENSITY MAINLINE

MapleFlex introduces you to a brand new high density (HD) maineline produced with the same features and production standards. Lighter and more affordable, the MapleFlex HD mainline provides the same vacuum resistance for the same diameter while being thinner.

HDPE food grade, more affordable, UV protection, aerial and underground installation, 10 year warranty.

MAPLEFLEX® HD MAINLINE (125 PSI)

MapleFlex HD 3/4", black, 500 feets

TU007-120500H1

MapleFlex HD 3/4", black, 1000 feets

TU007-121000H1

MapleFlex HD 3/4", black, 2500 feets

TU007-122500H1

MapleFlex HD 1", noir, 500 feets

TU007-160500H1

MapleFlex HD 1", black, 1500 feets

TU007-161500H1

MapleFlex HD 11/4", black, 500 feets

TU007-200500H1

MapleFlex HD 1 1/4", black, 1000 feets

TU007-201000H1

MapleFlex HD 1 1/2", black, 500 feets

TU007-240500H1

SEMI-RIGID 3/16" MAPLEFLEX® TUBING (500')

MapleFlex® ULTRA15, 15 years warranty, light blue

TU386-00000XX (500')

TU386-000800XX (800')

MapleFlex® ULTRA15, 15 years warranty, vision green

TU386-010000XX (500')

TU386-010800XX (800')

MapleFlex® SUPER10, 10 years warranty, light blue

TU389-00000XX (500')

TU389-000800XX (800')

MapleFlex® SUPER10, 10 years warranty, vision green

TU389-010000XX (500')

TU389-010800XX (800')

Tools and accessories for 3/16" tubing are also available.

Recommendation:

ULTRA15 is more rubbery, flexible and recommended for drop lines. MAX10 is more semi-rigid and recommended for lateral lines.



SEMI-RIGID 5/16" MAPLEFLEX® TUBING (500')

MapleFlex® ULTRA15, 15 years warranty, light blue **TU086-00000XX**

MapleFlex® ULTRA15, 15 years warranty, vision green **TU086-010000XX**

MapleFlex® ULTRA15, 15 years warranty, smoked

TU086-040000XX

MapleFlex® MAX15, 15 years warranty, vision green

TU084-000000XX

MapleFlex® MAX15, 15 years warranty, smoked

TU084-010000XX

MapleFlex® MAX15, 15 years warranty, smoked

TU084-040000XX

MapleFlex® MAX10, 10 years warranty, light blue

TU085-000000XX

MapleFlex® MAX10, 10 years warranty, vision green

TU085-010000XX

MapleFlex® MAX10, 10 years warranty, smoked,

TU085-040000XX

MapleFlex® SUPER10, 10 years warranty, light blue

TU089-000000XX

MapleFlex® SUPER10, 10 years warranty, vision green

TU089-010000XX

MapleFlex® SUPER10, 10 years warranty, smoked

TU089-040000XX

RIGID 5/16" MAPLEFLEX® TUBING (500')

MapleFlex® RIGID10, 10 years warranty, light blue

TU092-000000XX

MapleFlex® RIGID10, 10 years warranty, vision green

TU092-010000XX

Our MAPLEFLEX® mainlines are made to work at the highest vacuum levels. Above 28 in/Hg. high vacuum allows for higher sap yields.

Pre-cut or assembled drop lines

Standard lenghts of 30", 36" and 40" with tubing, spout and tee of your choice.

For any other lengths, a minimum quantity will be required.



BLUE, GREEN OR SMOKED MAPLEFLEX® MAINLINE (100 PSI)

3/4" 300', 500', 2500'

TU002-12****H1 (BLUE)

TU014-12****H1 (GREEN)

1" 500', 1000', 2000'

TU002-16****H1 (BLUE)

TU014-16****H1 (GREEN)

TU013-16****H1 (SMOKED)

1-1/4" 500', 1200'

TU002-20****H1 (BLUE)

TU014-20****H1 (GREEN)

TU013-20****H1 (SMOKED)

1-1/2" 500', 1200'

TU002-24****H1 (BLUE)

TU014-24****H1 (GREEN)

TU013-24****H1 (SMOKED)

2" 200', 500'

TU002-32****H1 (BLUE)

TU014-32****H1 (GREEN)

BLACK MAPLEFLEX® MAINLINE (100 PSI)

1/2" 100', 400'

TU001-08****H1

3/4" 300', 500', 2500'

TU001-12****H1

1" 500', 1000', 2000'

TU001-16****H1

1-1/4" 500', 1200'

TU001-20****H1

1-1/2" 500', 1200'

TU001-24****H1

2" 200', 500'

TU001-32****H1

To order mainline by specific length, replace **** by feet number.

For 200', 300' and 500', add a 0 before the length

ex: TU007-12****H1 = TU007-120500H1

For 1000', 1200', 2000' and 2500' just replace the $\ensuremath{^*}$

ex: TU007-12****H1 = TU007-122500H1

Spout











NEW DESIGN ENLARGED HEAD DESIGN MAKES TAPPING EASIER

ELBOW STYLE SPOUT (2 BARBS)

Tap diameter	Tubing diameter	Material	Color	Wall	ZML	Code	Box 1000
1/4"	5/16"	Nylon	Black	Std	$\sqrt{}$	TU272-105504N4B	
1/4"	5/16"	Nylon	Dark blue	Std	$\sqrt{}$	TU272-105504N5B	
1/4"	5/16"	Soft nylon	Black	Std	$\sqrt{}$	TU272-105504Y4B	
5/16"	5/16"	Nylon	Black	Std	$\sqrt{}$	TU272-106005N4B	
5/16"	5/16"	Nylon	Dark blue	Std	$\sqrt{}$	TU272-106005N5B	
5/16"	5/16"	Nylon	White	Std	$\sqrt{}$	TU272-106005N1B	
5/16"	5/16"	Soft nylon	White	Std	$\sqrt{}$	TU262-106505Y1B	
5/16"	5/16"	Soft nylon	Black	Std	$\sqrt{}$	TU262-106505Y4B	





Tap diameter	Tubing diameter	Material	Color	Wall	ZML	Code	Box 1000
1/4"	5/16"	Soft nylon	Grey	Std	$\sqrt{}$	TU272-105504Y8B	
5/16"	5/16"	Soft nylon	Grey	Std	$\sqrt{}$	TU262-106505Y8B	

Elbow style spout (1 barb)	Tap diameter	Tubing diameter	Material	Color	Wall	ZML	Code	Box 1000
Seasonal	1/4"	3/16"	Poly.	Clear	Std	$\sqrt{}$	TU269-105604J9B	
	1/4"	3/16"	Nylon	Black	Std	$\sqrt{}$	TU269-105604N4B	
	5/16"	3/16"	Nylon	Black	Thin	$\sqrt{}$	TU269-106105N4B	
Seasonal	5/16"	3/16"	Poly.	Clear	Thin	$\sqrt{}$	TU269-106105J9B	
Seasonal	5/16"	5/16"	Poly.	Clear	Thin	$\sqrt{}$	TU259-106505J9B	



SEASONAL SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE	BOX 1000
For stubby spout holder	1/4"	5/16"	Poly.	Clear	Std	$\sqrt{}$	TU250-208004J9B	
For stubby spout holder	5/16"	5/16"	Poly.	Clear	Std	$\sqrt{}$	TU250-209005J9B	







STRAIGHT SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE	BOX 1000
Standard seasonal spout with retaining ring	1/4"	5/16"	Poly.	Clear	Std	$\sqrt{}$	TU047-108034J9B	
Long seasonal spout with retaining ring	1/4"	5/16"	Poly.	Clear	Std	$\sqrt{}$	TU047-108044J9B	
Standard seasonal spout with retaining ring	5/16"	5/16"	Poly.	Clear	Std	$\sqrt{}$	TU047-109035J9B	
Long seasonal spout with retaining ring	5/16"	5/16"	Poly.	Clear	Std	√	TU047-109045J9B	







Designed by sugarmakers.
A minimal angle to strongly seal the tap hole.

ELBOW SPOUT SHORT JOINT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE	BOX 1000
Elbow, short joint	5/16"	5/16"	Polycarbonate	Clear	Thin	$\sqrt{}$	TU261-106505J9B	
1,1570 LTS-USAº	5/16"	5/16"	Polycarbonate	Clear	Std	$\sqrt{}$	TU290-106805J9B	
1,1570 LTS-USAº	5/16"	3/16"	Polycarbonate	Clear	Std	$\sqrt{}$	TU290-106905J9B	
LTS-USA 1,1570°	5/16"	5/16"	Polycarbonate	Clear	Std	$\sqrt{}$	TU300-106705J9B	
LTS-USA 1,1570º	5/16"	5/16"	Polycarbonate	Clear	Thin	$\sqrt{}$	TU301-106705J9B	





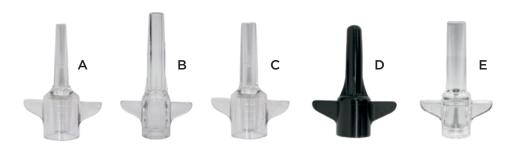
DESCRIPTION	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE	BOX 1000
Y spout 130°	1/4"	5/16"	Polycarbonate	Clear	Std	$\sqrt{}$	TU285-103004J9B	
Y spout 130°	1/4"	5/16"	Nylon	Light blue	Std	$\sqrt{}$	TU285-103004N7B	
Y spout 130°	5/16"	5/16"	Polycarbonate	Clear	Std	$\sqrt{}$	TU285-104005J9B	
Y spout 130º	5/16"	5/16"	Nylon	Light blue	Std	\checkmark	TU285-104005N7B	



1ST GENERATION SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COL- OR	WALL	CODE	BOX 1000
Seasonal elbow style spout	1/4"	5/16"	Polycarbonate	Clear	Std	TU048-000004J9B	
Seasonal elbow style spout	5/16"	5/16"	Polycarbonate	Clear	Std	TU048-000005J9B	



ORIGINAL SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	CODE	BOX 1000
A - Elbow style spout	5/16"	5/16"	Nylon	Black	Std	TU051-000005J4B	
B - Elbow style spout with rib	5/16"	5/16"	Nylon	Black	Std	TU050-000005J4B	
C - Short spout	7/16"	5/16"	Nylon	Black	Std	TU055-000007J4B	



DESCRIPTION	TAP DIAMETER	ADAPTOR DIAMETER	MATERIAL	COLOR	WALL	CODE	BOX 1000
A - Spout adaptor	1/4"	7/16"	Polycarbonate	Clear	Std	TU054-000416J9B	
B - Spout adaptor	1/4"	5/16" and 19/64"	Polycarbonate	Clear	Std	TU056-000416J9B	
C - Spout adaptor	5/16"	7/16"	Polycarbonate	Clear	Std	TU054-000516J9B	
C - Spout adaptor	5/16"	7/16"	Polycarbonate	Clear	Thin	TU254-000516J9B	
D - Spout adaptor	5/16"	7/16"	Nylon	Black	Std	TU054-000516J4B	
E - Spout adaptor	5/16"	5/16" and 19/64"	Polycarbonate	Clear	Thin	TU256-000516J9B	



STER	RICAP AND HOOK	
TU298-146005L7B	Blue	1000/BOX

Stericap, is a reusable 5 ml. isopropyl alcohol tight sealed container. No mould parting line at the spout tip or tubing connection to completely eleminate micro-leaks, will help reaching maximum vacuum levels and higher yields.



STARS

Star 3 way **TU020-00003J4**

Star 4 way

TU020-000004J4

Star 6 way

TU020-000006J4



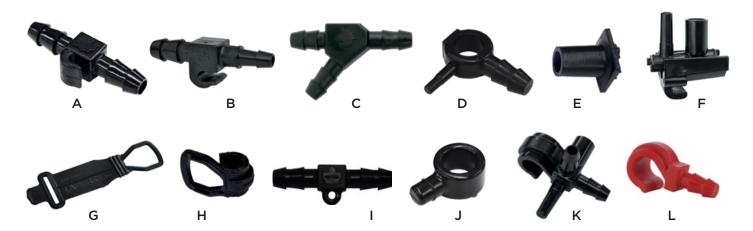


TAXI FITTING (1 BARB)	TUBING DIAMETER	MATERIAL	COLOR	ZML	CODE	BAG 100
T-TAXI	3/16"	Nylon	Black	$\sqrt{}$	TU900-126503N4	
T-TAXI for 3/16" drop line	5/16"	Nylon	Black	$\sqrt{}$	TU902-126305N4	
End of line hook TAXI	3/16"	Nylon	Black	$\sqrt{}$	TU930-176503N4	

TAXI FITTING (2 BARBS)	TUBING DIAMETER	MATERIAL	COLOR	CODE	BAG 100
End of line hook TAXI	5/16"	Nylon	Black	TU732-176005N4	

TAXI FITTING (ACCESSORIES)	MATERIAL	COLOR	CODE	BAG 100
TAXI stericap holder	Nylon	Black	TU690-046000N4	
Stericap for TAXI fitting	Soft	Green	TU698-146005L6	
Stericap for TAXI fitting	Soft	Light blue	TU698-146005L7	
Long cap TAXI	Nylon	Black	TU715-045000N4	
Universal pin TAXI, 4 st.	Nylon	Black	TU720-047004N4	

Fitting and adaptor



ORIGINAL FITTING (2 BARBS)	TUBING DIAMETER	MATERIAL	COLOR	ZML	CODE	BAG 100
A - Connector with hook	3/16"	Nylon	Black	-	TU034-000003J4	
A - Connector with hook	3/16"	Nylon	Black	$\sqrt{}$	TU134-020003J4	
A - Connector with hook	5/16"	Nylon	Black	-	TU034-000000J4	
A - Connector with hook	5/16"	Nylon	Black	$\sqrt{}$	TU134-000002J4	
B - Reducer hook connector	3/16" and 5/16"	Nylon	Black	-	TU234-000305N4	
B - Reducer hook connector	3/16" and 5/16"	Nylon	Black	$\sqrt{}$	TU334-020305N4	
C - Y	5/16"	Nylon	Black	-	TU026-000000J4	
D - End of line eyelet	5/16"	Nylon	Black	-	TU027-000000J4	
E - Rubber plug	5/16"	Nylon	Blue	-	TU028-000000XX	
F - Slide fitting	5/16"	Nylon	Black	-	TU030-000000J4	
F - Slide fitting	3/16"	Nylon	Black		TU067-150103N4	
G - End of line tie for slide fitting	5/16"	Nylon	Black	-	TU031-000000J4	
H - End of line hook for slide fitting	5/16"	Nylon	Black	-	TU032-000000J4	
I - Connector	5/16"	Nylon	Black	-	TU033-000000J4	
I - Connector	5/16"	Nylon	Black	$\sqrt{}$	TU133-000002N4	
J - Eyelet drop-line plug (seasonal spout)	5/16"	Nylon	Black	-	TU114-000000J4	
K - End of line drop-line hook	3/16"	Nylon	Black	-	TU131-317002N4	
K - End of line drop-line hook	5/16"	Nylon	Black	$\sqrt{}$	TU330-000002N4	
K - End of line drop-line hook (1 st.)	5/16"	Nylon	Black	$\sqrt{}$	TU331-010205N4	
L - End of line drop-line hook	5/16"	Nylon	Red	$\sqrt{}$	TU132-142500J03	

Tee-plug



ORIGINAL TEE-PLUG (2 BARBS)	TUBING DIAMETER	MATERIAL	COLOR	ZML	CODE	BAG 100
A - Universal tee-plug 2 stages	5/16"	Nylon	Black	-	TU040-000002J4	
B - Universal tee-plug 3 stages	5/16"	Nylon	Black	-	TU040-000003J4	
Universal tee-plug 3 stages	5/16"	Nylon	Black	\checkmark	TU240-020003J4	
B - Universal tee-plug 3 stages	3/16"	Nylon	Black	-	TU040-030200N4	
C - Red tee-plug, 3 stages (left side plug)	5/16"	Nylon	Red	-	TU042-000003J3	
D - Tee-plug with cap-plug and drop-line plug	5/16"	Nylon	Black	-	TU045-000504J4	
E - Tee-plug with elongated cap	3/16"	Nylon	Black	\checkmark	TU341-326002N4	
E - Tee-plug with elongated cap	5/16"	Nylon	Black	$\sqrt{}$	TU241-927002J4	
E - Tee-plug with elongated cap	5/16"	Nylon	Black	-	TU341-940002J4	
Tee-plug with elongated cap and hook	3/16"	Nylon	Black	$\sqrt{}$	TU342-327002N4	
F - Tee-plug with cap-plug	5/16"	Nylon	Black	$\sqrt{}$	TU241-000002J4	

Fixed head and swivel head fittings black nylon



DESCRIPTION	DIAMETER	DRILL BIT SIZE	ZML	CODE	BAG 25
A - Saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	3/16"	3/8"	-	TU122-060301J4	
A - Saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	3/16"	31/64"	-	TU122-310301J4	
A - Saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	5/16"	3/8"	$\sqrt{}$	TU322-060201J4	
A - Saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	5/16"	31/64"	\checkmark	TU322-310201J4	
B - Saddle manifold with swivel head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	5/16"	31/64" w/o clips	-	TU021-000001J4	
C - Super saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4")	5/16"	3/8" with clips	-	TU119-000001J4	
C - Super saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4")	5/16"	31/64" with clips	-	TU119-310001J4	
D - Saddle manifold with tie-wrap (fits on: 3/4", 1", 1-1/4")	5/16"	31/64"	$\sqrt{}$	TU323-310201J4	
Adjustable clips (50 bag)				TU037- 000000J4	
Tie-wrap (50 bag)				TU036- 000000J4	



FLEXClip[™]

PATENT PENDING

With utmost efficiency and exemplary design, the **FLEXClip** self adjusts and perfectly matches the main-line for optimal grip and vacuum.

The gasket, made of self-adhering food grade material, ensures an impeccable maintenance of the assembly. The inner surface of the **FLEXClip** has molded-in diamond-tipped anchors. These retaining points penetrate the surface of the pipe, consolidating the whole assembly to the main-line.

An innovative product, with unique design and features, making it the easiest and quickest fitting to install.

Developed in conjunction with ZML technology (ZERO MICRO LEAK)



NEW

QUICK AND EASYINSTALLATION PROCEDURE

Equipped with a wire hook, the FlexClip is guided by the support wire to perfectly position itself on the main-line.

- Insert the anchor on the wire, then move sideways by 1/4 of a turn, the FLEXClip aligns perfectly to position itself on the main-line and place the inlet of the fitting at an ideal angle.
- The pre-installed gasket sits and self-aligns on the pipe.
- A pre-molded seat allows the insertion of a stainless steel screw (hexagonal head 1/4").
- A built-in receptacle acts as a nut but also as a depth guide and screw tip protector.
- With a 7/32 drill bit," drill the main-line through the inlet of the FLEXClip.
- Slide the lateral line (5/16) on the inlet of the FLEXClip.
- After a few seconds, you are done, continue with the next one!







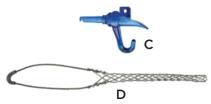


FLEXClip 3/4", 11/4" et 11/2" AVAILABLE IN SPRING 2020

FLEXCLIP MANIFOLD - NYLON BLACK ZML 5/16"	CODE	BAG 25
Flexclip 3/4"	TU326-073212N4	
Flexclip 1"	TU326-073216N4	
Flexclip 1-1/4"	TU326-073220N4	
Flexclip 1-1/2"	TU326-073224N4	

DRILL BIT FOR FLEXCLIP	CODE
Drill bit 7/32"	TU437-000732XX



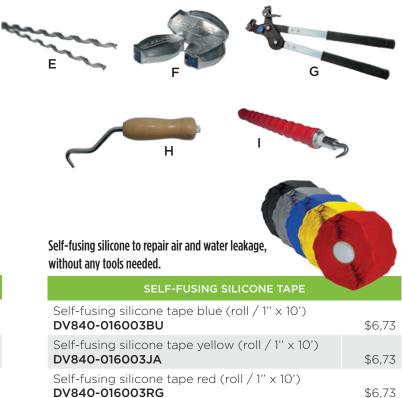


TRADITIONAL SAP GATHERIN	G
A - 2 gallons green bucket DV091-000002VE	\$3,04
B - 3 gallons green bucket DV091-00003VE	\$4,58
Lid for 2 gallons green bucket DV091-010002VE	\$2,15
Lid for 3 gallons green bucket DV091-010003VE	\$2,38
C - 5/16" clear blue plastic bucket spout TU059-000005J7	\$0,57
D - 7/16" SS spout with hook TU059-000007S2	\$2,85

D - MAINLINE TENSION GRIPS	
1/2"	
TU490-00008XX	\$10,58
3/4"	
TU490-000012XX	\$14,23
1"	
TU490-000016XX	\$15,38
1-1/4"	
TU490-000020XX	\$26,92
1-1/2"	
TU490-000024XX	\$30,73
2" TU490-000032XX	\$49,96



PLASTIC PROTECTOR WOODEN POST	
TU600-002000N4	\$0,68



Self-fusing silicone tape blue (roll / 1,5" x 32')

Self-fusing silicone tape yellow (roll / 1,5" x 32")

Self-fusing silicone tape red (roll / 1,5" x 32')

DV840-024010BU

DV840-024010JA

DV840-024010RG

ACCESSORIES	
E - Splices (2) TU061-00000XX	\$2,72
F - Gripple TU060-00000XX	\$3,04
F - Gripple (medium) TU060-00002XX	\$2,27
G - Gripple tension tool TU433-00000XX	\$133,23
H - Manual twister TU450-00000XX	\$8,38
I - Automatic twister TU435-000000XX	\$20,50

\$6,73

\$30,27

\$30,27

\$30,27



5" (3/4" tubing) TU073-100005G1 \$12,54 6" (1" tubing) TU073-100006G1 \$14,31 7" (1-1/4" tubing) TU073-100007G1 \$16,54 8" (1-1/2" tubing) TU073-100008G1 \$17,61 10" (2" tubing) TU073-100010G1 \$22,19 12" TU073-100012G1 \$24,92 14" (3" tubing)

\$27,65

TU073-100014G1

WIRE TIES 2500/BU	NDLE
(18 GA) AWT	
5" (3/4" tubing)	
TU074-250005G1	\$20,19
6" (1" tubing)	
TU074-250006G1	\$22,27
7" (1-1/4" tubing)	
TU074-250007G1	\$24,77
8" (1-1/2" tubing)	
TU074-250008G1	\$27,31
10" (2" tubing)	
TU074-250010G1	\$32,38
12"	
TU074-250012G1	\$38,61
14" (3" tubing)	
TU074-250014G1	\$42,96
15"	
TU074-250015G1	\$52,00
16"	
TU074-250016G1	\$54,92

WIRE TIES 2500/BUNDLE (18 GA)		
5" (3/4" tubing) TU070-00005G1	\$22,46	
6" (1" tubing") TU070-00006G1	\$23,73	
7" (1-1/4" tubing) TU070-000007G1	\$25,35	
8" (1-1/2" tubing) TU070-00008G1	\$27,58	
10" (2" tubing) TU070-000010G1	\$32,69	
12" TU070-000012G1	\$35,27	
14" (3" tubing) TU070-000014G1	\$38,15	
15" TU070-000015G1	\$40,73	
16" TU070-000016G1	\$41,69	

WIRE TIES 1000/BUNDLE (18 GA)	
5" (3/4" tubing) TU074-100005G1	\$8,08
6" (1" tubing) TU074-100006G1	\$8,92
7" (1-1/4" tubing) TU074-100007G1	\$10,15
8" (1-1/2" tubing) TU074-100008G1	\$10,92
10" (2" tubing) TU074-100010G1	\$13,35
12" TU074-100012G1	\$15,46
14" (3" tubing) TU074-100014G1	\$17,19



GALVANIZED WIRE (50 LB)	
#9 high carbon (50 lb) TU075-000009G2	\$64,00
#9 high carbon (100 lb) TU075-010009G2	\$126,92
#9 (50 lb) TU075-00009G1	\$58,77
#12 (50 lb) TU075-000012G1	\$62,27
#14 (50 lb) TU075-000014G1	\$62,27
Galvanized wire 50 lb: #9 high carbon and #9 = between 950 and 1000 feets.	

GALVANIZED WIRE (100 LB	
#9 high carbon	
TU075-010009G2	\$126,92

HIGH TENSILE WIRE 12,5 GA		
210 PSI (coil/2000')		
ETBRO012HD	\$94,46	
210 PSI (coil/4000')		
ETBRO012H	\$177,38	



WIRE TIGHTNER RATCHET	
SS ratchet ETMRAT01	\$4,46
Wire tightner ratchet handle ETMRATO2	\$11,46
Aluminium ratchet ETMRATO4	\$2,04



LINEVIPER INSTALLATION MULTI-TOOLS		
	5/16" tu412-00005xx	\$125,00
	3/16" TU412-000003XX	\$125,00

NEW



LAPIERRE PNEUMATIC DROP LINE TOOL
(5/16" TUBING)

Need a 3 HP compressor minimum (not included)

TU526-00001XX	\$411,56
3/16" tubing clamping block (steel)	
TU526-011875XX	\$65,54

PRUNER	
A - Pruner "Garant" TU448-00000XX	\$16,19
B - 8" pruner TU448-00002VE	\$7,42
C - Anvil pruner "Garant" TU448-000001XX	\$13,46

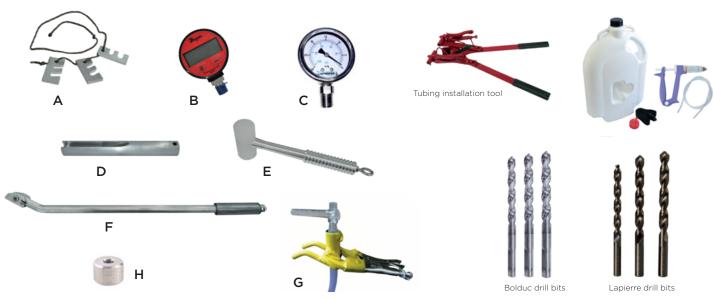
MAINLINE CUTTER 2"	
D - Mainline cutter	
TU452-000032XX	\$22,73



MAINLINE LEVEL E - Hand level Abney Sokkia 5" with percent & degree TU451-00001XX \$132,07 F - Hand level 8" to 9" CST Berger TU451-017630XX \$142,99 G - Telemeter Laser Nikon TU351-00001XX \$477,25 H - Hand level 5,25" to 5,75" Adirpro TU451-073002XX \$59,07

LAPIERRE APRONS	
I - Orange Lapierre installation apron (10 pockets) TU478-00001LA	\$134,61
MARKING SPRAY PAINT	
J - DV547-000002XX (blue)	\$6,23
J - DV547-000011XX (orange)	\$6.23

Many snowshoes models are available. Ask your Lapierre representative for details.



MISCELLANEOUS TOOLS	
A - 3/16" and 5/16" tension hooks TU115-000305XX	\$13,46
B - Manometer digital dwyer -30-0 2 1/2", 1/4" bottom connect DV205-403040DI	\$129,46
C - Vacuum gauge -30-0 KPA 2" SS, connexion 1/4" DV205-403032S6L	\$22,11
Vacuum gauge -30-0 KPA 2" Brass, 1/4" DV205-403032SPL	\$5,77
Vacuum gauge -30-0 KPA 2-1/2" SS connexion 1/4" DV205-403040S6L	\$22,31
Vacuum gauge -30-0 KPA 2-1/2" Brass, 1/4" DV205-403040SPL	\$6,04
Vacuum gauge -30-0 KPA 4" SS connexion 1/4" DV205-403064S6L	\$38,38
Vacuum gauge -30-0 KPA 4" Brass, 1/4" DV205-403064SPL	\$16,15
D - 7-3/4" driver for seasonal spout* TU420-070001A1	\$23,15
E - Tapping hammer* TU440-00000XX	\$19,23
F - Spout remover 5/16" (24") for seasonal spout* TU443-240005LA	\$24,61
F - Spout remover 5/16" (36") for seasonal spout* TU443-360005LA	\$25,38
G - Elbow shape seasonal spouts installation pliers* TU540-00000XX	\$43,08
H - Stopper for drill bit 19/64" TU465-000019XX	\$8,23
H - Stopper for drill bit 5/16" TU465-00005XX	\$8,23

Boldac arill bits Le	pierre ariii bits
CLEANIN	G
Complete cleaning kit tubing TU416-00008LX	for \$70,04
Tap hole sprayer 1 litre	\$5,00
TUBING INSTALLATION TOOL	
Chamberland TU427-000000XX	\$142,30

WOOD	
1/4" TU437-000004XX	\$12,27
5/16" TU437-00005XX	\$12,27
7/16" TU437-000007XX	\$16,11
19/64" TU437-000019XX	\$12,27
BOLDUC DRILL BITS FOR FROZEN AND NON-FROZEN WOOD	

LAPIERRE DRILL BITS
FOR FROZEN AND NON-FROZEN

1/4" TU437-00004BX	\$19,38
10437-0000046X	\$19,30
5/16" TU437-000005BX	\$19,38
7/16" TU437-000007BX	\$23,38
19/64" TU437-000019BX	\$19,38



A - PRUNO RAPIDO-DROP WITH TUE	ING CUTTER
--------------------------------	------------

Rapido-drop, auto tubing cutter 3/16", 24" to 40" TU525-7170001XX	\$557,09
Rapido-drop, auto tubing cutter 5/16", 24" to 40" TU525-717000XX	\$557,09
Rapido-drop, auto tubing cutter 3/16", 28" to 48" TU525-7170031XX	\$624,28
Rapido-drop, auto tubing cutter 5/16", 28" to 48" TU525-717003XX	\$624,28

B - PRUNO SPOUT REDUCER EXTRACTOR	
7/16" TU444-000000XX	\$51,19
5/16" TU444-000005XX	\$51,19

C - PRUNO HOLE PUNCH	
5/16" (Yellow) TU425-00005XX	\$79,38
3/8" (Black) TU425-000006XX	\$79,38
7/16" (Blue) TU425-000007XX	\$80,96
15/32" (Green) TU425-000015XX	\$80,96
31/64" (Red) TU425-000031XX	\$80,96

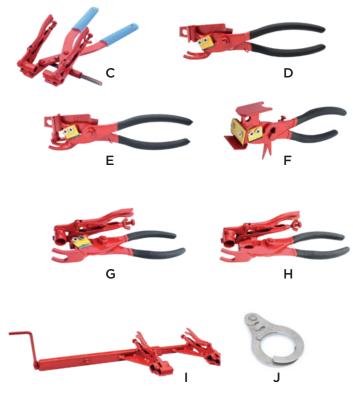
D. DDUNG WIDE DULLED	
D - PRUNO WIRE PULLER	
Wire tension grip 9" TU436-071576XX	\$57,07
Wire tension grip 11" TU436-071571XX	\$63,15
E - PRUNO SPOUT REMOVER	
Spout remover light 15" for 5/16" & 7/16" TU443-190507PL	\$15,15
Pruno universal spout remover (15") TU443-190507XX	\$15,15
F - PRUNO SPOOLERS	
Pruno tubing reel without base TU446-000000XX	\$72,50
Pruno base for tubing reel TU447-000001XX	\$13,42
Vertical reel to be suspended TU453-000000XX	\$105,77
Pruno horizontal wire spooler TU575-000000XX	\$139,38
PRUNO MISCELLANEOUS TOOLS	
G - Pruno threaded cone 1/4" TU456-00005XX	\$16,08
Holder for right-hand drill TU478-071936XX	\$35,88
H - Set hook holder line level for mainline 3/4" to 3" to 3"	
TU551-071902XX	\$46,11
Spring for compact insert tool TU439-000000XX	\$8,27



PRUNO TUBING INSTALLATION TOOL

PRUNO TUBING INSTALLATION TOOL	
A - 5/16" Pruno tubing installation auto-tension TU428-000000XX	\$238,34
B - Pruno light installation tool with 3/16" jaw and cutter TU528-711081XX	\$170,92
C - Pruno light installation tool with 3/16" jaw TU528-711091XX	\$134,38
Plier - tubing installation "pruno" red with cutter w/o flaring tool TU428-071106XX	\$219,65
Pruno installation plier, automatic calibratable pressure for 5/16" tubing. (without cutter or flaring device) TU528-071112XX	\$161,34
Plier - installation Pruno light econo with out cutter and flaring tool TU528-071109XX	\$134,38

PRUNO REPAIR TOOL	
D - Pruno insertion tool with lateral cutter TU429-00000XX	\$88,34
E - Pruno tubing installation tool lateral cutter and flaring tool TU430-000000XX	\$97,80
F - Pruno tubing cutter 5 functions TU432-000000XX	\$98,80
G - Pruno compact insert tool with vise-grip and cutter TU539-071065XX	\$90,80
H - Pruno compact insert tool with vise-grip without cutter TU539-071060XX	\$66,34
Pruno insertion plier with lateral cutter for angle spouts (30° to 115°) TU429-071067XX	\$108,50
Pruno insertion plier with 3/16" jaws, without cutter or flaring device TU429-710506XX	\$64,11
Plier - flow-stopper, long nose and automatic tensioning TU411-071919XX	\$53,07
Plier - flow-stopper, adjustment srew TU411-071921XX	\$30,38



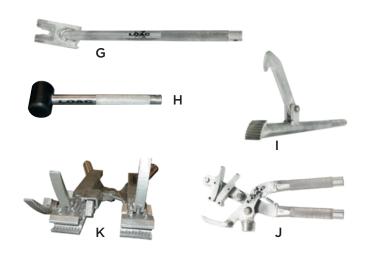
I - PRUNO MAINLINE INSTALLATION TOOLS

Pruno mainline installation tool 3/4" and 1" TU445-001216XX	\$182,92
Pruno mainline installation tool 1" and 1-1/4" TU445-001620XX	\$182,92
Pruno mainline installation tool 1-1/4" and 1-1/2" TU445-002024XX	\$188,76
Pruno mainline installation tool 1-1/2" and 2" TU445-002432XX	\$224,61
Pruno mainline installation tool 3/4" to 1-1/2" (kit) TU445-001224XX	\$263,14

J - MAINLINE WIRING HOOK FOR ALIGN MAINLINE

0 to 1-1/4" stainless steel TU555-071927XX	\$23,08
0 to 1-1/4" aluminium TU555-071926XX	\$20,00
O to 2" stainless steel TU555-071928XX	\$25,38
0 to 2" aluminium TU555-071925XX	\$22,31

Several other PRUNO tools are available in store, please consult your distributor.



Plastic and aluminium quick couplers



LOAC TOOLS	
G - Universal spout remover 15" TU443-150507NX	\$26,92
G - Universal spout remover 22,5" TU443-220507NX	\$30,00
G - Universal spout remover 30" TU443-300507NX	\$33,08
G - Universal spout remover 40" TU443-400507NX	\$36,15
Spout remover 25"/40" for 5/16" and 7/16" TU443-254057NX	\$50,77
H - Tapping hammer, double sided TU440-000005XX	\$23,08
Tapping spout remover 12-2 TU440-120210XX	\$30,00
I - Side tie adjuster 20" TU492-000020A1	\$66,92
I - Side tie adjuster 30" TU492-000030A1	\$78,46
J - Multifunctions plier TU530-00000XX	\$169,22
Ultra light 3/16" installation plier TU423-600003A1	\$242,30
K - Ultra light 5/16" installation plier TU423-600005A1	\$249,99

PLASTIC QUICK COUPLING	
A - 1/2" RA780-00008M1	\$1,81
A - 3/4" RA780-000012M1	\$1,89
A - 1" RA780-000016M1	\$1,96
A - 1-1/4" RA780-000020M1	\$2,04
A - 1-1/2" RA780-000024M1	\$2,12
A - 2" RA780-000032M1	\$2,19
B - 1/2" RA781-00008M1	\$3,81
B - 3/4" RA781-000012M1	\$4,19
B - 1" RA781-000016M1	\$5,19
B - 1-1/4" RA781-000020M1	\$6,81
B - 1-1/2" RA781-000024M1	\$6,88
B - 2" RA781-000032M1	\$7,81
C - 1/2" RA782-000008M1	\$3,81
C - 3/4" RA782-000012M1	\$3,96
C - 1" RA782-000016M1	\$4,73
C - 1-1/4" RA782-000020M1	\$6,50

AVAILABLE JANUARY 2020 Stainless steel quick coupling, replace the end of the code (M1) by S2.

ALUMINIUM QUICK COUPLING Replace the end of plastic quick coupling code (M1) by A1.







PLASTIC QUICK COUPLING	
F - 1" RA785-000016M1	\$1,73
F - 1-1/4" RA785-000020M1	\$2,12
F - 1-1/2" RA785-000024M1	\$2,42
F - 2" RA785-000032M1	\$2,81
DP - 1/2" RA786-00008M1	\$0,58
DP - 3/4" RA786-000012M1	\$1,04
DP - 1" RA786-000016M1	\$1,19
DP - 1-1/4" RA786-000020M1	\$1,35
DP - 1-1/2" RA786-000024M1	\$1,50
DP - 2" RA786-000032M1	\$1,96
DC - 1/2" RA787-00008M1	\$3,65
DC - 3/4" RA787-000012M1	\$3,73
DC - 1" RA787-000016M1	\$4,58
DC - 1-1/4" RA787-000020M1	\$5,96
DC - 1-1/2" RA787-000024M1	\$6,73
DC - 2" RA787-000032M1	\$7,12



GALVANIZED AND STAINLESS CLAMPS	
3/4"	
DV217-000012XX	\$0,65
3/4" SS DV217-000012S2	\$0,85
1" DV217-000016XX	\$0,65
1" SS DV217-000016S2	\$0,85
1-1/4" DV217-000020XX	\$0,62
1-1/4" SS DV217-000020S2	\$0,92
1-1/2" DV217-000024XX	\$0,69
1-1/2" SS DV217-000024S2	\$1,12
2" DV217-000032XX	\$0,85
2" SS DV217-000032S2	\$1,12



STANDARD MAXI CLAMP	
1" DV255-003235XX	\$1,31
1-1/4" DV255-004043XX	\$2,35
1-1/2" DV255-004851XX	\$2,85
2" DV255-006063XX	\$3,08



STAINLESS STEEL MAXI CLAMP		
1" DV255-003235S2	\$3,46	
1-1/4" DV255-004043S2	\$3,62	
1-1/2" DV255-004851S2	\$4,77	
2" DV255-006063S2	\$4,96	



PVC40 THREADED BALL VALVES	
1/2" VA002-000808P2	\$3,85
3/4" VA002-001212P2	\$4,31
1" VA002-001616P2	\$5,19
1-1/4" VA002-002020P2	\$7,00
1-1/2" VA002-002424P2	\$9,50
2" VA002-003232P2	\$11,77
2-1/2" VA002-004040P2	\$20,81
3" VA002-004848P2	\$49,77

PVC40 SLIP BALL VALVES	
1/2"	
VA003-000808P2	\$2,42
3/4"	
VA003-001212P2	\$2,62
1"	
VA003-001616P2	\$4,31
1-1/4"	
VA003-002020P2	\$5,58
1-1/2"	
VA003-002424P2	\$8,00
2"	
VA003-003232P2	\$11,69
2-1/2"	
VA003-004040P2	\$20,81
3"	
VA003-004848P2	\$49,61



STAINLESS STEEL BALL VALVE		
1/4"		
VA001-000404S2	\$11,61	
1/2"		
VA001-000808S2	\$11,61	
3/4"		
VA001-001212S2	\$16,38	
1"		
VA001-001616S2	\$21,61	
1-1/4"		
VA001-002020S2	\$31,46	
1-1/2"		
VA001-002424S2	\$38,50	
2"		
VA001-003232S2	\$57,96	

Grey PVC and white PVC40



Coupling

slip

Cap slip

PVC40 GUILLOTINE VALVE

Elbow 90°

Elbow 45°

VA006-001616P2 \$15,04 1-1/2" VA006-002424P2 \$15,08 VA006-003232P2 \$24,50 VA006-004848P2 \$35,19



Adaptor

Red. bushing

PVC40 guillotine valve

SS MAINLINE COUPLINGS KIT	
Couplings kit SS 3/4" TU105-001212S2	\$48,84
Couplings kit SS 1" TU105-001616S2	\$49,15
Couplings kit SS 1-1/4" TU105-002020S2	\$49,61
Couplings kit SS 1-1/2" TU105-002424S2	\$53,61
Couplings kit SS 2" TU105-003232S2	\$57,23

Tee slip

Cross slip

Threaded

union

PVC40 LINE SPRING LOADED CHECK VALVE	
1/2"	•
VA007-000808P2	\$6,12
3/4"	
VA007-001212P2	\$6,65
1"	
VA007-001616P2	\$9,73
1-1/4"	
VA007-002020P2	\$12,15
1-1/2"	
VA007-002424P2	\$13,23
2"	
VA007-003232P2	\$16,08
VA007-001616P2 1-1/4" VA007-002020P2 1-1/2" VA007-002424P2 2"	\$12,15 \$13,23



Grey PVC and White PVC40

Many more models available. Please contact your Lapierre representative for more details.



THE MOST COMPLETE LINE OF STAINLESS FITTINGS ON THE MARKET



BALL VALVE (INS X INS)

3/4"

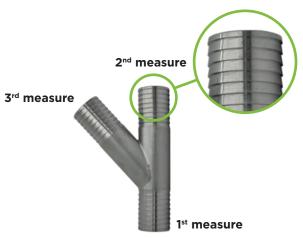
VA051-001212S2

1"

VA051-001616S2

ADAPTOR (MPT X INS)	
1/2"	
TU100-000808S2	\$12,46
3/4"	
TU100-001212S2	\$13,65
1"	**= *=
TU100-001616S2	\$15,15
1-1/4"	410.07
TU100-002020S2	\$16,23
1-1/2"	ф1C 1Г
TU100-002424S2	\$16,15
2"	¢10.70
TU100-003232S2	\$19,38
1" × 3/4" TU100-001612S2	\$15,69
1-1/4" × 1"	
TU100-002016S2	\$15,85
1-1/2" × 1-1/4"	417.00
TU100-002420S2	\$17,00
2" × 1-1/2" TU100-003224S2	\$22,54





Υ	
3/4"	
TU102-121212S2	\$17,69
1" × 3/4" × 3/4" TU102-161212S2	\$28,85
1" × 1" × 3/4" TU102-161612S2	\$19,38
1" TU102-161616S2	\$22,08
1-1/4" × 1" × 1" TU102-201616S2	\$29,42
1-1/4" x 1-1/4" x 3/4" TU102-202012S2	\$23,46
1-1/4" × 1-1/4" × 1" TU102-202016S2	\$23,46
1-1/4" TU102-202020S2	\$24,69
1-1/2" × 1" × 1" TU102-241616S2	\$34,65
1-1/2" × 1-1/4" × 1-1/4" TU102-242020S2	\$31,38
1-1/2" × 1-1/2" × 1" TU102-242416S2	\$23,11
1-1/2" × 1-1/2" × 1-1/4" TU102-242420S2	\$24,19
1-1/2" TU102-242424S2	\$24,46
2" × 2" × 1-1/4" TU102-323220S2	\$27,92
2" × 2" × 1-1/2" TU102-323224S2	\$28,23
2" TU102-323232S2	\$32,23
3" TU102-484848S2	\$89,03

Other sizes available

Please contact your Lapierre representative for more details.



TEE	
3/4" TU103-121212S2	\$17,42
1" × 1" × 3/4" TU103-161612S2	\$17,61
1" TU103-161616S2	\$17,81
1-1/4" × 1-1/4" × 3/4" TU103-202012S2	\$18,50
1-1/4" × 1-1/4" × 1" TU103-202016S2	\$18,69
1-1/4" TU103-202020S2	\$19,11
1-1/2" × 1-1/2" × 1" TU103-242416S2	\$19,46
1-1/2" × 1-1/2" × 1-1/4" TU103-242420S2	\$18,73
1-1/2" TU103-242424S2	\$21,31
2" × 2" × 1-1/2" TU103-323224S2	\$21,73
2" TU103-323232S2	\$24,19



SS END-PLUG WITH HOOK	
3/4" TU820-000012SS	\$10,46
1" TU820-00016SS	\$8,50
1-1/4" TU820-000020SS	\$10,08
1-1/2" TU820-000024SS	\$13,00
2" TU820-000032SS	\$17,69

Other sizes available

Please contact your Lapierre representative for more details.



ADAPTOR WITH HOLE (DIAL NOT INCLUDED)	
Adaptor 1" MPT x INS, side hole 1/4" FPT TU157-161604S2	\$20,04
Adaptor 1-1/4" x 1" MPT x INS, side hole 1/4" FPT TU157-201604S2	\$22,23
Adaptor 1-1/4" MPT x INS, side hole 1/4" FPT TU157-202004S2	\$20,58



COUPLING	
1/2"	
TU101-000808S2	\$3,85
3/4"	
TU101-001212S2	\$4,08
1"	A 4 7 5
TU101-001616S2	\$4,35
1-1/4"	¢4.70
TU101-002020S2	\$4,38
1-1/2" TU101-002424S2	\$4,46
2"	Ψ4,40
TU101-003232S2	\$9,62
1" × 3/4"	
TU101-001612S2	\$10,19
1-1/4" × 1"	
TU101-002016S2	\$11,69
1-1/2" × 1-1/4"	
TU101-002420S2	\$11,73
2" × 1-1/2"	#10.6 7
TU101-003224S2	\$18,23

Three-level tapping

FOR OPTIMAL AND SUSTAINED PERFORMANCE OVER TIME

Those who saw the video capsule put online on Érable & Chalumeaux on March 1, 2019 understand how surprised I was to see that a maple syrup producer had applied a tapping model that I had developed 20 years earlier. The surprise was even greater when we studied maples and found that the model worked! This method would allow them to always cut into healthy wood in perpetuity, and therefore have higher yields from generation to generation.

https://www.erable-chalumeaux.ca/lentaillage-a-3-niveaux-pour-un-rendement-soutenu-leuphorie-de-la-preuve/

If we go back to the source, I had developed this tapping model fol-

lowing projects in which we studied the inside of the tapping area and found that the accumulation of dead wood in the tapping area was faster than new wood produced by the tree.

Image 1: A cut showing a 20-year-old tapped tree that has almost no living wood left.

One of the reasons for the rapid accumulation of dead wood is that when 2 taps are brought closer together (less than 2 inches wide and less than 16 inches high) the cuts of the 2 taps tend to weld and form an injury that can be 4 times greater.

Image 2: Fusion of 2 taps made at 8-year intervals.

So I reflexively thought that 20 cm (8 inches) in diameter for a maple tree was too small to make a first tap. By modelling the tapping on maples with an average growth of 1.2 mm radial per year in an area of +/- 40 cm (16 inches), I quickly noticed that starting the tapping at 25 cm (10 inches) in diameter instead of 20 cm (8 inches) only gave us 3 more years (15 vears) before having to put a new tap within 5 cm (2 inches) of an old tap, compared to 12 years if we start to tap a tree at 20 cm in diameter (Image 3). It was therefore clear to me that starting to tap maples at 25 cm in diameter was not a significant conservation measure.



By refining the model (Image 4) I understood that the only way to succeed in the long run to save maple trees with average growth combined with 5 cm (2 inches) deep tap is to systematically cut three rows of height (vertically) spaced 40 cm (16 inches) hole by hole, and to separate the 5 cm (2 inches) wide taps (horizontally). By doing so, the 42 years required to circle the tree will have allowed the maple to grow enough to produce new wood 5 cm thick: this method allows the maple producer to tap against the old first tap in 100% healthy wood. It should be noted that this method allows only one tapping per tree per year.

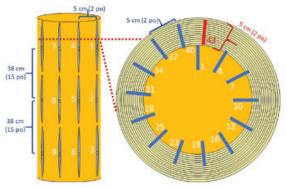


Image 4

Image 3: Model showing that starting to tap maple trees at 25 cm in diameter, instead of 20 cm in diameter, does not significantly improve conservation if the taps are placed on a single level.

Today, we can assume that the new sap spout diameter standard is 1/4 inch. This sap spout now allows us to vertically distance the taps by 38 cm (15 inches hole to hole).

It is very motivating to see that it is possible to leave a significant maple syrup potential to future generations by using my method!

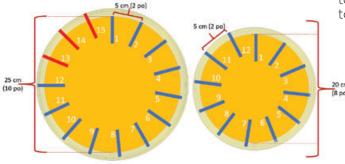


Image 3



ALWAYS ON THE LOOKOUT THE MOST POWERFUL MONITORING SYSTEM

A CLEAR VISION OF

MAPLE SUGARING 4.0

The DATACER team is dedicated to the development of maple sugaring information technologies.

Our mission is to communicate data on your sugar bush's main performance indicators locally or remotely, and in real time. DATACER enables optimal management of your workforce and priorities through access to essential sugar bush information.

DETECTION AND

QUICK REACTION TIME

The DATACER system detects productivity losses in real time and allows you to respond quickly and precisely where needed.

- Save time and energy.
- Reduce the impact of seasonal stress.
- Ensure a better quality of life.
- No guessing; target the leak and fix it.
- · No more overflowing sap tanks.
- Get a guick return on your investment.







Long-range transmitters can cover up to **3 MILES** of distance*

Vacuum transmitter (3 main lines)

DATACER MONITORING SYSTEM

DATACER Base

Includes: antenna, cable, screen, keyboard, mouse, wireless routeur and battery backup (UPS)

SM100-020002KT

DATACER Base, WITHOUT ANTENNA (Option antenna "C" only)

SM100-020002NX

VACUUM TRANSMITTER (1 MAIN LINE), D batteries included

SM100-010001XX

VACUUM TRANSMITTER (2 MAIN LINES), D batteries included

SM100-020001XX

VACUUM TRANSMITTER (3 MAIN LINE), D batteries included

SM100-030001XX

SIGNAL REPEATER, 3 D batteries included

SM100-000006XX

^{*} Depending on the topography of the terrain, the density of the vegetation and the height of the transmitters.

COMBINED MULTI-FUNCTION TRANSMITTER	OPTION ANTENNA	
TRANSMITTER PLV TRANSMITTER (1 PRESSURE IN PSI, 1 TANK LEVEL BY SONAR, 1 VACUUM) WITHOUT ANTENNA SM100-000011PLV	А, В, С	
TRANSMITTER PLL (1 PRESSURE IN PSI, 2 TANK LEVEL BY SONAR) WITHOUT ANTENNA SM100-000011PLL	А, В, С	
TRANSMITTER PV (1 PRESSURE IN PSI, 1 VACUUM) WITHOUT ANTENNA SM100-000011PV	А, В, С	
TRANSMITTER PPV (2 PRESSURE IN PS1, 1 VACUUM) WITHOUT ANTENNA SM100-000011PPV	А, В, С	
TRANSMITTER LV (1 TANK LEVEL BY SONAR, 1 VACUUM) WITHOUT ANTENNA SM100-000011LV	А, В, С	
TRANSMITTER LLV (2 TANK LEVEL BY SONAR, 1 VACUUM) WITHOUT ANTENNA SM100-000011LLV	А, В, С	

OPTION - EXTERNAL ANTENNA

OPTION "A" (standard)

Adaptor with whip antenna SM300-000905KT

OPTION "B"

Omnidirectionnal antenna & cable 30' SM300-030906KT

OPTION "C"

Omnidirectionnal antenna & cable 50' SM300-050906KT

BATTERY

BATTERY (3) D12 PROCELL FOR TRANSMITTER including 1 silica gel moisture 10 gr DV955-000012KT

CONTROL YOUR PUMP-STATION

- Automatic start/stop of vacuum pump by temperatures
- Drive (VFD) speed control
- Start/stop sap pump
- Indoor and outdoor temperature monitoring
- Motorized valve for drainage or vacuum control
- Pressure monitoring for R.O. feed or sap transfer pump
- Tank level and vacuum sensor

DATACER STATION

DATACER station, W/O antenna

SM100-000012XX



DATACER STATION (AVAILABLE OPTIONS)

Ultrasound sensor for one SS tank

SM300-100112KT

Option BELIMO electric valve 1"

SM312-020016SX

Pressure sensor 0-150 PSI (kit)

SM312-025100KT

Water pump control by electrode, 5hp max, 240V for one pump (electrode 60")

SM412-018060KT

Water pump control by electrode, 5hp max, 240V forone pump (electrode 96")

SM512-018060KT

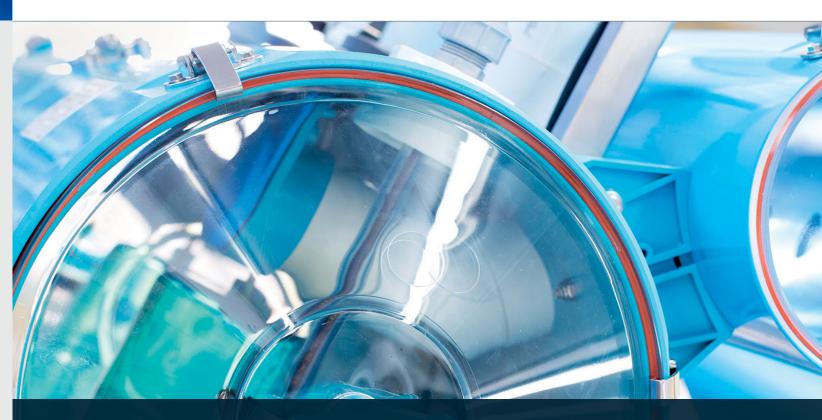
Relay for starting vacuum pump by magnetic

SM312-101002KT



TRANSMITTER FOR TANK LEVELS	OPTION ANTENNA
TRANSMITTER, 1 TANK LEVEL BY SONAR, WITHOUT ANTENNA SM100-010010NX	А, В, С
TRANSMITTER, 3 TANK LEVELS BY SONAR, WITHOUT ANTENNA SM100-030010NX	А, В, С
TRANSMITTER, 2 TANK LEVELS BY SONAR, WITHOUT ANTENNA SM100-020010NX	А, В, С
TRANSMITTER LP (1 TANK LEVEL BY PRESSURE) WITHOUT ANTENNA SM100-000013L	А, В, С

ACCESSORIES	CODE
Cable n-male to n-female 400 series assembly 30'	CA4N030
Cable n-male to n-male 400 series assembly 50'	CA3N050
Connector adapter Jack-Jack N 50 OHM	SM300-172123XX
Directional antenna 12 DBI 900 MHZ	SM100-000008XX



The most complete line of sap extractors to perfectly suit all needs.

BERNARD AND LAPIERRE TWO NAMES ONE FAMILY

The launch of the first Lapierre maple sap extractors triggered the company manufacturing capabilities in the late 70's. Donald Lapierre designed and built the first reliable mechanical extractor on the market. Proud of our complete range of extractors, we emphasize on quality and simplicity of operation. In 2005 we acquired the sugarbush equipment manufacturer Gilles Bernard Maple Equipment to offer another interesting alternative to our customers. We kept the technical principles that made them famous but added key Lapierre Equipment manufacturing features.

SPECIFICATIONS

- Stainless steel frames, clips and fasteners;
- Standardized parts that fit on all our extractors;
- Easier than ever to take apart for cleaning and lubricating;
- All parts are CNC machined in house for a perfect fit every time;
- Manifold inlet sizes and position can be customized upon request (ask your dealer).



NEW LATCHES FOR OPTIMAL SEALING

Standard on 12 and 20 inches horizontal extractors



TWIN CONTINUOUS VACUUM EXTRACTOR (VTCV AND HTCV)

These extractors provide two bellies operating independently as a single extractor. If one stops operating, the other belly will still operate thus retaining 50% of its capacity. To enjoy this benefit, install a model that offers twice the collection capacity you need.

LAPIERRE 12" X 36" HTCV







12" X 36" HTCV EXTRACTOR



20" X 36" HTCV EXTRACTOR

DIMENSION	TYPE	VALVE SYSTEM	O'RING KIT	DESCRIPTION	CODE
8" X 8" X 14"	VTCV	BERNARD	D	Vacuum feed 1-1/2" and 6" manifold, maximum of 1500 taps	223-M6-JVC
12" X 36"	HTCV	LAPIERRE	В	Vacuum feed 2" and 6" manifold, maximum of 3700 taps	EX021-361236XX
12" X 36"	нтсу	BERNARD	F	Vacuum feed 2" and 6" manifold, maximum of 3700 taps	218-JVC
20" X 36"	нтсу	BERNARD	G	Vacuum feed 2" and 6" manifold, maximum of 12 000 taps	220-2-JVC
20" X 36"	нтсу	BERNARD	1	Vacuum feed 3" and 6" manifold, maximum of 15 000 taps	220-3-JVC
20" X 48"	нтсу	BERNARD	I	Vacuum feed 3" and 8" manifold, maximum of 20 000 taps	222-JVC



ELECTRIC EXTRACTOR WITH INTERNAL PUMP

Available with one or two pumps* (internal independent) this extractor is the ultimate in continuous vacuum because it never releases its vacuum.





LAPIERRE 12"X36" EXTRACTOR

20" X 36" EXTRACTOR

DIMENSION	PUMP	DESCRIPTION	CODE
20" X 24"	1 PUMP TYPE A OR B	1 control, vacuum feed 3", 6" x 27" manifold (Option electrode 2)	EX025-012024NX
20" X 36"	1 PUMP TYPE A OR B	1 control, vacuum feed 3", 6" x 42" manifold (Option electrode 2)	EX025-012036NX
20" X 36"	1-2 PUMPS TYPE A OR B	2 controls, vacuum feed 3", 6" x 42" manifold (Option electrode 4)	EX025-022036NX
12" X 24"	N/A	1 control, vacuum 2", 6" X 12" manifold Only with external pump (Option electrode 1)	EX010-001224NX
12" X 36"	1 PUMP TYPE A, B OR C	Vacuum feed 2" with 6" x 12" manifold (Option electrode 1) Built-in internal pump kit	EX010-001236NX
20" X 24"	1 PUMP TYPE C	1 control, vacuum feed 3", 6" x 27" manifold (Option electrode 2)	EX125-012024NX
20" X 36"	1 PUMPS TYPE C, D, E OR F	1 control, vacuum feed 3", 6" x 42" manifold (Option electrode 2)	EX125-012036NX
20" X 36"	1-2 PUMPS TYPE C, D, E OR F	2 controls, vacuum feed 3", 6" x 42" manifold (Option electrode 4)	EX125-022036NX
20" X 41"	1 PUMP TYPE C, D, E, F OR G	1 control, vacuum feed 3", 6" x 42" manifold (Option electrode 2)	EX125-012041NX
20" X 41"	1-2 PUMPS TYPE C, D, E, F OR G	2 controls, vacuum feed 3", 6" x 42" manifold (Option electrode 4)	EX125-022041NX

Pumps, draining kit and electrodes pump control not included, see page 36.



NEW

ELECTRIC EXTRACTOR WITH INTERNAL PUMP

Available with one or two pumps* (internal independent) this extractor is the ultimate in continuous vacuum because it never releases its vacuum...

LAPIERRE 20" X 36" DHS





LAPIERRE 12" X 36" DHS

LAPIERRE 20" X 36" DHS

DIMENSION	PUMP	DESCRIPTION	CODE				
12" X 36"	1 PUMP C, D, E OR F	Electrodes control, vacuum feed 2", double 12" x 36" tanks	EX127-011236XX				
12" X 36"	1-2 PUMPS C, D, E OR F	Electrodes control, vacuum feed 2", double 12" x 36" tanks	EX127-021236XX				
20" X 36"	1 PUMP C, D, E OR F	Electrodes control, vacuum feed 3" , double stacked 20" x 36" tanks	EX129-012036XX				
20" X 36"	1-2 PUMPS C, D, E OR F	Electrodes control, vacuum feed 3" , double stacked 20" x 36" tanks	EX129-022036XX				
SINGLE TANK WITHOUT MANIFOLD							
20" X 36"	1 PUMP C, D, E OR F	1 control, vacuum feed 3", single 20" x 36" tank (Option electrode 2)	EX141-012036XX EX325-013260KN				
20" X 36"	1-2 PUMPS C, D, E OR F	2 controls, vacuum feed 3", single 20" x 36" tank (Option electrode 4)	EX141-022036XX EX325-023260KN				

Sap inlet holes on demand.

Electrodes pump control not included on EX141-012036XX and EX141-022036XX, see page 36. Pump not included, see page 41. Draining kit not available for the models above.



NEW 2019

Standard with electrodes pump control

HYBRID EXTRACTOR WITH INTERNAL WATER PUMP

This extractor, is designed to be installed on a storage tank just like a mechanical extractor, is the best of both worlds; this system is made to operate with one or two internal water pumps*. If any failure happens with the pumps, the pneumatic valve will take over and the system will operate just like a mechanical extractor. This extractor will never let you down!



20" X 24" HYBRID EXTRACTOR

DIMENSION	PUMP	O'RING KIT	VALVE SYSTEM	DESCRIPTION	CODE	
20" X 24"	1 PUMP A OR B	G	BERNARD	Vacuum feed 2", manifold 6" x 27"	215-2-H	
20" X 24"	1 PUMP A OR B	J	BERNARD	Vacuum feed 3", manifold 6" x 27"	215-3-H	
20" X 36"	1 PUMP A OR B	J	BERNARD	Vacuum feed 3", manifold 6" x 42"	EX026-012036BE	
20" X 36"	1-2 PUMP A OR B	J	BERNARD	Vacuum feed 3", manifold 6" x 42"	EX026-022036BE	
20" X 24"	1 POMPE C	G	BERNARD	Vacuum feed 2", manifold 6" x 27"	EX126-012024BE	
20" X 36"	1 POMPE C, D, E OU F	J	BERNARD	Vacuum feed 3", manifold 6" x 42"	EX126-012036BE	
20" X 36"	1-2 POMPE C, D, E OU F	J	BERNARD	Vacuum feed 3", manifold 6" x 42"	EX126-022036BE	

^{*}Pump not included, see page 36.



(A-B)
Submersible goulds pump (SUMP PUMP)



(C-D-E-F)
Submersible pump
(DEEP WELL)



DRAINING KIT ON SINGLE ELECTRIC HORIZ. EXTRACTOR 20" X 24" & 20" X 36" FOR SUB-MERSIBLE PUMP

EX225-323204RT \$6	\$60,50
--------------------	---------

ТҮРЕ	SUBMERSIBLE GOULDS PUMP (DRAIN) (240 VOLTS)							
А	3/4 HP	GOULDS	PM145-001201XX					
В	1 HP	GOULDS	PM145-001601XX					

TYPE	SUBMERSIBLE PUMP (DEEP WELL) FOR EXTRACTEUR							
С	1/2 HP	STARITE 20 GPM	PM152-082005XX					
D	1 HP	GOULDS 25 GPM	PM142-162507NX					
Е	2 HP	GOULDS 25 GPM	PM142-322511XX					
F	2 HP	GOULDS 45 GPM	PM142-324507XX					
Н	2 HP	FRANKLIN 60 GPM	PM162-326006XX					

^{*1} psi = 2.3 feet of elevation. (Do not forget to calculate the friction of the tube when calculating your pumps)



TYPE	ELECTRODES PUMP CONTROL OPTION FOR E ON NEW EXTRACTOR PURCHAS	
1	Electrodes pump control, 2HP max, 240V. for 1 pump on 12" and 20" DHS extractor and 12"x 36" vertical	EX325-013260KT
2	Electrodes pump control, 2HP max, 240V. for 1 pump on 20" electric horizontal extractor	EX325-013260KN
3	Electrodes pump control, 2HP max, 240V. for 2 pumps on 12" and 20" DHS extractor	EX325-023260KT
4	Electrodes pump control, 2HP max, 240V. for 2 pumps on 20" electric horizontal extractor	EX325-023260KN

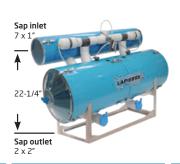
ELECTRODES PUMP CONTROL OPTION FOR ELECTRIC EXTACTOR EXTRACTOR MODIFICATION (LABOR NOT INCLUDED)						
Electrodes pump control, 2HP max, 240V. for 1 pump on 12" and 20" DHS extractor and 12"x 36" vertical	EX225-013260KT					
Electrodes pump control, 2HP max, 240V. for 1 pump on 20" electric horizontal extractor	EX225-013260KN					
Electrodes pump control, 2HP max, 240V. for 2 pumps on 12" and 20" DHS extractor	EX225-023260KT					
Electrodes pump control, 2HP max, 240V. for 2 pumps on 20" electric horizontal extractor	EX225-023260KN					



DOUBLE MECHANICAL EXTRACTOR (DV AND DH)

In these double extractors each tank operates in turn. While one is emptied of its sap, the other begins its filling cycle and vice versa. This process offers a higher collection capacity than a single extractor but less capacity compared to a twin continuous vacuum.









8" X 8" X 14" DV EXTRACTOR

12" X 36" DH EXTRACTOR

12" X 12" X 18" DV EXTRACTOR

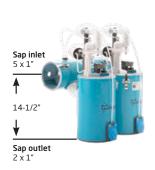
20" X 36" DH EXTRACTOR (2")

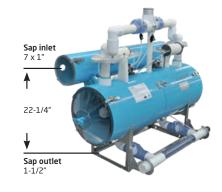
DIMENSION	TYPE	VALVE SYSTEM	O'RING KIT	DESCRIPTION	CODE
8" X 8" X 14"	DV	BERNARD	D	Vacuum feed 1" and 6" manifold, maximum of 1000 taps	223-M6
12" X 36"	DH	LAPIERRE	2 X B	Vacuum feed 1-1/2" and 6" manifold, maximum of 2500 taps	EX012-361236XX
12" X 36"	DH	BERNARD	E	Vacuum feed 1-1/2" and 6" manifold, maximum of 2500 taps	218
12" X 12" X 18"	DV	LAPIERRE	2 X B	Vacuum feed 1-1/2" and 6" manifold, maximum of 3000 taps	EX005-121806XX
12" X 12" X 18"	DV	BERNARD	E	Vacuum feed 1-1/2" and 6" manifold, maximum of 3000 taps	213
20" X 36"	DH	BERNARD	н	Vacuum feed 2" and 6" manifold, maximum of 8000 taps	220
20" X 36"	DH	BERNARD	J	Vacuum feed 3" and 6" manifold, maximum of 12000 taps	220-3
20" X 48"	DH	BERNARD	К	Vacuum feed 3" and 8" manifold, maximum of 20000 taps	222



TWIN CONTINUOUS VACUUM REVERSE SLOPE EXTRACTOR (TCV-HRS and TCV-VRS)

These new types of reverse slope extractors now operate on the principle of twin continuous vacuum. It features 2 independent bellies operating like a single extractor while remaining a reverse slope. The necessary air leak for the proper operation of a reverse slope is now reduced and controlled. A reverse slope extractor TCV-HRS allows to raise the sap up to 20 ft @ 25 in/Hg or to 15 ft @ 20 in/Hg. The sap outlet and the vacuum feed of the reverse slope must be hooked to the manifold of the receiving extractor at the hilltop.





8" X 8" X 14" TVC-VRS EXTRACTOR

12" X 36" TVC-HRS EXTRACTOR

DIMENSION	TYPE	VALVE SYSTEM	O'RING KIT	DESCRIPTION	CODE
8" X 8" X 14"	TCV-VRS	BERNARD	2 X D	Vacuum feed 2 x 1" and 6" manifold	217-M6-JVC-PI
12" X 36"	TCV-HRS	BERNARD	2 X E	Vacuum feed 1-1/2" and 6" manifold	218-JVC-PI
20" X 36"	TCV-HRS	BERNARD	2 X G	Vacuum feed 2" and 6" manifold	220-2-JVC-PI
20" X 36"	TCV-HRS	BERNARD	2 X I	Vacuum feed 3" and 6" manifold	220-3-JVC-PI



SINGLE MECHANICAL EXTRACTOR (SV AND SH)

The simplicity of operation of these single mechanical extractors makes them economic and reliable. When the sap level pushes the float up, the vacuum is cut from the belly and the sap is released.







12" X 18" SV EXTRACTOR



12" X 24" SH EXTRACTOR



20" X 24" SH 3" EXTRACTOR

DIMENSION	TYPE	VALVE SYSTEM	O'RING KIT	DESCRIPTION	CODE
8" X 14"	sv	BERNARD	D	Vacuum feed 1" and 6" manifold, maximum of 500 taps	217-M6
12" X 18"	SV	LAPIERRE	В	Vacuum feed 1-1/2" and 6" manifold, maximum of 1200 taps	EX004-121806XX
12" X 18"	SV	BERNARD	F	Vacuum feed 1-1/2" and 6" manifold, maximum of 1200 taps	216
12" X 24"	SH	LAPIERRE	В	Vacuum feed 1-1/2" and 6" manifold, maximum of 1500 taps	EX001-271224XX
12" X 24"	SH	BERNARD	F	Vacuum feed 1-1/2" and 6" manifold, maximum of 1500 taps	210
20" X 24"	SH	BERNARD	G	Vacuum feed 2" and 6" manifold, maximum of 5000 taps	215
20" X 24"	SH	BERNARD	I	Vacuum feed 3" and 6" manifold, maximum of 8000 taps	215-3



MECHANICAL-ELECTRIC EXTRACTOR (VME and HME)

These extractors, operated with an external water pump for sap extraction, with the particularity that the water pump never runs under vacuum. This feature prevents the pump for being unprimed because the mechanical valve system transfers vacuum to the second belly. The water pump starts only when the first belly is full of sap, the vacuum has been transferred and sap reaches the float switch at the bottom of the second belly now under vacuum.









12" X 12" X 18" VME EXTRACTOR

12" X 36" HME EXTRACTOR

20" X 36" HME EXTRACTOR

AUTOMATIC STARTER

DIMENSION	TYPE	VALVE SYSTEM	O'RING KIT	DESCRIPTION	CODE	
12" X 12" X 18"	VME	BERNARD	F	Vacuum feed 1-1/2" and 6" manifold	213-ME	
12" X 36"	НМЕ	BERNARD	E	Vacuum feed 1-1/2" and 6" manifold	218-ME	
20" X 36"	НМЕ	BERNARD	н	Vacuum feed 2" and 6" manifold	220-2-ME	
20" X 36"	НМЕ	BERNARD	J	Vacuum feed 3" and 6" manifold	220-3-ME	
AUTO	MATIC S	TARTER OPTION		Upon purchase of a mechanical-electric extractor	EX222-010460XX	
AUTO	AUTOMATIC STARTER OPTION			For mechanical-electric extractor modification	EX222-010360XX	

CONTINUOUS VACUUM EXTACTOR (VCV AND HCV)

Continuous vacuum extractors work like single extractor, with the difference that it continues to feed the manifold in vacuum while releasing the sap, thus offering a better performance.





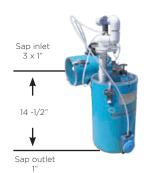
8" X 14" VCV EXTRACTOR

20" X 24" HCV EXTRACTOR 2"

DIMENSION	ТҮРЕ	VALVE SYSTEM	O'RING KIT	DESCRIPTION	CODE	
8" X 14"	VCV	BERNARD	D	Vacuum feed 1" and 6" manifold, maximum of 500 taps	217-M6-VC	
20" X 24"	HCV	BERNARD	G	Vacuum feed 2" and 12" manifold, maximum of 6000 taps	215-2-VC	
20" X 24"	HCV	BERNARD	J	Vacuum feed 3" and 12" manifold, maximum of 10000 taps	215-3-VC	

EXTRACTOR VALVE O'RING KIT

O'RING KIT	CODE	DESCRIPTION	
Α	DV201-162069XX	O'RING KIT & U-CUP VALVE SYSTEM LAPIERRE 1 X 1 1/4"	\$8,12
В	DV201-243269NX	O'RING KIT & U-CUP VALVE SYSTEM LAPIERRE 1 1/2 X 2"	\$7,54
С	DV201-486469NX	O'RING KIT & U-CUP VALVE SYSTEM LAPIERRE 3 X 4"	\$23,69
D	DV201-317000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 1"	\$9,23
E	DV201-320000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 11/2"	\$10,00
F	DV201-321000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 11/2"	\$9,23
G	DV201-324000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 2"	\$10,77
Н	DV201-325000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 2"	\$11,54
1	DV201-326000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 3"	\$23,08
J	DV201-327000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 3"	\$24,61
K	DV201-328000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 3"	\$26,15



Unique vacuum and sap outlet 1", 6" manifold 217-M6-PI

SINGLE BERNARD REVERSE SLOPE

This single reverse slope is used to push sap up toward an extractor or a transfer tank at a maximum height of 15 ft @ 20 in/Hg or 20 ft @ 25 in/Hg. It will drain itself automatically when there is no more vacuum fed to it. Unlike a conventional reverse slope extractor, it only needs one pipe for the vacuum and sap outlet.

B-SAP LADDER AIR INJECTOR

Injects air in the system to move the sap up the ladder.

512 \$2	39,22
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SELF CLEANING SPRINKLER OPTION

20" sap extractor self cleaning sprinklers.

Self cleaning sprinkler (on new extractor)

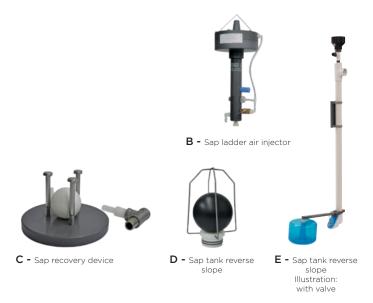
EX071-000020XX

Automatic self cleaning sprinkler with float and timer (on new extractor)

EX171-000020XX



Retrofit on existing extractors is possible. See your local Lapierre Dealer.



C - SAP RECOVERY DEVICE

This accessory is used to recover the sap in the bottom of a drainage tank to avoid sap loss. The ball floats allowing the sap to be siphoned by the vacuum coming from the extractor. Once the tank is emptied the ball comes down and blocks the inlet. (connected under the manifold vacuum gage).

EX107-00000XX	\$48,46
_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ψ . Ο, . Ο

D - SAP TANK REVERSE SLOPE

(Fits on Lapierre storage tanks only)

Used to siphon sap from a tank to a sap extractor at a maximum height of 15 ft @ 20 in/Hg and 20 ft @ 25 in/Hg automatically drains the line back to the tank when there's no more vacuum.

BA509-000024XX	\$40,77
BA509-000032XX	\$42,31

E - SAP TANK REVERSE SLOPE

Used to siphon sap from a tank to a sap extractor at a maximum height of 15 ft @ 20 in/Hg and 20 ft @ 25 in/Hg. Includes automatic vacuum draining valve.

Automatic vacuum 520	\$352,29
Without draining valve 520-S	\$282,87

EXTRACTORS | MISCELLANEOUS



E - O'rings for extractors	F - Traps and parts
A - RECOMMENDED	
FOR EXTRACTOR M	
Lapierre food grade oil 30 m DV492-000030XX	\$3,81
Food grade (silicone grease DV490-000001XX	6 g) \$1,50
Food grade (silicone grease DV490-000150XX	150 g) \$26,11
B - REPLACEMENT FOR SAP EXT	
1-1/2" VA026-022424P4	\$39,00
O'ring #139 DV201-000139XX	\$0,62
3" Lapierre swing check valv VA025-004848LA	e \$115,15
C - REPLACEMENT	CHECK VALVE
C - REPLACEMENT 1" VA026-001616P4	CHECK VALVE \$25,85
1"	
1" VA026-001616P4 1-1/2"	\$25,85
1" VA026-001616P4 1-1/2" VA026-002424P4 2"	\$25,85 \$31,27
1" VA026-001616P4 1-1/2" VA026-002424P4 2" VA026-003232P4 3"	\$25,85 \$31,27 \$45,08 \$80,61
1" VA026-001616P4 1-1/2" VA026-002424P4 2" VA026-003232P4 3" VA026-004848P4	\$25,85 \$31,27 \$45,08 \$80,61
1" VA026-001616P4 1-1/2" VA026-002424P4 2" VA026-003232P4 3" VA026-004848P4 D - FDA FL	\$25,85 \$31,27 \$45,08 \$80,61
1" VA026-001616P4 1-1/2" VA026-002424P4 2" VA026-003232P4 3" VA026-004848P4 D - FDA FLA 2" Trap alone EX204-000021U3 3" Trap alone	\$25,85 \$31,27 \$45,08 \$80,61 APPER \$18,46

EX200-000054U3KT

G - Floats H - Springs and hinge	S
E - REPLACEMENT O'RINGS FOR EXTRACT	ORS
6" orange silicone DV201-139006U2	\$4,62
8" orange silicone DV201-139008U2	\$5,62
12" orange silicone DV201-187012U2	\$11,04
20" orange silicone DV201-187020U2	\$11,69
F - REPLACEMENT TRAPS AND PARTS	
6" Replacement trap - Complete EX200-00001XX	\$75,65
6" Evacuation trap cover only EX200-000045XX	\$26,31
G - REPLACEMENT FLOATS	
4" Translucent fixed float EX205-000030XX	\$28,23
4" Translucent sliding float EX207-000027NX	\$30,15
7-1/2" Translucent float without rod guide EX315-000030XX	\$43,61
7-1/2" Translucent float, 1/8", rod guide (for Bernard reverse slope #520) EX315-020030NX	\$53,07
7-1/2" Translucent float, 1/4", rod guide (for extractor)	
EX315-040030NX 7-1/2" Translucent float, 5/8", rod guide	\$53,07
(for electric control with float #432) EX315-100030NX	\$53,19
H - REPLACEMENT SPRINGS AND HING	≣S
336-B	\$9,23

\$31,92







Stainless steel clip and hook





C - Extractor latches

A - ALUMINUM EXTRACTOR SUPPORT	RACK
3' x 1 to 12" (adjustable) EXO40-000003XX	\$80,77
4' x 1 to 12" (adjustable) EX040-000004XX	\$86,15
5' x 1 to 12" (adjustable) EX040-000005XX	\$97,69
6' x 1 to 12'' (adjustable) EXO40-000006XX	\$120,00
7-1/2' x 1 to 12" (adjustable) EXO40-000007XX	\$135,38
3' x 1 to 12" (adjustable) with base plate EX041-000003XX	\$116,15
4' x 1 to 12" (adjustable) with base plate EX041-000004XX	\$121,53
5' x 1 to 12" (adjustable) with base plate EX041-000005XX	\$133,07
6' x 1 to 12'' (adjustable) with base plate EX041-000006XX	\$159,99
7-1/2' x 1 to 12'' (adjustable) with base plate EX041-000007XX	\$175,38
Base plate only EX041-011428A2	\$40,77

B - VACUUM DRAINING VALVE	
Vacuum draining valve PM060-000001XX	\$137,69
Vacuum draining valve, magnetic contact PM060-000006XX	\$173,07
Vacuum draining valve, electric control PM060-000007XX	\$190,76

C - EXTRACTOR LATCHES	
Clasp kit for 12" cover for horizontal extractor EX213-000026S4 (only) EX213-000026KT (set of 2) Qty. 2	\$49,15 \$98,30
Clasp kit for 19" cover for horizontal extractor (set of 2) EX207-000041S4 (only) EX207-000041KT (set of 2) Qty. 2	\$58,46 \$116.92

STAINLESS STEEL CLIP AND HOOK	
D - Stainless steel clip (with screw) DV220-00001KT	\$8,73
E - Stainless steel hook for clip (with screw) DV220-000002KT	\$3,00

F - STAINLESS MANIFOLD STRAINER	
5-3/4" x 8-1/2" for manifold 6" x 9" EX260-092136S2	\$7,69
5-3/4" x 11-1/2" for manifold 6" x 12" EX260-092184S2	\$10,00
5-3/4" x 18" for manifold 6" x 18-1/2" EX260-092288S2	\$13,08
5-3/4" x 26-1/2" for manifold 6" x 27" EX260-092424S2	\$18,46
5-3/4" x 35-1/2" for manifold 6" x 36" EX260-092568S2	\$23,08
5-3/4" x 41-1/2" for manifold 6" x 42" EX260-092664S2	\$26,15
7-1/2" x 41-3/4" for manifold 8" x 42" EX260-120668S2	\$33,84
7-1/2" x 51-3/4" for manifold 8" x 52" EX260-120828S2	\$40,77
10" x 25-3/4" for manifold 12" x 24" EX260-160412S2	\$30,77
10" x 37-3/4" for manifold 12" x 36" EX260-160604S2	\$43,84
11" x 37-3/4" for manifold 12" x 36" EX260-184604S2	\$43,84

EXTRACTORS | TRANSFER TANK AND MANIFOLD



A - HORIZONTAL BULK TANK MANIFOLD	
Manifold 6" x 27"	¢222.70
EX100-000627XX	\$222,30

B - VERTICAL BULK TANK MANIFOLD		
EX101-001206XX	\$209,99	

C - HORIZONTAL VACUUM TRANSFER I	MANIFOLD
Manifold 6" x 12" RT010-000612XX	\$169,99
Manifold 6" x 18" RT010-000618XX	\$186,15
Manifold 6" x 27" RT010-000627XX	\$196,15
Manifold 6" x 36" RT010-000636XX	\$243,07
Manifold 6" x 42" RT010-000642XX	\$262,30
Manifold 6" x 48" RT010-000648XX	\$277,68

D - VERTICAL VACUUM TRANSFER TANK		
12" × 18" RT003-001218XX	\$222,30	
12" × 24" RT003-001224XX	\$249,99	
12" x 36" RT003-001236XX	\$258,45	

E - VERTICAL VACUUM TRANSFER TANK WITH FF	RAME
20" x 24" vertical booster tank with frame RT008-002024XX	\$643,05
20" x 36" vertical booster tank with frame RT008-002036XX	\$727,66

F - HORIZONTAL VACUUM TRANSFER TANK	
12" x 18" horizontal booster tank without frame RT001-001218XX	\$209,99
12" x 18" horizontal booster tank with frame RT002-001218XX	\$270,76
12" x 24" horizontal booster tank without frame RT001-001224XX	\$246,14
12" x 24" horizontal booster tank with frame RT002-001224XX	\$306,91
12" x 36" horizontal booster tank without frame RT001-001236XX	\$290,76
12" x 36" horizontal booster tank with frame RT002-001236XX	\$351,52

G - HORIZONTAL VACUUM TRANSFER TANK	
20" x 24" horizontal booster tank without frame RT001-002024XX	\$594,59
SS frame for 20" x 24" EX207-202409S5	\$115,38
20" x 36" horizontal booster tank without frame RT001-002036XX	\$703,82
SS frame for 20" x 36" EX207-203609S5	\$129,99





PRESSURE RELIEF ADAPTOR KIT	
PM010-000000SS	\$199,80

		LAPIERRE HIGH PRESSURE TRANSFER PUMP		
1/2 HP	7 Turbines	5 gal @ 100 PSI / 0 gal @ 130 PSI	PM012-080705XX	\$688,43
3/4 HP	11 Turbines	5 gal @ 135 PSI / 0 gal @ 185 PSI	PM012-121105XX	\$769,20
1 HP	14 Turbines	5 gal @ 200 PSI / 0 gal @ 255 PSI	PM012-161405XX	\$863,04
1-1/2 HP	17 Turbines	5 gal @ 230 PSI / 0 gal @ 300 PSI	PM012-241705XX	\$1060,73
1/2 HP	4 Turbines	10 gal @ 60 PSI / 0 gal @ 90 PSI	PM012-080410XX	\$652,28
3/4 HP	7 Turbines	10 gal @ 80 PSI / 0 gal @ 130 PSI	PM012-120710XX	\$704,59
1 HP	9 Turbines	10 gal @ 110 PSI / 0 gal @ 170 PSI	PM012-160910XX	\$793,81
1-1/2 HP	14 Turbines	10 gal @ 150 PSI / 0 gal @ 250 PSI	PM012-241410XX	\$999,96
2 HP	18 Turbines	10 gal @ 180 PSI / 0 gal @ 325 PSI	PM012-321810XX	\$1206,87
3/4 HP	6 Turbines	15 gal @ 70 PSI / 0 gal @ 130 PSI	PM012-120615XX	\$700,74
1 HP	8 Turbines	15 gal @ 100 PSI / 0 gal @ 150 PSI	PM012-160815XX	\$786,12
1-1/2 HP	10 Turbines	15 gal @ 100 PSI / 0 gal @ 190 PSI	PM012-241015XX	\$947,65
2 HP	14 Turbines	15 gal @ 150 PSI / 0 gal @ 260 PSI	PM012-321415XX	\$1153,80
3 HP	17 Turbines	15 gal @ 180 PSI / 0 gal @ 325 PSI	PM012-481715XX	\$1076,88
3/4 HP	6 Turbines	20 gal @ 65 PSI / 0 gal @ 100 PSI	PM012-120620XX	\$704,59
1 HP	7 Turbines	20 gal @ 75 PSI / 0 gal @ 115 PSI	PM012-160720XX	\$769,20
1-1/2 HP	8 Turbines	20 gal @ 90 PSI / 0 gal @ 130 PSI	PM012-240820XX	\$915,35
2 HP	11 Turbines	20 gal @ 120 PSI / 0 gal @ 175 PSI	PM012-321120XX	\$1113,80
3 HP	14 Turbines	20 gal @ 175 PSI / 0 gal @ 235 PSI	PM012-481420XX	\$1036,88
5 HP	20 Turbines	20 gal @ 285 PSI / 0 gal @ 430 PSI	PM012-802020XX	\$1534,55
3/4 HP	4 Turbines	25 gal @ 45 PSI / 0 gal @ 65 PSI	PM012-120425XX	\$672,28
1 HP	5 Turbines	25 gal @ 55 PSI / 0 gal @ 85 PSI	PM012-160525XX	\$736,89
1-1/2 HP	8 Turbines	25 gal @ 70 PSI / 0 gal @ 112 PSI	PM012-240825XX	\$915,35
2 H	10 Turbines	25 gal @ 105 PSI / 0 gal @ 160 PSI	PM012-321025XX	\$1093,80
3 HP	12 Turbines	25 gal @ 140 PSI / 0 gal @ 200 PSI	PM012-481225XX	\$1067,65
5 HP	21 Turbines	25 gal @ 240 PSI / 0 gal @ 340 PSI	PM012-802125XX	\$1538,40

GOULDS PUMPS

All the listed pumps are 120/240 Volts single phase Also available: 208/230/460/575 Volts three phase.



1/2 HP 1 ST 20 gal @ 20 PSI / 0 gal @ 28 PSI PM020-000008XX
1/2 TIF 131 20 gai @ 20 F31 / 0 gai @ 20 F31 FM020-000008X
3/4 HP 1 ST 35 gal @ 20 PSI / 0 gal @ 35 PSI PM020-000012XX
1 HP 1 ST 40 gal @ 25 PSI / 0 gal @ 45 PSI PM020-000016XX
1-1/2 HP 1 ST 40 gal @ 35 PSI / 0 gal @ 52 PSI PM020-000024XX
2 HP 1 ST 40 gal @ 40 PSI / 0 gal @ 62 PSI PM020-000032XX
3 HP 1 ST 45 gal @ 50 PSI / 0 gal @ 70 PSI PM020-000048XX
1 HP 2 ST 70 gal @ 15 PSI / 0 gal @ 20 PSI PM022-000016XX
1-1/2 HP 2 ST 85 gal @ 20 PSI / 0 gal @ 30 PSI PM022-000024XX
2 HP 2 ST 90 gal @ 25 PSI / 0 gal @ 35 PSI PM022-000032XX
3 HP 2 ST 100 gal @ 30 PSI / 0 gal @ 45 PSI PM022-000048XX
5 HP 2 ST 105 gal @ 45 PSI / 0 gal @ 60 PSI PM022-000080XX
1-1/2 HP 3 ST 90 gal @ 15 PSI / 0 gal @ 22 PSI PM023-000024XX
2 HP 3 ST 100 gal @ 20 PSI / 0 gal @ 27 PSI PM023-000032XX
3 HP 3 ST 110 gal @ 30 PSI / 0 gal @ 36 PSI PM023-000048XX

	GOULDS PUMP LB SERIES	
1/2 HP	20 gal @ 25 LB / 5 gal @ 45 LB / 0 gal @ 55 LB	PM019-000008XX
1 HP	20 gal @ 40 LB / 5 gal @ 75 LB / 0 gal @ 80 LB	PM019-000016XX



Banjo filter 3/4"	PM061-001212XX	\$27,46
Banjo filter 1"	PM061-001616XX	\$61,46
Banjo filter 1-1/4"	PM061-002020XX	\$31,54
Banjo filter 1-1/2"	PM061-002424XX	\$65,31
Banjo filter 2"	PM061-003232XX	\$65,31



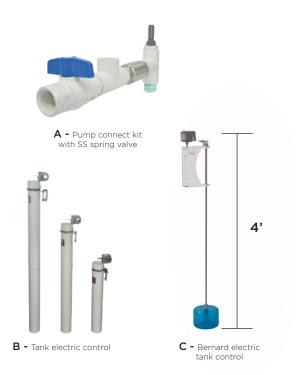
8" Replacement U-cup not included (for all sizes) DV200-000875XX

SINGLE ACTION WITH SINGLE VACUUM CYLINDER		
300 USG/Hr @ 66'/elevation or 30 psi @ 20 in PM015-000101XX	/Hg \$688,43	
DV200-001001KT Replacement seal kit	\$20,31	

SINGLE ACTION WITH DUAL VACUUM CYLINDE	R
225 USG/Hr @ 132'/elevation or 60 psi @ 20 in/Hg PM015-000102XX	\$829,97
DV200-002001KT Replacement seal kit	\$24,38

DUAL ACTION WITH SINGLE VACUUM CYLINDE	R
450 USG/Hr @ 66'/elevation or 30 psi @ 20 in/Hg PM015-000201XX	\$829,97
DV200-001002KT Replacement seal kit	\$26,46

DUAL ACTION WITH DUAL VACUUM CYLINDE	R
340 USG/Hr @ 132'/elevation or 60 psi @ 20 in/Hg PM015-000202XX	\$951,50
DV200-002002KT Replacement seal kit	\$30,54



A - 1" PUMP CONNECT KIT SS SPRING VALVE	WITH
PM405-010016XX	\$51,77

B - TANK ELECTRIC CONTROL		
24" BA401-000024XX	\$160,15	
36" BA401-000036XX	\$162,69	
48" BA401-000048XX	\$165,38	
54" BA401-000054XX	\$167,65	
60" BA401-000060XX	\$168,84	

C - BERNARD ELECTRIC TANK CONTROL COMPLETE WITH FLOAT	
432 48"	\$193,84
432-60 60"	\$195,72
432-72 72"	\$200,34

ELECTRODE PUMP CONTROL (ON SS TANK
BA395-000060XX	

Comparative Table of Technologies Available on the Maple Sugaring Market

	ADVANTAGES	RISKS/DISADVANTAGES
Oil-lubricated rotary vane vacuum pumps	 Vacuum level of 29.9" Hg Wide range of flow rates Constant flow rate from the atmospheric pressure to the end vacuum Simple design Quiet operation 	 Risk of oil contamination by sap Risk of oil expulsion between 0-20" Hg Maintenance: Frequent oil and filter changes Wear of vanes if maintenance is faulty
Dry claw vacuum pumps	> Vacuum level of 28.4" Hg > Constant flow rate from the atmospheric pressure to the end vacuum > Constant flow rate over time (no wear parts) > Simple design > Quiet operation > Proven technology in maple syrup production Maintenance: - Almost non-existent - No fluid in the compression chamber	> More limited vacuum level on models over 130 CFM (27" or 25.5" Hg)
Dry-running rotary vane vacuum pumps	> Simple design > Quiet operation	Nacuum level limited to 25.5" Hg Low capacity vs power output (less CFM for the same HP) Capacity loss of up to 30% because of vane wear Risk of clogging with the mixture of maple sap vapors, sugar and carbon powder Maintenance: Frequent and expensive vane changes
Liquid ring vacuum pumps	> Vacuum level of 28.9" Hg (double stage) > Wide range of flow rates > Quiet operation > Tolerant to maple sap Maintenance: - Almost non-existent	Low capacity vs power output (less CFM for the same HP) Variable performance based on water temperature Water consumption Complex oil recirculation system
Lubricated screw vacuum pumps	> Vacuum level of 29.9" Hg> Wide range of flow rates> Quiet operation	Variable performance Actual consumption higher than the motor power rating Complex design with multiple components at greater risk of failure Electronic system often required for operation Risk of oil contamination from maple sap Maintenance: Frequent oil changes and part replacement Complex and expensive on-site maintenance

THE VACUUM PUMP EVERY SUGARMAKER TALKS ABOUT, BUILT FOR HIGH VACUUM!



VACUUM SOLUTIONS

- Rotary claws dry pump;
- No friction;
- · Air cooled, no water or oil:
- Pollution free clean operation:
- Simple construction yet robust;
- Minimal maintenance;
- Can operate via VFD;
- Very low electrical consumption;
- Very low noise operation.





PROGRESSIVE START VARIABLE SPEED DRIVE

- Can be hooked-up to any existing auto start and stop system;
- No need for external magnetic starter;
- Manual RPM adjustment;
- Progressive start to eliminate high power peaks;
- Convert single phase power to 3 phase;
- Electrical hook-up should be handled by a certified electrician.

BASE ON CASTERS
(BUSCH VACUUM PUMP)
0040

PM420-004000D1	\$270,64
Base for 1102, 1142, 1144 PM420-110200D1	\$275,26
Base for 1252, 1322 PM420-125200D1	\$276,49

Base on casters for our Busch R5 pumps now available.

BASE ON CASTERS (BUSCH R5 MODEL)	
Base for R0025, R0040 PM430-025040D1	\$284,41
Base for R0063, RA100 PM430-063100D1	\$292,41
Base for R0165, R0205, R0255 R0305 PM430-165305D1	\$295,07



FILTER IN WASHABLE FABRIC

FABRIC





GEAR BOX OIL, 1 LITER	
(BUSCH MINK VACUUM PUMPS)	

PM327-164883XX	\$24,11
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HOOKS LUBRICANT, 500 ML (BUSCH VACUUM PUMP)	
PM428-034500ML	\$11,12

SPARE AIR FILTER CARTRIDGE (BUSCH VACUUM PUMP)

MM1144, MV0040B, RA0025 and RA0040 pump PM325-532002XX	\$24,42
MM1142, MM1102, RA0063 and RA0100 pump PM325-532003XX	\$48,88
MM1252, MM1322, RA0165, RA0205, RA0255 and RA0305 pump PM325-532004XX	\$61,11
RC0021 pump PM325-532005XX	\$17,46

BUSCH VACUUM PUMPS ARE AVAILABLE IN 3 DIRECT DRIVE CONFIGURATIONS:

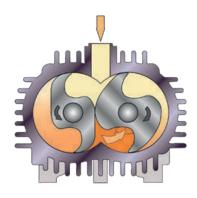
Single phase motors with fixed speed. Three phase 230/460 or 575 volts, can use a variable frequency drive for energy consumption reduction up to 50%, and lower amp requirements to start the pump.



MINK BUSCH PUMP MV0040B Intake filter assembly and adaptor included PM120-004001XX

PUMP MM1144BV	29 CFM @ 15" (N	29 CFM @ 15" (MAX. : 28,5 IN/HG)	
Single phase motor	220 Volts / 3 HP	PM120-114403XX	
3 phase motor	230 / 460 Volts / 3 HP	PM121-114402XX	
3 phase motor	575 Volts / 3 HP	PM121-114402AX	
Progressive start control	1 PH 220 V to 3 PH 230 / 460 V	PM421-114402XX	
Connection kit for progressive start	Miscellaneous parts	EL421-114400XX	

PUMP MM1102BV	40 CFM @ 15" (MAX. : 28,5 IN/HG)	
Single phase motor	220 Volts / 5 HP	PM120-110205XX
3 phase motor	230 / 460 Volts / 5 HP	PM121-110203XX
3 phase motor	575 Volts / 5 HP	PM121-110203AX
Progressive start control	1 PH 220 V à 3 PH 230 / 460 V	PM421-110205XX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX





VACUUM SOLUTIONS

Includes exhaust flap, lubrication valve, intake filter. Electrical hook-up should be handled by a certified electrician. The connection kit for progressive start includes everything needed to connect the vacuum pump to the controller. Cable 8'.

PUMP MM1142BV	52 CFM @ 15" (MAX. : 28,5 IN/HG)	
Single phase motor	220 Volts / 7,5 HP	PM120-114207XX
3 phase motor	230 / 460 Volts / 7,5 HP	PM121-114204XX
3 phase motor	575 Volts / 7,5 HP	PM121-114204AX
Progressive start control	1 PH 220 V to 3 PH 230 / 460 V	PM421-114204XX
Progressive start control	575 Volts / 7,5 HP	PM421-114204AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX

PUMP MM1252AV	83 CFM @ 15" (MAX. : 27 IN/HG)	
Single phase motor	220 Volts / 10 HP	PM120-125210XX
3 phase motor	230 / 460 Volts / 7,5 HP	PM121-125205XX
3 phase motor	575 Volts / 7,5 HP	PM121-125205AX
Progressive start control	1 PH 220 V to 3 PH 230 / 460 V	PM421-125205XX
Progressive start control	575 Volts / 7,5 HP	PM421-125205AX
Connection kit for progressive start	Miscellaneous parts	EL421-125200XX

PUMP MM1322AV	100 CFM @ 15" (MAX. : 25,5 IN/HG)	
Single phase motor	220 Volts / 12,5 HP	PM120-132212XX
3 phase motor	230 / 460 Volts / 10 HP	PM121-132206XX
3 phase motor	575 Volts / 10 HP	PM121-132206AX
Progressive start control	1 PH 220 V to 3 PH 230 / 460 V	PM421-132206XX
Progressive start control	575 Volts / 10 HP	PM421-132206AX
Connection kit for progressive start	Miscellaneous parts	EL421-132200XX

BUSCH R5

Since 1963, Busch Vacuum Technics has been manufacturing the most efficient and robust vacuum pumps in the industry. Being the first to manufacture and optimize oil-lubricated rotary vane pumps as we know them today, Busch R 5 vane pumps are still today considered the industry benchmark because of their robustness and high operational reliability. More than 3 million of R 5 vacuum pumps are now used worldwide for a variety of demanding industrial applications. Their high efficiency at low vacuum, their energy efficiency and the effi-



ciency of the the exhaust box filtration system invented by Dr. Ing. Karl Busch make this pump a powerful and reliable equipment for maple producers who want to operate at low vacuum. Initially developed for the food industry, the Busch R 5 pumps has a high tolerance to water vapor, an optimal low energy consumption and air flow over the entire vacuum range.

Includes with BUSCH R5 Vacuum pump: exhaust flap, intake filter. Electrical hook-up should be handled by a certified electrician. The connection kit for progressive start includes everything needed to connect the vacuum pump to the controller. Cable 8'.

PUMP R0021 (OIL 2L)	6 CFM @ 15" (MAX.: 29,3 IN/HG)
Single phase motor	110/220V / 1,2 HP	PM130-002101XX
PUMP R0025 (OIL 2L)		MAX.: 29,9 IN/HG)
Single phase motor	110/220V / 1,5 HP	PM130-002501XX
3 phase motor	230 / 460 Volts / 1,5 HP	PM131-002501XX
3 phase motor	600 Volts / 1,5 HP	PM131-002501AX
Progressive start control	220V 1PH to 230/460V 3PH	PM421-002501XX
Progressive start control	600V 3PH to 600V 3PH	PM421-006303AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX
PUMP R0040 (OIL 2L)	14 CFM @ 15" ((MAX.: 29,9 IN/HG)
Single phase motor	110/220V / 2 HP	PM130-004002XX
3 phase motor	230 / 460 Volts / 2 HP	PM131-004002XX
3 phase motor	600 Volts / 2 HP	PM131-004002AX
Progressive start control	220V 1PH à 230/460V 3PH	PM421-006303XX
Progressive start control	600V 3PH à 600V 3PH	PM421-006303AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX
DUMP BOOKS (OU ZL)	27. CFM ≈ 152	(MAX + 20 0 IN /UC)
PUMP RO063 (OIL 3L)	· · · · · · · · · · · · · · · · · · ·	(MAX.: 29,9 IN/HG)
Single phase motor	220 Volts / 3 HP	PM130-006303XX
3 phase motor	230 / 460 Volts / 3 HP	PM131-006303XX
3 phase motor	600 Volts / 3 HP	PM131-006303AX
Progressive start control	220V 1PH à 230/460V 3PH	PM421-006303XX
Progressive start control	600V 3PH à 600V 3PH	PM421-006303AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX

PUMP R0100 (OIL 3L)	36 CFM @	0 15" (MAX.: 29,9 IN/HG)
Single phase motor	220 Volts / 5 HP	PM130-010005XX
3 phase motor	230 / 460 Volts / 5 HP	PM131-010005XX
3 phase motor	600 Volts / 5 HP	PM131-010005AX
Progressive start control	220V 1PH to 230/460V 3PH	PM421-010005XX
Progressive start control	600V 3PH to 600V 3PH	PM421-010005AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX
PUMP R0165 (OIL 7L)	58 CFM @	15" (MAX.: 29,9 IN/HG)
Single phase motor	220V / 7,5 HP	PM130-016507XX
3 phase motor	230 / 460 Volts / 7,5 HP	PM131-016507XX
3 phase motor	600 Volts / 7,5 HP	PM131-016507AX
Progressive start control	220V 1PH to 230/460V 3PH	PM421-016507XX
Progressive start control	600V 3PH to 600V 3PH	PM421-016507AX
Connection kit for progressive start	Miscellaneous parts	EL421-125200XX
PUMP R0205 (OIL 7L)	65 CFM @	15" (MAX.: 29,9 IN/HG)
Single phase motor	220V / 7,5 HP	PM130-020507XX
3 phase motor	230 / 460 Volts / 7,5 HP	PM131-020507XX
3 phase motor	600 Volts / 7,5 HP	PM131-020507AX
Progressive start control	220V 1PH to 230/460V 3PH	PM421-020507XX
Progressive start control	600V 3PH to 600V 3PH	PM421-020507AX
Connection kit for progressive start	Miscellaneous parts	EL421-125200XX
PUMP R0255 (OIL 7L)	85 CFM @	15" (MAX.: 29,9 IN/HG)
Single phase motor	220V / 10 HP	PM130-025510XX
3 phase motor	230 / 460 Volts / 10 HP	PM131-025510XX
3 phase motor	600 Volts / 10 HP	PM131-025510AX
Progressive start control	220V 1PH to 230/460V 3PH	PM421-025510XX
Progressive start control	600V 3PH to 600V 3PH	PM421-025510AX
Connection kit for progressive start	Miscellaneous parts	EL421-132200XX
PUMP R0305 (OIL 7L)	98 CFM @	15" (MAX.: 29,9 IN/HG)
3 phase motor	230 / 460 Volts / 10 HP	PM131-030510XX
Progressive start control	230V 1PH to 230/460V 3PH	PM421-030510XX
Connection kit for progressive start	Miscellaneous parts	EL421-132200XX
PUMP R0400, 20HP		MAX.: 29,9 IN/HG) ESENTATIVE FOR DETAILS
PUMP R0630, 25HP	228 CFM @ 15" (SEE YOUR SALES REPRE	MAX.: 29,9 IN/HG)

OIL LUBRI	CANT R5 PUMP	
Oil R-530S (1 L)	PM328-000001SX	\$7,23
Oil R-530 (20 L)	PM328-000020XX	\$134,61
Oil R-580 (1 L) for model 0021 only	PM328-580001XX	\$28,00
OIL FILTER	R FOR R5 PUMP	
Model 0160, 0165, 0205, 0250, 0255 & 0305	PM329-531001XX	\$34,31
Model 0025, 0040, 0063 & 0100	PM329-531002XX	\$13,15
EXHAUST FILTER	KIT FOR THE R5 PUMP	
Model 0021	PM329-993120XX	\$83,35
Model 0025, 0040	PM329-993134XX	\$149,65
Model 0063	PM329-993194XX	\$195,75
Model 0100	PM329-993902XX	\$177,75
Model 0165, 0205 & 0255	PM329-993908XX	\$508,40

Did You Know That:

1 Nature may abhor a vacuum, but maple producers don't

The job of a vacuum pump is to reduce the amount of air in a tubing network. Removing the air reduces the pressure. What we measure in "Hg is the pressure difference between the ambient air and the interior of the network. Nature works hard to fill the void by pushing air from a high pressure to a low pressure. It is this pressure difference, applied through the tree, that increases sap chemistry.

2 Best vacuum, best sap production

According to a study by the University of Vermont*, a better vacuum can save up to 5% more maple sap per additional "Hg without any negative effect on water chemistry, sugar content or the tree's health.

3 Vacuum level matters, especially at the tree!

Measure the vacuum level difference between the end of your lines and your releaser when sap runs. For every extra "Hg between the two, another 5% of production is lost."

4 Small leaks become very large under vacuum

The better the vacuum, the more space is taken up by air. Leaks of 1 CFM at 15" Hg become 3 CFM at 25" Hg, 5 CFM at 27" Hg and 15 CFM at 29" Hg. This means leaks become 3, 5 or 15 times bigger under vacuum, which involves just as many more steps in the woods to repair them.

5 The optimal vacuum level for maple syrup production is between 25" and 27" Hg

A vacuum pump that reaches 29" Hg is easy to find. A network that can maintain 29" Hg during production and throughout the season is much more difficult and expensive to achieve, even unrealistic in most cases. As a result, a 25-27" Hg vacuum is the best option for maximizing your maple sap production at reasonable network costs.

6 At high altitudes, there is less air to remove

If we are at altitude, the barometric pressure is lower. The pressure reserve is also lower, so we can create a smaller pressure difference with a vacuum. Regardless of the vacuum pump, we inevitably lose about 1" Hg per 1,000 feet of altitude.

7 The largest pump in the world will never replace leak checking

With an oversized pump, it is possible to reach a good vacuum level without having to repair leaks in the network. However, this is strongly discouraged. Leaving too many leaks could freeze and block the tubing lines.



LAPIERRE EQUIPMENT QUALITY ASSEMBLY

Single stage

Single stage up to 25.5 in/Hg



3404	
Sibi numn SS turbing 20 CEM @ 15 in/Ha with 3HP motor frame coupling and shield	PM106-003404S6

3408		
Sihi pump, SS turbine, 38 CFM @ 15 in/Hg with 5HP motor, frame, coupling and shield	PM106-003408S6	

OPTIONS (3404 AND 3408)			
Connection fittings	PM108-003404XX	\$215,38	
Muffler 1-1/2"	PM465-000305XX	\$25.77	

40412		
Sihi pump, SS turbine, 62 CFM @ 15 in/Hg with 7,5HP motor, frame, coupling and shield	PM106-040412S6	
Connection fittings	PM108-040412XX	\$242,30
Muffler 2"	PM465-000007XX	\$26,92

40517		
Sihi pump, SS turbine, 82 CFM @ 15 in/Hg with 10HP motor, frame, coupling and shield	PM106-040517S6	
Connection fittings	PM108-040517XX	\$303,83
Muffler 1-1/2"	PM465-000010XX	\$53,61



SIHI pump available with progressive start variable speed drive.

Close coupled single stage

Close-coupled single stage up to 27.5 in/Hg



LEMR 20 1HP			
6,75 CFM @ 15 in/Hg	PM110-000020S6		
Connection fittings	PM108-000020XX	\$151,57	

L	EMR 15 3/4HP	
3,5 CFM @ 15 in/Hg	PM110-000015S6	
Connection fittings	PM108-000015XX	\$148,65

LEMR 40 2HP			
12 CFM @ 15 in/Hg	PM110-000040S6		
Connection fittings	PM108-000040XX	\$157,69	

Double stage

Double stage up to 28.5 in/Hg



3704		
Sihi pump, SS turbine, 18 CFM @ 15 in/Hg with 5HP motor, frame, coupling and shield	PM106-003704S6	

3708		
Sihi pump, SS turbine, 35 CFM @ 15 in/Hg with 7.5HP motor, frame, coupling and shield	PM106-003708S6	

OPTIONS (3704 AND 3708)			
Connection fittings	PM108-003404XX	\$215,38	
Muffler 1-1/2"	PM465-000305XX	\$25,77	

	P11403-000303XX	ΨZJ,//			
			••		
		453	12		
Sihi pump, SS turbine, 4	6 CFM @ 15 in/Hg with	7,5HP motor	; frame,		
coupling and shield				PM106-045312	56
Connection fittings				PM108-040412	XX \$242,30
Muffler 2"				PM465-000007	7XX \$26,92
		453	17		
Sihi pump, SS turbine, 5	4 CFM @ 15 in/Hg with 1	10HP motor,	frame,		
coupling and shield				PM106-045317S	6
Connection fittings				PM108-045317X	X \$242,30
Muffler 2"				PM465-000007	XX \$26,92

SERVICE LIQUID TANK (FOR LIQUID RING VACUUM PUMP)

18" x 36" x 34" 66 gal (79 USG) (comes with overflow pipe) BA001-180334S3





GUZZLER ELECTRIC SINGLE DIAPHRAGM PUMP GE-0401N

3/4 - 11/4", 115 V, 22Hg, up to 400 taps

PM007-040116NX

Service kit (diaphragm & flapper valves)

PM407-000017XX



VACUUM REGULATOR

Vacuum regulator 1-1/2"

PM400-000001XX

(Fits on 1-1/2" male and 2" female) \$56,46

High flow vacuum regulator

PM400-000002XX \$78,46

SUPPORT FOR SIHI VACUUM PUMP (WALL MOUNTING)

Set of 2 (16" x 16") **PMO25-321616XX** \$76,27



GUZZLER ELECTRIC DOUBLE DIAPHRAGM PUMP G2-0501N

1 1/4", 115 V, 22Hg, up to 800 taps

PM008-050116NX

Service kit (diaphragm & flapper valves)

PM408-000017FX



BERNARD AUTOMATIC START

E - Auto start for 1 vacuum pump with collection tank (requires clear check valve)

518-B \$701,51

Auto start for 2 vacuum pumps with collection tank
518-B-2V

F - Bernard automatic start and stop for vacuum pump on electric sap extractor

518-RE-1P1V \$399,98

\$843,04







D	-	CFM	tester

C - BERNARD HUMIDITY TRAP	
Built-in lateral water sight level and drain (electric switch included)	
507-D	\$446,91

D - CFM TESTER	
PM199-000001KT	\$180,76

VACUUM OIL

68 high performance 18.9 L (5 USG)

DV461-006818XX

100 flood 18,9 L (4,99 USG)

DV461-010018XX



AUTO/OFF/ON)	
3 HP PM380-00003XX	\$371,79
5 HP PM380-00005XX	\$403,83
7,5 HP PM380-000007XX	\$461,52
10 HP PM380-000010XX	\$499,98

MAGNETIC STARTER (240 VOLTS, 1PH,



3 -	Horizontal	humidity	tran	Н-
_	HUHZUHLAI	Hullillalty	uap	

- Vertical humidity trap

I - Control temperature connexion

G - HORIZONTAL HUMIDITY TRAP	
12" × 27" TH001-001227XX	\$426,14
12" × 36" TH001-001236XX	\$455,37

H - VERTICAL HUMIDITY TRAP	
2" ball TH002-000002NX	\$309,22
3" ball TH002-00003NX	\$313,06

I - CONTROL TEMPERATURE CONNEXION F DRIVE AND MAGNETIC STARTER (120 VOLT	
EL521-419001XX	\$122,96



\$617,67

B - 3/4" VACUUM BREAKER VALVE	
TH060-120001XX	\$118,23
With options (valve, elbow and nipple) TH060-120001KT	\$120,03

A COMPLETE RANGE OF SS STORAGE TANKS

- Made with first grade materials;
- Structural metal chosen according to tank size to satisfy the most demanding sugarmakers;
- Side reinforcement bars made to strenghten the sides when tank is full to the top (4 feet and bigger);
- All aluminum frames on 3' x 4' and smaller storage tanks;
- Full steel structure on 4' x 6' tanks and up.



18" WIDE	IMP G.	USG	LITERS	BRIGHT ANNEALED 304-BA
18" x 4' x 26-1/4"	63	76	288	BA001-180426S3
18" x 4' x 34"	88	105	397	BA001-180434S3

2' WIDE	IMP G.	USG	LITERS	BRIGHT ANNEALED 304-BA
2' x 4' x 29"	98	117	443	BA001-020429S3
2' x 4' x 41"	148	177	670	BA001-020441S3

3' WIDE	IMP G.	USG	LITERS	BRIGHT ANNEALED 304-BA
3' x 4' x 36-3/4"	193	231	874	BA001-030436S3
3' x 8' x 24"	217	260	984	BA001-030824S3
3' × 8' × 37-1/2"	385	462	1749	BA001-030837S3
3' x 8' x 49-1/2"	535	642	2430	BA001-030849S3
3' × 12' × 37-1/2"	578	693	2623	BA001-031237S3
3' x 12' x 49-1/2"	802	963	3645	BA001-031249S3

NO SPACER NEEDED TO CONNECT TO DRAIN FITTINGS

Our special design gives you clearance.

STANDARD TANK DRAIN OUTLETS:

Up to 8 feet long: 1-1/2" More than 8 feet long: 2"



Overflow od drain welded in the tank. See page 64.

Option 3" outlet instead of 2" on tank 5', 6' and 7-1/2' wide.

Contact your Lapierre representative for more information.

*Important: the tank will be 2" higher if outlet of 3",





4' WIDE	IMP. G	USG	LITERS	BRIGHT ANNEALED 304-BA
4' x 4' x 33-1/4"	216	259	980	BA001-040433S3
4' x 4' x 45-1/4"	316	379	1435	BA001-040445S3
4' x 8' x 33-1/4"	432	519	1964	BA001-040833S3
4' x 8' x 45-1/4"	632	758	2869	BA001-040845S3
4' x 8' x 52-3/4"	757	908	3437	BA001-040852S3
4' x 12' x 33-1/4"	648	778	2945	BA001-041233S3
4' x 12' x 45-1/4"	948	1137	4304	BA001-041245S3
4' x 12' x 52-3/4"	1135	1362	5156	BA001-041252S3
4' x 16' x 33-1/4"	864	1037	3925	BA001-041633S3
4' x 16' x 45-1/4"	1264	1516	5739	BA001-041645S3
4' x 16' x 52-3/4"	1513	1816	6874	BA001-041652S3
4' x 20' x 45-1/4"	1580	1896	7177	BA001-042045S3
4' x 20' x 52-3/4"	1892	2270	8593	BA001-042052S3



SAP TREATMENT ANALYSIS

TO ELIMINATE BUD TASTE IN MAPLE SYRUP

Syrup with a bud taste (buddy flavoured syrup) is difficult to market under current sales conditions. This lack of popularity is also reflected in the price offered for this type of syrup in the marketing agreement: \$1.80/lb if it is pasteurized and \$1.25/lb if it is not. The latter option was tested for the 2019 harvest following favourable market responses observed during the release of a special sales statement issued by the Producteurs et produrices acéricoles du Québec (PPAQ). Despite this market development work, some maple syrup producers and maple syrup advisors are working to modify their end-of-season maple syrup in order to improve its organoleptic properties and avoid bud syrup production. While these efforts are admirable, it appears that they create more problems than they solve. The practices described below have led maple syrup buyers to be wary of certain categories of defects. It is in this context that the Centre ACER was called upon to study certain prevention techniques used in the field or found in the scientific literature of the food and maple syrup industry.

What causes the buddy flavour?

Before working to eliminate a problem, it is generally necessary to understand its cause in order to effectively address it. Thus, work analyzing the physicochemical properties of sapleading to the production of a bud-flavoured maple syrup has been carried out by the Centre ACER as well as by Laval University. This work has identified a strong correlation between the presence of amino acids and buddy flavour and has linked these amino acids to the removal of maple dormancy.

It should be noted that any approach to prevent the development of buddy flavour should have a significant effect on amino acids given the link between these compounds in sap and this particular flavour in maple syrup.

How to identify buddy syrup?

In order to be able to describe buddy syrup in a quantitative way, it appeared necessary to identify a chemical marker of buddy flavour. This chemical marker alone does not explain the buddy flavour, but its presence in maple syrup allows it to be classified as a bud in an almost systematic way. The molecule identified as a chemical marker of buddy flavour by researchers at the Centre ACER is dimethyl disulphide, also known as DMDS. Therefore, the more abundant the DMDS is in a maple syrup, the more pronounced the buddy flavour.

What is the "treatment" of sap or sap concentrate?

The treatment of sap or sap concentrate consists of any procedure applied to the sap that deviates from standard production practices (harvesting, concentration and evaporation in a relatively short time). In this case, these practices are performed to prevent the development or mask the taste of buds in maple syrup. The field practices we studied generally involve an aeration or mixing mechanism to increase the oxygen content of the sap in order to promote the development of microorganisms in it or to oxidize certain components. This practice may also be aimed at developing inverted sugars in sap or sap concentrate. It is important to note here that these practices were developed when information on the relationship between amino acids was not yet known; rather, they were intended to address a perceived link in the field between bud syrup production and the conditions typical of high-performance maple groves:

- waterproof and high vacuum operated harvesting system;
- very clean collection and processing system:
- quick processing of sap into maple syrup.

In practice, the sap treatments developed in the field generally involve recirculation of the sap or sap concentrate by means of a pump. This recirculation can be done through perforated pipes, degassing columns from the fishing industry or fountains. The use of the air injector in sap tanks has also been reported, but this practice seems to us to be the most problematic given the issue related to the quality of the air used to supply these devices.

Research projects

In order to study the effect of sap and sap

maple syrup resulting from the application of these techniques, three projects have been set up:

Laboratory study: This study analyzed several types of treatments, including various aeration and recirculation patterns with or without interaction with microorganisms. All this was done under highly controlled laboratory conditions, on sap that reliably produced a low buddy syrup. Various levels of dissolved oxygen and inverted sugar were obtained during these processes. All treatments were repeated twice to validate their reliability and physicochemical and sensory analyses of the maple syrups produced made it possible to properly characterize the situation.

Case study: This study found the effects of a treatment on sap concentrates at different Brix as applied by a maple syrup producer. Various high flow recirculation times in the concentrate tank were applied by the producer. To confirm the effectiveness of the treatment, a sample of maple syrup was produced in a small cauldron before the treatment was applied; it was then possible to confirm its effectiveness by comparing the syrup produced following aeration with the non-aerated control. Maple syrups were subjected to physicochemical and sensory analyses and a 6-month stability study.

Exploratory study: This study, conducted in partnership with a maple syrup consultant, resulted in the harvesting of several mid-season and late season maple syrups. These have been produced with different techniques to prevent the development of the buddy flavour, including aeration and modulation of the evaporator parameters to increase the residence time in the evaporator. The maple syrups were harvested by the consultant and then analyzed by the Centre ACER in the context of a stability study. Thus, physicochemical and sensory analyses were carried out upon receipt, following pasteurization (to allow stable storage at room temperature and to measure the effect of this production step) and after 6 months of storage.

What can be concluded from the effect of aeration/fermentation techniques for sap or sap concentrate on the quality of maple syrup

The projects presented above studied the effects of sap aeration or sap concentrate on the production of maple syrup with low intensity buddy flavours and relatively low DMDS

levels. The treatments studied sometimes had a downward effect on the amino acid and DMDS content in syrups, but did not eliminate them completely. Also, these treatments could occasionally, but not repeatedly, modify the flavour rating of the syrup compared to the control (most often from $\sqrt{R5}$ to $\sqrt{R4}$ when there were changes). This lack of repeatability makes it possible to affirm that the treatments used in the field are poorly configured and poorly controlled.

Furthermore, the syrups studied presented a new problem: the reappearance of the buddy flavour after a relatively short storage period (6 months). In summary, some of the syrups produced using the aeration techniques studied had a non-bud flavour rating (OK, √, √R1 or $\sqrt{R4}$) at the outlet of the evaporator while they tasted buddy after a few months of storage. Although it is impossible to quantify this instability reliably to date, the exploratory study nevertheless makes it possible to affirm that this problem is very real and not negligible. In fact, 3% of the 96 syrups received in this study tasted buddy when they were received. This proportion increased to 13% after pasteurization and 6 months of storage. Other occurrences of a return of the buddy flavour following the sale of the syrup have been reported; this change in taste during storage has already led to a product recall.

Given the limited effect of sap treatments on amino acids (presumed precursors of bud taste), the lack of repeatability of treatments reflecting poorly defined treatment parameters and the instability of the flavour produced using these techniques, it is impossible for the Centre ACER to recommend this approach at this time. However, research is continuing to better understand buddy syrup and the factors leading to its production in an effort to find a solution to this problem.

Author: Martin Pelletier, Ing. f. (Forest Engineer) in collaboration with Fadi Ali, Eng., Ph. D., Luc Lagacé, Ph. D. and Nathalie Martin, Chemist, Ph. D.



- Superior quality construction;
- Heavy duty structure;
- Extra structure to minimize support points.



5' WIDE	IMP. G	USG	LITERS	BRIGHT ANNEALED 304-BA
5' x 8' x 29-1/4"	438	525	1987	BA001-050829S3
5' x 8' x 41-1/4"	687	824	3119	BA001-050841S3
5' x 8' x 50-1/2"	879	1055	3994	BA001-050850S3
5' x 8' x 64-1/4"	1165	1398	5292	BA001-050864S3
5' x 12' x 29-1/4"	656	788	2983	BA001-051229S3
5' x 12' x 41-1/4"	1031	1237	4683	BA001-051241S3
5' x 12' x 50-1/2"	1319	1583	5992	BA001-051250S3
5' x 12' x 64-1/4"	1748	2098	7942	BA001-051264S3
5' x 16' x 29-1/4"	875	1050	3975	BA001-051629S3
5' x 16' x 41-1/4"	1374	1649	6242	BA001-051641S3
5' x 16' x 50-1/2"	1759	2111	7991	BA001-051650S3
5' x 16' x 64-1/4"	2331	2797	10588	BA001-051664S3
5' x 16' x 84"	3152	3783	14320	BA001-051684S3
5' x 20' x 29-1/4"	1094	1313	4970	BA001-052029S3
5' x 20' x 41-1/4"	1718	2061	7802	BA001-052041S3
5' x 20' x 50-1/2"	2198	2638	9986	BA001-052050S3
5' x 20' x 64-1/4"	2913	3496	13234	BA001-052064S3
5' x 20' x 84"	3940	4728	17897	BA001-052084S3
5' x 24' x 84"	4728	5674	21478	BA001-052484S3

6' WIDE	IMP. G	USG	LITERS	BRIGHT ANNEALED 304- BA
6' x 8' x 49-1/2"	1009	1211	4584	BA001-060849S3
6' x 8' x 73-1/2"	1608	1930	7306	BA001-060873S3
6' x 12' x 49-1/2"	1514	1816	6874	BA001-061249S3
6' x 12' x 61-1/2"	1963	2355	8915	BA001-061261S3
6' x 12' x 73-1/2"	2412	2984	11296	BA001-061273S3
6' x 16' x 49-1/2"	2018	2422	9168	BA001-061649S3
6' x 16' x 61-1/2"	2617	3141	11890	BA001-061661S3
6' x 16' x 73-1/2"	3216	3859	14608	BA001-061673S3
6' x 16' x 84"	3750	4499	17031	BA001-061684S3
6' x 20' x 49-1/2"	2523	3027	11458	BA001-062049S3
6' x 20' x 61-1/2"	3271	3926	14862	BA001-062061S3
6' x 20' x 73-1/2"	4020	4824	18261	BA001-062073S3
6' x 20' x 84"	4687	5624	21289	BA001-062084S3
6' x 24' x 49-1/2"	3027	3633	13753	BA001-062449S3
6' x 24' x 61-1/2"	3926	4711	17833	BA001-062461S3
6' x 24' x 73-1/2"	4824	5789	21914	BA001-062473S3
6' x 24' x 84"	5624	6749	25548	BA001-062484S3

7-1/2' WIDE	IMP. G	USG	LITERS	BRIGHT ANNEALED 304-BA
'-1/2' × 8' × 66"	1760	2113	7999	BA001-070866S3
1/2' x 8' x 84"	2322	2786	10546	BA001-070884S3
′2′ x 12′ x 66″	2641	3169	11996	BA001-071266S3
/2' x 12' x 84"	3483	4179	15819	BA001-071284S3
/2' x 16' x 66"	3521	4225	15993	BA001-071666S3
2' x 16' x 84"	4644	5573	21096	BA001-071684S3
2' x 20' x 66"	4401	5281	19991	BA001-072066S3
2' × 20' × 84"	5805	6966	26369	BA001-072084S3
/2' x 24' x 66"	5281	6338	23992	BA001-072466S3
/2' × 24' × 84"	6966	8359	31642	BA001-072484S3

To order overflow pipes by specific sizes, please follow this procedure

1-1/2" PVC Drain overflow pipe (BA404-01**24XX)
2" PVC Drain overflow pipe (BA404-01**32XX)

3" PVC Drain overflow pipe (BA404-00**48XX)

From the generic code, replace the 2 stars by the length of the pipe. Example: PVC Drain overflow pipe 1-1/2" x 11" long: BA404-011124XX.

Our machined drain outlets will precisely fit with our tank overflow pipes.



FILTERING BAG Round disk (hole 1-1/2") DV436-000024M1 \$26,08 Round disk (hole 2") DV436-000032M1 \$26,08 Round disk (hole 3") \$32.65 DV436-000048M1 10" Filtering bag (cordless) DV435-000010XX \$4.50 16" Filtering bag (cordless) DV435-000016XX \$5,69 20" Filtering bag (cordless) DV435-000020XX \$6,81 30" Filtering bag (cordless) DV435-000030XX \$9,50

WHITE RESIN AMERLOCK 2 PAINT ALIMENTARY GRADE (CATALYST INCLUDED)				
DV465-000006XX	\$230,68			

Quantity: 1 gal. of paint and 1 gal. of catalyst.



20" x 29" 29 imp. gal (35 USG) **BA008-000035H1** \$119,53 23" x 43" 54 imp. gal (65 USG)

\$221,30

HORIZONTAL LEG TANK

Other sizes available on demand only. Transport fees can be applied.

BA008-00065H1

STORAGE TANK LADDER				
16" x 42" Ladder BA412-016042A1	\$132,30			
16" x 53" Ladder BA412-016053A1	\$141,53			
16" x 66" Ladder BA412-016066A1	\$158,46			

FOR STAINLESS STEEL	TANK
1 side	
BA001-000001XX	\$76,92
2 sides BA001-000002XX	\$97,69

PERSONALIZED PANEL

SUPPORT FOR TANK FOOTBOARD				
BA399-170001XX	\$34,58			







COMPLETE DRAIN				
1-1/2", SS, MPT BA606-000024S2	\$80,50			
2", SS, MPT BA606-000032S2	\$85,65			
3", SS, MPT BA606-000048S2	\$131,96			

OVERFLOW SS OR DRAIN WELDED ON SS TANK				
1-1/4" BA850-000020S2	\$21,54			
1-1/2" BA850-000024S2	\$21,54			
2" BA850-00032S2	\$23,08			
3" BA850-000048S2	\$30,00			

Can be positioned as per customer's need.









WITH ITS EXPANDABLE DESIGN, OUR UPDATED RANGE OF R.O.'S WILL CONTINUALLY GIVE YOU MORE!

UPGRADE TO A HIGHER STANDARD IN NO TIME

Nowadays, R.O.'s are essential pieces of equipment for maple syrup producers in a world-class economy. By removing more than 50% to 95% of the water contained in the sap, the use of an R.O. results in substantial savings in the fuel used for evaporation.

The scalable construction of Lapierre R.O.'s mounted on a stainless steel frame allows components such as pumps and housings to be upgraded to optimize the performance of your equipment to achieve the desired throughput.

Lapierre's high efficiency recirculation design allows your R.O. to operate at a high Brix level throughout the day, without washing or rinsing the membranes (under recommended conditions).

By optimizing the capacity of our high-pressure pumps and choosing the right motors, we are proud to offer you the most energy-efficient range of high-performance R.O.'s on the market.

No other brand of R.O. has such a high resale value on the market.

UNMATCHED RELIABILITY AND SIMPLICITY

- Choice of 5 HP high pressure pumps of 10 or 20 GPM according to your needs
- Increased performance through an easy addition of membranes, high pressure pump, booster pump, etc.
- Wheeled system for effortless movement

INCLUDED WITH PURCHASE

- Stainless steel wash tank
- ESPA4 membrane and storage canister
- 20" pre-filter and pre-filter protector
- Lubricant for sealing joints
- Connection pipe
- Membrane cap and adaptor
- Membrane soap

THE R.O. SPECIALIST

We are experts at customizing your R.O. to your specific needs

Our proven expertise in maple syrup production enables us to optimize the performance of equipment from other manufacturers.

THE LOWEST ENERGY CONSUMPTION ON THE MARKET

STANDARD: 230 V / 1 PHASE

AVAILABLE: 600 V / 3 PHASE / 208 / 230 3 PHASE

FOR EXAMPLE:

3000 SERIES 5 HP 2 MEMBRANES: 42 AMPS 5000 SERIES

12 MEMBRANES: 131 AMPS



5000 SERIES



AN R.O. THAT KEEPS ITS PROMISES

The 5000 Series has proven itself to be the industry's highest performing equipment. A single pass for a concentration of 20 Brix or more makes it the system with the lowest power consumption rate in the industry. The 5000 Series is also built on a stainless steel frame and has a scalable design that can accommodate up to 12 membrane systems (6 single and 6 double for a total of 18 membranes) as well as all the pumps in a complementary configuration. High performance for days on end!

STANDARD CONFIGURATIONS

	15 HP / 9 MEMBRANES	15 HP / 12 MEMBRANES	20 HP / 15 MEMBRANES	25 HP / 18 MEMBRANES
Feed pump	Goulds 5HP 2St	Goulds 5HP 2St	Goulds 5HP 2St	Grundfos 7,5 HP+variable
High pressure pump	3x5HP 20 GPM	3x5HP 20 GPM	4x5HP 20 GPM	5x5HP 20 GPM
Simple box 3/4 HP	3	4	5	6
Double box 1 1/2 HP	3	4	5	6
Wash tank	3'x3'	3'x3'	3'x4'	3'x4'
Wash pump	Goulds 2HP 2st	Goulds 3HP 2st	Goulds 3HP 2st	Goulds 3HP 2st
Fabric concentration filter	3	4	4	4
Concentration filter with cartridges	1	2	2	2
Washing filter with cartridges	1	1	1	1

AVAILABLE OPTIONS

- Stainless steel rack for flowmeter 10GPM (9, 12, 15 or 18 kit)
- \bullet Element, thermostat and water level control on wash tank
- Automation system
- Booster pump

NEW MODEL

10000 SERIES



OUR INDUSTRIAL GRADE R.O.

TOUGHER FOR BETTER PERFORMANCE!

Lapierre is proud to present the very first industrial grade R.O. developed with ingenuity and optimized for large-scale maple syrup operations. Unparalleled in durability and operating flexibility, the 10K Series, mounted on a solid frame and made entirely of stainless steel, has been designed to meet the most demanding maple syrup producers' performance requirements.

Powerful and compact, the horizontal configuration of the 10000 Series, as well as its all-stainless steel filter unit installed above the wash tank, greatly improves maintenance operations. For maximum efficiency, the 10000 Series allows up to 12 double membrane systems, for a total of 24 membranes. That's serious performance!

CONFIGURATIONS

- \bullet Up to 24 membranes in 12 double housings with 1.5 HP recirculation
- 1 Grundfos 7.5 HP feed pump with variable speed drive
- 2 Grundfos 20 HP high-pressure pumps with variable speed drive
- 1 Grundfos 10 HP booster pump with variable speed drive
- 1-3 HP booster pump with variable speed drive
- 5 stainless steel sap filters with 6 cartridges for concentration
- 1 stainless steel sap filter with 6 cartridges for washing

AVAILABLE OPTIONS

- Stainless steel 10 gal flowmeter bracket
- Element, thermostat and water level control on wash tank
- Automation system



NEW

5k and 10k automated systems

Lapierre R.O.'s have been continually evolving for more than 30 years. With the most complete product family in the industry, we can meet the needs of the smallest producers all the way up to industrial maple syrup operations.

We are proud to introduce our brand new Lapierre R.O. automation system, designed to improve and simplify maple syrup production. You can control it remotely from anywhere on the planet! This provides optimal performance and simplifies its operation while providing live production statistics via the dashboard.

If necessary, this equipment can be operated in both automatic and manual modes.

- Access to the machine at all times via the Internet
- Concentrate and filtrate flows, continuous Brix level, operating pressures, maple and concentrate water reservoir levels, operating mode
- Remote control of operations: concentration, washing, rinsing, desugaring, Brix levels, start/stop, etc.
- Alarms classified by importance and transmitted by email in real time
- 12-inch easy to use and user-friendly touch screen
- Automatic purging to facilitate feed pump start-up
- Automatic washing with metering pump for soap injection
- Automatic quick action valves
- Integrated WiFi and VPN routers
- Toggles from automatic to manual mode at the touch of a button, allowing instrument operation and reading (pressures, flow rates and temperature) without using the controller.





2000 SERIES

The 2000 Series is the R.O. of choice for producers operating a sugar bush with more than 1000 taps. Built with a stainless steel frame, it can be mounted with a high pressure pump of 3 HP-5 GPM or 5 HP-10 GPM. It is also pre-wired to connect two membranes.

2000 Series

STANDARD CONFIGURATIONS

MODEL	TURBO HP PUMP	FEED PUMP	MEMBRANE + SS BOX 4"	MEMBRANE + SS BOX 8"	TANK	PREFILTER
Turbo 3 HP	1 x 3 HP (5 GPM)	1/2 HP Goulds	1	-	R32	1
Turbo 3 HP	1 x 3 HP (5 GPM)	1/2 HP Goulds	2	-	R32	1
Turbo 5 HP	1 x 5 HP (10 GPM)	1 HP Goulds	-	1	R32	1
Turbo 5 HP	1 x 5 HP (10 GPM)	1 HP Goulds	-	2	R32	2

Options for 2000 Series 3 HP and 5 HP

- 2 5-way quick-connect valves for concentrate and filtrate
- Concentrate and filtrate valve panel
- Optional stainless steel feed pump cover and high pressure pump cover
- All stainless steel feed manifold
- Filmtec Membrane (MARK E8, 8 in. and NF90-4040, 4 in.)
- Continuous Brix reader
- AUTOBRIX valve including continuous Brix reader
- Rectangular 29 gal stainless steel wash tank with filtration installed on the tank
- Element, thermostat and water level control on wash tank

Options for 2000 Series 5 HP only

- SS Polished Stainless Steel Housing (only for 8" housing)
- Filtrate sampler for SS housing
- Flowmeter panel for filtrate with samplers
- Addition of pre-filters for concentration and washing
- Sap filter with fabric or 6 cartridges

Many possible configurations when purchasing an R.O. with a 5 HP turbo pump.





3000 SERIES

A little gem for producers with more than 3000 taps who are looking for performance and a concentration of 18 Brix or more. This is an R.O. mounted on a stainless steel frame with 5 hp-20 gal high pressure pumps and a scalable configuration allowing operation of up to 8 stainless steel housings. It is also pre-wired to connect two membranes. Raw power!

3000 Series

STANDARD CONFIGURATIONS

MODEL	TURBO HP PUMP	FEED PUMP	MEMBRANE + SS BOX 4"	MEMBRANE + SS BOX 8"	TANK	PREFILTER
Turbo 5 HP	1 x 5 HP (20 GPM)	2 HP Goulds	-	2	C43	2
Turbo 10 HP	2 x 5 HP (20 GPM)	5 HP Goulds	-	4	C43	4
Turbo 15 HP	3 x 5 HP (20 GPM)	5 HP Goulds	-	6	C84	6

Options for the 3000 Series only

- 2 5-way guick-connect valves for concentrate and filtrate
- Concentrate and filtrate valve panel
- Optional stainless steel feed pump cover and high pressure pump cover
- Stainless steel supply manifold
- Filmtec Membrane (MARK E8, 8 in.)
- Continuous Brix reader or AUTOBRIX valve including continuous Brix reader
- Various sizes of rectangular stainless steel wash tank with filtration installed on the tank
- Element and thermostat on wash tank
- Magnetic box and water level control on wash tank
- Up to 8 recirculations
- Horizontal support for SS housings
- SS housing in polished stainless steel
- Filtrate sampler for ss housing
- Booster pump
- Flowmeter panel for filtrate with samplers
- Filtrate flowmeter 20 additional gallons
- Addition of pre-filters for concentration and washing
- Sap filter with fabric or 6 cartridges
- 35 gallon flowmeter

Many possible configurations when purchasing an R.O. with a 5 HP turbo pump.

HYPERBRIX™ R.O. Technology will save you time and energy







The R.O. is the piece of equipment that has contributed the most to maintain maple syrup production costs at their lowest level.

HYPERBRIX* R.O. Technology will save you time and energy.

You have not seen everything yet in R.O. sap concentration technology!

Lapierre's HYPERBRIX*, process can reduce the volume of water to be evaporated by 95%.

- 2 Brix sap to 35 Brix concentrate in one single pass;
- Sap concentration has been, for the past 30 years, the largest contributor to sugar making profitability;
- Lapierre Equipment has developed a complete range of HYPERBRIX concentration machines;
- Each HYPERBRIX R.O. is paired with a HYPERBRIX evaporator especially adapted for the task of cooking syrup from 35 Brix concentrate, with an emphasis on flavour development;
- The process developed by Lapierre retains all the elements present in the sap, resulting in uncompromising maple syrup;
- HYPERBRIX technology is the solution for achieving the lowest maple syrup production cost.

1000 SERIES - JUNIOR

The Lapierre Junior R.O., an entry-level model mounted on a stainless steel frame, is the ideal solution for sugar bushes with 1,000 taps or less. With its robust and compact design, it reduces evaporation time and fuel by half.

MODEL	TURBO HP PUMP	FEED PUMP	MEMBRANE + SS BOX 4"	TANK	PREFILTER	VALVE PANEL
Junior 100	1 x 2 HP	1/2 HP Goulds	1	Integrated	1	Optional
Junior 200	1 x 2 HP	1/2 HP Goulds	2	Integrated	1	Optional



2 TO 24 FLOW METER PANELS

Available with or without sampling valve. Ask your agent about the various possible configurations.



5-WAY VALVE	
3/4" with o'ring outlets CN235-000012RX	\$504,60
1" with o'ring outlets CN235-000016RX	\$529,98
1-1/4" with o'ring outlets CN235-000020RX	\$613,05
Engraved mounting plate - Concentrated CN236-000001S5	\$92,96
Engraved mounting plate - Filtrate CN236-000002S5	\$92,96
Mounting plate - rear CN236-000003S4	\$18,08
Non-engraved mounting plate folded back CN236-010003S4	\$20,38



VALVE PANEL



VALVE PANEL (CONCENTRATE)	
1/2" CN120-080812XX	\$136,88
3/4" CN120-121212XX	\$131,46

VALVE PANEL (FILTRATE)	
1" CN120-161612XX	\$141,96
1-1/4" CN120-202012XX	\$139,26
1-1/2" CN120-242412XX	\$151,42

PREFILTRATION

Pre-filtration is essential for the proper operation of an R.O. We have a wide selection of practical and high-performance cloth or cartridge filters.

Be sure that your existing R.O. has a pre-filtration system appropriate to its capacity. Talk to your Lapierre representative about it.





BLUE HOUSING AND PRE-FILTER	
Blue housing 2" x 20", 10 to 12 gal. capacity CN206-002003XX	\$70,57
Purtrex 20" 5 micron pre-filter (1) DV402-052001NX	\$3,46
Purtrex 20" 5 micron pre-filter (20) DV402-052001NXB	\$68,42
Pre-filter protector (5) DV401-000005XX	\$13,46
Pre-filter protector (10) DV401-000010XX	\$25,35
Tubular pre-filter protector (6) DV401-000006XX	\$19,15
Plastic key for blue housing CN206-150295XX	\$5,23

COMPLETE MODIFICATION KIT TO TRANSFORM A STD SAP FILTER INTO A 6-CARTRIDGE SAP FILTER			
 Cartridges not included; Suitable for Lapierre sap filters from the year 2000 and up; For older filters, confirm compatibility. 			
FE202-240614XX	\$320,76		

LATERAL SUPPORT FOR 2 PRE-FILTERS		
CN423-071202S2	\$53,81	



MAINTENANCE PRODUCTS	
Membrane soap TFC 1.13 kg CN400-000000XX	\$13,04
Membrane soap TFC 11 kg CN400-000011XX	\$103,84
Lubri-teck (glycerine) 1 litre DV424-000001XX	\$11,92
Lubri-teck (glycerine) 4 litres DV424-00004XX	\$30,73
SMBS preservative 1.5 kg CN405-000001XX	\$16,46
Propylene glycol 4 litres DV427-000004XX	\$34,15
Ph 10-12 test paper strip DV243-00000XX	\$11,85
Ph 1-10 test paper strip DV243-000112XX	\$19,00

24" LAPIERRE SAP FILTER WITH 6 PRE-FILTERS 40 gal capacity (pre-filtered water) 20 gal capacity (non-pre-filtered water) / max. 75 PSI

Complete sap filter 1" inlet
FE002-240616XX \$607,67

Complete sap filter 1-1/4" inlet
FE002-240620XX \$607,67

Complete sap filter 1-1/2" inlet
FE002-240624XX \$607,67

Uses the same pre-filters as the blue housing.



24" LAPIERRE CLOTH SAP FILTER 1: CAPACITY 75 PSI	5 GAL / MAX.
2 filter cloths included Complete sap filter 1" inlet FE001-000016XX	\$401,52
Complete sap filter 1-1/4" inlet FE001-000020XX	\$401,52
Complete sap filter 1-1/2" inlet FE001-000024XX	\$401,52
5 micron filter cloth (1) DV400-002401XX	\$12,27
1 micron filter cloth (1) DV400-012401XX	\$13,04

Lapierre sap filter also available with stainless housing





FILTRATE SAMPLER	
3/4" MPT x 3/4" MPT for Lapierre housing CN410-000001XX	\$24,54
1/2" FPT x 1/2" MPT for Seprotech housing CN410-000002XX	\$23,08

Several models can accommodate the housings of other brands.

WASH TANK OPTIONS	
3000 W element CN415-003000S4	\$48,58
3000 W element and thermostat with stainless steel well CN005-000001XX	\$199,95
Safety system for heating element (magnetic box and water level control) CN005-000002S4	\$376,60
Blue box for washing CN005-000003S4	\$234,84
SS well for temperature control EL830-010001SS	\$60,00

2500 OR 3500 OPTION

More compact with lateral housings

More compact and requiring less space, our 2500/3500 version is available with the 2000 and 3000 Series R.O.'s. The lateral arrangement of the stainless steel housings on the support allows quick and easy handling of the membranes at the beginning and end of the season.

*Not available on the 3 HP model





Lateral housing supports available for up to 10 units





PRESSURE GAUGES GLYCERIN	IE 2,5"	
0-100 lb SS, connexion 1/4" DV206-010040S6L	\$23,92	
0-100 lb Brass lead free, 1/4" DV206-010040SPL	\$11,85	
0-400 lb connexion, SS 1/4" " DV206-040040S6L	\$23,00	
0-600 lb SS, connexion 1/4" DV206-060040S6L	\$23,00	
0-600 lb Brass lead free, 1/4" DV206-060040SPL	\$11,96	
0-30 lbs Brass lead free, 1/4" DV206-003040SPL	\$11,85	
0-1000 lbs Brass lead free, 1/4" DV206-100040SPL	\$11,85	
PRESSURE GAUGES DRY 4"		
0-1000 lb SS, connexion 1/4" DV264-100072S6L	\$108,23	
0-1000 lb Brass lead free, 1/4" DV206-100040S6L	\$23,00	



R.O. BOOSTER PUMP

The booster pump will significantly increase your R.O.'s performance. This pump is installed on the R.O. circuit and is intended to increase operating pressure, total flow rate and Brix level. It is recommended for use on R.O.'s with 3 or more housings. Ask your representative to choose the right model for your machine.

Various capacities are available depending on the quantity of housings: from 2 HP 20 GPM to 5 HP 45 GPM. Sold with variable speed control for optimal pressure adjustment. Please contact your Lapierre representative for more information.

REVERSE OSMOSIS MEMBRANE

4 INCH MEMBRANE Filmtec NF90-4040, 4" x 40" CN009-000440XX ESPA4-4040, 4" X 40" CN034-000440XX

STORAGE TANK	
4" × 40" CN002-000440XX	\$88,88
8" x 40" CN002-000840NX	\$255,61

8 INCH MEMBRANE (MAX. 800PSI) HYDRAPRO 102, 8" X 40" CN033-000840XX HB2535, 8" X 40" CN027-000840XX



8 INCH MEMBRANE (MAX. 600PSI)

ESPA4, 8" X 40" CN034-000840XX

MEMBRANE CLEANING SERVICE

For more than 20 years, Lapierre Equipment has specialized in post-sugar season servicing of your membranes.

Our cleaning service is available to all customers using membranes, regardless of the make and model of their R.O. We pick up and deliver your membrane.

All products used for washing and storage are approved for use by organic sugar bushes. Since we are always looking to improve our customer service, tests are performed on all membranes sent to us for cleaning:

- · A sugar test before cleaning
- A performance test before and after cleaning

These tests are provided completely free of charge when you send your membrane for cleaning. In addition, we are available for membrane repairs:

- Damaged fibreglass
- Broken or loose plastic washer

MEMBRANE CLEANING SERVICE	:
4" or 8" performance and sugar test CN401-000000XX	\$65,38
4" performance and sugar test + cleaning CN401-000401XX	\$80,77
8" performance and sugar test + cleaning CN401-000801XX	138,46



AUTOBRIX VALVE CONTROLLER

The AUTOBRIX valve controller ensures that you get a constant value from the Brix level to your R.O.'s output. Combined with a precise Brix reader, the controller will modulate the opening of the concentrate valve using a highly efficient algorithm.

The constant level of the Brix being targeted optimizes the performance of the evaporator and reduces its consumption and evaporation time. No need for an operator to stand in front of the R.O. constantly to monitor and adjust the opening of the concentrate valve.

- Can be installed on all Lapierre R.O. models as well as all other manufacturers' models;
- Stable and accurate Brix level at the R.O. outlet;
- The AUTOBRIX valve controller can accept data from most Brix drives continuously.

AUTOBRIX VALVE WITH BRIX READER ATAGO 0-33.5

For 2000 and 3000 Series R.O.'s, 1/2" compression valve

CN175-033008CX

For 5000 Series R.O.'s, 1/2" FPT valve

CN175-033008FX

AUTOBRIX VALVE WITH BRIX READER ATAGO 0-80

For the 2000 Series Hyperbrix R.O., 1/4" MPT valve

CN175-080004MX

For 3000 Series Hyperbrix R.O., 1/2"

compression valve

CN175-080008CX

For 5000 Series Hyperbrix R.O., 1/2" FPT valve

CN175-080008FX

RIX READER ON SUPPORT

ATAGO 0-33.5 BRIX READER

DV175-000033KT

ATAGO 0-80 BRIX READER

DV176-000080KT



BRIX READER 0-33.5



BRIX READER 0-80

EVAPORATOR DESIGN

THOROUGHNESS AND PERFORMANCE

Several innovations in recent years have greatly improved the quality of evaporator operations, such as AUTOBRIX valve controllers - pre-heaters - reverse flow systems-modulating draw-off - complete pan washing systems - automatic defoamer dosing systems - to name just a few.

That being said, the design of an evaporator may seem, at first glance, very simple, but Les Équipements Lapierre, Lapierre Waterloo Small Division takes this work very seriously. Our engineers and designers, accompanied by a team of experienced specialists, strive to manufacture high-performance evaporators according to the highest standards in the industry while meeting the needs of maple syrup producers.

The analysis of operating conditions involves a wide range of questions aimed at finding answers to design a suitable evaporator such as:

- Operating conditions.
- Operator type: hobbyist, commercial or industrial.
- · Boiling capacity.
- Type of fuel (wood, biomass, fuel oil, gas, electricity).
- Brix rate at entry.
- etc.

Thoroughness is essential to ensure the best possible evaporator operating condi-

tions. Based on the answers to these questions, the design is undertaken and carried out taking into account four (4) main design parameters (in alphabetical order):

Environment:

Emission: Fuel oil, gas, wood, biomass all require appropriate and different combustion chambers to ensure clean and efficient combustion. Wood evaporators with fans must be equipped with afterburner air injection to remove pollutants such as volatile organic compounds and smoke.

Efficiency: Using as little fuel as possible, in addition to ensuring complete combustion, the pans must have enough surface area to allow the maximum amount of heat to evaporate. However, at the same time, the size of the evaporator must be kept to a minimum.

- There is a limit to the amount of heat that passes through. If exceeded, there will be a deposit of sugar sand that is difficult to
- The performance of the pans depends on the combustion chamber, which in turn depends on the type of fuel.
- The size of the flue pan compared to the syrup pan also depends on the sugar concentration (Brix). The relative length of the pans requires a specific length of combustion chamber.



Ergonomics:

It is important that the operator's safety remains the primary concern. Ergonomics combined with ease of operation is essential in the design:

- Good visibility of the pans.
- Accessible and easy to use combustion control
- Easily accessible and easy to use syrup flow control.
- Reversible pans.
- For wood evaporators, easy to reload.
- The user must have a direct view of all the controls and indicators.

Manufacturing quality:

Of course, achieving high performance requires great attention to the choice of materials used and must also be produced using state-of-the-art tools to ensure high manufacturing quality:

- Top of the line components
- Computer assisted design
- · Meticulous manufacturing
- Precise assembly
- Reliability

Quality syrup:

Special attention is paid to the distribution of heat under the pans. The transfer of heat from sap to syrup must be the same for the entire surface area of the syrup pan(s).

• For wood evaporators, time between reloading to minimize flow stoppage events during reloading.

This thorough thought process results in a positive operating experience because a simple change can result in a meticulous execution that balances all operating parameters. This attention to detail enables Lapierre Equipment to consistently offer you products of the highest calibre that ensure smooth production and high quality syrup.

Luc Brière, Eng.

Lapierre Waterloo Small Division



EVAPORATORS CONFIGURED FOR 50/50

MORE SYRUP AND MORE FLAVOUR!

OPTIMAL CONFIGURATION FOR A 15 to 30 BRIX CONCENTRATION

Impressively easy to use, the 50/50 configuration evaporators have flat pans of equivalent length to the surface of the flue or tube pans. The optimum configuration to enhance flavour development while saving fuel.

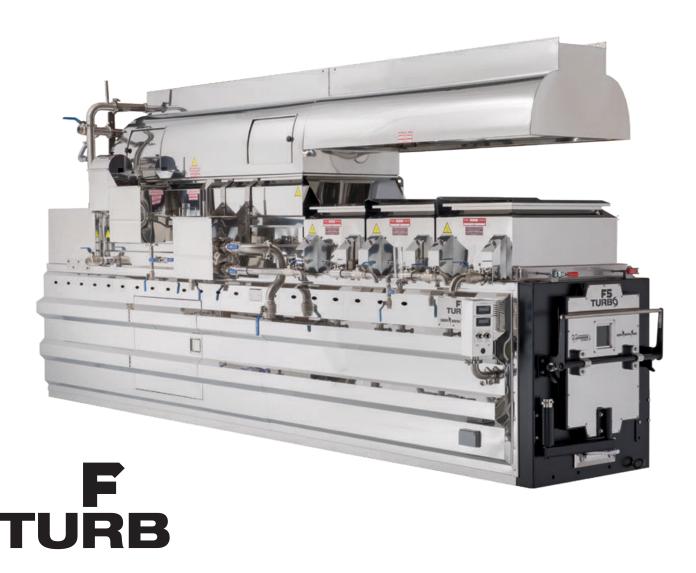
The 50/50 configuration evaporators, combined with a Lapierre R.O., enable a concentrate to evaporate from 15 to 30 Brix, thus allowing a greater amount of syrup to be produced per hour. The ideal choice for medium and large sugar bushes.

The 50/50 configuration is available on our Turbo 3 and Volcano 2000 Series oil evaporators as well as on the Force 5 Series wood evaporators. Several sizes are available. Ask your maple syrup advisor for more information.

Results of tests carried out with producers in spring 2017

- Equipment: Turbo 3 (6' X 16')
- Concentrated: between 24 and 25 Brix
- Average oil consumption of 0.16 gallons per 1 gallon of syrup
- Average production of 120 to 140 imperial gallons of syrup per hour





The Force 5 TURBO is the fusion between the best combustion controlled wood arch and the Lapierre-Waterloo-Small designed fire tube double pass Turbo pan. A combination that makes evaporating with wood even more efficient and economical!

OFFERED FROM

• 2-1/2' x 8' to 6' x 18'

SUPER HEAVY DUTY CONSTRUCTION			
Syrup pan	Ends	20 ga	
	Sides	22 ga	
Flue pan	Walls	18 ga	
	Flues	22 ga	
Hood	Ends	20 ga	
	Sides	22 ga	



Super heavy duty arch frame structure.







THE WOOD COMBUSTION REFERENCE IS GETTING BETTER ALL THE TIME

- The Force 5 has a unique heat exchanger system;
- No smoke, soot or creosote;
- No sparks or embers out of the stack;
- Wood is the least expensive combustible available;
- Excellent insulation (no heat loss on the sides);
- Heat is spreaded uniformly to eliminate hot spots;
- No hot spots means less niter build up;
- Complete control of evaporation intensity.

ELECTRICAL SYSTEM ENTIRELY CERTIFIED!

Eliminate safety authorities issues and insurance concerns.



Wood reloading sequence is particularly long with Force 5 combustion controled arch (will vary according to producer reality).





Force 5 reaches very high furnace temperatures while maintaining low exhaust values, demonstrating how efficiently it uses energy.

OFFERED FROM

• 2-1/2' x 8' to 6' x 18'

Ask your Lapierre representative to help you determine the right equipment size for your needs.

Standard Features

- Door is covered with stainless steel on the outside and insulated with high temperature ceramic wool on the inside;
- Clean out doors front and rear:
- Control cabinet can be positioned on either side of the arch;
- Metallic ducts are used for wiring for total protection;
- Factory installed high temperature brick and insulation.

The Force 5 is ready to use!

SUPER HEAVY DUTY CONSTRUCTION		
Syrup pan	Ends	20 ga
	Sides	22 ga
Flue pan	Walls	18 ga
	Flues	22 ga
Hood	Ends	20 ga
	Sides	22 ga

Super heavy duty arch frame structure.

Force 5 height has recently been reduced by 3 inches helping to have a better view in the syrup pans. The height of the combustion chamber stays the same.

Force 5 users are pleased with how the heat distribution and its intensity under the pans enhances maple flavor.



HYPERBRIX® version available

The Force 5 is also able of handling 35 Brix concentrate for fuel economy at its best and make syrup with genuine maple flavor.



WOOD FIRED EVAPORATOR

IGNITE THE POWER OF NATURE





A BEAST WITH A GREAT DESIGN

A new high-performance grind based on an ingenious design using the proven technologies of our range of wood-fired Hurricane evaporators. A perfect blend of power and performance for a greater volume of quality syrup.

The FUSION X2 offers above all an improved design, such as the walls of the combustion chamber for more efficient thermal performance. A variable speed air injection and diffusion system provides high operating stability as well as constant uniformity in thermal transfer.

- Available from 2-1/2' x 8' to 6' x 16'
- Available in 50/50 configuration

THE FUSION OF INNOVATION COMBINING PERFORMANCE AND NATURE

BENEFITS

- Very high evaporation performance
- Thermal efficiency and fuel economy
- Ease of operation in the range of 1300 to 1900°F
- More eco-friendly due to its high-performance combustion chamber
- Large combustion chamber capacity, over 300 lbs. of dry wood

SPECIFICATIONS

- Variable speed fan control
- Temperature sensor set and digital display
- Loading door: stainless steel exterior cladding and high temperature ceramic wool insulation
- Factory-installed fire brick and refractory cement furnace
- Preheated air supply for fuel savings





OPTIFLAM combustion controller option for easier operation, performance and increased savings.

OUR CLASSIC OIL EVAPORATOR:



The Volcano 2000 is one of a kind, it is a machine made with the highest quality standards.

All controls and instruments are easily accessible in the front panel.

The low profile of the furnace allows you to see what is happening inside your syrup pans.

Available with Riello variable intensity or Carlin burners.

OFFERED FROM

• 2-1/2' x 8' to 6' x 16'

SPECIFICATIONS

- Exterior is completely 304 stainless steel;
- Control switch (high+low), fire on 701 and 801 burners;
- Oil pressure gauge;
- Key type ignition for start up, with security lock;
- In-operation hour meter;
- Port hole allows you to see the flame;
- Junction box allows for a quick and easy hook up of the burners;
- Insulated burner cover to reduce noise:
- Electric plug for thermoregulator and other uses;
- Propane and natural gaz also available.





The HYPERBRIX® Volcano 2000 is configured to be efficient and economical boiling 35 Brix concentrate. Maple syrup taste is also prioritized by a design that features greater flat pan surface.



The Lapierre-Waterloo-Small HYPERBRIX® VOLCANO 2000 evaporators are available with the complete range of variable intensity RIELLO burners. Riello Burners all feature variable flame intensity to allow you to adjust your boiling to all concentrate types.

RIELLO Features

- · High energy efficiency;
- Unique flame pattern;
- Heat can vary from 20 % to 100 %;
- Environment oriented european technology;
- The most economical burner on the market;
- · Propane and natural gaz also available.



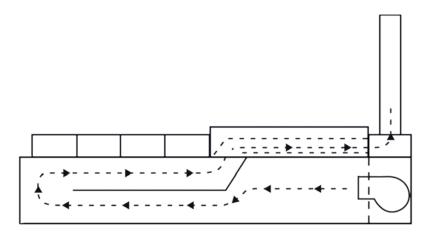


Impressive oil economy is achieved when a Piggy-Back Turbo steam pan is used in conjunction with the Turbo 3.

GALLON OF OIL TO MAKE ONE GALLON OF SYRUP (AT 18° BRIX)

A superior evaporation capacity with less fuel, featuring:

- Double pass for much greater heat transfer under the tube pan;
- Fire tubes are 30% bigger for extreme heat absorption by the pans;
- Slowsgasflowforbetterheattransferresultinginsuperior evaporation rate;
- 4 finishing pans design for high concentration and flavour enhancement;
- Fully adjustable boiling intensity.;
- Silent operation.





SUPER HEAVY DUTY PAN CONSTRUCTION		
Syrup pan	Ends	20 ga
	Sides	22 ga
Tube pan	Walls	18 ga
	Tubes	22 ga
Hood	Ends	20 ga
	Sides	22 ga

Optional RIELLO burners



The TURBO 3rd Generation evaporators are available with the variable intensity RIELLO burners. RIELLO Burners all feature variable flame intensity to allow you to adjust your boiling to all concentrate types.

RIELLO Features

- High energy efficiency;
- Unique flame pattern;
- Heat can vary from 20 % to 100 %;
- Environment oriented european technology;
- The most economical burner on the market;
- Propane and natural gaz also available

Storm

AVAILABLE SIZES

- 3' x 10'
- 3' x 12'
- 3-1/2' × 14'
- 4' x 12' / 4' x 14'

AVAILABLE OPTIONS

- Cross flow or reverse flow;
- Pre-heater hood assembly:
- Pan covers:
- · Forced air, insulated front.



- Arch: cast iron front, galvanized steel or stainless sides;
- 20 g. walls, 22 g. flues #304 stainless;
- Smoke stack included (2 x length of the evaporator);
- Cold and hot float boxes;
- Stainless heavy duty interconnections;
- Draw off ball valve included;
- · Fire bricks not included.

Our top-of-the-line evaporator with optimal productivity equipped with sophisticated plumbing, including a settling pipe at the flue pan outlet in order to collect sugar sand (niter) which will keep the front pan(s) cleaner for a longer period of time. On this model the sap feed on the back flue pan is on one side, and the syrup draw-off on the front pan(s) is on the other side. But if needed you can order as an option the sap inlet and syrup draw-off to be on the same side at a reasonable price.

Mini-Pro

AVAILABLE SIZES

• 19" x 48" (30 to 50 taps)

AVAILABLE OPTION

Forced air arch.



SPECIFICATIONS

- 5" raised flues;
- 22 g. #304 stainless;
- Flat bottom pan, 3 compartments;
- Smoke stack included (2 x length of the evaporator);
- Arch: cast iron front, galvanized steel;
- 3/4" draw off ball valve included;
- · Grates and base stack included;
- Fire bricks not included.

Our smallest evaporator equipped with a 5" deep raised flue pan for more efficiency. Introduced on the market in 2011 following a request from one of our U.S.A. dealers, The Maple Guys from New Hampshire. You can theoretically finish your maple syrup directly on this evaporator, but since most people using such an evaporator are mainly beginners in the industry it is recommended to use a heated finishing unit to make a syrup at the proper density.

Junior

AVAILABLE SIZES

- 18" x 60" (50 to 150 taps)
- 24" x 72" (100 to 300 taps)

AVAILABLE OPTIONS

- Pan covers;
- *Propane or natural gas Riello burner.



An evaporator a little bit more efficient than the Mini-Pro. Equipped with a 5" deep raised flue pan. An affordable hobby and a safe investment which will not depreciate very much throughout the years. The ideal equipment for having hours of fun with your family or friends.

SPECIFICATIONS

- 5" raised flues:
- Arch: cast iron front, galvanized steel or stainless sides;
- 22 g. #304 stainless;
- Smoke stack included (2 x length of the evaporator);
- Grates and base stack included;
- · Cold and hot float boxes:
- Stainless heavy duty interconnections;
- Draw off ball valve included:
- Fire bricks not included.

The Classic

AVAILABLE SIZES

- 2' x 6'
- 2' x 8'
- 2' × 10'

AVAILABLE OPTION

Pan covers.



A high efficiency evaporator with a 7" deep raised flue pan but assembled with basic plumbing connections (similar to the Junior model). There is only one pan in the front with two partitions (three compartments) going width wise and return connection boxes on opposite corners. This model will give you the same boiling rate per hour compare to our Storm model but for less money.

SPECIFICATIONS

- 7" raised flues;
- Arch: cast iron front, galvanized steel or stainless sides;
- 20 g. walls, 22 g. flues #304 stainless;
- Smoke stack included (2 x length of the evaporator);
- Cold and hot float boxes:
- Stainless heavy duty interconnections;
- Draw off ball valve included:
- · Fire bricks not included.

These hobby evaporators with a flat bottom pan are designed for those who want to have fun while making maple syrup for their own use. Less efficient compared to a larger evaporator, we recommend using a finisher.

The Barrel

AVAILABLE SIZES

• 24" x 36" (20 to 50 taps)

SPECIFICATIONS

- 22 g. #304 stainless flat bottom pan, 3 compartments;
- Arch: 16 gauge steel;
- Includes 90 deg 6" elbow for chimney;
- #304 stainless pre-heater pan, 9" x 22";
- 3/4" draw off ball valve included;
- Fire bricks not included.



Propane Evaporator

AVAILABLE SIZES

• 16" x 48" (10 to 30 taps)

SPECIFICATIONS

- Gas stove with three 65 000 BTU burners;
- 16" x 32" flue pan (4" flues) with float box;
- 16" x 16" syrup pan with float box;
- Propane tank not included (For outside use only).

Propane Finisher



AVAILABLE SIZES

• 16" x 48"

SPECIFICATIONS

- 3- 16" X 16" Propane stoves of 65,000 BTU each maximum;
- 1-Stainless steel finishing pan with flat bottom 16" X 48" X 14" High, no partition;
- 3/4" ball valve with elbow included;
- NO float box;
- Propane tanks not included. (For outside use only)

The Backyarder

AVAILABLE SIZES

• 19" x 36"

SPECIFICATIONS

- 22 g. #304 stainless flat bottom pan, 3 compartments;
- Arch: cast iron front, galvanized steel;
- 3/4" draw off ball valve included:
- · Grates and base stack included;
- For better results, it is recommanded to finih the syrup in a propane heated pan;
- Optional pre-heater pan;
- Fire bricks not included.



Pan washer with sprinklers

Flue pan

- Wash your flue pan with permeate only (no chemicals required);
- Always feed with fresh permeate, no re-circulation;
- Only 2000 gallons needed for a large size evaporator;
- All new Lapierre-Waterloo-Small hoods are built ready for flue pan washer with knock-outs.

OPTIONS	
Auto-Stop by pressure EL049-281102XX	\$38,81
Stainless steel sprinkler only with aluminium adaptor EV250-000000XX	\$66,15
Filter only 1-1/2" EV250-000002XX	\$95,38
Filter only 2" EV250-320002XX	\$166,84

Recessed covers with sprinklers

(Lapierre syrup pan)

Available from 2 to 9 sprinklers for syrup pans 18" \times 36" up to 72" \times 72"

For pans other than Lapierre, you must provide internal dimensions and contact us for details

PAN WASHERS FOR RECESSED COVERS WITH SPRINKLERS

Complete pan washer 24" reservoir

EV051-000024XX

Complete pan washer 48" reservoir

EV052-000048XX

Complete pan washer 72" reservoir

EV053-000072XX

All tanks include 1 Goulds pump and 1 filter: For 24" and 48" tanks = 1/2HP pump; For 72" tank = 1HP pump.
Cover not included.



RECESSED COVER WITH SPRINKLERS (LAPIERRE PAN)

Cover 2 sprinklers for pan 30" x 18"

EV050-023018XX

Cover 2 sprinklers for pan 36" \times 18"

EV050-023618XX

Cover 2 sprinklers for pan 36" x 20"

EV050-023620XX

Cover 2 sprinklers for pan 36" x 24"

EV050-023624XX

Cover 2 sprinklers for pan 42" x 18"

EV050-024218XX

Cover 2 sprinklers for pan 42" x 20"

EV050-024220XX

Cover 2 sprinklers for pan 42" x 24"

EV050-024224XX

Cover 2 sprinklers for pan 48" x 20"

EV050-024820XX

Cover 2 sprinklers for pan 48" x 24"

EV050-024824XX

Cover 3 sprinklers for pan 60" x 18"

EV050-036018XX

Cover 3 sprinklers for pan 60" x 24"

EV050-036024XX

Cover 3 sprinklers for pan 72" x 24"

EV050-037224XX

Cover 4 sprinklers for pan 48" x 48"

EV050-044848XX

Cover 6 sprinklers for pan 48" x 72"

EV050-064872XX

Cover 6 sprinklers for pan 60" x 48"

EV050-066048XX

Cover 6 sprinklers for pan 72" x 48"

EV050-067248XX

Cover 9 sprinklers for pan 60" x 60"

EV050-096060XX

Cover 9 sprinklers for pan 72" x 72"

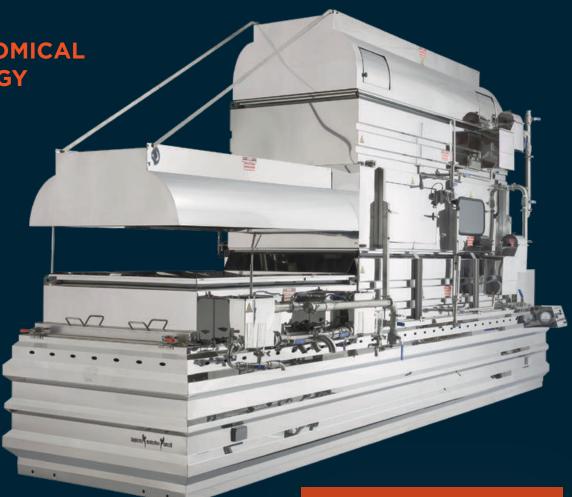
EV050-097272XX

TURBO STEAM-PAN: Piggy Back



AVAILABLE SIZES

- 3' × 9' 4' × 10'
- 3' × 10' 5' × 9'
- 3-1/2' × 9' 5' × 10'
- 3-1/2' × 10' 6' × 10'
- 4' x 9'



The use of the steam produced in the evaporation process in an excellent way to reduce your energy costs by up to 40%.

More than 30 years ago, the Piggy Back was introduced to help maple producers save time, energy and space. Lapierre Equipment is proud to present to you the latest innovation with focus on improved efficiency and ease of cleaning. The TURBO tube pan design allows even greater energy transfer for enhanced performance. The TURBO steam pan can increase your evaporator performance by up to 40%.

If you are looking for ultimate performance and economy in evaporation you should be looking at our Piggy Back steam pan. At 20 Brix it only consumes 0.19 gallon of oil per gallon of syrup with our TURBO fire tube evaporator.

EVAPORATORS | ACCESSORIES AND OPTIONS

REVERSE FLOW KIT

Allows you to draw syrup all day without changing your cross flow pans.

Fits wood or oil evaporators. Includes: ball valves and fittings to connect "HOT" float box to rear and front inlets. You will be ready to draw syrup in less than 5 minutes (requires 3 to 4 syrup pan configuration). Optional: all stainless steel ball valves.

CENTRAL DRAW-OFF KIT

Allows you to draw syrup without moving the syrup tank when using the draw-off inversion kit.

2" SIGHT LEVEL

This sight level makes reading much easier and accurate than ever before. Available for syrup and flue pans.



7" AND 9" HIGH DIAMOND POINT FLUES

Made with 304BA (Bright annealed) SS and available on Storm (2 $^{1}/_{2}$ ' +), Hurricane Force 5 and Xtreme Fire, Volcano and Volcano 2000, the new diamond point flues will make your flue pan easier to clean.





DIRECT ACTION FLOAT BOXES

Direct action float boxes for accurate and fast sap transfer and precise pan level control.



6 COMPARTMENT SYRUP PAN WITH BUILT IN REVERSE FLOW KIT AND CENTRAL DRAW-OFF KIT

This pan reduces the cost of the overall evaporator by replacing 3 to 4 syrup pans, by saving on stainless and insulation.

The central draw-off allows you to draw syrup without moving the syrup tank when using the draw-off inversion kit.

DID YOU KNOW THAT A FAULTY CHIMNEY INSTALLATION MAY CAUSE A FIRE?

Your single wall chimney must;

- Provide 24 inches clearance to a combustible wall.
- Provide 18 inches clearances to any combustible material.
- Must be 10ft above any building in a 25ft radius.

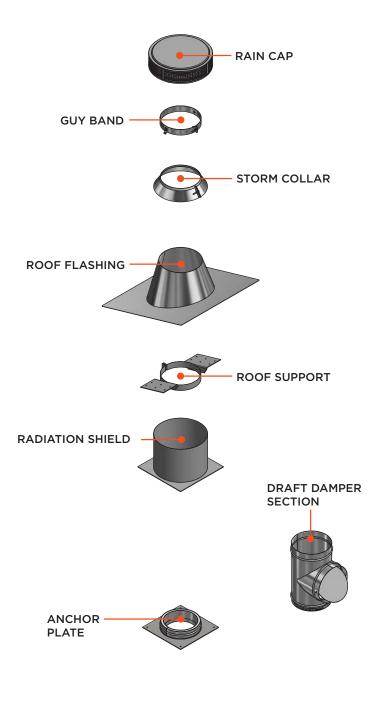
LAPIERRE EQUIPMENTS IS NOW OFFERING A DOUBLE WALL INSULATED LISTED CHIMNEY

- UL103HT listed chimney.
- Specifically designed for the Maple Industry.
- Needs only 2 inches clearance to any combustible material.
- Must be 3ft above any obstacle in a 10ft radius (therefore permitting shorter run, saving cost).
- Allow the use of a smaller diameter chimney for the same evaporator, (saving cost).
- RECOGNIZED BY YOUR INSURANCE COMPANY.

HIMNEY PIPI		
6"	12"	
6"	18"	
6"	24"	
6"	48"	
8"	12"	
8"	18"	
8"	24"	
8"	48"	
10"	12"	
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18"	48"	
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20"	24"	
22"	18"	
22"	24"	
22"	48"	
	12"	
	6" 6" 8" 8" 8" 8" 8" 10" 10" 10" 10" 12" 12" 12" 14" 14" 14" 14" 16" 16" 16" 18" 18" 18" 20" 20" 20" 22" 22" 22"	DIAMETRE HEIGHT 6" 12" 6" 18" 6" 24" 6" 48" 8" 12" 8" 18" 8" 24" 8" 48" 10" 12" 10" 18" 10" 24" 10" 48" 12" 12" 12" 14" 14" 18" 14" 24" 14" 48" 16" 12" 16" 18" 16" 48" 18" 12" 18" 18" 18" 24" 18" 48" 20" 12" 20" 48" 20" 24" 20" 48" 22" 12" 22" 12" 22" 12" 24" 12" 24"

PARTS BELOW ARE INCLUDED WITH THE PURCHASE OF AN EVAPORATOR*

Chimney sold separately



An extensive line of products is available. For information, contact your Lapierre dealer.

^{*}Optional on wood fired evaporator whithout fan.

MAPLE SYRUP AUTO CONTROL

- Made by Lapierre;
- · High precision;
- Fast reaction and reliable;
- Removable actuator and control box;
- Programmable to adapt to evaporator size;
- Easy to wash;
- Manual or auto mode;
- Probe included;
- Heavy duty SS clamp and gasket required.

SEE PAGE 104



LAPIERRE MODULATING DRAW-OFF

Ferrule 1-1/2" outlet DV122-240001XX	\$1257,64
Ferrule 1-1/2" outlet (2 probes) DV122-240002XX	\$1453,79
Elbow, 90°, 1-1/2" (optional) EV707-902424S2	\$25,11
Ferrule 2" outlet DV122-000001XX	\$1271,49
Ferrule 2" outlet (2 probes) DV122-000002XX	\$1476,86
Elbow, 90°, 2" (optional) EV707-903232S2	\$30,23



YSTEC LOW SAP LEVEL DETECTOR WITH BURNER SHUT-OFF (120 VOLTS)

Contro	linit
COLLU	ullit

EADETEC3	\$180,76
Complete kit	
NV005-000001ST	\$565,36



DISPENSER AUTO FOR LIQUID DE-FOAMER

DV168-000000XX

Replacement pump PM568-240104XX



WATER LEVEL SENSOR YSTEC WITH AUDIBLE ALARM (1 PROBE)

EADETEC4 \$192,30

LOW SAP ALARMS YSTEC WITH BURNER (2 PROBES)

EADETEC3-2

\$282,30

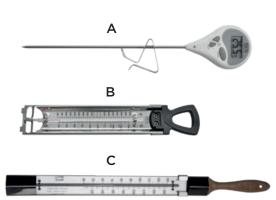


and steam stack in all sizes. Price upon request.

PEAK STYLE COVER

For steam stack in all sizes. Price upon request.









 ${f F}$ - Lovibond comparator

 \boldsymbol{J} - Dial thermometer





D - Barometer

> Replacement stem for 18" thermometer EITRC018

D - Barometer	E - Digital Grader
THERMOMETER	
A - 8-1/4" digital thermometer EITB0012	\$27,65
B - 12" SS back thermometer EITDT158	\$12,77
C - 18" thermometer EITBC018	\$70,27

\$41,58

D - 5" BAROMETER		
DV010-001353XX	\$191,53	

E - MAPLE SYRUP DIGITAL GRADER HI759	
DV024-000759XX	\$57,69

F - LOVIBOND COMPARATOR (NEW GRADING SYSTEM)	
DV034-433240XX	\$306,10



G - Maple syrup off-flavor detection kit DV039-000000XX	\$38,42
H - Calibration solution 66.0 brix (for refractometer) DV137-000660XX	\$16,00
I - Grading kit 5 bottles DV028-00000XX	\$27,15
I - Syrup grading kit VT 2019 EICOL001	\$18,55
K- 1 oz simple bottle EICOL016	\$0,77

CENTER ACER

J - DIAL THERMOMETER	
3" dial 1/4" thread, 6" stem 0-50 deg. F EITC0306	\$43,61
3" dial 1/4" thread, 9" stem 0-50 deg. F EITC0309	\$52,58
3" dial 1/4" thread, 12" stem 0-50 deg. F EITC0312	\$65,61
5" dial 1/4" thread, 9" stem 0-50 deg. F EITC0509	\$59,00
3" dial 1/2" thread, 9" stem 0-250 deg. F EITC0325	\$43,61
3" dial 1/2" thread, 9" stem 50-300 deg. F EITC0330	\$54,31
3" dial 1/2" thread, 18" stem 50-300 deg. F EITC0318	\$53,84
5" dial 1/2" thread, 12" stem 50-300 deg. F EITC0512	\$83,34





COMBUSTION CONTROL SYSTEM

ASSISTED PERFORMANCE

OPTIFLAM AUTOMATED COMBUSTION CONTROLLER

FF200-000001XX

FOR OPTIMAL EFFICIENCY

& MINIMAL WOOD CONSUMPTION

OPTIFLAM is an automated system for supporting the thermodynamic properties of the evaporator combustion chamber to optimize heat using a minimum amount of fuel.

- Measures various operating conditions to determine the best evaporator operating conditions.
- Adjusts fan <mark>spee</mark>d continuously to maintain the temperature set by the operator.

BENEFITS

- The OPTIFLAM provides automated operation of your evaporator in order to maintain optimal and constant heat without any need for assistance on your part.
- The operator's only involvement is putting wood into the combustion chamber when indicated on the display.
- This minimizes flow interruptions and improves syrup quality.
- Allows control over the amount of fuel used.

INTEGRATES WITH LAPIERRE FORCED AIR - WOOD FIRED EVAPORATOR
ON EXISTING OR BRAND NEW DEVICES

TOUCH SCREEN DISPLAY

OPTIFLAM is equipped with an easy-to-use 7.5 inch (19.5 cm) touch screen to access the various functions of the combustion manager.

Combustion statistics on the evaporator combustion settings are compiled and displayed on the screen:

- The operating time.
- The average temperature maintained.
- The time between reloads
- The time required to recharge.
- Temperature set by the operator.

3 OPERATING MODES

AUTOMATIC MODE

OPTIFLAM takes care of the evaporator. Adjusts fan speeds, gives wood reload warning, monitors combustion and stops fan operation at the end of production.

MANUAL MODE

The operator controls the fan speed directly, as with a standard Hurricane, but from the control screen.

MECHANICAL MODE

The operator controls the fan speed directly, as with a standard Hurricane, using rheostats, but from the control box.





ATAGO MASTER H SERIES 60-70 BRIX (SYRUP)

DV012-006070XX

\$394,02

Developed especially for maple syrup

- 60 to 70 Brix scale easier than ever to read;
- No need to cool down syrup before testing;
- Built-in protection against dust and water.







A - Atago digital 0-85 Brix DV013-000085XX	\$617,44
B - Misco digital 0-85 Brix DV022-000085XX	\$480.75

REFRACTOMETER	
LED backlit 0-32 Brix (sap and high concentrate) DV014-000032XX	\$50,88
LED backlit 45-82 Brix (syrup) DV014-004582XX	\$50,88



HYDROMETER AND HYDROTHERM

USA certified hydrometer 0-12 Brix (sap) (USA only) DV020-000012VT	\$25,77
USA certified hydrometer 45-75 Brix (syrup) (USA only) DV020-004575VT	\$19,46
Hydrometer 0-35 Brix (sap) DV020-000035XX	\$8,42
Hydrometer 45-75 Brix (syrup) DV020-004575XX	\$15,81
Robi density for hydrotherm (1 liter) DV426-000001XX	\$8,96
Hydrometer 0-15 Brix (sap) DV020-000015XX	\$14,65
Hydrometer 50-70 Brix (syrup) DV020-005070XX	\$13,31
Hydrotherm red column DV023-000000XX	\$18,19
Conductivimeter Hanna HI98308 (5 programmable scale) DV021-098308XX	\$70,07

HYDROMETER AND HYDROTHERM CUP

Hydrometer cup 1 ¹ / ₂ " x 14" WITH BASE DV025-002414ST	\$33,08
Hydrotherme cup 2" x 12" WITHOUT BASE DV025-003212ST	\$34,61
Hydrotherme CUP 2" x 14" WITHOUT BASE DV025-003214ST	\$36,15



SS BUTTERFLY VALVE (BLACK HANDLE)	
1-1/2" VA020-002424S2	\$61,54
2" VA020-003232S2	\$69,23

SS BUTTERFLY VALVE (BLUE HANDLE)		
1-1/2" VA021-002424S2	\$61,54	
2" VA021-003232S2	\$69,23	

SS FERRULE CLAMP WITH SCREW		
1-1/2" DV256-000024S2	\$5,38	
2" DV256-000032S2	\$7,31	
3" DV256-000048S2	\$10,46	
4" DV256-000064S2	\$12,88	

SANITARY TRI-CLAMP REPLACEMENT CLEAR GASKET		
1" EAG40MP-S10	\$0,77	
1-1/2" EAG40MP-S15	\$0,89	
2" EAG40MP-S20	\$1,27	
3" EAG40MP-S30	\$1,42	
LACTORIF 330	Ψ1,4∠	



HEAVY DUTY SS CLAMP	
1-1/2" DV256-000024S2	\$5,38
2" DV256-000032S2	\$7,31

CERAMIC BLANKET	
12" × 24"	\$5,19 /
DV475-162408XX	linear foot

HIGH DENSITY ARCH BOARD			
24" × 48" × 1/2" EBISOL24	\$54,15		

	ARCH TO PAN GASKET	
1-1/2" x 3/8" EBTPR121		\$1,58 /ft
2" x 3/8" EBTPR122		\$1,92 /ft

FIRE BRICK AND REFRACTORY CEMENT		
1-1/4" Brick DV477-010904XX	\$2,08	
2-1/4" Brick DV477-020904XX	\$2,15	
Refractory cement (15 lb) DV476-000016XX	\$34,85	
Refractory cement (25 kg) DV476-000025XX	\$78,50	







FILTER	
#8 filtration cone EVBO008W	\$7,58
#8 filtration cone seamless EVBF008W	\$10,73
#8 poly. prefilter, 12/pack EVPAT008	\$8,96
Filtration material 36" x 36" EVCO3636	\$10,19
Polyester paper 36" x 36", 12/pack EVPA3636	\$21,08



DEFOAMER CUP (LAPIERRE)

Defoamer cup 1" **DV045-00001S2** \$13,08

Defoamer cup 1-1/2" **DV045-00002S2** \$15,38

DEFOAMER CUP (WATERLOO)	
1" with 4" folded support EVAMGO01	\$13,08
1" with 10" unfolded support EVAMGO10	\$15,38
2" with 10" unfolded support EVAMGO20	\$19,23







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ORGANIC DEFOAMER Liquid deformer (1 gallon) DV506-058001XX \$139,95

RECOMMENDED BY UVM PROCTOR MAPLE RESEARCH CENTER

DEFOAMER	
Kasher defoamer (200 g) DV406-000200LA	\$4,58
Liquid defoamer LWS (8 oz) EVAN108W	\$3,81
Liquid defoamer LWS (32 oz) EVAM032W	\$15,35
Liquid defoamer LWS (128 oz) EVAM128W	\$46,11

SUNFLOWER OIL	
Deodorized organic sunflower oil (1 liter) DV508-000001XX	\$11,50
Organic sunflower oil SOLEIL D'OR (3 liters) DV507-000003XX	\$42,38

BIO SUNFLOWER OIL, ODORLESS, CERTIFIED KOSHER & ECOCERT	
1 liter DV509-000001XX	\$12,27
4 liters DV509-000004XX	\$45,34



SCOOP				
Small scoop DV040-042003ST	\$50,77			
Large scoop DV040-062001ST	\$52,31			
Small perforated scoop DV041-042004ST	\$53,84			
Large perforated scoop DV041-062002ST	\$55,38			



ALUMINUM STEP	
22" x 15" x 12" DV545-221512XX	\$72,30
48" × 15" × 12" DV545-481512XX	\$123,84



SYRUP PITCHER	
Syrup pitcher 1.5L with spout	
ECSPS1500	\$63,96



DIPPER	
Round dipper (1 quart) EADPR030	\$50,77
Round dipper (2 quarts) EADPR031	\$52,31
Flat side dipper (1 quart) EADPD040	\$64,61
Round dipper with holes for taffy (2 quarts) EADPRT31	\$61,54
Flat nose dipper (2 quarts) EADPD060	\$53,34



MIXING PADDLE STAINLESS	
6" × 48" DV052-8067633XX	\$51,04
6" × 60" DV052-8067634XX	\$53,77







ROUND SYRUP FILTER TANK WITH TOP LID	
5 gal with single filter holder (9" dia. x 22" height) ESA0922WA	\$239,22
15 gal (14" dia. x 27" height) ESA1427ZA	\$263,84
15 gal with single filter rack (14" dia. x 27" height) ESA1427WA	\$352,29
24 gal (18" dia. x 27" height) ESA1827ZA	\$334,60
24 gal with triple filter rack (18" dia. x 27" height) ESA1827WA	\$441,52
40 gal (23" dia. x 27" height) ESA2327ZA	\$461,52
40 gal with triple filter rack (23" dia. x 27" height) ESA2327WA	\$615,36
Base on casters for 15-24-40 gal EM315-010000ST	\$104,61

DUAL SQUARE TANKS ON CASTERS WITH VALVE					
18" × 18" × 32"	2 x 27 imp. gal	2 x 32 USG	21" x 39" x 32" (Overall)	EM160-181832S3	\$956,12
18" × 24" × 32"	2 x 35 imp. gal	2 x 42 USG	21" x 51" x 32" (Overall)	EM160-182432S3	\$992,27
18" × 36" × 32"	2 x 53 imp. gal	2 x 63 USG	21" x 75" x 32" (Overall)	EM160-183632S3	\$1057,65
24" × 24" × 32"	2 x 50 imp. gal	2 x 60 USG	27" x 51" x 32" (Overall)	EM160-242432S3	\$999,96
24" × 36" × 32"	2 x 75 imp. gal	2 x 90 USG	27" x 75" x 32" (Overall)	EM160-243632S3	\$1069,19

TRIPLE SQUARE TANKS ON CASTERS WITH VALVE					
18" × 18" × 32"	3 x 27 imp. gal	3 x 32 USG	21" x 57" x 32" (Overall)	EM161-181832S3	\$1288,41
18" × 24" × 32"	3 x 35 imp. gal	3 x 42 USG	21" x 75" x 32" (Overall)	EM161-182432S3	\$1349,95
24" × 24" × 32"	3 x 50 imp. gal	3 x 60 USG	27" x 75" x 32" (Overall)	EM161-242432S3	\$1419,17



SYRUP TANK WITH CONE FILTERS

Rectangular syrup tank (24 gallons) with cover and support for three cone filters (#8 cone filters not included) EM174-122436S3

\$515,36





OPTIONS FOR SQUARE TANKS ON CASTERS	
SS outlet option 1" x 1" x 1-1/4" (MPT x MPT x FPT) EM360-161620S2	\$128,57
SS outlet option 1" \times 1" \times 1" \times 1-1/4" (MPT \times MPT \times MPT \times FPT) for triple tanks on casters EM361-161620S2	\$167,22
SS cover with handle (18" x 18") EM359-001818S3	\$77,88 each
SS cover with handle (18" x 24") EM359-001824S3	\$81,80 each
SS cover with handle (18" x 36") EM359-001836S3	\$90,15 each
SS cover with handle (24" x 24") EM359-002424S3	\$86,69 each
SS cover with handle (24" x 30") EM359-002430S3	\$85,04 each
SS cover with handle (24" x 36") EM359-002436S3	\$96,15 each

DUAL SQUARE TANKS ON CASTERS WITH VALVE AND SKIRT					
18" x 18" x 32"	2 x 27 imp. gal	2 x 32 USG	21" x 39" x 32" (Overall)	EM170-181832S3	\$1211,49
18" × 24" × 32"	2 x 35 imp. gal	2 x 38 USG	21" x 51" x 32" (Overall)	EM170-182432S3	\$1273,03
18" × 36" × 32"	2 x 53 imp. gal	2 x 63 USG	21" x 75" x 32" (Overall)	EM170-183632S3	\$1342,25
24" × 24" × 32"	2 x 50 imp. gal	2 x 60 USG	27" x 51" x 32" (Overall)	EM170-242432S3	\$1284,56
24" × 36" × 32"	2 x 75 imp. gal	2 x 90 USG	27" x 75" x 32" (Overall)	EM170-243632S3	\$1357,64

aster Maple Syrup Producer

PERFORMANCE MODEL

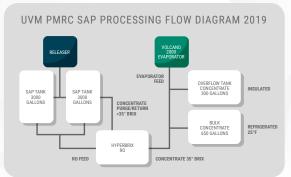
UNIVERSITY OF VERMONT PMRC (PROCTOR MAPLE RESEARCH CENTER) IN PARTNERSHIP WITH LAPIERRE - RESULTS: SEASON 201



Although Lapierre is a pioneer in the development of HyperBrix® technology in the maple syrup industry, the 2019 season results from the University of Vermont - PROCTOR MAPLE RESEARCH CENTER - demonstrate an example of the evolution of high Brix process techniques that has led to the creation of an modern performance model.

RESULTS OF THE UVM PROCESS MODEL WITH HYPERBRIX (SEASON 2019):

- Number of taps: 5,154
- Quantity of sap collected: 140,244 (USD)
 2.14 Brix
- Level of concentration: 35° Brix
- Number of concentration cycles: 20
- Total number of gallons of concentrate: 7,365 (USG)
- Total number of boilings: 2018 11 evaporations
 Approx. Once a week every for 5 weeks.
- Average of 4 concentrations/boiling
- A total of 37 hours of boiling for an average of 7.4 hours per boil
- A total of 3,347 USG of syrup produced for an average of 670 USG per boil



- 7.2 lb. yield at tap
- Reduction in fuel consumption at 35brix, 50% less than at 25° Brix
- Significant reduction in sugar niter
- Total production time (boiling and washing): 49.5 hours
- Time savings: 96.5 hours vs 2017 at 25 Brix

Refrigerated tanks allow the concentrate to be stored at 35 Brix for several days at temperatures below O°C (32°F). This allows greater flexibility in planning syrup production and above all no loss in product quality.

ADVANTAGES:

- Reduces time, operating and labour costs
- Allows more time to spend with family or in the woods

LAPIERRE HYPERBRIX, a high-performance technology

Courtesy of:

Dr Tim Perkins, Dr Abby van den Berg, Wade Bosley, Brendan Haynes, Mark Isselhardt UVM Proctor Maple Research Center, Underhill, VT

A QUIET EVOLUTION - HYPERBRIX TECHNOLOGY

Back in 2015, Lapierre launched HyperBrix technology that could reach a concentration of 35 Brix. Was the market ready? At that time, the majority of producers concentrated at an average of 15 Brix. To be honest, the pace was high and for a technology to be truly effective, you have to change the way you do things and adjust the way you work. Like everything else, a race horse develops its full potential only in a favourable environment.

The partnership with the University of Vermont Research Institute (Proctor Maple Research Center) has enabled us in recent years to optimize processes, improve membrane combinations and train employees so that the HyperBrix model can take shape and benefit everyone.

HYPERBRIX R.O.



- Stainless steel structure
- 4 regular membranes
- 2 HyperBrix membranes
- Washing tank

VOLCANO 2000 EVAPORATOR - 4' X 12' CONFIGURATION 25-75



- 4' flue pans, 8' flat-bottom syrup pan (8 partitions)
- Riello burner with variable output
- Pre-heater Reverse flow system
- Modulating draw-off, Complete pan washing system
- Automatic Defoamer, Front/Backpan washer, drawoff tanks

The addition of tanks, one refrigerated and the other, only insulated for transfer, allows the concentrate to be stored at temperatures below Oc (32°F) for several days without risk of contamination. This process model allows for effective operational management. Better managing priorities is mainly about planning, in a weekly grid, the time allocated to boiling and packing operations. This saves a lot of time and energy.

Although UVM studies have shown that the syrup retains the same delicious flavour characteristic of maple, the configuration of the 75/25 evaporators allows for perfect boiling. As a result, given the significantly reduced boiling time, the build-up of sugar niter in the pans is also significantly reduced. The time required to clean work areas and equipment has also dropped significantly, by a maximum of 12 hours.

95% OF THE WATER REMOVED WITHOUT EVAPORATION

Today, an R.O. is an essential piece of equipment for maple syrup producers. By removing more than 50% to 95% of the water contained in the sap, the use of an R.O. results in major savings in the time and fuel required for evaporation.

The maple syrup industry has benefited greatly from this innovation without having to evaporate this gigantic amount of sap. To maintain and even improve the characteristic flavours of the maple, the evaporator design has been perfectly adjusted. Oil evaporators require 4 litres of oil to produce 1 litre of maple syrup - if you only boil raw maple sap versus only 1.5 litres in HYPERBRIX. - The maple syrup industry has therefore made a significant contribution to reducing its ecological footprint in recent decades. High concentration helps to protect nature's most precious gift to us.

Filter press

7" AND 10" SQUARE FILTER PRESS

7" filter press, 3 hollow and 2 plates (expandable to 5 hollow) with N4000L lead free pumping unit

SR005-030207SP

7" filter press, 8 hollow and 7 plates (expandable to 10 hollow) with N4000L lead free pumping unit

7" filter press, 10 hollow and 9 plates with N4000L lead free pumping unit

SR005-100907SP

SR005-080707SP

Extra hollow and plates 7"

SR011-000007XX

10" filter press, 3 hollow and 2 plates (expandable to 5 hollow) with N4000L lead free pumping unit

SR005-030210SP

10" filter press 7 hollow and 6 plates (expandable to 10 hollow) (support shafts must de replaced) with N4000L lead free pumping unit

SR005-070610SP

10" filter press 10 hollow and 9 plates with N4000L lead free pumping unit

SR005-100910SP

Extra hollow and plates 10"

SR011-000010XX

7" and 10" stainless steel standard swivel frame with robust wheels (not included with the purchase of a press)

SR405-000002XX

INCLUDED ACCESSORIES (PRESS 7" & 10")

Upon purchase of a complete filter press with pumping unit:

- 10 lb of filter aid
- 1 box of filter paper
- Hoses, connections and pan
- 3/4" ball valve for the pan

Upon purchase of a complete filter press w/o pumping unit:

- Hoses, connections and pan
- 3/4" ball valve for the pan

15" SQUARE FILTER PRESS

15" filter press, 6 hollows, 5 plates w/o pumping unit

SR010-060515XX

15" filter press, 8 hollows, 7 plates w/o pumping unit

SR010-080715XX

15" filter press, 11 hollows, 10 plates w/o pumping unit

SR010-111015XX

15" filter press, 13 hollows, 12 plates w/o pumping unit SR010-131215XX

15" additional, hollows and plates

SR011-000015XX

PUMPING UNIT OPTION FOR 15" SQUARE FILTER PRESS

1/2" Yamada diaphragm pumping unit

SR003-150008NX \$1198,41

1/2" Yamada diaphragm pumping unit SR003-150016NX \$1511,48

1/2" Yamada diaphragm pumping unit

SR003-150851XNA \$2688,35

SHELF & VALVE OPTION FOR 15" FILTER PRESS

shelf option for Yamada & Y51 pumping unit

SR405-150237TX \$38,42

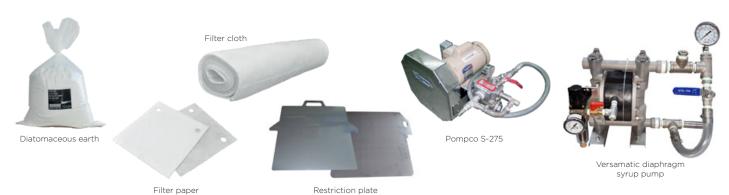
3 way valve option with ss JIC 3/4" adaptor SR405-151212KJ \$109,46

3 way valve option with 1/2" quick coupling

SR405-151208KR \$97,07



TRANSFORMATION | FILTRATION



ACCESSORIES	
12" Washable filter cloth 1 micron (pkg/2) DV400-011202XX	\$15,35
12" Washable filter cloth 5 microns (pkg/2) DV400-001202XX	\$13,81
O'ring #253, 5-3/8" DV201-000253XX	\$0,81
Dicalite Diatomaceous earth (filter aid) 10 lb DV403-010010XX	\$12,50
Dicalite Diatomaceous earth (filter aid) 50 lb DV403-010050XX	\$23,04
White filter papers 7" (box/400) DV404-000007XX	\$42,27
White filter papers 10" (box/400) DV404-000010XX	\$73,04
White filter papers 15" (box/250) DV404-000015XX	\$188,45
6' translucent tubing assembled with SS hook and fitting 1/2" SR200-000027XX	\$42,31
6' translucent tubing assembled without SS hook and fitting 1/2" SR200-000027AX	\$33,84

POMPCO S-275 ALL STAINLESS HE	AD
Syrup filter pumping unit (includes pressure and bypass hoses)	
SR003-000275XX	\$1471,48

DIAPHRAGM PUMPING UNIT	
Yamada diaphragm syrup pump 1/2" SR003-000008NX	\$1146,11
Yamada diaphragm syrup pump 1" SR003-000016NX	\$1604,55
ach pumping unit includes pressure and bypass hoses.	
REPLACEMENT DIAPHRAGM PUMP	
Yamada diaph. syrup pump 1/2", 4 gal/min @ 50 PSI, 7 SCFM PM006-000008A1	\$734,59
Yamada diaph. syrup pump 1", 25 gal/min @ 50 PSI, 25 SCFM PM006-000016A1	\$1042,27
/4" regulator filter for diaphragm syrup pump PM204-534221XX	\$66,11
KIT OF REPAIR	
Kit of repair #15 diaphragm pump PM206-080015KTMH	\$229,99
Kit of repair #25 diaphragm pump PM206-160025KTMH	\$306,91
3 PISTONS PUMPING UNIT	
I/2 HP Baldor motor with Y51 pump (with aluminium suction and piston chamber) SRO03-080751XNA	\$2394,52



DOUBLE HOLLOW PLATES

Removing solid plates and adding double hollow plates increases filtration capacity. Double hollow plates are available on 7" and 10" syrup presses.

NEW

\$36,54

\$54,23

SS 10" plate SR405-101832S4

SS 15" Plate SR405-151632S4

Sirofilter

SIROFILTER

12" Sirofilter complete w/o pumping unit

SR002-000012XX

24" Sirofilter complete w/o pumping unit SR002-000024XX



INCLUDED ACCESSORIES

Upon purchase of a complete sirofilter with pumping unit:

- 10 lb of filter aid:
- · Hoses, connections and pan;
- 3 washable filter cloths.

Upon purchase of a complete sirofilter w/o pumping unit:

- Hoses, connections and pan;
- 3 washable filter cloths.





GEAR PUMPING UNIT

3/8" (sirofilter) NL3000LR 1/3 HP (with relief valve) (includes pressure and bypass hoses)

SR003-003000SP

1/2" (filter press) NL4000L 1/3 HP

SR003-004000SP

REPLACEMENT MOTOR

1/3HP Motor

SR300-000023XX



REPLACEMENT PUMPS (OBERDORFER)

Model NL3000LR, 3/8" inlet (with pressure relief valve)

PM103-130004XX

Model NL4000LR, 1/2" inlet (with pressure relief valve)

PM103-140004XX

Model NL4000L, 1/2" inlet

PM103-040004XX

Model NL4000L, 1" inlet (for 1/2hp maple cream maker)

EM300-080004SP

Model NL9000L, 1" inlet (for 2hp maple cream maker)

PM103-090004XX

For quality purpose, all our Oberdorfer pumps are modified by Lapierre to ensure optimal sealing of the shaft seal.

Pneumatic bottler system





LAPIERRE	PNEUMATIC	BOTTLER SY	STEM

Lapierre pneumatic bottler system with manual control (bottling valve and tablet not included)
EM100-160102KT

Lapierre pneumatic bottler system with digital control (bottling valve and tablet not included)

EM100-160102CN \$2425,29

Option bottling valve 10mm

EM306-062410KT \$566,90

Lapierre pneumatic single bottler system with manual control and bottle guide (bottling valve not included)
EM306-020506CMS

\$1127,65

\$1741,47

OPTIONS

Option SS shelf (18") EM306-161804KT	\$150,76
Bottling valve 10mm EM245-062410XX	\$342,29
O'ring and U-cup kit for bottling valve 10mm DV201-100245XX	\$6,23
Pottling valve 15mm	

Bottling valve 15mm \$355,45

O'ring and U-cup kit for bottling valve 15mm **DV201-150245XX**

\$6,04

Example: To order a pneumatic bottler system with 4 bottling valves, you should use the code of the bottler system and 4 times the code of the option bottling valve.

Syrup water jacketed tanks

SYRUP W	ATER JACKETED TANKS	
10 gal (12 USG) 20" x 16" EM140-000010ST	1 x 3000 W 2 syrup outlets	\$1449,94
Stand SCEBS2016A		\$392,29
24 gal (29 USG) 32" x 20" SCEB3220A	2 x 3000 W 4 Syrup outlets	\$2106,84
Stand SCEBS3220A		\$519,98
34 gal (41 USG) 34" x 24" SCEB3424A	2 x 3000 W 4 Syrup outlets	\$2188,37
Stand SCEBS3424A		\$562,29
50 gal (60 USG) 38" x 28" SCEB3828A	2 x 3000 W 4 Syrup outlets	\$2409,13
Stand SCEBS3828A		\$578,44



HEATING ELEMENT (240 VOLTS)

3000 W element with temp. control

EM340-013000XX

\$298,45

GAS BURNER AND BOTTLING PAN

Complete kit: stand, burner, 16" \times 16" stainless pan, outlet, filter rack, 3/4" draw off valve thermometer fitting 1/2", top lid and adjustable shelf.

GAS BURNER AND BOTTLING PAN

Complete kit	
PE090-161600ST	\$522,29
Stainless bottling pan stand with adjustable shelf FF016-161600ST	\$220,91
Gas burner with hose and regulator ECRG016W	\$56,88
Mini steam pan (optional) PP025-171701ST	\$172,30

SYRUP PANS (COVER AND OUTLET NOT INCLUDED)

16" x 16" x 14" (10" = 9.2 gal/11 USG) PP009-161605ST	\$179,22
16" x 16" (3/4" outlet, nipple, ball valve, elbow, 1/2" dial fitting and plug included) PP009-161607ST	\$260.76

8" or 10" = pan water level





Cover not included



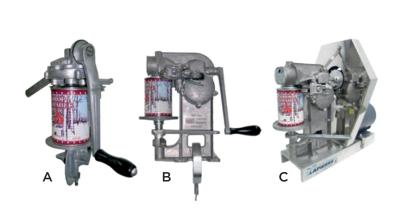




HANDS-FREE BOTTLING SYSTEM

SCSSV104E	\$397,10

SYRUP PAN OPTIONS	
Pan cover 16" x 16" PP027-161600ST	\$58,46
Syrup outlet 3/4" with valve and elbow (installed) CS001-060006ST	\$36,92
Filter rack for 16" x 16" pan PP027-161602S2	\$93,84





 $oldsymbol{\mathsf{D}}$ - Maple cream maker 1/2HP





E - Maple cream maker 2HP

MAPLE CREAM MAKER

F - Maple candy machine

Label #1 Extra-Light (1000/rl)

EM401-000101XX

Label #1 Light (1000/rl)

EM401-000102XX

Label #1 medium (1000/rl)

EM401-000103XX

Label #2 amber (1000/rl)

EM401-000201XX

Available in 2 sizes, a professional 2HP model with

a 9000 series pump and a semi-professional 1/2HP model using a 4000 series pump. Both features a stainless square funnel with cover.

D - MAPLE CREAM MAKER 1/2HP

The 1/2HP model operates on regular 120 volts and will make the same quality of maple cream than the big model but the whole process will take between 12 and 15 minutes. Perfect for the producer making just a few hundred containers per season. EM100-000004SP

Genugel 200g	
EM399-000200GR	

CAN SEALER

MAPLE JELLY POWDER

A - IVESWAY auto-manual can sealer	
ECMAY700	\$229,99
B - MASTER auto-manual can sealer	
ECMAM200	\$768,43

C - Automatic Lapierre can sealer (120 volts) EM100-000001XX \$1373,02

E - MAPLE CREAM MAKER 2HP

The 2HP model operates on 240 volts single phase which allows the sugar maker to turn a perfect maple cream batch in 5 minutes. It is recommended for the producer that makes hundreds of containers per season.

EM100-00003SP

F - MAPLE CANDY MACHINE

A motor driven auger mixes the maple sugar with perfect consistency and feeds the candy mold (120 volts).

PP024-000001ST

\$20,85





We have jugs in stock for Vermont, New York and All States.

Other states available upon request.







ALL STATE

STATES / maple cream

SINCE 1980, SUGARHILL® HAS BEEN THE PLASTIC CONTAINER OF CHOICE FOR PURE MAPLE SYRUP CONTAINERS

- Full range of metric and standard sizes;
- Generic labels for Provinces and States;
- Tamper-evident caps with oxygen barrier foil liner;
- Distinctive trademarked traditional shape;
- Made from food-safe FDA approved recyclable resins;
- Colorful private label screen-printing available;
- Proprietary available XL Coating to maintain grade stability.

MAPLE CREAM C	ONTAINERS (USA)
250 ml EXCUL250U	150/BOX	\$135,74
500 ml EXCUL500U	125/BOX	\$140,26

USA		
1 USG EXCR4000	24/BOX	\$61,00
1/2 USG EXCR2000	32/BOX	\$60,00
Quart EXCR1000	90/BOX	\$126,00
Pint EXCR0510	100/BOX	\$130,00
1/2 pint EXCR0260	100/BOX	\$115,00
3.4 oz EXCR0100	100/BOX	\$85,00

TRANSFORMATION | PACKAGING











Gold tamper-evident plastic closure

BOTTLES (CLOSURES NOT INCLUE	DED)
A - Barrel, 50 ml (closure 18 mm)	\$13,73
EM045-080050XX	BOX/12
A - Barrel, 100 ml (closure 24 mm)	\$15,65
EM045-080100XX	BOX/12
A - Barrel, 200 ml (closure 28 mm)	\$18,77
EM045-080200XX	BOX/12
B - Silhouette 50 ml (closure 18 mm)	\$34,00
EM045-092450XX	BOX/24
B - Silhouette 100 ml (closure 24 mm)	\$19,19
EM045-090100XX	BOX/12
C - Erable 250 ml (closure 28 mm)	\$22,85
EM045-020250XX	BOX/12
D - Horizon 250 ml (closure 28 mm)	\$28,73
EM045-040250XX	BOX/12
E - Maple 375 ml (closure 28-400 mm)	\$28,88
EM045-030375XX	BOX/12
F - Tarquina erable 100 ml (closure 28-400 mm) EM045-010100XX	\$22,85 BOX/12
F - Tarquina erable 250 ml (closure 28-400 mm) EM045-010250XX	\$26,42 BOX/12
G - Chiara 1 L (closure 33-400 mm)	\$11,38
EM045-061000XX	BOX/6

Bottles sold by the case only. Volume discount available. Closures sold by the bag only.

CLOSURES	
Gold tamper-evident plastic closure 18 mm EM046-000018GDS	\$1,46 BAG/12
Gold tamper-evident plastic closure 24 mm EM046-000024GDS	\$1,69 BAG/12
Gold tamper-evident plastic closure 28 mm EM046-000028GDS	\$1,77 BAG/12
Black tamper-evident plastic closure 28 mm EM049-000028NRS	\$0,96 BAG/12
Gold plastic closure 28-400 mm EM047-028400GDS	\$3,23 BAG/12
Gold plastic closure 33-400 mm EM087-033400GDS	\$0,92 BAG/12
Universal black substitution closure EM021-000315NRS	\$0,92 BAG/6
White substitution closure "Mignon" EM021-040001BXS	\$2,81 BAG/12



NUCAN BOTTLE (DOZEN)	
NuCan bottle, barrel style 500ml amber EM090-010500XX	\$18,00 BOX/12
NuCan bottle, barrel style, 500ml light EM090-020500XX	\$18,00 BOX/12
Black NuCan closure EM091-00000NR	\$1,42 BAG/12
Gold NuCan closure EM091-00000GD	\$1,42 BAG/12

Many available styles. Pricing is the same as the barrel.



BOTTLES (CLOSURES NOT INCLUDED))
A - Basquaise, 40 ml (closure "Mignon") EM030-040024XX	\$12,92 BOX/24
A - Basquaise, 100 ml (closure 24 mm) EM030-100012XX	\$10,77 BOX/12
A - Basquaise, 250 ml (closure 28 mm) EXBV0250B	\$15,85 BOX/12
B - Sugarhouse, 50 ml (closure 18 mm) EXBVCAB2	\$32,31 BOX/24
B - Sugarhouse, 250 ml (closure 28 mm) EXBVCAB1	\$20,15 BOX/12
C - Maple leaf, 50 ml (closure 18 mm) EM035-050048XX	\$44,31 BOX/48
C - Maple leaf, 100 ml (closure 24 mm) EM035-100012XX	\$21,54 BOX/12
C - Maple leaf, 250 ml (closure 24 mm) EM035-250012XX	\$25,00 BOX/12
C - Maple leaf, 500 ml (closure 28 mm) EM035-500012XX	\$40,11 BOX/12

BOTTLES (CLOSURES NOT INCLUDED))
D - Maple Flask, 250 ml (closure 28 mm)	\$23,08
EM040-020250XX	BOX/12
E - Snow flake, 250 ml (closure 28 mm)	\$22,96
EM040-010250XX	BOX/12
F - Kent, 250 ml (closure 28 mm)	\$7,38
EM048-010250XX	BOX/12
F - Kent, 375 ml (closure 28 mm)	\$9,04
EM048-010375XX	BOX/12
F - Kent, 500 ml (closure 28 mm)	\$10,65
EM048-010500XX	BOX/12
G - New Spirit, 1 L (universal closure)	\$7,81
EM043-100006XX	BOX/6
H - Medaillon, 50 ml (closure 18 mm)	\$29,54
EM042-050048XX	BOX/48
H - Medaillon, 100 ml (closure 24 mm)	\$10,88
EM042-100012XX	BOX/12
H - Medaillon, 250 ml (closure 24 mm)	\$11,92
EM042-250012XX	BOX/12
I - Polo, 250 ml (closure 28 mm)	\$15,08
EM040-030250XX	BOX/12

Bottle pictures are for reference only.

See closures on page 121.

Bottles sold by the case only. Volume discount available.











DISCOUNT WITH THE



Stainless steel pail

Drum transfer tool (alone)

Blue plastic jug

Drum (1 hem)

Drum (2 hems)

Drum truck



51 gal (62 USG) 2' x 3' x 20" outlet 1" MPT EM157-020320S4 \$332,29 Aluminum base EM357-263840A1 \$116,15 Stainless steel lid EM357-010203S4 \$117,15

ACCESSORIES	
Stainless steel pail 4 liters DV093-000004S3	\$19,23
Stainless steel pail 9 liters DV093-00009S3	\$26,92
Stainless steel pail 16 liters DV093-000016S3	\$30,77
Drum transfer tool (only) 3/4" BR010-000012XX	\$126,00
Drum transfer tool 3/4" kit BR010-000012KT	\$140,46
Blue plastic jug 5 gal EXBPL005	\$15,65

22 imp. gal. (26 USG) drum 301-2B with 2 hems (29,75" high x 17,50" dia. ins.) BR001-002922S9	\$184,61
34 imp. gal. (40 USG) drum 301-2B with 2 hems (29,75" high x 20,75" dia. ins.) BR001-002934S9	\$192,84
34 imp. gal. (40 USG) drum 301-2B with 1 hem (29,75" high x 20,75" dia. ins.) BR001-002934S9BX	\$192,84
34 imp. gal. (40 USG) drum 304-2B with 2 hems (29,75" high x 20,75" dia. ins.) BR001-00293454	\$197,95
45 imp. gal. (54 USG) drum 301-2B with 2 hems (35,00" high x 22,60" dia. ins.) BR001-003545S9	\$239,99
3/4" standard cap BR408-010012J1	\$1,08
2" standard cap BR408-010032J1	\$2,08
2" gasket BR431-000032XX	\$0,77
Drum truck BR005-000000XX	\$275,03
Drum tagging (maximum 14 characters) BR004-000014XX	\$1,54

Cap 2" and 3/4" included on the cover (can be on the periphery of the cover instead of the center).

4" high heater belt, 120 volts, 1200 watts, with easy adjustable thermostat control. The temperature can be adjusted between 50°F and 425°F (10°C and 218°C).

HEAVY DUTY METAL DRUM HEATER BELT	
34 and 40 gal. drum BR301-003440XX	\$226,91
45 and 55 gal. drum BR301-004555XX	\$242,30



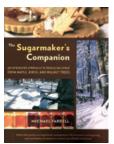


PLASTICA ACCESSORIES	
Adaptor for drum BR400-000000J1	\$13,08
2" standard cap large thread BR405-000032J1	\$2,69
2" standard cap, large thread for 3/4" valve BR407-120032J1	\$2,69
*PF 2" standard cap, small thread for 3/4" valve BR407-120132J1	\$2,69
Key for drum BR420-00000XX	\$18,08
Sample extraction tool BR428-00000XX	\$6,54

PLASTICA MAPLE SYRUP DRUM	
6 gal (7 USG) plastic drum, 1 cap BR001-000006J1	\$53,84
16 gal (19 USG) plastic drum, 1 cap BR001-000016J1	\$61,54
35 gal (42 USG) plastic drum, Evolution model, 1 cap* BR001-000035J2	\$80,77
35 gal (42 USG) plastic drum, Evolution model, 2 caps* BR001-000235J2	\$83,07

^{*}Sampling cap and extension tube included.

BOOKS	
États de santé des érablières (french only) Carine Annecou, Rock Ouimet et Jean-David Moore ECGUIDESE	\$24,38
Registre de production du sirop d'érable (french only) Center Acer DV900-000001FX	\$16,00
Sanitisation of collection systems using isopropyl alcohol - Center Acer DV900-00002AX	\$7,85
The Sugarmaker's companion Michael Farrell PA990-00003XX	\$28,46
Érable: 100 recettes sucrées et salées (french only) PA991-000001XX	\$16,88



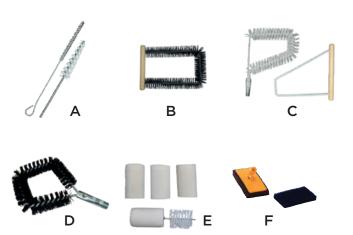








TRANSFORMATION | FILTRATION



CLEANING ACCESSORIES	
20" hand brush for evaporator DV072-000020XX	\$8,96
A - 5/16" spout brush DV073-000005XX	\$2,92
A - 7/16" spout brush DV073-000007XX	\$2,04
B - Flue brush DV074-000732XX	\$24,58
C - White nylon flue brush 7" x 2" DV075-000732XX	\$14,69
C - White nylon flue brush 7" x 1/2" DV075-000708XX	\$16,00
Brush for flue pan, interior 9" x 1/2" white nylon DV075-000908XX	\$17,73
Brush for flue pan, exterior 9" x 2" white nylon DV075-000932XX	\$17,73
D - Tube pan brush DV076-000001XX	\$36,34
E - 1" mainline brush DV080-000016XX	\$8,42
E - 1-1/4" mainline brush DV080-000020XX	\$10,96
E - 1-1/2" mainline brush DV080-000024XX	\$11,50
E - 2" mainline brush DV080-000032XX	\$10,62
F- Base only for 9" blue removable coton cloth DV085-000009XX	\$14,04
F- 9" blue removable scrubbing pad DV088-00009XX	\$4,38



STAINLESS STEEL CLEANER	
400 ml DV494-000400XX	\$20,23
PAN AND TUBING CLEANERS	;
Super Clean 85 % 1 gal DV430-000004XX	\$24,23
Super Clean 85 % 5 gal DV430-000020XX	\$105,53
Pan-O-Net 1 gal DV431-000004XX	\$31,11
Top Net 1 gal DV432-000004XX	\$31,92
Top Net 5 gal DV432-000020XX	\$169,07
Myster pan, 85%, 4L DV630-850004XX	\$21,58
Myster pan, 85%, 20L DV630-850020XX	\$99,07
Acid pan 1 gal FC3051GAL	\$25,58
Acid pan 5 gal FC3055GAL	\$124,92
POWDER PAN CLEANER	
Stainless steel pan cleaner 10 lb (LWS) DV493-000010XX	\$21,35
Sulphamic acid powder pan cleaner 50 lb DV419-000025XX	\$74,84

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Joe and Adele Suga

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Great Lakes Maple Supply

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Phone: 269 625-6738 info@greatlakesmaplesupply.com www.greatlakesmaplesupply.com

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Bascom's Maple Farms Inc.

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Dustin's Sugarhouse

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Fuller's Sugarhouse

Dave Fuller 267 Main Street Lancaster, NH 03584 Phone: 603 788-2719 Toll free: 877 788 2719 Fax: 603 788-4221 info@fullerssugarhouse.com www.fullerssugarhouse.com

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Effley Falls Sugar Shanty

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Shaw's Maple

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Sippl's Sugarbush

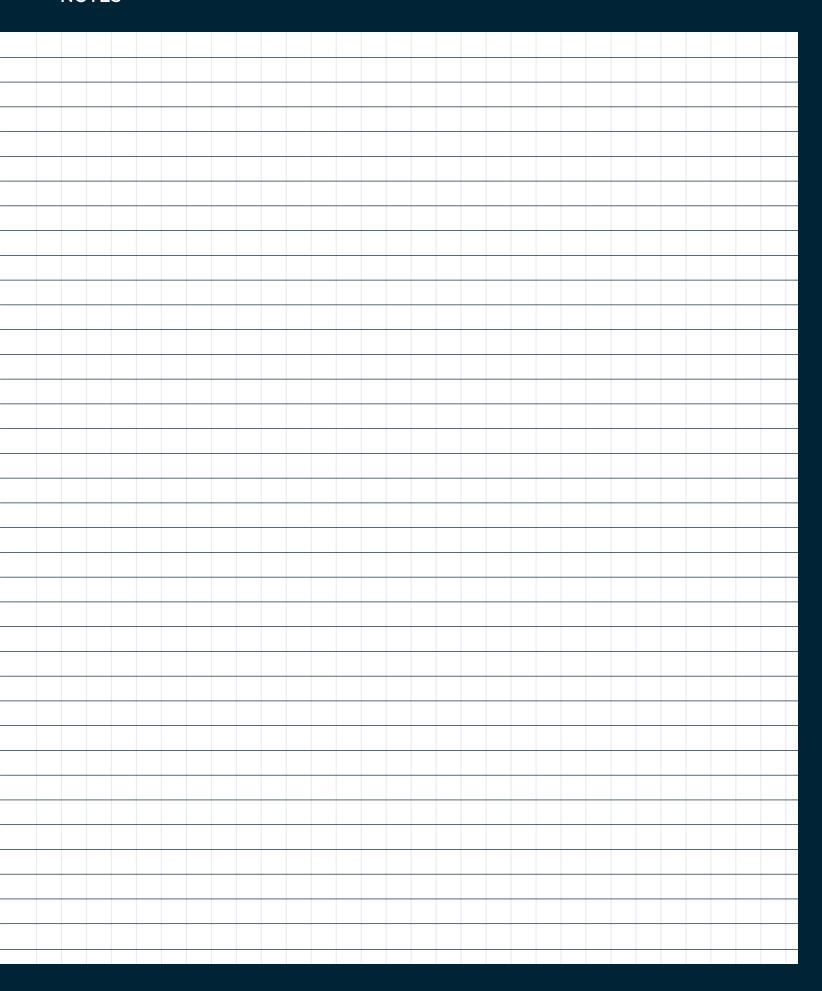
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Your sales representative

