LAPIERRE

naturally innovative

USA 2020 CATALOG

LAPIERRE
naturally innovative

A Commitment
Worth Noting

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

INDEX

GATHERING SYSTEM
- Tubing 6
- Fittings 8
- Accessories and miscellaneous 16

DATACER
- Monitoring system 30

EXTRACTORS
- Extractors and accessories 33
- Transfer tanks / Manifolds 47
- Water pumps 48

VACUUM PUMPS
- Pumps: Busch, Sihi 51
- Accessories 60

WATER STORAGE
- Stainless tanks 62
- Accessories 68

CONCENTRATION
- Reverse osmosis 69
- Accessories 76

EVAPORATION
- Evaporators 84
- Accessories 97

TRANSFORMATION
- Filtration and conditioning 114
- Packaging 117
- Accessories and miscellaneous 124

DEALERS
- USA dealers 126

ARTICLES
- Three-level tapping 28-29
- Sap treatement analysis 64-65
- Evaporator design 82-83
- Master maple syrup producer 112-113

MAPLE FLEX SOLUTIONS

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!

FLEXClip™ PATENT PENDING

SEE PAGE 15

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.

ZML ZERO MICRO LEAKS

MAX15

SEE PAGE 7

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 SPOUT

FLEXIBLE 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!

ZML ZERO MICRO LEAKS

SEE PAGE 8

MAPLE® FLEX

GET THE BEST GATHERING SYSTEM AVAILABLE TODAY

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.

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 1 1/4", 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 **TU386-000000XX** (500') **TU386-000800XX** (800')
MapleFlex® ULTRA15, 15 years warranty, vision green **TU386-010000XX** (500') **TU386-010800XX** (800')
MapleFlex® SUPER10, 10 years warranty, light blue **TU389-000000XX** (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 **TU086-000000XX**
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 *
ex: TU007-12****H1 = TU007-122500H1

Spout

IMPROVED MODEL

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	√	**TU272-105504N4B**	
1/4”	5/16”	Nylon	Dark blue	Std	√	**TU272-105504N5B**	
1/4”	5/16”	Soft nylon	Black	Std	√	**TU272-105504Y4B**	
5/16”	5/16”	Nylon	Black	Std	√	**TU272-106005N4B**	
5/16”	5/16”	Nylon	Dark blue	Std	√	**TU272-106005N5B**	
5/16”	5/16”	Nylon	White	Std	√	**TU272-106005N1B**	
5/16”	5/16”	Soft nylon	White	Std	√	**TU262-106505Y1B**	
5/16”	5/16”	Soft nylon	Black	Std	√	**TU262-106505Y4B**	

NEW COLOR

Tap diameter	Tubing diameter	Material	Color	Wall	ZML	Code	Box 1000
1/4”	5/16”	Soft nylon	Grey	Std	√	**TU272-105504Y8B**	
5/16”	5/16”	Soft nylon	Grey	Std	√	**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	√	**TU269-105604J9B**	
	1/4”	3/16”	Nylon	Black	Std	√	**TU269-105604N4B**	
	5/16”	3/16”	Nylon	Black	Thin	√	**TU269-106105N4B**	
Seasonal	5/16”	3/16”	Poly.	Clear	Thin	√	**TU269-106105J9B**	
Seasonal	5/16”	5/16”	Poly.	Clear	Thin	√	**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	√	**TU250-208004J9B**	
For stubby spout holder	5/16”	5/16”	Poly.	Clear	Std	√	**TU250-209005J9B**	

Standard seasonal spout

Long seasonal spout

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	√	**TU047-108034J9B**	
Long seasonal spout with retaining ring	1/4”	5/16”	Poly.	Clear	Std	√	**TU047-108044J9B**	
Standard seasonal spout with retaining ring	5/16”	5/16”	Poly.	Clear	Std	√	**TU047-109035J9B**	
Long seasonal spout with retaining ring	5/16”	5/16”	Poly.	Clear	Std	√	**TU047-109045J9B**	

BEST SELLER

Short joint spout

LTS-USA spout

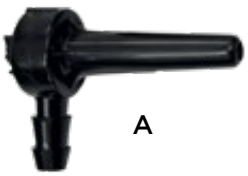
Designed by sugarmakers.
A minimal angle to strongly seal the tap hole.

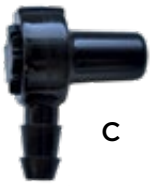
ELBOW SPOUT SHORT JOINT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE	BOX 1000
Elbow, short joint	5/16”	5/16”	Polycarbonate	Clear	Thin	√	**TU261-106505J9B**	
1,157O LTS-USA²	5/16”	5/16”	Polycarbonate	Clear	Std	√	**TU290-106805J9B**	
1,157O LTS-USA²	5/16”	3/16”	Polycarbonate	Clear	Std	√	**TU290-106905J9B**	
LTS-USA 1,157O²	5/16”	5/16”	Polycarbonate	Clear	Std	√	**TU300-106705J9B**	
LTS-USA 1,157O²	5/16”	5/16”	Polycarbonate	Clear	Thin	√	**TU301-106705J9B**	

Retaining hooks

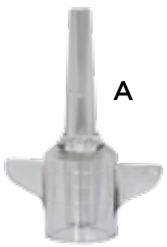
DESCRIPTION	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE	BOX 1000
Y spout 130º	1/4”	5/16”	Polycarbonate	Clear	Std	√	**TU285-103004J9B**	
Y spout 130º	1/4”	5/16”	Nylon	Light blue	Std	√	**TU285-103004N7B**	
Y spout 130º	5/16”	5/16”	Polycarbonate	Clear	Std	√	**TU285-104005J9B**	
Y spout 130º	5/16”	5/16”	Nylon	Light blue	Std	√	**TU285-104005N7B**	

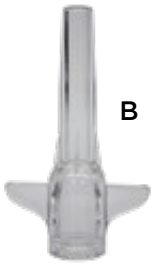
1ST GENERATION SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COL-OR	WALL	CODE	BOX 1000
Seasonal elbow style spout	1/4”	5/16”	Polycarbonate	Clear	Std	**TU048-000004J9B**	
Seasonal elbow style spout	5/16”	5/16”	Polycarbonate	Clear	Std	**TU048-000005J9B**	

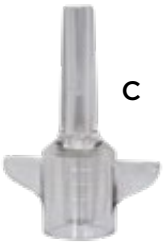


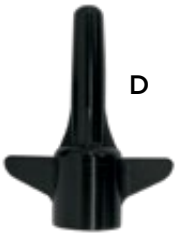


ORIGINAL SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	CODE	BOX 1000
A - Elbow style spout	5/16”	5/16”	Nylon	Black	Std	**TU051-000005J4B**	
B - Elbow style spout with rib	5/16”	5/16”	Nylon	Black	Std	**TU050-000005J4B**	
C - Short spout	7/16”	5/16”	Nylon	Black	Std	**TU055-000007J4B**	









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**	

Stericap

STERICAP 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 **TU020-000003J4**
Star 4 way **TU020-000004J4**
Star 6 way **TU020-000006J4**

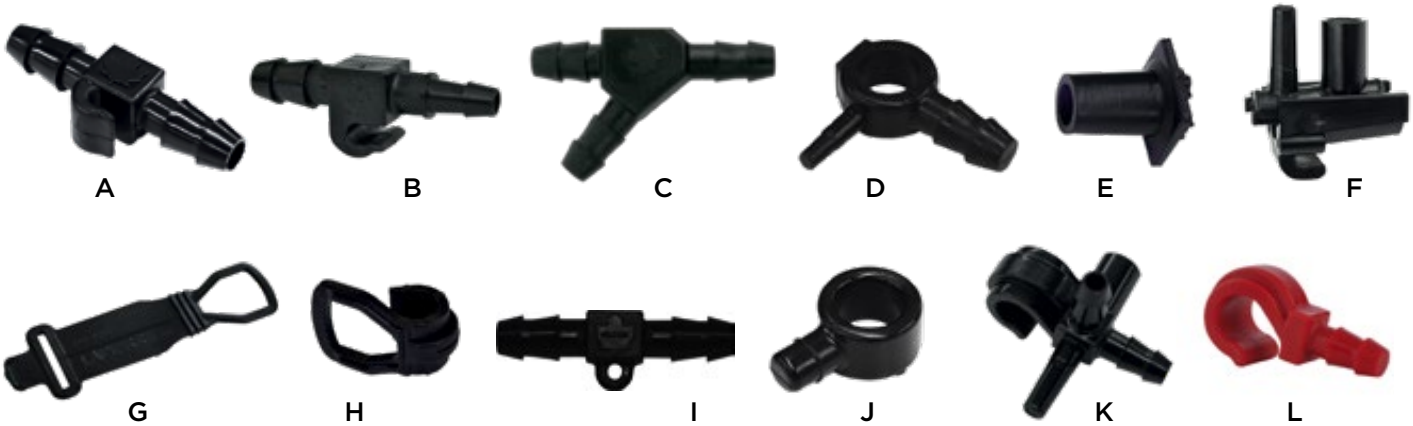
TAXI FITTING

TAXI FITTING (1 BARB)	TUBING DIAMETER	MATERIAL	COLOR	ZML	CODE	BAG 100
T-TAXI	3/16”	Nylon	Black	√	**TU900-126503N4**	
T-TAXI for 3/16” drop line	5/16”	Nylon	Black	√	**TU902-126305N4**	
End of line hook TAXI	3/16”	Nylon	Black	√	**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	√	**TU134-020003J4**	
A - Connector with hook	5/16”	Nylon	Black	-	**TU034-000000J4**	
A - Connector with hook	5/16”	Nylon	Black	√	**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	√	**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	√	**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	√	**TU330-000002N4**	
K - End of line drop-line hook (1 st.)	5/16”	Nylon	Black	√	**TU331-010205N4**	
L - End of line drop-line hook	5/16”	Nylon	Red	√	**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	√	**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	√	**TU341-326002N4**	
E - Tee-plug with elongated cap	5/16”	Nylon	Black	√	**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	√	**TU342-327002N4**	
F - Tee-plug with cap-plug	5/16”	Nylon	Black	√	**TU241-000002J4**	

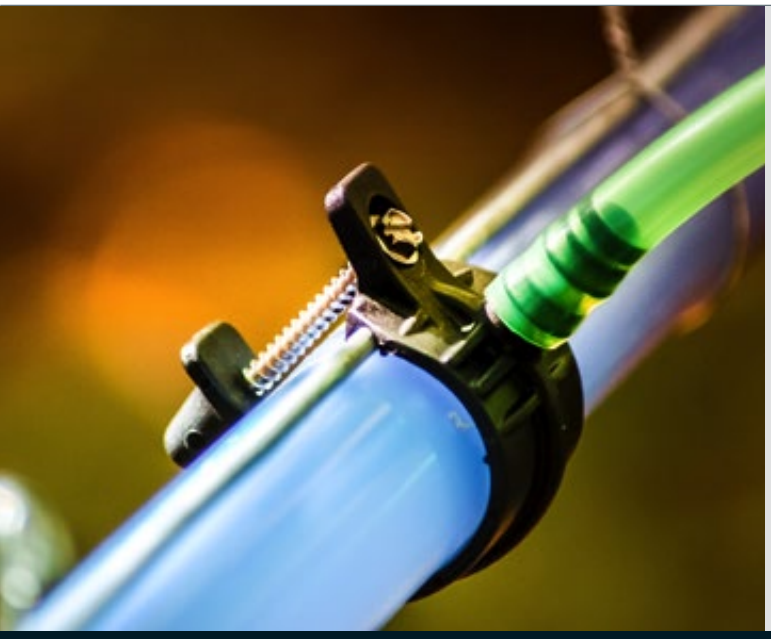
Fixed head and swivel head fittings black nylon

A - B

C

D

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”	√	**TU322-060201J4**	
A - Saddle manifold with fixed head (fits on: 3/4”, 1”, 1-1/4”, 1-1/2”, 2”)	5/16”	31/64”	√	**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”	√	**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 EASY
INSTALLATION 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", 1 1/4" et 1 1/2" 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**	

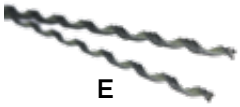
DRILL BIT FOR FLEXCLIP	CODE
Drill bit 7/32"	**TU437-000732XX**

A - 2 gallons bucket (lid not included)

B - 3 gallons bucket (lid not included)

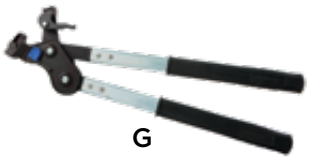
C

D



E

F



G

H

I

Self-fusing silicone to repair air and water leakage, without any tools needed.

TRADITIONAL SAP GATHERING	
A - 2 gallons green bucket **DV091-000002VE**	$3,04
B - 3 gallons green bucket **DV091-000003VE**	$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'' **TU490-000008XX**	$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 FOR WOODEN POST	
TU600-002000N4	$0,68

SELF-FUSING SILICONE TAPE	
Self-fusing silicone tape blue (roll / 1'' x 10') **DV840-016003BU**	$6,73
Self-fusing silicone tape yellow (roll / 1'' x 10') **DV840-016003JA**	$6,73
Self-fusing silicone tape red (roll / 1'' x 10') **DV840-016003RG**	$6,73
Self-fusing silicone tape blue (roll / 1,5'' x 32') **DV840-024010BU**	$30,27
Self-fusing silicone tape yellow (roll / 1,5'' x 32') **DV840-024010JA**	$30,27
Self-fusing silicone tape red (roll / 1,5'' x 32') **DV840-024010RG**	$30,27

ACCESSORIES	
E - Splices (2) **TU061-000000XX**	$2,72
F - Gripple **TU060-000000XX**	$3,04
F - Gripple (medium) **TU060-000002XX**	$2,27
G - Gripple tension tool **TU433-000000XX**	$133,23
H - Manual twister **TU450-000000XX**	$8,38
I - Automatic twister **TU435-000000XX**	$20,50

WIRE TIES 1000/BUNDLE (16 GA)	
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) **TU073-100014G1**	$27,65

WIRE TIES 2500/BUNDLE (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) **TU070-000005G1**	$22,46
6” (1” tubing”) **TU070-000006G1**	$23,73
7” (1-1/4” tubing) **TU070-000007G1**	$25,35
8” (1-1/2” tubing) **TU070-000008G1**	$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

LINEVIPER INSTALLATION MULTI-TOOLS	
5/16” tu412-000005xx	$125,00
3/16” **TU412-000003XX**	$125,00

NEW

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) **TU075-000009G1**	$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

Wire tightner ratchet handle

WIRE TIGHTNER RATCHET	
SS ratchet **ETMRAT01**	$4,46
Wire tightner ratchet handle **ETMRAT02**	$11,46
Aluminium ratchet **ETMRAT04**	$2,04

A - Pruner "Garant"

B - 8" pruner

E - Hand level 5"

F - Hand level 8" to 9" CST Berger

C - Anvil pruner "Garant"

D - Mainline cutter 2"

H - Adirpro Hand Level

G - Telemeter Laser Nikon

Pneumatic drop line tool

I - Installation apron

J - Marking spray paint

LAPIERRE PNEUMATIC DROP LINE TOOL (5/16" TUBING)	
Need a 3 HP compressor minimum (not included) **TU526-000001XX**	$411,56
3/16" tubing clamping block (steel) **TU526-011875XX**	$65,54

PRUNER	
A - Pruner "Garant" **TU448-000000XX**	$16,19
B - 8" pruner **TU448-000002VE**	$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 **TU451-000001XX**	$132,07
F - Hand level 8" to 9" CST Berger **TU451-017630XX**	$142,99
G - Telemeter Laser Nikon **TU351-000001XX**	$477,25
H - Hand level 5,25" to 5,75" Adirpro **TU451-073002XX**	$59,07

LAPIERRE APRONS	
I - Orange Lapierre installation apron (10 pockets) **TU478-000001LA**	$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.

A

B

C

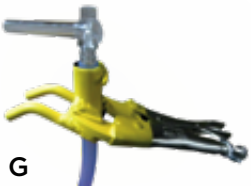
Tubing installation tool

D

E

F

H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Bolduc drill bits

Lapierre drill bits

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* **TU440-000000XX**	$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* **TU540-000000XX**	$43,08
H - Stopper for drill bit 19/64" **TU465-000019XX**	$8,23
H - Stopper for drill bit 5/16" **TU465-000005XX**	$8,23

CLEANING	
Complete cleaning kit for tubing **TU416-000008LX**	$70,04
Tap hole sprayer 1 litre **TU417-011024XX**	$5,00

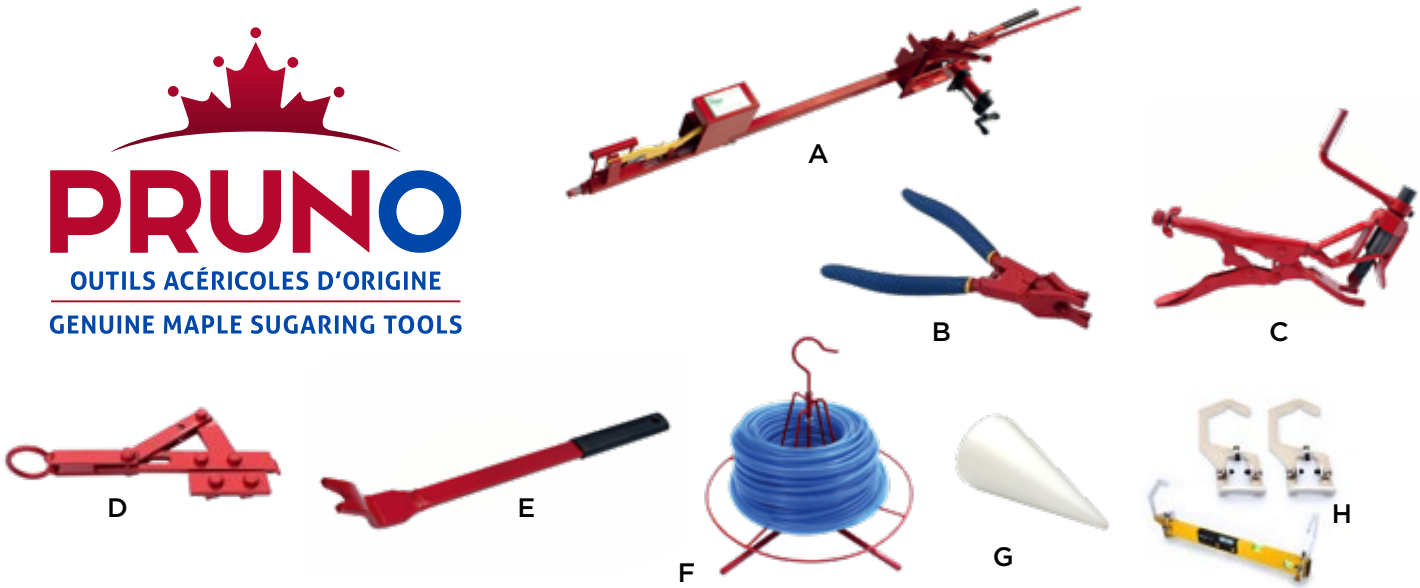
TUBING INSTALLATION TOOL	
Chamberland **TU427-000000XX**	$142,30

LAPIERRE DRILL BITS FOR FROZEN AND NON-FROZEN WOOD	
1/4" **TU437-000004XX**	$12,27
5/16" **TU437-000005XX**	$12,27
7/16" **TU437-000007XX**	$16,11
19/64" **TU437-000019XX**	$12,27

BOLDUC DRILL BITS FOR FROZEN AND NON-FROZEN WOOD	
1/4" **TU437-000004BX**	$19,38
5/16" **TU437-000005BX**	$19,38
7/16" **TU437-000007BX**	$23,38
19/64" **TU437-000019BX**	$19,38

*LAPIERRE EQUIPMENT EXCLUSIVE TOOLS.

PRUNO
OUTILS ACÉRICOLES D'ORIGINE
GENUINE MAPLE SUGARING TOOLS



A - PRUNO RAPIDO-DROP WITH TUBING 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

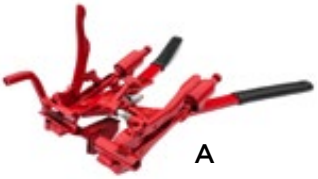
C - PRUNO HOLE PUNCH	
5/16" (Yellow) **TU425-000005XX**	$79,38
3/8" (Black) **TU425-000006XX**	$79,38
7/16" (Blue) **TU425-000007XX**	$80,96
15/32" (Green) **TU425-000015XX**	$80,96
31/64" (Red) **TU425-000031XX**	$80,96

D - 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" **TU456-000005XX**	$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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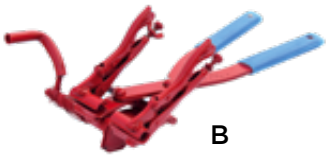
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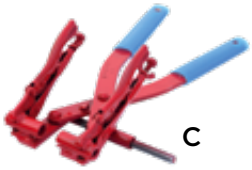
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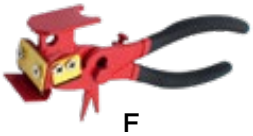
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G

H

I

J

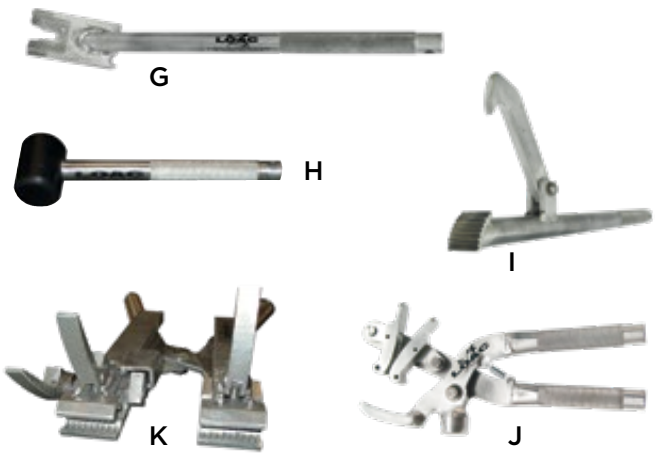
PRUNO TUBING INSTALLATION TOOL	
A - 5/16" Pruno tubing installation auto-tension **TU428-000000XX**	$238,34
B - Pruno light installation tool with 3/16" jaw and cutter **TU528-711081XX**	$170,92
C - Pruno light installation tool with 3/16" jaw **TU528-711091XX**	$134,38
Plier - tubing installation "pruno" 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 **TU429-000000XX**	$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

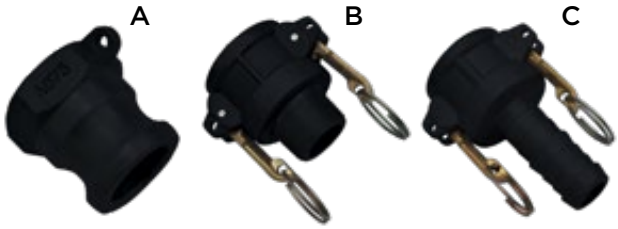
I - PRUNO MAINLINE INSTALLATION TOOLS	
Pruno mainline installation tool 3/4" and 1" **TU445-001216XX**	$182,92
Pruno mainline installation tool 1" and 1-1/4" **TU445-001620XX**	$182,92
Pruno mainline installation tool 1-1/4" and 1-1/2" **TU445-002024XX**	$188,76
Pruno mainline installation tool 1-1/2" 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
0 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

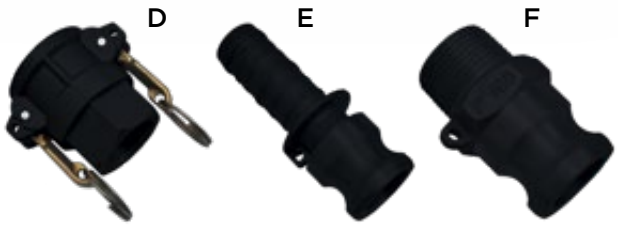


LOAC TOOLS	
G - Universal spout remover 15” **TU443-150507NX**	$26,92
G - Universal spout remover 22,5” **TU443-220507NX**	$30,00
G - Universal spout remover 30” **TU443-300507NX**	$33,08
G - Universal spout remover 40” **TU443-400507NX**	$36,15
Spout remover 25”/40” for 5/16” and 7/16” **TU443-254057NX**	$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 **TU530-000000XX**	$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” **RA780-000008M1**	$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” **RA781-000008M1**	$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	
C - 1-1/2" **RA782-000024M1**	$6,58
C - 2" **RA782-000032M1**	$8,19
D - 1/2" **RA783-000008M1**	$3,81
D - 3/4" **RA783-000012M1**	$4,19
D - 1" **RA783-000016M1**	$5,19
D - 1-1/4" **RA783-000020M1**	$6,65
D - 1-1/2" **RA783-000024M1**	$6,88
D - 2" **RA783-000032M1**	$8,19
E - 1/2" **RA784-000008M1**	$1,42
E - 3/4" **RA784-000012M1**	$1,50
E - 1" **RA784-000016M1**	$1,58
E - 1-1/4" **RA784-000020M1**	$1,89
E - 1-1/2" **RA784-000024M1**	$2,04
E - 2" **RA784-000032M1**	$2,42
F - 1/2" **RA785-000008M1**	$1,50
F - 3/4" **RA785-000012M1**	$1,58

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" **RA786-000008M1**	$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" **RA787-000008M1**	$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

Plug INS

Tee FPT x INS

Tee MPT x INS

Tee INS

Elbow INS

Union INS

Elbow FPT x INS

Elbow MPT x INS

Adaptor FPT x INS

Adaptor MPT x INS

Elbow 90°

Elbow 45°

Red. bushing

Adaptor slip x MPT

Coupling slip

Cap slip

Threaded union

Tee slip

Cross slip

PVC40 GUILLOTINE VALVE	
1” **VA006-001616P2**	$15,04
1-1/2” **VA006-002424P2**	$15,08
2” **VA006-003232P2**	$24,50
3” **VA006-004848P2**	$35,19

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

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

PVC40 line spring

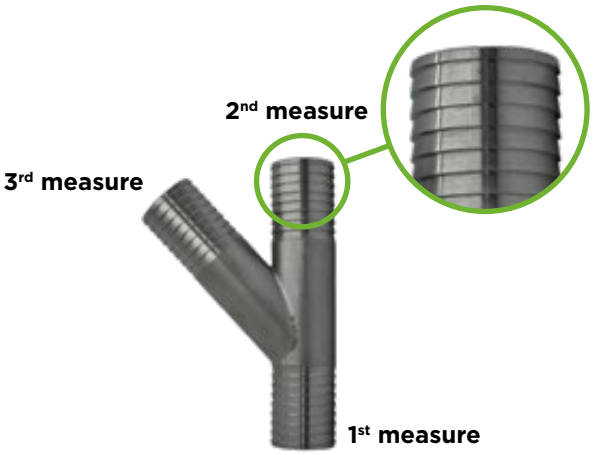
Grey PVC and White PVC40
Many more models available. Please contact your Lapierre representative for more details.

THE MOST COMPLETE LINE OF STAINLESS FITTINGS ON THE MARKET

NEW

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" **TU100-002020S2**	$16,23
1-1/2" **TU100-002424S2**	$16,15
2" **TU100-003232S2**	$19,38
1" x 3/4" **TU100-001612S2**	$15,69
1-1/4" x 1" **TU100-002016S2**	$15,85
1-1/2" x 1-1/4" **TU100-002420S2**	$17,00
2" x 1-1/2" **TU100-003224S2**	$22,54



Y	
3/4" **TU102-121212S2**	$17,69
1" x 3/4" x 3/4" **TU102-161212S2**	$28,85
1" x 1" x 3/4" **TU102-161612S2**	$19,38
1" **TU102-161616S2**	$22,08
1-1/4" x 1" x 1" **TU102-201616S2**	$29,42
1-1/4" x 1-1/4" x 3/4" **TU102-202012S2**	$23,46
1-1/4" x 1-1/4" x 1" **TU102-202016S2**	$23,46
1-1/4" **TU102-202020S2**	$24,69
1-1/2" x 1" x 1" **TU102-241616S2**	$34,65
1-1/2" x 1-1/4" x 1-1/4" **TU102-242020S2**	$31,38
1-1/2" x 1-1/2" x 1" **TU102-242416S2**	$23,11
1-1/2" x 1-1/2" x 1-1/4" **TU102-242420S2**	$24,19
1-1/2" **TU102-242424S2**	$24,46
2" x 2" x 1-1/4" **TU102-323220S2**	$27,92
2" x 2" x 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" x 1" x 3/4" **TU103-161612S2**	$17,61
1" **TU103-161616S2**	$17,81
1-1/4" x 1-1/4" x 3/4" **TU103-202012S2**	$18,50
1-1/4" x 1-1/4" x 1" **TU103-202016S2**	$18,69
1-1/4" **TU103-202020S2**	$19,11
1-1/2" x 1-1/2" x 1" **TU103-242416S2**	$19,46
1-1/2" x 1-1/2" x 1-1/4" **TU103-242420S2**	$18,73
1-1/2" **TU103-242424S2**	$21,31
2" x 2" x 1-1/2" **TU103-323224S2**	$21,73
2" **TU103-323232S2**	$24,19

SS END-PLUG WITH HOOK	
3/4" **TU820-000012SS**	$10,46
1" **TU820-000016SS**	$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" **TU101-001616S2**	$4,35
1-1/4" **TU101-002020S2**	$4,38
1-1/2" **TU101-002424S2**	$4,46
2" **TU101-003232S2**	$9,62
1" x 3/4" **TU101-001612S2**	$10,19
1-1/4" x 1" **TU101-002016S2**	$11,69
1-1/2" x 1-1/4" **TU101-002420S2**	$11,73
2" x 1-1/2" **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 following 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 years) 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.

Image 1

Image 2

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.

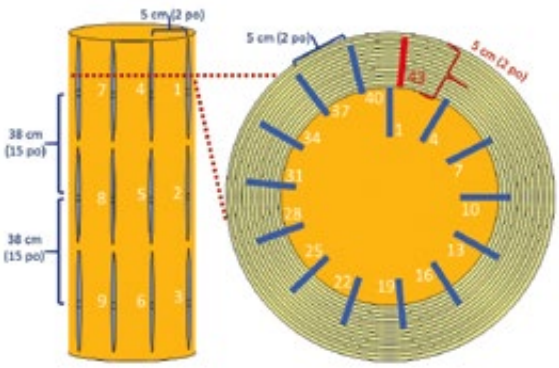


Image 4

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!

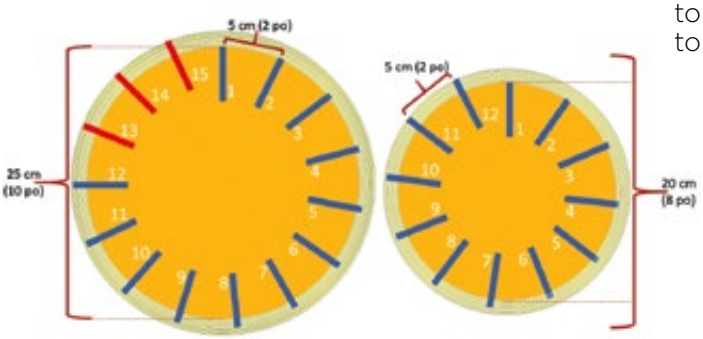


Image 3

Thanks to Stéphane Guay
d'Érable & Chalumeaux

Érable & Chalumeaux

DATACER
sugarbush automation

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 quick return on your investment.

DATACER Base

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**	A, B, C
TRANSMITTER PLL (1 PRESSURE IN PSI, 2 TANK LEVEL BY SONAR) WITHOUT ANTENNA **SM100-000011PLL**	A, B, C
TRANSMITTER PV (1 PRESSURE IN PSI, 1 VACUUM) WITHOUT ANTENNA **SM100-000011PV**	A, B, C
TRANSMITTER PPV (2 PRESSURE IN PS1, 1 VACUUM) WITHOUT ANTENNA **SM100-000011PPV**	A, B, C
TRANSMITTER LV (1 TANK LEVEL BY SONAR, 1 VACUUM) WITHOUT ANTENNA **SM100-000011LV**	A, B, C
TRANSMITTER LLV (2 TANK LEVEL BY SONAR, 1 VACUUM) WITHOUT ANTENNA **SM100-000011LLV**	A, B, C

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**	A, B, C
TRANSMITTER, 3 TANK LEVELS BY SONAR, WITHOUT ANTENNA **SM100-030010NX**	A, B, C
TRANSMITTER, 2 TANK LEVELS BY SONAR, WITHOUT ANTENNA **SM100-020010NX**	A, B, C
TRANSMITTER LP (1 TANK LEVEL BY PRESSURE) WITHOUT ANTENNA **SM100-000013L**	A, B, C

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).

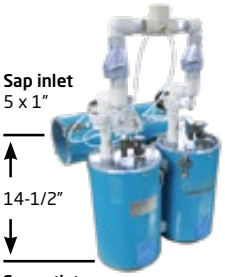
NEW LATCHES
FOR OPTIMAL SEALING

Standard on 12 and 20 inches horizontal extractors

LAPIERRE 12" X 36" HTCV

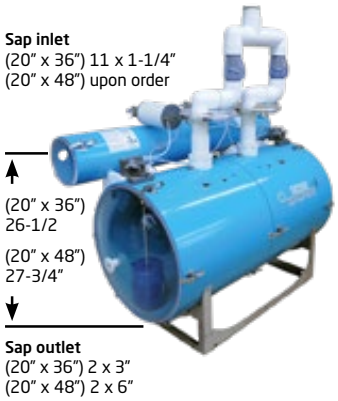
TWIN CONTINUOUS VACUUM EXTRACTOR (VTCV AND HTCV)

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.



8" X 8" X 14" VTCV EXTRACTOR

12" X 36" HTCV EXTRACTOR



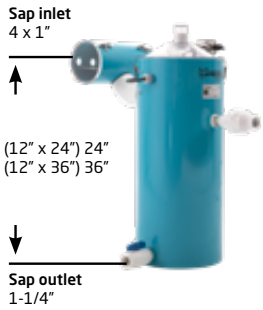
20" X 36" HTCV EXTRACTOR

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	B	Vacuum feed 2" and 6" manifold, maximum of 3700 taps	EX021-361236XX	
12" X 36"	HTCV	BERNARD	F	Vacuum feed 2" and 6" manifold, maximum of 3700 taps	218-JVC	
20" X 36"	HTCV	BERNARD	G	Vacuum feed 2" and 6" manifold, maximum of 12 000 taps	220-2-JVC	
20" X 36"	HTCV	BERNARD	I	Vacuum feed **3"** and 6" manifold, maximum of 15 000 taps	220-3-JVC	
20" X 48"	HTCV	BERNARD	I	Vacuum feed **3"** and 8" manifold, maximum of 20 000 taps	222-JVC	

Illustrated model:
EX125-022036NX

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

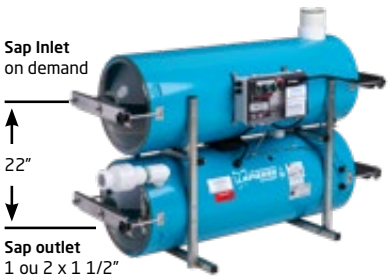
Pumps, draining kit and electrodes pump control not included, see page 36.

LAPIERRE 20" X 36" DHS

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 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.

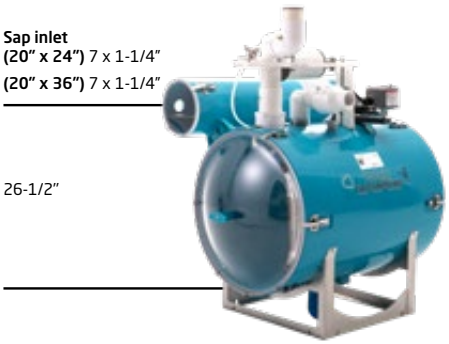
Electrodes pump control not included on EX141-012036XX and EX141-022036XX, see page 36.
Pump not included, see page 41. Draining kit not available for the models above.

BERNARD 20" X 24" HYBRID

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	$60,50

TYPE	SUBMERSIBLE GOULDS PUMP (DRAIN) (240 VOLTS)			
A	3/4 HP	GOULDS	**PM145-001201XX**	
B	1 HP	GOULDS	**PM145-001601XX**	

TYPE	SUBMERSIBLE PUMP (DEEP WELL) FOR EXTRACTEUR			
C	1/2 HP	STARITE 20 GPM	**PM152-082005XX**	
D	1 HP	GOULDS 25 GPM	**PM142-162507NX**	
E	2 HP	GOULDS 25 GPM	**PM142-322511XX**	
F	2 HP	GOULDS 45 GPM	**PM142-324507XX**	
H	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)**

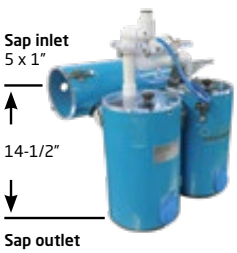
TYPE	ELECTRODES PUMP CONTROL OPTION FOR ELECTRIC EXTACTOR ON NEW EXTRACTOR PURCHASE ONLY		
1	Electrodes pump control, 2HP max, 240V. for 1 pump on 12" and 20" DHS extractor and 12"x 36" vertical	**EX325-013260KT**	
2	Electrodes pump control, 2HP max, 240V. for 1 pump on 20" electric horizontal extractor	**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**	

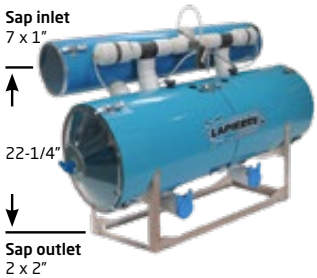
BERNARD 20" X 36" DH

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.

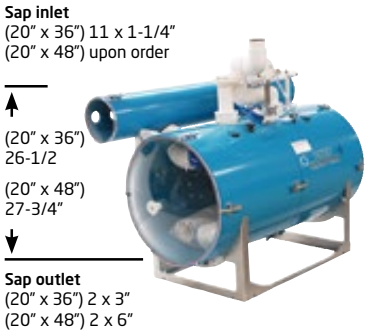


8" X 8" X 14" DV EXTRACTOR



12" X 36" DH EXTRACTOR

12" X 12" X 18" DV EXTRACTOR



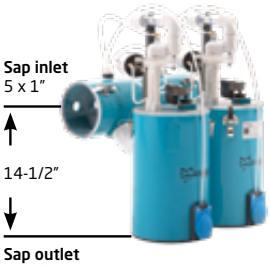
20" X 36" DH EXTRACTOR (2")

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	H	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	K	Vacuum feed 3" and 8" manifold, maximum of 20000 taps	222	

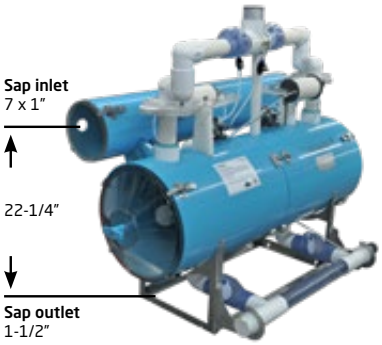
BERNARD 12" X 36" TCV-HRS

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	

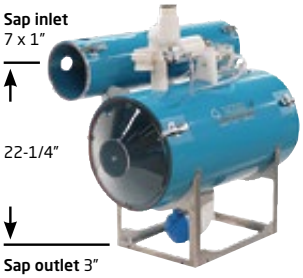
BERNARD 20" X 24" SH

SINGLE MECHANICAL EXTRACTOR (SV AND SH)

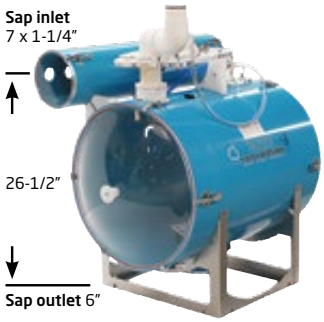
The simplicity of operation of these single mechanical extractors makes them economic and reliable. When the sap level pushes the float up, the vacuum is cut from the belly and the sap is released.

8" X 14" SV EXTRACTOR

12" X 18" SV EXTRACTOR



12" X 24" SH EXTRACTOR



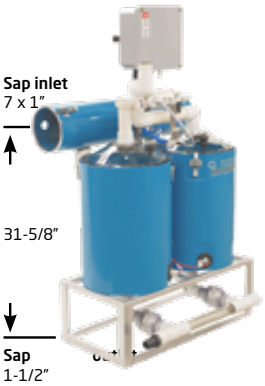
20" X 24" SH 3" EXTRACTOR

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	B	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	B	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	

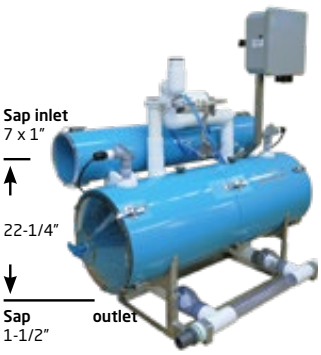
BERNARD 20" X 36" HME

MECHANICAL-ELECTRIC EXTRACTOR (VME and HME)

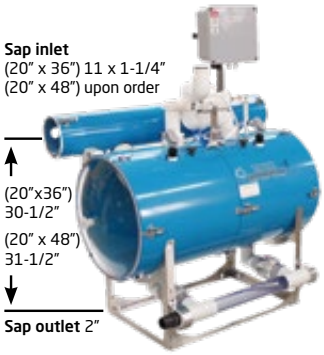
These extractors, operated with an external water pump for sap extraction, with the particularity that the water pump never runs under vacuum. This feature prevents the pump for being unprimed because the mechanical valve system transfers vacuum to the second belly. The water pump starts only when the 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



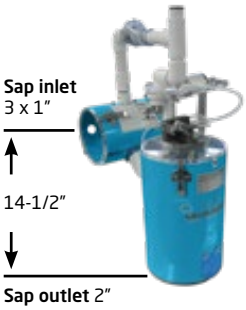
20" X 36" HME EXTRACTOR

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"	HME	BERNARD	E	Vacuum feed 1-1/2" and 6" manifold	218-ME	
20" X 36"	HME	BERNARD	H	Vacuum feed 2" and 6" manifold	220-2-ME	
20" X 36"	HME	BERNARD	J	Vacuum feed 3" and 6" manifold	220-3-ME	
AUTOMATIC STARTER OPTION				Upon purchase of a mechanical-electric extractor	EX222-010460XX	
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.



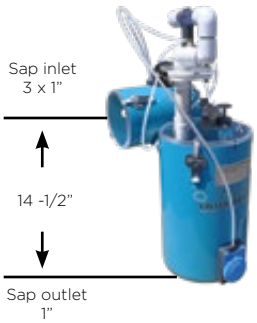
8" X 14" VCV EXTRACTOR

20" X 24" HCV EXTRACTOR 2"

DIMENSION	TYPE	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	
A	DV201-162069XX	O'RING KIT & U-CUP VALVE SYSTEM LAPIERRE 1 X 1 1/4"	$8,12
B	DV201-243269NX	O'RING KIT & U-CUP VALVE SYSTEM LAPIERRE 1 1/2 X 2"	$7,54
C	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 1 1/2"	$10,00
F	DV201-321000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 1 1/2"	$9,23
G	DV201-324000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 2"	$10,77
H	DV201-325000XX	O'RING KIT & U-CUP VALVE SYSTEM BERNARD 2"	$11,54
I	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	$239,22

SELF CLEANING SPRINKLER OPTION

20" sap extractor self cleaning sprinklers.

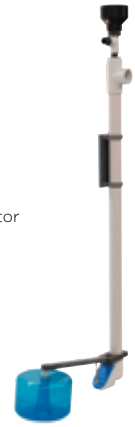
Self cleaning sprinkler (on new extractor) **EX071-000020XX**	
Automatic self cleaning sprinkler with float and timer (on new extractor) **EX171-000020XX**	

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

B - Sap ladder air injector

C - Sap recovery device

D - Sap tank reverse slope



E - Sap tank reverse slope
Illustration: with valve

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).

EX107-000000XX	$48,46

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

A - Lubricants

2 O'rings #139 not included

B - Check valve for SAP extractor

C - Check valve

D - FDA flapper

E - O'rings for extractors

F - Traps and parts

G - Floats

H - Springs and hinges

A - RECOMMENDED LUBRICANTS FOR EXTRACTOR MAINTENANCE	
Lapierre food grade oil 30 ml **DV492-000030XX**	$3,81
Food grade (silicone grease 6 g) **DV490-000001XX**	$1,50
Food grade (silicone grease 150 g) **DV490-000150XX**	$26,11

B - REPLACEMENT CHECK VALVE FOR SAP EXTRACTOR	
1-1/2" **VA026-022424P4**	$39,00
O'ring #139 **DV201-000139XX**	$0,62
3" Lapierre swing check valve **VA025-004848LA**	$115,15

C - REPLACEMENT CHECK VALVE	
1" **VA026-001616P4**	$25,85
1-1/2" **VA026-002424P4**	$31,27
2" **VA026-003232P4**	$45,08
3" **VA026-004848P4**	$80,61

D - FDA FLAPPER	
2" Trap alone **EX204-000021U3**	$18,46
3" Trap alone **EX200-000054U3**	$23,08
Trap FDA 2" Lapierre, Kit **EX204-000021U3KT**	$22,88
Trap FDA 3" Lapierre, Kit **EX200-000054U3KT**	$31,92

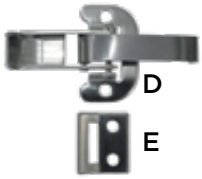
E - REPLACEMENT O'RINGS FOR EXTRACTORS	
6" orange silicone **DV201-139006U2**	$4,62
8" orange silicone **DV201-139008U2**	$5,62
12" orange silicone **DV201-187012U2**	$11,04
20" orange silicone **DV201-187020U2**	$11,69

F - REPLACEMENT TRAPS AND PARTS	
6" Replacement trap - Complete **EX200-000001XX**	$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**	$53,07
7-1/2" Translucent float, 5/8", rod guide (for electric control with float #432) **EX315-100030NX**	$53,19

H - REPLACEMENT SPRINGS AND HINGES	
336-B	$9,23

A - Aluminium extractor support rack with platform



D

E

Stainless steel clip and hook

B - Vacuum draining valve

F - Stainless manifold strainer

C - Extractor latches

A - ALUMINUM EXTRACTOR SUPPORT RACK	
3' x 1 to 12'' (adjustable) **EX040-000003XX**	$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) **EX040-000006XX**	$120,00
7-1/2' x 1 to 12'' (adjustable) **EX040-000007XX**	$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) **DV220-000001KT**	$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

A - Horizontal bulk tank manifold

B - Vertical bulk tank manifold

C - Horizontal vacuum transfer manifold

D - Vertical vacuum transfer tank

E - Vertical vacuum transfer tank with frame

F - Horizontal vacuum transfer tank 12"

G - Horizontal vacuum transfer tank 20"

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

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

C - HORIZONTAL VACUUM TRANSFER 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" x 18" **RT003-001218XX**	$222,30
12" x 24" **RT003-001224XX**	$249,99
12" x 36" **RT003-001236XX**	$258,45

E - VERTICAL VACUUM TRANSFER TANK WITH FRAME	
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.

GOULDS PUMP				
1/2 HP	1 ST	20 gal @ 20 PSI / 0 gal @ 28 PSI	**PM020-000008XX**	
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

VACUUM POWERED SAP PISTON PUMP

Unique to Lapierre Equipment, these pumps allow sap to be pumped a great distance without electricity. Proven reliability since 1996.

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/Hg **PM015-000101XX**	$688,43
DV200-001001KT Replacement seal kit	$20,31

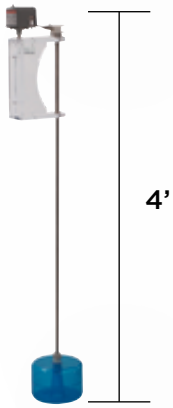
SINGLE ACTION WITH DUAL VACUUM CYLINDER	
225 USG/Hr @ 132'/elevation or 60 psi @ 20 in/Hg **PM015-000102XX**	$829,97
DV200-002001KT Replacement seal kit	$24,38

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

A - Pump connect kit with SS spring valve

B - Tank electric control



C - Bernard electric tank control

A - 1" PUMP CONNECT KIT WITH SS SPRING VALVE	
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	› Vacuum 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!

BUSCH

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)	
Base for 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 (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

Base on casters for our Busch R5 pumps now available.

FILTER IN WASHABLE FABRIC

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

GEAR BOX OIL, 1 LITER (BUSCH MINK VACUUM PUMPS)	
PM327-164883XX	$24,11

HOOKS LUBRICANT, 500 ML (BUSCH VACUUM PUMP)	
PM428-034500ML	$11,12

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" (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**

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 efficiency 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)	9 CFM @ 15" (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**	

PUMP R0063 (OIL 3L)	23 CFM @ 15" (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 @ 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	153 CFM @ 15" (MAX.: 29,9 IN/HG) SEE YOUR SALES REPRESENTATIVE FOR DETAILS

PUMP R0630, 25HP	228 CFM @ 15" (MAX.: 29,9 IN/HG) SEE YOUR SALES REPRESENTATIVE FOR DETAILS

Service parts

OIL LUBRICANT 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 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.

LIQUID RING VACUUM PUMP

LAPIERRE EQUIPMENT
QUALITY ASSEMBLY

Single stage

Single stage
up to 25.5 in/Hg

3404		
Sihi pump, SS turbine, 20 CFM @ 15 in/Hg 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

LEMR 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

45312		
Sihi pump, SS turbine, 46 CFM @ 15 in/Hg with 7,5HP motor, frame, coupling and shield	**PM106-045312S6**	
Connection fittings	**PM108-040412XX**	$242,30
Muffler 2"	**PM465-000007XX**	$26,92

45317		
Sihi pump, SS turbine, 54 CFM @ 15 in/Hg with 10HP motor, frame, coupling and shield	**PM106-045317S6**	
Connection fittings	**PM108-045317XX**	$242,30
Muffler 2"	**PM465-000007XX**	$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**	$446,14

SUPPORT FOR SIHI VACUUM PUMP (WALL MOUNTING)		
Set of 2 (16" x 16")	**PM025-321616XX**	$76,27

GUZZLER ELECTRIC SINGLE DIAPHRAGM PUMP GE-0401N	
3/4 - 1 1/4", 115 V, 22Hg, up to 400 taps **PM007-040116NX**	
Service kit (diaphragm & flapper valves) **PM407-000017XX**	

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**	

Vacuum regulator 1-1/2"

Vacuum regulator 2"

E

F - Bernard automatic start and stop

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

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**	$843,04
F - Bernard automatic start and stop for vacuum pump on electric sap extractor **518-RE-1P1V**	$399,98

C - Bernard humidity trap **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**	

MAGNETIC STARTER (240 VOLTS, 1PH, AUTO/OFF/ON)	
3 HP **PM380-000003XX**	$371,79
5 HP **PM380-000005XX**	$403,83
7,5 HP **PM380-000007XX**	$461,52
10 HP **PM380-000010XX**	$499,98

G - Horizontal humidity trap **H -** Vertical humidity trap **I -** Control temperature connexion

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

H - VERTICAL HUMIDITY TRAP	
2" ball **TH002-000002NX**	$309,22
3" ball **TH002-000003NX**	$313,06

I - CONTROL TEMPERATURE CONNEXION FOR DRIVE AND MAGNETIC STARTER (120 VOLTS)	
EL521-419001XX	$122,96

A **B -** Vacuum breaker valve

A - VERTICAL ELECTRIC HUMIDITY TRAP	
114 X 25 1/2" with 3" inlet and outlet, 3" flap included **TH003-031425XX**	$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' x 8' x 37-1/2"	385	462	1749	**BA001-030837S3**
3' x 8' x 49-1/2"	535	642	2430	**BA001-030849S3**
3' x 12' x 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

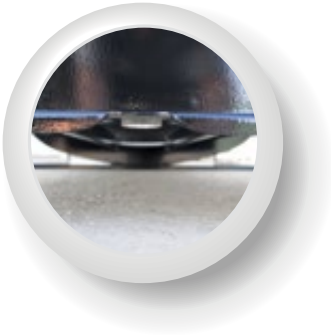
Our special design gives you clearance.

STANDARD TANK DRAIN OUTLETS:

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

MPT STAINLESS STEEL OUTLET OPTION ON TANK

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 sap leading 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 concentrate treatments on the properties of

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 √R5 to √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 √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.

ACER
Centre de recherche, de développement et de transfert technologique acéricole inc.

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

CUSTOMIZABLE NAME ON THE FRONT PLATE

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
7-1/2' x 8' x 66"	1760	2113	**7999**	**BA001-070866S3**
7-1/2' x 8' x 84"	2322	2786	**10546**	**BA001-070884S3**
7-1/2' x 12' x 66"	2641	3169	**11996**	**BA001-071266S3**
7-1/2' x 12' x 84"	3483	4179	**15819**	**BA001-071284S3**
7-1/2' x 16' x 66"	3521	4225	**15993**	**BA001-071666S3**
7-1/2' x 16' x 84"	4644	5573	**21096**	**BA001-071684S3**
7-1/2' x 20' x 66"	4401	5281	**19991**	**BA001-072066S3**
7-1/2' x 20' x 84"	5805	6966	**26369**	**BA001-072084S3**
7-1/2' x 24' x 66"	5281	6338	**23992**	**BA001-072466S3**
7-1/2' x 24' x 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") **DV436-000048M1**	$32,65
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.

HORIZONTAL LEG TANK	
20" x 29" 29 imp. gal (35 USG) **BA008-000035H1**	$119,53
23" x 43" 54 imp. gal (65 USG) **BA008-000065H1**	$221,30

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

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

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

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" **BA850-000032S2**	$23,08
3" **BA850-000048S2**	$30,00

Can be positioned as per customer's need.

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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.

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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.
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- Stainless steel wash tank
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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)
- Element, thermostat and water level control on wash tank
- Automation system
- Booster pump

NEW MODEL

10000 SERIES

10k model shown

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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

- 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 quick-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

HYPER ºBRIX™
CONCENTRATION

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 **DV424-000004XX**	$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 **DV243-000000XX**	$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 15 GAL / MAX. CAPACITY 75 PSI	
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**

STAINLESS STEEL WASH TANK		
12" x 24" x 36", 29 USG	**CN006-122436S3**	$492,29
Sap filter rack (24" tank)	**CN427-000002A1**	$104,27
Blue housing rack (24" tank)	**CN426-000002A1**	$56,65
12" x 30" x 36", 36 USG	**CN006-123036S3**	$503,83
Sap filter rack (30" tank)	**CN427-000003A1**	$110,57
Blue housing rack (30" tank)	**CN426-000003A1**	$58,65
12" x 36" x 36", 43 USG	**CN006-123636S3**	$519,21
Sap filter rack (36" tank)	**CN427-000004A1**	$157,99
Blue housing rack (36" tank)	**CN426-000004A1**	$60,65
24" x 36" x 36", 84 USG	**CN006-243636S3**	$573,05
Sap filter rack (36" tank)	**CN427-000004A1**	$157,99
Blue housing rack 70 gal (36" tank)	**CN426-000005A1**	$115,38
24" x 48" x 36", 108 USG	**CN006-244836S3**	$611,51
18" x 48" x 36", 84 USG	**CN006-184836S3**	$592,28
Sap filter rack (48" tank)	**CN427-000006A1**	$166,53
Blue housing rack (48" tank)	**CN426-000006A1**	$65,19

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 GLYCERINE 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" x 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

NEW

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**

BRIX READER 0-33.5

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**

BRIX READER 0-80

RIX READER ON SUPPORT
ATAGO 0-33.5 BRIX READER **DV175-000033KT**
ATAGO 0-80 BRIX READER **DV176-000080KT**

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 conditions. 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 remove.
- 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).

- The pan volume is determined in such a way as to ensure a minimum sugar residence time of 60 minutes to prevent the occurrence of dark syrup.
- 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

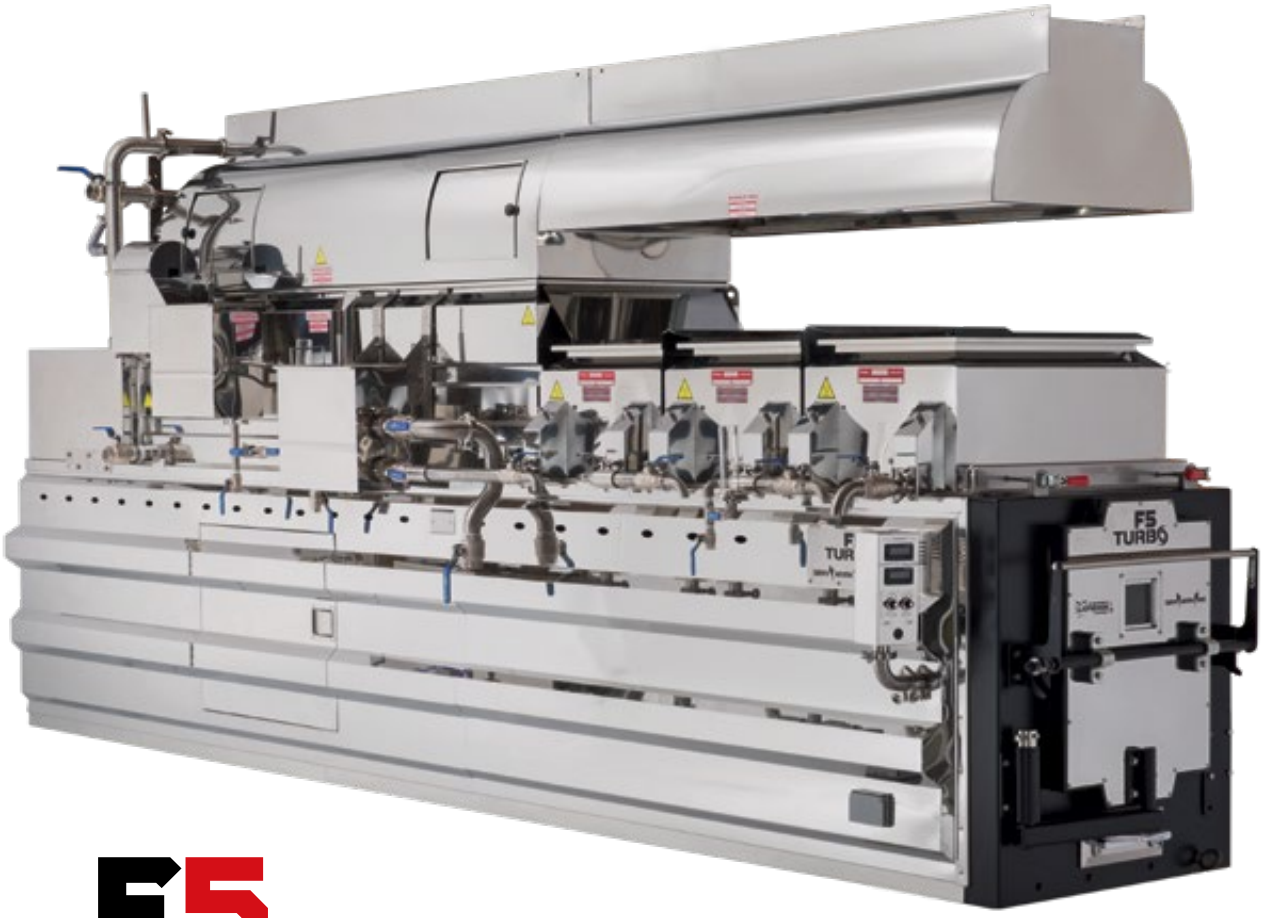
Impressively easy to use, the 50/50 configuration evaporators have flat pans of equivalent length to the surface of the flue or tube pans. The optimum configuration to enhance flavour development while saving fuel.

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



F5 TURBO

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.

LAPIERRE
WATERLOO | SMALL

FORCE 5

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.

C US

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.

HYPER ºBRIX EVAPORATION

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.

FUSION X2

WOOD FIRED EVAPORATOR

IGNITE THE POWER OF NATURE

FUSION X2

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[MD] combustion controller

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

OUR CLASSIC OIL EVAPORATOR: **THE VOLCANO 2000**

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.

VOLCANO 2000 HYPER ºBRIX EVAPORATION

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

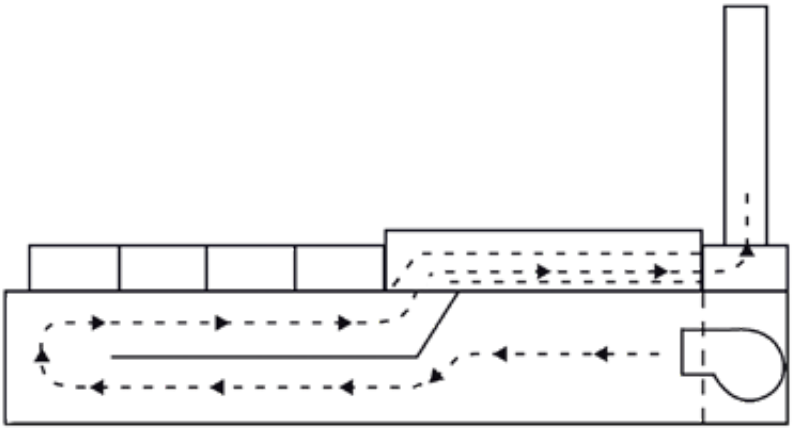
- High energy efficiency;
- Unique flame pattern;
- Heat can vary from 20 % to 100 %;
- Environment oriented european technology;
- The most economical burner on the market;
- Propane and natural gaz also available.

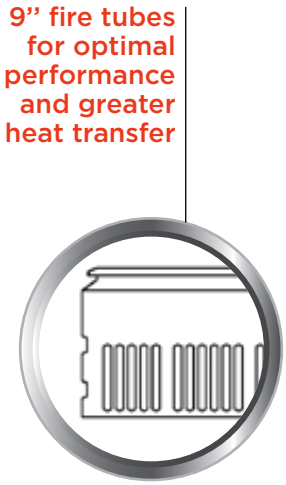
USES LESS THAN 1/3RD GALLON OF OIL TO MAKE ONE GALLON OF SYRUP (AT 18° BRIX)

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;
- Slows gas flow for better heat transfer resulting in superior evaporation rate;
- 4 finishing pans design for high concentration and flavour enhancement;
- Fully adjustable boiling intensity.;
- Silent operation.

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





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' x 14'
- 4' x 12' / 4' x 14'

AVAILABLE OPTIONS

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

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.

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.

Mini-Pro

Picture shows 19" x 48"

AVAILABLE SIZES

- 19" x 48" (30 to 50 taps)

AVAILABLE OPTION

- Forced air arch.

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.

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.

Junior

Picture shows 24" x 72"

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

Picture shows 2' x 6'

AVAILABLE SIZES

- 2' x 6'
- 2' x 8'
- 2' x 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" x 36" up to 72" x 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" x 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

EFFECTIVE AND ECONOMICAL TECHNOLOGY

AVAILABLE SIZES

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

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.

Available for all Lapierre-Waterloo-Small evaporators models (more than 3')

Please contact your representative for more details.

REVERSE FLOW KIT

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

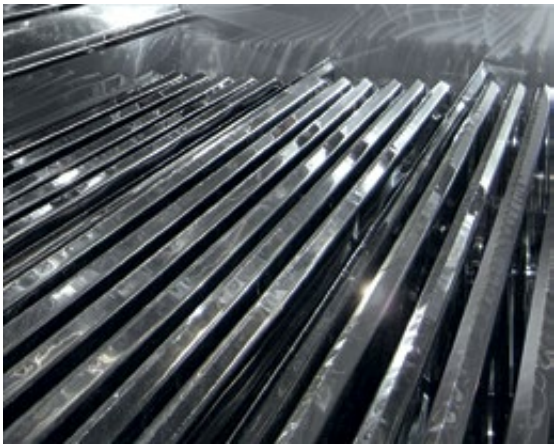
Fits wood or oil evaporators. Includes: ball valves and fittings to connect "HOT" float box to rear and front inlets. You will be ready to draw syrup in less than 5 minutes (requires 3 to 4 syrup pan configuration). Optional: all stainless steel ball valves.

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.

SAFETY, it's a family affair!

NOW OFFERING HIGH QUALITY CHIMNEY SOLUTIONS

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.

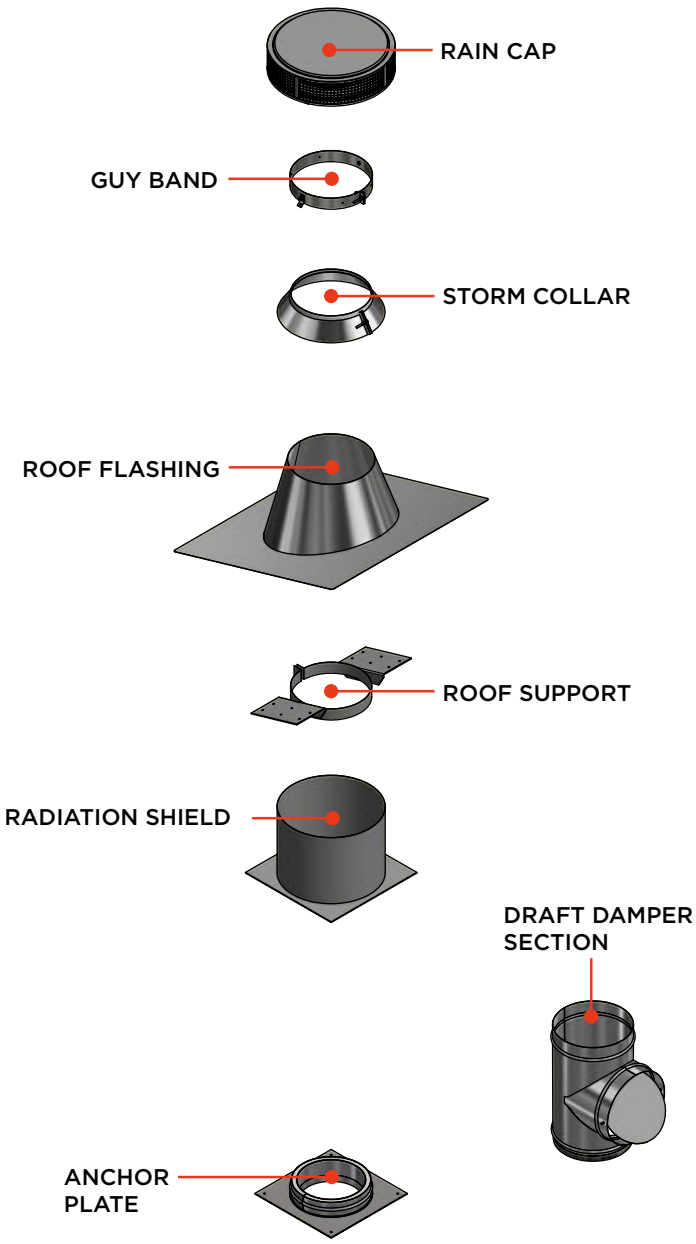
LAPIERRE EQUIPMENTS IS NOW OFFERING A DOUBLE WALL INSULATED LISTED CHIMNEY

- 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.

CHIMNEY PIPE		
PREFAB		
CODE	DIAMETRE	HEIGHT
CH008-061200LW	6”	12”
CH008-061800LW	6”	18”
CH008-062400LW	6”	24”
CH008-064800LW	6”	48”
CH008-081200LW	8”	12”
CH008-081800LW	8”	18”
CH008-082400LW	8”	24”
CH008-084800LW	8”	48”
CH008-101200LW	10”	12”
CH008-101800LW	10”	18”
CH008-102400LW	10”	24”
CH008-104800LW	10”	48”
CH008-121200LW	12”	12”
CH008-121800LW	12”	18”
CH008-122400LW	12”	24”
CH008-124800LW	12”	48”
CH008-141200LW	14”	12”
CH008-141800LW	14”	18”
CH008-142400LW	14”	24”
CH008-144800LW	14”	48”
CH008-161200LW	16”	12”
CH008-161800LW	16”	18”
CH008-162400LW	16”	24”
CH008-164800LW	16”	48”
CH008-181200LW	18”	12”
CH008-181800LW	18”	18”
CH008-182400LW	18”	24”
CH008-184800LW	18”	48”
CH008-201200LW	20”	12”
CH008-201800LW	20”	18”
CH008-202400LW	20”	24”
CH008-204800LW	20”	48”
CH008-221200LW	22”	12”
CH008-221800LW	22”	18”
CH008-222400LW	22”	24”
CH008-224800LW	22”	48”
CH008-241200LW	24”	12”
CH008-241800LW	24”	18”
CH008-242400LW	24”	24”
CH008-244800LW	24”	48”

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 EXCLUSIVE

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)	
Control unit **EADETEC3**	$180,76
Complete kit **NV005-000001ST**	$565,36

DISPENSER AUTO FOR LIQUID DE-FOAMER	
DV168-000000XX	

Replacement pump
PM568-240104XX

Low sap alarms Ystec (2 probes)

WATER LEVEL SENSOR YSTEC WITH AUDIBLE ALARM (1 PROBE)	
EADETEC4	$192,30

LOW SAP ALARMS YSTEC WITH BURNER (2 PROBES)	
EADETEC3-2	$282,30

SS ROPE OPERATED STACK COVER

Available for smoke stack and steam stack in all sizes.
Price upon request.

PEAK STYLE COVER

For steam stack in all sizes.
Price upon request.

A

B

C

F - Lovibond comparator

J - Dial thermometer

D - Barometer

E - Digital Grader

H

K

G

I

THERMOMETER	
A - 8-1/4" digital thermometer **EITB0012**	$27,65
B - 12" SS back thermometer **EITDT158**	$12,77
C - 18" thermometer **EITBC018**	$70,27
Replacement stem for 18" thermometer **EITRC018**	$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

CENTER ACER	
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 **DV028-000000XX**	$27,15
I - Syrup grading kit VT 2019 **EICOL001**	$18,55
K- 1 oz simple bottle **EICOL016**	$0,77

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

OPTIFLAM[MD]
combustion controller

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 speed 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.

LAPIERRE EXCLUSIVE

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

B

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

Conductivimeter

Hydrometer cup

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

SS butterfly valve

Ceramic blanket

Sanitay tri-clamp replacement clear gaseket

SS Ferrule clamp

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

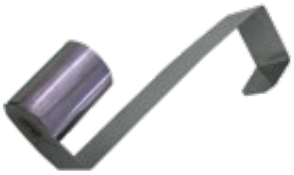
HEAVY DUTY SS CLAMP	
1-1/2" **DV256-000024S2**	$5,38
2" **DV256-000032S2**	$7,31

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

HIGH DENSITY ARCH BOARD	
24" x 48" x 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



Defoamer cup

Defoamer

Sunflower oil

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" **DV045-000001S2**	$13,08
Defoamer cup 1-1/2" **DV045-000002S2**	$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

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

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

Aluminium step

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

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

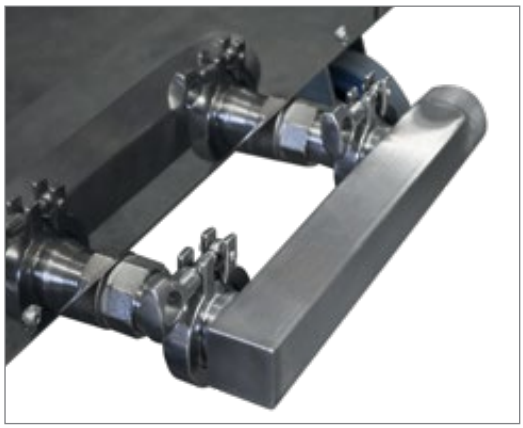
SYRUP PITCHER	
Syrup pitcher 1.5L with spout **ECSPS1500**	$63,96

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

Cover optional.

DUAL SQUARE TANKS ON CASTERS WITH VALVE					
18" x 18" x 32"	2 x 27 imp. gal	2 x 32 USG	21" x 39" x 32" (Overall)	**EM160-181832S3**	$956,12
18" x 24" x 32"	2 x 35 imp. gal	2 x 42 USG	21" x 51" x 32" (Overall)	**EM160-182432S3**	$992,27
18" x 36" x 32"	2 x 53 imp. gal	2 x 63 USG	21" x 75" x 32" (Overall)	**EM160-183632S3**	$1057,65
24" x 24" x 32"	2 x 50 imp. gal	2 x 60 USG	27" x 51" x 32" (Overall)	**EM160-242432S3**	$999,96
24" x 36" x 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" x 18" x 32"	3 x 27 imp. gal	3 x 32 USG	21" x 57" x 32" (Overall)	**EM161-181832S3**	$1288,41
18" x 24" x 32"	3 x 35 imp. gal	3 x 42 USG	21" x 75" x 32" (Overall)	**EM161-182432S3**	$1349,95
24" x 24" x 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" x 1" x 1" x 1-1/4" (MPT x MPT x MPT x 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

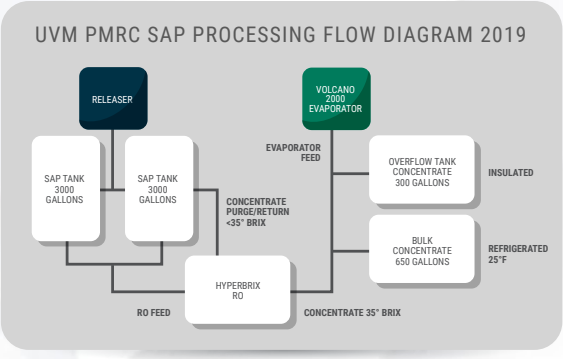
Stainless steel outlet optional.

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" x 24" x 32"	2 x 35 imp. gal	2 x 38 USG	21" x 51" x 32" (Overall)	**EM170-182432S3**	$1273,03
18" x 36" x 32"	2 x 53 imp. gal	2 x 63 USG	21" x 75" x 32" (Overall)	**EM170-183632S3**	$1342,25
24" x 24" x 32"	2 x 50 imp. gal	2 x 60 USG	27" x 51" x 32" (Overall)	**EM170-242432S3**	$1284,56
24" x 36" x 32"	2 x 75 imp. gal	2 x 90 USG	27" x 75" x 32" (Overall)	**EM170-243632S3**	$1357,64

Master 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 0°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 0c (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 **SR005-080707SP**	
7” filter press, 10 hollow and 9 plates with N4000L lead free pumping unit **SR005-100907SP**	
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

Diatomaceous earth

Filter cloth

Filter paper

Restriction plate

Pompco S-275

Versamatic diaphragm syrup pump

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 HEAD	
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

Each 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
1/4" 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	
1/2 HP Baldor motor with Y51 pump (with aluminium suction and piston chamber) **SR003-080751XNA**	$2394,52

RESTRICTION PLATE FOR SQUARE FILTER PRESS	
SS 10" plate **SR405-101832S4**	$36,54
SS 15" Plate **SR405-151632S4**	$54,23

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

Sirofilter

SIROFILTER	
12" Sirofilter complete w/o pumping unit **SR002-000012XX**	
24" Sirofilter complete w/o pumping unit **SR002-000024XX**	

LAPIERRE EXCLUSIVE

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

Bottling valve only

Bottling valve kit

LAPIERRE PNEUMATIC BOTTLER SYSTEM	
Lapierre pneumatic bottler system with manual control (bottling valve and tablet not included) **EM100-160102KT**	$1741,47
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

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
Bottling valve 15mm **EM245-062415XX**	$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 WATER JACKETED TANKS	
10 gal (12 USG) 20" x 16" 1 x 3000 W 2 syrup outlets **EM140-000010ST**	$1449,94
Stand **SCEBS2016A**	$392,29
24 gal (29 USG) 32" x 20" 2 x 3000 W 4 Syrup outlets **SCEB3220A**	$2106,84
Stand **SCEBS3220A**	$519,98
34 gal (41 USG) 34" x 24" 2 x 3000 W 4 Syrup outlets **SCEB3424A**	$2188,37
Stand **SCEBS3424A**	$562,29
50 gal (60 USG) 38" x 28" 2 x 3000 W 4 Syrup outlets **SCEB3828A**	$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" x 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

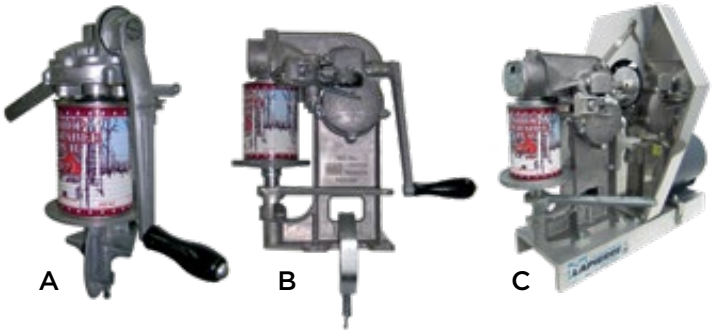
8" or 10" = pan water level

Cover not included

Mini steam pan

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



A B C

D - Maple cream maker 1/2HP

E - Maple cream maker 2HP

F - Maple candy machine

LABELS	
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**	

MAPLE JELLY POWDER	
Genugel 200g **EM399-000200GR**	$20,85

CAN SEALER	
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

MAPLE CREAM MAKER

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**	

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. **EM100-000003SP**	

F - MAPLE CANDY MACHINE	
A motor driven auger mixes the maple sugar with perfect consistency and feeds the candy mold (120 volts). **PP024-000001ST**	

HILLSIDE PLASTICS, INC.
Home of sugarhill® CONTAINERS

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 CONTAINERS (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

Black plastic closure

Gold tamper-evident plastic closure

Gold plastic closure

BOTTLES (CLOSURES NOT INCLUDED)	
A - Barrel, 50 ml (closure 18 mm) **EM045-080050XX**	$13,73 BOX/12
A - Barrel, 100 ml (closure 24 mm) **EM045-080100XX**	$15,65 BOX/12
A - Barrel, 200 ml (closure 28 mm) **EM045-080200XX**	$18,77 BOX/12
B - Silhouette 50 ml (closure 18 mm) **EM045-092450XX**	$34,00 BOX/24
B - Silhouette 100 ml (closure 24 mm) **EM045-090100XX**	$19,19 BOX/12
C - Erable 250 ml (closure 28 mm) **EM045-020250XX**	$22,85 BOX/12
D - Horizon 250 ml (closure 28 mm) **EM045-040250XX**	$28,73 BOX/12
E - Maple 375 ml (closure 28-400 mm) **EM045-030375XX**	$28,88 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) **EM045-061000XX**	$11,38 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 **EM091-000000NR**	$1,42 BAG/12
Gold NuCan closure **EM091-000000GD**	$1,42 BAG/12

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

A

B

C

D

E

F

G

H

I

Many grade label models are available. Ask your Lapierre representative for details.

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) **EM040-020250XX**	$23,08 BOX/12
E - Snow flake, 250 ml (closure 28 mm) **EM040-010250XX**	$22,96 BOX/12
F - Kent, 250 ml (closure 28 mm) **EM048-010250XX**	$7,38 BOX/12
F - Kent, 375 ml (closure 28 mm) **EM048-010375XX**	$9,04 BOX/12
F - Kent, 500 ml (closure 28 mm) **EM048-010500XX**	$10,65 BOX/12
G - New Spirit, 1 L (universal closure) **EM043-100006XX**	$7,81 BOX/6
H - Medaillon, 50 ml (closure 18 mm) **EM042-050048XX**	$29,54 BOX/48
H - Medaillon, 100 ml (closure 24 mm) **EM042-100012XX**	$10,88 BOX/12
H - Medaillon, 250 ml (closure 24 mm) **EM042-250012XX**	$11,92 BOX/12
I - Polo, 250 ml (closure 28 mm) **EM040-030250XX**	$15,08 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 PURCHASE OF 50 STAINLESS STEEL DRUMS OR MORE

Stainless steel pail

Drum transfer tool (alone)

Blue plastic jug

Drum (1 hem)

Drum (2 hems)

Drum truck

Metal drum heater belt

STAINLESS STEEL INOVAWELD DRUMS	
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.) **BR001-002934S4**	$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).

STAINLESS STEEL DRUM FILLER TANK	
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 **DV093-000009S3**	$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

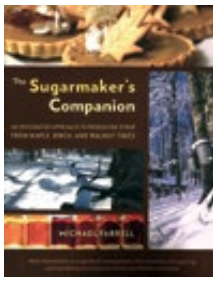
HEAVY DUTY METAL DRUM HEATER BELT	
34 and 40 gal. drum **BR301-003440XX**	$226,91
45 and 55 gal. drum **BR301-004555XX**	$242,30

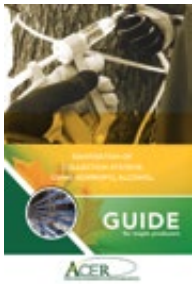
PLASTICA ACCESSORIES	
Adaptor for drum **BR400-000000J1**	$13,08
2" standard cap large thread **BR405-000032J1**	$2,69
2" standard cap, large thread for 3/4" valve **BR407-120032J1**	$2,69
*PF 2" standard cap, small thread for 3/4" valve **BR407-120132J1**	$2,69
Key for drum **BR420-000000XX**	$18,08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

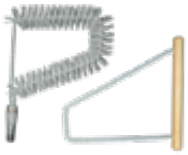
BOOKS	
États de santé des érablières (french only) Carine Annecou, Rock Ouimet et Jean-David Moore **ECGUIDESE**	$24,38
Registre de production du sirop d'érable (french only) Center Acer **DV900-000001FX**	$16,00
Sanitisation of collection systems using isopropyl alcohol - Center Acer **DV900-000002AX**	$7,85
The Sugarmaker's companion Michael Farrell **PA990-000003XX**	$28,46
Érable: 100 recettes sucrées et salées (french only) **PA991-000001XX**	$16,88





A

B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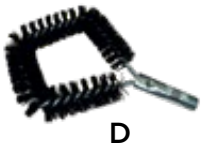
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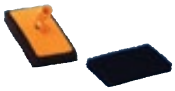
F

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 **DV088-000009XX**	$4,38

Stainless steel cleaner

Powder pan cleaner

Pan and tubing cleaners

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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NOTES

NOTES

NOTES

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