



# 2021 CATALOG











# Keep the direction

Like a tap, the pandemic is leaving a mark under our bark as maple syrup producers and business managers. It should be noted that we are not the only ones to roll up our sleeves to maintain a certain balance and pursue our passion.

Despite these exploits, we reflected and adapted. We took actions to stay the course. Since it was impossible for us to meet at our open houses, we redoubled our efforts—simply yet effectively—to maintain these relationships that are so dear to us by offering several virtual services and demonstrations.

Your satisfaction makes us react. It drives us to innovate. Fortunately, it is part of our DNA to innovate and improve ourselves; it boils within us! This explains why we make sure to improve our factory departments in terms of efficiency. This is also why our brand-new line of VISION evaporators has arrived—a little marvel with showy and high-performance attributes that has been and remains a smashing success despite the unprecedented context.

We also stepped up development of DATACER, a system allowing for the remote control and automation of certain pumping station equipment. Significantly enhanced by the improvement of the automatic modulation of the vacuum, the addition of an emergency stop to the extractor, and the speed of execution of its functions, DATACER is promising, since it helps save time and increases productivity.

Staying the course also means being committed to the future of our industry. We are honoured to be the only equipment manufacturer to collaborate with the Industrial Research Chair on Maple Syrup Production (CRITA).

Despite the pandemic, the future is therefore bright. We will continue to make your life easier in maple syrup production. Stay connected on our platforms; several measures are at your disposal to communicate easily with us and request a quote. You can even order online at our brand-new maple equipments store.

Finally, it is relevant to highlight the fact that, in 2020, Chantal Lapierre became the general manager of the family business.

Have an enjoyable sugaring season and—above all—take care of your health and that of all your loved ones!

We look forward to seeing you again very soon!

Chantal, Anick, Carl and Donald Lapierre

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### WELL THOUGHT-OUT SOLUTIONS FOR YOUR COLLECTION SYSTEM!

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

# **INSPIRED NEW PRODUCTS!**



PAGE 15

SEE

#### **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.



SINE SEMI-EN



#### 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.

#### **REFLEX 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!





# **MAPLE**<sup>®</sup>

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

# GET THE BEST GATHERING SYSTEM AVAILABLE TODAY

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

#### MAPLEFLEX<sup>®</sup> 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)	CODE
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", black, 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')	CODE
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.

#### SAP GATHERING | TUBING



SEMI-RIGID 5/16" MAPLEFLEX* TUBING (500')	CODE
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® MAX15, 15 years warranty, dark blue	TU084-050000XX
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

LIGHT BLUE	VISION GREEN	SMOKED

BLUE, GREEN OR SMOKED MAPLEFLEX* MAINLINE (100 PSI)	CODE
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)	CODE
1/2" 100', 400', 3000'	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

Our MAPLEFLEX  $\ensuremath{\mathbb{R}}$  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.

MapleFlex® RIGID10, 10 years warranty,

MapleFlex® RIGID10, 10 years warranty,

light blue

vision green

# 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

TU092-00000XX

TU092-010000XX

## SAP GATHERING | FITTINGS

# Spout





**NEW DESIGN** ENLARGED HEAD DESIGN MAKES TAPPING EASIER



#### **ELBOW STYLE SPOUT (2 BARBS)**

Tap diameter	Tubing diameter	Material	Color	Wall	ZML	Code
1/4"	5/16"	Nylon	Black	Std		TU282-105504N4B
1/4"	5/16"	Nylon	Dark blue	Std	$\checkmark$	TU282-105504N5B
1/4"	5/16"	Soft nylon	Black	Std	$\checkmark$	TU282-105504Y4B
1/4"	5/16"	Soft nylon	Grey	Std	$\checkmark$	TU282-105504Y8B
5/16"	5/16"	Nylon	White	Std	$\checkmark$	TU282-106505N1B
5/16"	5/16"	Soft nylon	White	Std	$\checkmark$	TU282-106505Y1B
5/16"	5/16"	Soft nylon	Black	Std	$\checkmark$	TU282-106505Y4B
5/16"	5/16"	Soft nylon	Grey	Std	$\checkmark$	TU282-106505Y8B

Elbow style spout (1 barb)	Tap diameter	Tubing diameter	Material	Color	Wall	ZML	Code
Seasonal	1/4"	3/16"	Polycarbonate	Clear	Thin	$\checkmark$	TU279-105604J9B
	1/4"	3/16"	Nylon	Black	Thin	$\checkmark$	TU279-105604N4B
	5/16"	3/16"	Nylon	Black	Thin	$\checkmark$	TU279-106105N4B
	5/16"	3/16"	Polycarbonate	Clear	Thin	$\checkmark$	TU279-106105J9B
Seasonal	5/16"	5/16"	Polycarbonate	Clear	Thin	$\checkmark$	TU279-106505J9B



SEASONAL SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE
For stubby spout holder	1/4"	5/16"	Polycarbonate	Clear	Std	$\checkmark$	TU250-208004J9B
For stubby spout holder	5/16"	5/16"	Polycarbonate	Clear	Std	$\checkmark$	TU250-209005J9B





Standard seasonal spout

Long seasonal spout

STRAIGHT SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE
Standard seasonal spout with retaining ring	1/4"	5/16"	Polycarbonate	Clear	Std		TU047-108034J9B
Long seasonal spout with retaining ring	1/4"	5/16"	Polycarbonate	Clear	Std	$\checkmark$	TU047-108044J9B
Standard seasonal spout with retaining ring	5/16"	5/16"	Polycarbonate	Clear	Std	$\checkmark$	TU047-109035J9B
Long seasonal spout with retaining ring	5/16"	5/16"	Polycarbonate	Clear	Std	$\checkmark$	TU047-109045J9B







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

ELBOW SPOUT SHORT JOINT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE
Elbow, short joint	5/16"	5/16"	Polycarbonate	Clear	Thin	$\checkmark$	TU281-106505J9B
1,1570 LTS-USAº	5/16"	3/16"	Polycarbonate	Clear	Std	$\checkmark$	TU290-106905J9B
LTS-USA 1,1570º	5/16"	5/16"	Polycarbonate	Clear	Std	$\checkmark$	TU300-106705J9B
LTS-USA 1,1570°	5/16"	5/16"	Polycarbonate	Clear	Thin	$\checkmark$	TU301-106705J9B



DESCRIPTION	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	ZML	CODE
Y spout 130⁰	1/4"	5/16"	Polycarbonate	Clear	Thin	$\checkmark$	TU285-103004J9B
Y spout 130⁰	1/4"	5/16"	Nylon	Light blue	Thin	$\checkmark$	TU285-103004N7B
Y spout 130⁰	5/16"	5/16"	Polycarbonate	Clear	Thin	$\checkmark$	TU285-104005J9B
Y spout 130⁰	5/16"	5/16"	Nylon	Light blue	Thin	$\checkmark$	TU285-104005N7B



1ST GENERATION SPOUT	TAP DIAMETER	TUBING DIAMETER	MATERIAL	COLOR	WALL	CODE
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
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
A - Spout adaptor	1/4"	7/16"	Polycarbonate	Clear	Std	TU054-000416J9B
B - Spout adaptor	5/16"	7/16"	Polycarbonate	Clear	Std	TU054-000516J9B
B - Spout adaptor	5/16"	7/16"	Polycarbonate	Clear	Thin	TU254-000516J9B
C - Spout adaptor	5/16"	7/16"	Nylon	Black	Std	TU054-000516J4B
D - Spout adaptor	5/16"	5/16" and 19/64"	Polycarbonate	Clear	Thin	TU256-000516J9B



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	CODE
Star 3 way	TU020-000003J4
Star 4 way	TU020-000004J4
Star 6 way	TU020-000006J4

# **Fitting and adaptor**





ORIGINAL FITTING (2 BARBS)	TUBING DIAMETER	MATERIAL	COLOR	ZML	CODE
A - Connector with hook	3/16"	Nylon	Black	$\checkmark$	TU134-020003J4
A - Connector with hook	5/16"	Nylon	Black	$\checkmark$	TU134-000002J4
B - Reducer hook connector	3/16" and 5/16"	Nylon	Black	$\checkmark$	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	$\checkmark$	TU133-000002N4
J - Eyelet drop-line plug (seasonal spout)	5/16"	Nylon	Black	-	TU114-000000J4
K - End of line drop-line hook (3 ST)	3/16"	Nylon	Black	$\checkmark$	TU131-317002N4
L - End of line drop-line hook (3 ST)	5/16"	Nylon	Black	$\checkmark$	TU330-000002N4
L - End of line drop-line hook	5/16"	Nylon	Black	$\checkmark$	TU331-010205N4
M - End of line drop-line hook	5/16"	Nylon	Red	$\checkmark$	TU132-142500J03

innovateur de nature

# New ONLINE STORE MAPLE SYRUP PRODUCTION AT YOUR FINGERTIPS!

**LAPIERRE** and its network of experts and advisors offer you their brand-new, high-tech online ordering tool. Order at your fingertips, from the comfort of your home, plumbing parts, tools, accessories, tubing, mainlines, spouts, fittings, clothing, and much more in just a few clicks.

It's beautiful, brand-new, and totally techy! And although your MAPLE EXPERT online store is already well-stocked, continuous updates are adding brand-new products.

Do you want to purchase a piece of equipment? It's simple to request an online quote to learn all the details about our evaporators, concentrators, extractors, or any other product offered by *LAPIERRE*.

It's simple. It's fast. And it's connected!

Stay tuned on our Facebook page and our website for more details!



### SAP GATHERING | FITTINGS

# **Tee-plug**













ORIGINAL TEE-PLUG (2 BARBS)	TUBING DIAMETER	MATERIAL	COLOR	ZML	CODE
A - Universal tee-plug 3 stages	5/16"	Nylon	Black	$\checkmark$	TU240-020003J4
A - Universal tee-plug 3 stages	3/16"	Nylon	Black	$\checkmark$	TU040-030200N4
B - Red tee-plug, 3 stages (left side plug)	5/16"	Nylon	Red	-	TU042-000003J03
C - Tee-plug with cap-plug and drop-line plug	5/16"	Nylon	Black	-	TU045-000504J4
D - Tee-plug with elongated cap	3/16"	Nylon	Black	$\checkmark$	TU341-326002N4
D - Tee-plug with elongated cap	5/16"	Nylon	Black	$\checkmark$	TU241-927002J4
E - Tee-plug with elongated cap and hook	3/16"	Nylon	Black	$\checkmark$	TU342-327002N4
F - Tee-plug with cap-plug	5/16"	Nylon	Black	$\checkmark$	TU241-000002J4

# Fixed head and swivel head fittings black nylon

$\frown$	DESCRIPTION	DIAMETER	DRILL BIT SIZE	ZML	CODE
	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 - B	A - Saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	5/16"	3/8"	$\checkmark$	TU322-060201J4
	A - Saddle manifold with fixed head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	5/16"	31/64"	$\checkmark$	TU322-310201J4
	B - Saddle manifold with swivel head (fits on: 3/4", 1", 1-1/4", 1-1/2", 2")	5/16"	31/64" w/o clips	-	TU021-000001J4
	C - Saddle manifold with tie-wrap (fits on: 3/4", 1", 1-1/4")	5/16"	31/64"	$\checkmark$	TU323-310201J4
C	Tie-wrap (50 bag)				TU036-000000J4

#### **SAP GATHERING** | FITTINGS



# **FLEXClip** PATENT

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 guickest 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!



Leak proof twin barb

FLEXCLIP MANIFOLD - NYLON BLACK ZML 5/16"	CODE
Flexclip 3/4"	TU326-073212N4
Flexclip 1"	TU326-073216N4
Flexclip 1-1/4"	TU326-073220N4
DRILL BIT FOR FLEXCLIP	CODE
Drill bit 7/32"	TU437-000732XX



















CODE	TRADITIONAL SAP GATHERING
DV091-000002VE	A - 2 gallons green bucket
DV091-000003VE	B - 3 gallons green bucket
DV091-010002VE	Lid for 2 gallons green bucket
DV091-010003VE	Lid for 3 gallons green bucket
TU059-000005J7	C - 5/16" clear blue plastic bucket spout

D - MAINLINE TENSION GRIPS	CODE
1/2"	TU490-000008XX
3/4"	TU490-000012XX
]"	TU490-000016XX
1-1/4"	TU490-000020XX
1-1/2"	TU490-000024XX
2"	TU490-000032XX



PLASTIC PROTECTOR FOR WOODEN POST

TU600-002000N4

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

SELF-FUSING SILICONE TAPE	CODE
Self-fusing silicone tape blue (roll / 1" x 10')	DV840-016003BU
Self-fusing silicone tape yellow (roll / 1" x 10')	DV840-016003JA
Self-fusing silicone tape red (roll / 1" x 10')	DV840-016003RG
Self-fusing silicone tape blue (roll / 1,5'' x 32')	DV840-024010BU
Self-fusing silicone tape yellow (roll / 1,5'' x 32')	DV840-024010JA
Self-fusing silicone tape red (roll / 1,5" x 32')	DV840-024010RG

ACCESSORIES	CODE
E - Splices (2) for wirw 9 GA	TU061-000000XX
Splices (2) for wirw 12.5 GA	TU061-000002XX
F - Gripple	TU060-000000XX
F - Gripple (medium)	TU060-000002XX
G - Gripple tension tool	TU433-000000XX
H - Manual twister	TU450-000000XX
I - Automatic twister	TU435-000000XX

TU073-100008G1

TU073-100010G1

TU073-100012G1



8"

10"

12"

(1-1/2" tubing)

(2" tubing)

WIRE TIES 2500/BUNDLE (18 GA)	CODE
5" (3/4" tubing)	TU070-000005G1
6" (1" tubing")	TU070-000006G1
7" (1-1/4" tubing)	TU070-000007G1
8" (1-1/2" tubing)	TU070-000008G1
10" (2" tubing)	TU070-000010G1
12"	TU070-000012G1
14" (3" tubing)	TU070-000014G1
15"	TU070-000015G1
16"	TU070-000016G1



GALVANIZED WIRE (50 LB)	CODE
#9 high carbon (50 lb)	TU075-000009G2
#9 high carbon (100 lb)	TU075-010009G2
#9 (50 lb)	TU075-000009G1
#12 (50 lb)	TU075-000012G1
#14 (50 lb)	TU075-000014G1

Galvanized wire 50 lb: #9 high carbon and #9 = between 950 and 1000 feets.

WIRE TIES 2500/BUNDLE (18 GA) AWT	CODE	WIRE TIES 1000/BUNDLE (18 GA)	CODE	GALVANIZED WIRE (100 LB)	CODE
5" (3/4" tubing)	TU074-250005G1	5" (3/4" tubing)	TU074-100005G1	#9 high carbon	TU075-010009G2
6" (1" tubing)	TU074-250006G1	6" (1" tubing)	TU074-100006G1	HIGH TENSILE WIRE 12,5 GA	CODE
7" (1-1/4" tubing)	TU074-250007G1	7" (1-1/4" tubing)	TU074-100007G1	210 PSI (coil/2000')	ETBRO012HD
8" (1-1/2" tubing)	TU074-250008G1	8" (1-1/2" tubing)	TU074-100008G1	210 PSI (coil/4000')	ETBRO012H
10" (2" tubing)	TU074-250010G1	10" (2" tubing)	TU074-100010G1		
12"	TU074-250012G1	12"	TU074-100012G1		
14" (3" tubing)	TU074-250014G1	14" (3" tubing)	TU074-100014G1		The second s

•	LINEVIPER INSTALLATION MULTI-TOOLS	CODE
Þ	5/16"	TU412-000005XX
	3/16"	TU412-000003XX

WIRE TIGHTNER RATCHET	CODE
SS ratchet	ETMRAT01
Wire tightner ratchet handle	ETMRAT02
Aluminium ratchet	ETMRAT04

Wire tightner ratchet handle

Wire tightner ratchet



Pneumatic drop line tool

LAPIERRE PNEUMATIC DROP LINE TOOL (5/16" TUBING)	CODE
Need a 3 HP compressor minimum (not included)	TU526-000001XX
3/16" tubing clamping block (steel)	TU526-011875XX

PRUNER	CODE
A - Pruner "Garant"	TU448-000000XX
B - 8" pruner	TU448-000002VE
C - Anvil pruner "Garant"	TU448-000001XX

MAINLINE CUTTER 2"	CODE
D - Mainline cutter	TU452-000032XX

MAINLINE LEVEL	CODE
E - Hand level 5,25" to 5,75" Adirpro	TU451-073002XX
LAPIERRE APRONS	CODE
F - Orange Lapierre installation apron (10 pockets)	TU478-000001LA
MARKING SPRAY PAINT	CODE
G - (Blue)	DV547-000002XX
G - (Orange)	DV547-000011XX



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





A - PRUNO RAPIDO-DROP WITH TUBING CUTTER	CODE
Rapido-drop, auto tubing cutter 3/16", 24" to 40"	TU525-7170001XX
Rapido-drop, auto tubing cutter 5/16", 24" to 40"	TU525-717000XX
Rapido-drop, auto tubing cutter 3/16", 28" to 48"	TU525-7170031XX
Rapido-drop, auto tubing cutter 5/16", 28" to 48"	TU525-717003XX

B - PRUNO SPOUT REDUCER EXTRACTOR	CODE
7/16"	TU444-000000XX
5/16"	TU444-000005XX

C - PRUNO HOLE PUNCH	CODE
5/16" (Yellow)	TU425-000005XX
3/8" (Black)	TU425-000006XX
7/16" (Blue)	TU425-000007XX
15/32" (Green)	TU425-000015XX
31/64" (Red)	TU425-000031XX

D - PRUNO WIRE PULLER	CODE
Wire tension grip 9"	TU436-071576XX
Wire tension grip 11"	TU436-071571XX

E - PRUNO SPOUT REMOVER	CODE
Spout remover light 15" for 5/16" & 7/16"	TU443-190507PL
Pruno universal spout remover (15")	TU443-190507XX

F - PRUNO SPOOLERS	CODE
Pruno tubing reel without base	TU446-000000XX
Pruno base for tubing reel	TU447-000001XX
Vertical reel to be suspended	TU453-000000XX
Pruno horizontal wire spooler	TU575-000000XX

PRUNO MISCELLANEOUS TOOLS	CODE
G - Pruno threaded cone 1/4"	TU456-000005XX
Holder for right-hand drill	TU478-071936XX
H - Set hook holder line level for mainline 3/4" to 3" to 3"	TU551-071902XX
Spring for compact insert tool	TU439-000000XX



TU428-000000XX

TU528-711081XX

TU528-711091XX

TU428-071106XX

TU528-071112XX

TU528-071109XX

PRUNO TUBING INSTALLATION TOOL A - 5/16" Pruno tubing installation

Plier - tubing installation "pruno"

red with cutter w/o flaring tool

Pruno installation plier, automatic calibratable pressure for 5/16" tubing.

(without cutter or flaring device) Plier - installation Pruno light econo

with out cutter and flaring tool

B - Pruno light installation tool

with 3/16" jaw and cutter C - Pruno light installation tool

auto-tension

with 3/16" jaw

D

Е

F

G

Н

adjustment screw











PRUNO REPAIR TOOL	CODE	I - PRUNO MAINLINE INSTALLATION TOOLS	CODE
<ul> <li>Pruno insertion tool with lateral cutter</li> </ul>	TU429-000000XX	Pruno mainline installation tool 3/4" and 1"	TU445-001216XX
- Pruno tubing installation tool lateral cutter and flaring tool	TU430-000000XX	Pruno mainline installation tool 1" and 1-1/4"	TU445-001620XX
- Pruno tubing cutter 5 functions	TU432-000000XX	Pruno mainline installation tool	TU445-002024XX
Pruno plier - stripping	TU432-071206XX	1-1/4" and 1-1/2"	10445-00202477
classic 5/16"		Pruno mainline installation tool	TU445-002432XX
6 - Pruno compact insert tool with vise-grip and cutter	TU539-071065XX	1-1/2" and 2" Pruno mainline installation tool	
I - Pruno compact insert tool with vise-grip without cutter	TU539-071060XX	3/4" to 1-1/2" (kit)	TU445-001224XX
Pruno insertion plier with lateral cutter for angle spouts (30° to 115°)	TU429-071067XX	J - MAINLINE WIRING HOOK FOR ALIGN MAINLINE	CODE
Pruno insertion plier with 3/16"		0 to 1-1/4" stainless steel	TU555-071927XX
jaws, without cutter or flaring	TU429-710506XX	0 to 1-1/4" aluminium	TU555-071926XX
device		0 to 2" stainless steel	TU555-071928XX
Plier - flow-stopper, long nose and automatic tensioning	TU411-071919XX	0 to 2" aluminium	TU555-071925XX
Plier - flow-stopper, adjustment screw	TU411-071921XX		

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

# Plastic and stainless quick couplers



PLASTIC QUICK COUPLING	CODE
A - 1/2"	RA780-00008M1
A - 3/4"	RA780-000012M1
A - 1"	RA780-000016M1
A - 1-1/4"	RA780-000020M1
A - 1-1/2"	RA780-000024M1
A - 2"	RA780-000032M1
B - 1/2"	RA781-000008M1
B - 3/4"	RA781-000012M1
B - 1"	RA781-000016M1
B - 1-1/4"	RA781-000020M1
B - 1-1/2"	RA781-000024M1
B - 2"	RA781-000032M1
C - 1/2"	RA782-000008M1
C - 3/4"	RA782-000012M1
C - 1"	RA782-000016M1
C - 1-1/4"	RA782-000020M1
C - 1-1/2"	RA782-000024M1
C - 2"	RA782-000032M1



CODE
RA783-000008M1
RA783-000012M1
RA783-000016M1
RA783-000020M1
RA783-000024M1
RA783-000032M1
RA784-000008M1
RA784-000012M1
RA784-000016M1
RA784-000020M1
RA784-000024M1
RA784-000032M1
RA785-000008M1
RA785-000012M1
RA785-000016M1
RA785-000020M1
RA785-000024M1
RA785-000032M1

STAINLESS QUICK COUPLING Replace the end of plastic quick coupling code (M1) by S6.





PLASTIC QUICK COUPLING	CODE
DP - 1/2"	RA786-000008M1
DP - 3/4"	RA786-000012M1
DP - 1"	RA786-000016M1
DP - 1-1/4"	RA786-000020M1
DP - 1-1/2"	RA786-000024M1
DP - 2"	RA786-000032M1
DC - 1/2"	RA787-000008M1
DC - 3/4"	RA787-000012M1
DC - 1"	RA787-000016M1
DC - 1-1/4"	RA787-000020M1
DC - 1-1/2"	RA787-000024M1
DC - 2"	RA787-000032M1





LOAC TOOLS	CODE
G - Universal spout remover 15"	TU443-150507NX
G - Universal spout remover 22,5"	TU443-220507NX
G - Universal spout remover 30"	TU443-300507NX
G - Universal spout remover 40"	TU443-400507NX
Spout remover 25"/40" for 5/16" and 7/16"	TU443-254057NX
H - Tapping hammer, double sided	TU440-000005XX
Tapping spout remover 12-2	TU440-120210XX
I - Side tie adjuster 20"	TU492-000020A1
I - Side tie adjuster 30"	TU492-000030A1
J - Multifunctions plier	TU530-000000XX
Ultra light 3/16" installation plier	TU423-600003A1
K - Ultra light 5/16" installation plier	TU423-600005A1

# SAP GATHERING | MISCELLANEOUS



GALVANIZED AND STAINLESS CLAMPS	CODE
3/4"	DV217-000012XX
3/4" SS	DV217-000012S2
1"	DV217-000016XX
1" SS	DV217-000016S2
1-1/4"	DV217-000020XX
1-1/4" SS	DV217-000020S2
1-1/2"	DV217-000024XX
1-1/2" SS	DV217-000024S2
2"	DV217-000032XX
2" SS	DV217-000032S2



	STANDARD MAXI CLAMP	CODE
1"		DV255-003235XX
1-1/4"		DV255-004043XX
1-1/2"		DV255-004851XX
2"		DV255-006063XX



STAINLESS STEEL MAXI CLAMP	CODE
1"	DV255-003235S2
1-1/4"	DV255-004043S2
1-1/2"	DV255-004851S2
2"	DV255-006063S2



PVC40 THREADED BALL VALVES	CODE
1/2"	VA002-000808P2
3/4"	VA002-001212P2
1"	VA002-001616P2
1-1/4"	VA002-002020P2
1-1/2"	VA002-002424P2
2"	VA002-003232P2
2-1/2"	VA002-004040P2
3"	VA002-004848P2

PVC40 SLIP BALL VALVES	CODE
1/2"	VA003-000808P2
3/4"	VA003-001212P2
1"	VA003-001616P2
1-1/4"	VA003-002020P2
1-1/2"	VA003-002424P2
2"	VA003-003232P2
2-1/2"	VA003-004040P2
3"	VA003-004848P2



STAINLESS STEEL BALL VALVE	CODE
1/4"	VA001-000404S2
1/2"	VA001-000808S2
3/4"	VA001-001212S2
1"	VA001-001616S2
1-1/4"	VA001-002020S2
1-1/2"	VA001-002424S2
2"	VA001-003232S2

# Grey PVC and white PVC40

Plug INS	Tee FPT x INS	Tee MPT x IN	IS Tee	INS Elbow INS
Union INS	Elbow FPT x INS	Elbow MPT x IN	S Adaptor FPT :	Adaptor MPT x INS
Elbow 90°	Red. bushing Adapter		Cap slip Threaded union	Tee slip
PVC40 GUILLOTINE VALVE	CODE		SS MAINLINE COUPLIN	GS KIT CODE
1"	VA006-001616P2		Couplings kit SS 3/4"	TU105-001212S2
1-1/2"	VA006-002424P2	0 9	Couplings kit SS 1"	TU105-001616S2
2"	VA006-003232P2	0	Couplings kit SS 1-1/4"	TU105-002020S2

PVC40 LINE SPRING LOADED CHECK VALVE	CODE
1/2"	VA007-000808P2
3/4"	VA007-001212P2
1"	VA007-001616P2
1-1/4"	VA007-002020P2
1-1/2"	VA007-002424P2
2"	VA007-003232P2

VA006-004848P2

3"





Couplings kit SS 1-1/2"

Couplings kit SS 2"

TU105-002424S2

TU105-003232S2

PVC40 line spring

PVC40 guillotine valve

#### Grey PVC and White PVC40

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

#### SAP GATHERING | MISCELLANEOUS



# THE MOST COMPLETE LINE OF STAINLESS FITTINGS ON THE MARKET





BALL VALVE (INS X INS)	CODE
3/4"	VA051-001212S2
1"	VA051-001616S2

ADAPTOR (MPT X INS)	CODE
	CODE
1/2"	TU100-000808S2
3/4"	TU100-001212S2
1"	TU100-001616S2
1-1/4"	TU100-002020S2
1-1/2"	TU100-002424S2
2"	TU100-003232S2
1" × 3/4"	TU100-001612S2
1-1/4" × 1"	TU100-002016S2
1-1/2" × 1-1/4"	TU100-002420S2
2" × 1-1/2"	TU100-003224S2



Y	CODE
3/4"	TU102-121212S2
1" × 3/4" × 3/4"	TU102-161212S2
1" x 1" x 3/4"	TU102-161612S2
]"	TU102-161616S2
1-1/4" x 1" x 1"	TU102-201616S2
1-1/4" × 1-1/4" × 3/4"	TU102-202012S2
1-1/4" × 1-1/4" × 1"	TU102-202016S2
1-1/4"	TU102-202020S2
1-1/2" x 1" x 1"	TU102-241616S2
1-1/2" × 1-1/4" × 1-1/4"	TU102-242020S2
1-1/2" × 1-1/2" × 1"	TU102-242416S2
1-1/2" × 1-1/2" × 1-1/4"	TU102-242420S2
1-1/2"	TU102-242424S2
2" × 2" × 1-1/4"	TU102-323220S2
2" × 2" × 1-1/2"	TU102-323224S2
2"	TU102-323232S2
3"	TU102-484848S2



TEE	CODE
3/4"	TU103-121212S2
1" x 1" x 3/4"	TU103-161612S2
1"	TU103-161616S2
1-1/4" × 1-1/4" × 3/4"	TU103-202012S2
1-1/4" × 1-1/4" × 1"	TU103-202016S2
1-1/4"	TU103-202020S2
1-1/2" × 1-1/2" × 1"	TU103-242416S2
1-1/2" × 1-1/2" × 1-1/4"	TU103-242420S2
1-1/2"	TU103-242424S2
2" × 2" × 1-1/2"	TU103-323224S2
2"	TU103-323232S2



ADAPTOR WITH HOLE (DIAL NOT INCLUDED)	CODE
Adaptor 1" MPT x INS, side hole 1/4" FPT	TU157-161604S2
Adaptor 1-1/4" x 1" MPT x INS, side hole 1/4" FPT	TU157-201604S2
Adaptor 1-1/4" MPT x INS, side hole 1/4" FPT	TU157-202004S2



COUPLING	CODE
1/2"	TU101-000808S2
3/4"	TU101-001212S2
]"	TU101-001616S2
1-1/4"	TU101-002020S2
1-1/2"	TU101-002424S2
2"	TU101-003232S2
1" × 3/4"	TU101-001612S2
1-1/4" × 1"	TU101-002016S2
1-1/2" × 1-1/4"	TU101-002420S2
2" × 1-1/2"	TU101-003224S2



SS END-PLUG WITH HOOK	CODE
3/4"	TU820-000012SS
1"	TU820-000016SS
1-1/4"	TU820-000020SS
1-1/2"	TU820-000024SS
2"	TU820-000032SS

#### Other sizes available

Please contact your Lapierre representative for more details.



# ALWAYS ON THE LOOKOUT THE MOST POWERFUL MONITORING AND REMOTE CONTROL 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.

Moreover, we offer remote control and pumping station equipment automation to make your life easier.

# 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.
- Remotely control and automate your pumping stations



#### **DATACER** Base



# Vacuum transmitter (3 main lines)

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

DATACER MONITORING SYSTEM	CODE
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

\* In ideal field conditions. The communication depends on field topography, vegetation density and transmitters height.



A combined transmitter can measure a combination of several parameters at the same time (tank level, pressure or vacuum). For all transmitters that can measure pressure, please choose from one of the pressure sensors options listed on page 32.

COMBINED MULTI-FUNCTION TRANSMITTER	PRESSURE OPTION	OPTION ANTENNA	CODE
Transmitter plv (pressure option, 1 tank level by sonar, 1 vacuum) without antenna	1, 2, 3, 4 or 5	A, B, C	SM100-000011PLV
Transmitter pll (pressure option, 2 tank level by sonar) without antenna	1, 2, 3, 4 or 5	А, В, С	SM100-000011PLL
Transmitter pv (pressure option, 1 vacuum) without antenna	1, 2, 3, 4 or 5	А, В, С	SM100-000011PV
Transmitter p (pressure option, 1 vacuum) without antenna	1, 2, 3, 4 or 5	А, В, С	SM100-000011P
Transmitter Iv (1 tank level by sonar, 1 vacuum) without antenna		А, В, С	SM100-000011LV
Transmitter IIv (2 tank level by sonar, 1 vacuum) Without antenna		А, В, С	SM100-000011LLV

OPTION - EXTERNAL ANTENNA	CODE	BATTERY	CODE
Option "A" (standard) Adaptor with whip antenna	SM300-000905KT	Battery (3) D12 PROCELL for transmitter including	DV955-000012KT
Option "B" Omnidirectionnal antenna & cable 30'	SM300-030906KT	1 silica gel moisture 10 gr	
Option "C" Omnidirectionnal antenna & cable 50'	SM300-050906KT		



#### MODULATION AND EMERGENCY STOP VALVE

Installed as an option on the Datacer station, this valve allows you to modulate the intensity of vacuum by referencing to the vacuum management table by temperature. In addition, it protects your vacuum pump from overflows of sap that could come from the extractor using a signal from the float installed inside it.

Improve the performance of your sugar bush and reduce premature freezing of your maine-lines with better vacuum management!

#### SM312-010032SXV

## DATACER | SUGARBUSH AUTOMATION

# CONTROL YOUR PUMP-STATION

Equipment control can be done manually remotely by the user or automatically based on temperature, pressure or other parameters.

- Vacuum pump Start / Stop
- Sap pump Start / Stop
- Draining valve Open / Close
- Sap Extractor vacuum level modulation
- Close sap Extractor vacuum level modulation valve In case of extractor flooding
- Tank level monitoring
- R.O. Feed pump pressure monitoring after pre filters
- Pump station Indoor and outdoor temperature monitoring
- Real time operating status monitoring of: vacuum pump, sap pump and draining valve

DATACER	i.
4	
	-0

DATACER STATION	CODE
DATACER station, W/O antenna	SM100-000012XX
DATACER STATION (AVAILABLE OPTIONS)	CODE
Ultrasound sensor for one SS tank	SM300-100112KT
Pressure sensor 0-150 PSI (kit)	SM312-025100KT
Pressure sensor 0-300 PSI (kit)	SM312-027100KT
Water pump control by electrode, 2 HP max, 240V for one pump (electrode 60")	SM412-013260KT
Water pump control by electrode, 2 HP max, 240V forone pump (electrode 96")	SM512-013260KT
Water pump control by electrode, 3 HP max, 240V for one pump (electrode 60")	SM412-014860KT
Water pump control by electrode, 3 HP max, 240V forone pump (electrode 96")	SM512-014860KT
Water pump control by electrode, 5 HP max, 240V for one pump (electrode 60")	SM412-018060KT
Water pump control by electrode, 5 HP max, 240V forone pump (electrode 96")	SM512-018060KT
Relay for starting vacuum pump by magnetic (1 pump)	SM312-011002KT
Relay for starting vacuum pump by magnetic (2 pumps)	SM312-021002KT
1/2" air intake valve for DATACER station	SM312-080005XX
1" drainage valve for DATACER station	SM312-160006XX

# DATACER | SUGARBUSH AUTOMATION



PRESSURE OPTION	OPTION	CODE
Pressure sensor 0-150 PSI, cable 25' & connection 1/4" MPT	1	SM300-025150KT
Level sensor by pressure 0-100", cable 30' & connection 1/4" MPT	2	SM300-000100KT
Pressure sensor 0-34', cable 25' & connection 1/4" MPT	3	SM300-021100KT
Submersible level sensor 0-10' & cable 25'	4	SM300-000260KT
Pressure sensor 0-300 PSI, cable 25" & connection 1/4" MPT	5	SM300-027100KT



TRANSMITTER FOR TANK LEVELS	OPTION ANTENNE	CODE
Transmitter I, 1 tank level by sonar, without antenna	А, В, С	SM100-010010NX
Transmitter II, 2 tank levels by sonar, without antenna	А, В, С	SM100-020010NX
Transmitter III, 3 tank levels by sonar, without antenna	А, В, С	SM100-030010NX



# 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).



#### 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

Sap inlet (20" × 36") 11 × 1-1/4" (20" × 36") 26-1/2 Sap outlet (20" × 36") 2 × 3"

#### 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"	нтсу	LAPIERRE	в	Vacuum feed 2" and 6" manifold, maximum of 3700 taps	EX021-361236XX
12" X 36"	нтсу	BERNARD	F	Vacuum feed 2" and 6" manifold, maximum of 3700 taps	218-JVC
20" X 36"	нтсу	BERNARD	G	Vacuum feed 2" and 6" manifold, maximum of 12 000 taps	220-2-JVC

#### EXTRACTORS | ELECTRIC



# 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.





#### 20" X 41" EXTRACTOR

DIMENSION	РИМР	DESCRIPTION	CODE
12" X 24"	N/A	1 control, vacuum 2", 6" X 12" manifold <b>Only with external pump</b> (Option electrode 1)	EX010-001224NX
12" X 36"	1 PUMP TYPE C	1 control, vacuum feed 2″, 6″ x 12″ manifold, with electric float and jog button connection included	EX110-001236XX
20" X 24"	1 PUMP TYPE C	1 control, vacuum feed 3", 6" x 27" manifold (Option electrode 2)	EX125-012024NX
20" X 24"	2 PUMPS TYPE C	1 control, vacuum feed 3", 6" x 27" manifold	EX125-022024NX
20" X 41"	1 PUMP TYPE C, D, E, OR H	1 control, vacuum feed 3", 6" x 42" manifold (Option electrode 2)	EX125-012041NX
20" X 41"	1-2 PUMPS TYPE C, D, E, OR H	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 38.

# EXTRACTORS | ELECTRICAL WITH INTERNAL PUMP



# 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

#### Sap inlet 8" x 1-1/2" or on demand ↑ 31 1/4" ↓ Sap outlet 1 or 2 x 1-1/2"

#### LAPIERRE 20" X 41" DHS

DIMENSION	PUMP	DESCRIPTION	CODE
12" X 36"	1 PUMP C, D, E OR H	Electrodes control, vacuum feed 2" double 12" x 36" tanks	EX127-011236XX
12" X 36"	1-2 PUMPS C, D, E OR H	Electrodes control, vacuum feed 2" double 12" x 36" tanks	EX127-021236XX
20" X 41"	1 PUMP C, D, E OR H	Electrodes control, vacuum feed 3" double stacked 20" x 41" tanks	EX129-012041XX
20" X 41"	1-2 PUMPS C, D, E OR H	Electrodes control, vacuum feed 3" double stacked 20" x 41" tanks	EX129-022041XX
SINGLE TANK WITHOUT MANIFOLD			
20" X 41"	1 PUMP C, D, E OR H	1 control, vacuum feed 3" single 20" x 41" tank (Option electrode 2)	EX141-012041XX EX325-013260KN
20" X 41"	1-2 PUMPS C, D, E OR H	2 controls, vacuum feed 3" single 20" x 41" tank (Option electrode 4)	EX141-022041XX EX325-023260KN

Sap inlet holes on demand.

Electrodes pump control not included on EX141-012041XX and EX141-022041XX, see page 38. Pump not included, see page 38. Draining kit not available for the models above.


#### Standard with electic float

#### 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!



DIMENSION	PUMP	O'RING KIT	VALVE SYSTEM	DESCRIPTION	CODE
20" X 24"	1 POMPE C	G	BERNARD	Vacuum feed 2", manifold 6" x 27" (Option electrode 2)	EX126-012024BE
20" X 41"	1 POMPE C, D, E OR H	L	BERNARD	Vacuum feed 2", manifold 6" x 42" (Option electrode 2)	EX126-012041BE
20" X 41"	1-2 POMPE C, D, E OR H	J	BERNARD	Vacuum feed 2", manifold 6" x 42" (Option electrode 4)	EX126-022041BE

\*Pump not included, see page 38.

- Specifications are subject to change without notice -



DRAINING KIT ON SINGLE ELECTRIC HORIZ. EXTRACTOR 20" X 24" & 20" X 41" FOR SUBMERSIBLE PUMP

#### EX225-323204RT

1	TYPE	SUBMERSIB	LE PUMP (DEEP WELL) FOR EXTRACTOR	CODE
	С	20 GPM 1/2 HP	20 VAC = 20 GAL to 30 PSI, 0 GAL to 50 PSI 25 VAC = 20 GAL to 30 PSI, 0 GAL to 47 PSI 27 VAC = 15 GAL to 30 PSI, 0 GAL to 45 PSI 28 VAC = 6 GAL to 30 PSI, 0 GAL to 43 PSI	PM152-082005XX
	D	25 GPM 1 HP	20 VAC = 35 GAL to 30 PSI, 0 GAL to 85 PSI 25 VAC = 28 GAL to 30 PSI, 0 GAL to 80 PSI 27 VAC = 24 GAL to 30 PSI, 0 GAL to 75 PSI 28 VAC = 11 GAL to 30 PSI, 0 GAL to 70 PSI	PM142-162507NX
(C-D-E-H) Submersible pump (DEEP WELL)	E	25 GPM 2 HP	20 VAC = 31 GAL to 30 PSI, 0 GAL to 140 PSI 25 VAC = 24 GAL to 30 PSI, 0 GAL to 135 PSI 27 VAC = 22 GAL to 30 PSI, 0 GAL to 130 PSI 28 VAC = 12 GAL to 30 PSI, 0 GAL to 125 PSI	PM142-322511XX
	Н	60 GPM 2 HP	20 VAC = 50 GAL to 30 PSI, 0 GAL to 72 PSI 25 VAC = 45 GAL to 30 PSI, 0 GAL to 70 PSI 27 VAC = 35 GAL to 30 PSI, 0 GAL to 65 PSI 28 VAC = 20 GAL to 30 PSI, 0 GAL to 60 PSI	PM162-603201XX

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



The above pumps are 240V, 1 PH. Possibility to have 575V, 3 PH, type D, E and H (contact Lapierre Equipment).

ТҮРЕ	ELECTRODES PUMP CONTROL OPTION FOR ELECTRIC EXTACTOR ON NEW EXTRACTOR PURCHASE ONLY	CODE
1	Electrodes pump control, 2 HP max, 240V. for 1 pump on 12" and 20" DHS extractor and 12"x 36" vertical	EX325-013260KT
2	Electrodes pump control, 2 HP max, 240V. for 1 pump on 20" electric horizontal extractor	EX325-013260KN
	Electrodes pump control, 2 HP max, <b>575V</b> . for 1 pump on 20" electric horizontal extractor	EX425-013260KN6
3	Electrodes pump control, 2 HP max, 240V. for 2 pumps on 12" and 20" DHS extractor	EX325-023260KT
4	Electrodes pump control, 2 HP max, 240V. for 2 pumps on 20" electric horizontal extractor	EX325-023260KN
	Electrodes pump control, 2 HP max, <b>575V</b> . for 2 pumps on 20" electric horizontal extractor	EX425-023260KN6
	ELECTRODES PUMP CONTROL OPTION FOR ELECTRIC EXTACTOR EXTRACTOR MODIFICATION (LABOR NOT INCLUDED)	CODE
Electrodes pum	EX225-013260KT	

and 12"x 36" verticalEX225-013260KTElectrodes pump control, 2 HP max, 240V. for 1 pump on 20" electric horizontal extractorEX225-013260KNElectrodes pump control, 2 HP max, 240V. for 2 pumps on 12" and 20" DHS extractorEX225-023260KTElectrodes pump control, 2 HP max, 240V. for 2 pumps on 20" electric horizontal extractorEX225-023260KT

### EXTRACTORS | DOUBLE MECHANICAL



#### 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.



DIMENSION	ТҮРЕ	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	Е	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	Е	Vacuum feed 1-1/2" and 6" manifold, maximum of 3000 taps	213
20" X 36"	DH	BERNARD	н	Vacuum feed 2" and 6" manifold, maximum of 8000 taps	220

# **EXTRACTORS** | REVERSE SLOPE



#### 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.



#### 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.





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

#### 12" X 36" TVC-HRS EXTRACTOR

DIMENSION	ТҮРЕ	VALVE SYSTEM	O'RING KIT	DESCRIPTION	CODE
8" X 14"	SV-VRS	BERNARD	D	Vacuum feed 1" and 6" manifold	217-M6-PI
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



# 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.



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

# EXTRACTORS | MISCELLANEOUS





**B** - Sap recovery device



C - Sap tank reverse

D - Sap tank reverse slope Illustration: with valve

#### A - SAP LADDER AIR INJECTOR

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

512

#### SELF CLEANING SPRINKLER OPTION

20" sap extractor self cleaning sprinklers.

Kit sprinkler & connection to the internal pump for manual cleaning, pump not included (on new extractor) Available with option EX171-000020XX EX071-000020PX

Kit sprinkler & connection to a hose for manual cleaning, hose not included (on new extractor) Available with option EX171-000020XX EX071-000020XX

Replacement sprinkler only for cleaning system **EX271-000001XX** 

Control kit for automatic cleaning, sprinkler not included (on new extractor) **EX271-000001XX** 



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

#### **B - SAP RECOVERY DEVICE**

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

EX107-00000XX

### C - 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

BA509-000032XX

#### **D - 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 Without draining valve

## **EXTRACTORS** | MISCELLANEOUS

	rings #139 not included neck valve for SAP extractor	C - Check valve	A flapper
E - O'rings for extractors F - Tr	aps and parts	G - Floats H-	Springs and hinges
-		E - REPLACEMENT	
A - RECOMMENDED LUBRICANTS FOR EXTRACTOR MAINTENANCE	CODE	O'RINGS FOR EXTRACTORS	CODE
Lapierre food grade oil 30 ml	DV492-000030XX	6" orange silicone	DV201-139006U2
Food grade (silicone grease 6 g)	DV490-000001XX	8" orange silicone	DV201-139008U2
Food grade (silicone grease 150 g	) <b>DV490-000150XX</b>	12" orange silicone	DV201-187012U2
		20" orange silicone	DV201-187020U2
B - REPLACEMENT CHECK VALVE FOR SAP EXTRACTOR	CODE		
1-1/2"	VA026-022424P4	F - REPLACEMENT TRAPS AND PARTS	CODE
O'ring #139	DV201-000139XX	6" Replacement trap - Complete	EX200-000001XX
3" Lapierre swing check valve	VA025-004848LA	6" Evacuation trap cover only	EX200-000045XX
C - REPLACEMENT CHECK VALVE WITH RESSORT	CODE	G - REPLACEMENT FLOATS	CODE
1"	VA026-001616P4	4" Translucent fixed float	EX205-000030XX
1-1/2"	VA026-002424P4	4" Translucent sliding float	EX207-000027NX
2"	VA026-003232P4	7-1/2" Translucent float without	
3"	VA026-004848P4	rod guide	EX315-000030XX
		7-1/2" Translucent float, 1/8", rod guide (for Bernard reverse	EX315-020030NX
D - FDA FLAPPER	CODE	slope #520)	
2" Trap alone	EX204-000021U3	7-1/2" Translucent float, 1/4", rod guide (for extractor)	EX315-040030NX
3" Trap alone	EX200-000054U3	7-1/2" Translucent float, 5/8",	
Trap FDA 2" Lapierre, Kit	EX204-000021U3KT	rod guide (for electric control with float #432)	EX315-100030NX
Trap FDA 3" Lapierre, Kit	EX200-000054U3KT		
		H - REPLACEMENT SPRING	S AND HINGES
		336-В	

# EXTRACTORS | MISCELLANEOUS



A - ALUMINUM EXTRACTOR SUPPORT RACK	CODE
3' x 1 to 12" (adjustable)	EX040-000003XX
4' x 1 to 12" (adjustable)	EX040-000004XX
5' x 1 to 12'' (adjustable)	EX040-000005XX
6' x 1 to 12'' (adjustable)	EX040-000006XX
7-1/2' x 1 to 12'' (adjustable)	EX040-000007XX
Base plate only	EX041-011428A2

B - VACUUM DRAINING VALVE	CODE
Vacuum draining valve	PM060-000001XX
Vacuum draining valve, magnetic contact	PM060-000006XX
Vacuum draining valve, electric control	PM060-000007XX
C - EXTRACTOR LATCHES	CODE

C - EXTRACTOR LATCHES	CODE
Latch for 12" cover for horizontal extractor (unit)	EX213-000026KT
Latch for 19" cover for horizontal extractor (set of 2) (unit)	EX207-000041KT

D, E - STAINLESS STEEL CLIP AND HOOK	CODE
D - Stainless steel clip (with screw)	DV220-000001KT
E - Stainless steel hook for clip (with screw)	DV220-000002KT

F - STAINLESS MANIFOLD STRAINER	CODE
5-3/4" x 8-1/2" for manifold 6" x 9"	EX260-092136S2
5-3/4" x 11-1/2" for manifold 6" x 12"	EX260-092184S2
5-3/4" x 18" for manifold 6" x 18-1/2"	EX260-092288S2
5-3/4" x 26-1/2" for manifold 6" x 27"	EX260-092424S2
5-3/4" x 35-1/2" for manifold 6" x 36"	EX260-092568S2
5-3/4" x 41-1/2" for manifold 6" x 42"	EX260-092664S2
7-1/2" x 41-3/4" for manifold 8" x 42"	EX260-120668S2
7-1/2" x 51-3/4" for manifold 8" x 52"	EX260-120828S2
10" x 25-3/4" for manifold 12" x 24"	EX260-160412S2
10" x 37-3/4" for manifold 12" x 36"	EX260-160604S2
11" x 37-3/4" for manifold 12" x 36"	EX260-184604S2

### EXTRACTORS | TRANSFER TANK AND MANIFOLD



A - HORIZONTAL BULK TANK MANIFOLD	CODE
Manifold 6" x 27"	EX100-000627XX

B - HORIZONTAL VACUUM TRANSFER MANIFOLD	CODE
Manifold 6" x 12"	RT010-000612XX
Manifold 6" x 18"	RT010-000618XX
Manifold 6" x 27"	RT010-000627XX
Manifold 6" x 36"	RT010-000636XX
Manifold 6" x 42"	RT010-000642XX
Manifold 6" x 48"	RT010-000648XX

C - VERTICAL VACUUM TRANSFER TANK	CODE
12" × 18"	RT003-001218XX
12" × 24"	RT003-001224XX
12" x 36"	RT003-001236XX

D - VERTICAL VACUUM TRANSFER TANK WITH FRAME	CODE
20" x 24" vertical booster tank with frame	RT008-002024XX
20" x 36" vertical booster tank with frame	RT008-002036XX

E - HORIZONTAL VACUUM TRANSFER TANK	CODE
12" x 18" horizontal booster tank without frame	RT001-001218XX
12" x 18" horizontal booster tank with frame	RT002-001218XX
12" x 24" horizontal booster tank without frame	RT001-001224XX
12" x 24" horizontal booster tank with frame	RT002-001224XX
12" x 36" horizontal booster tank without frame	RT001-001236XX
12" x 36" horizontal booster tank with frame	RT002-001236XX

F - HORIZONTAL VACUUM TRANSFER TANK	CODE
20" x 24" horizontal booster tank without frame	RT001-002024XX
SS frame for 20" x 24"	EX207-202409S5
20" x 36" horizontal booster tank without frame	RT001-002036XX
SS frame for 20" x 36"	EX207-203609S5





PRESSURE RELIEF ADAPTOR KIT

PM010-000000SS

	LAPIE	RRE HIGH PRESSURE TRANSFER PUMP	CODE
1/2 HP	7 Turbines	5 gal @ 100 PSI / 0 gal @ 130 PSI	PM012-080705XX
3/4 HP	11 Turbines	5 gal @ 135 PSI / 0 gal @ 185 PSI	PM012-121105XX
1 HP	14 Turbines	5 gal @ 200 PSI / 0 gal @ 255 PSI	PM012-161405XX
1-1/2 HP	17 Turbines	5 gal @ 230 PSI / 0 gal @ 300 PSI	PM012-241705XX
1/2 HP	4 Turbines	10 gal @ 60 PSI / 0 gal @ 90 PSI	PM012-080410XX
3/4 HP	7 Turbines	10 gal @ 80 PSI / 0 gal @ 130 PSI	PM012-120710XX
1 HP	9 Turbines	10 gal @ 110 PSI / 0 gal @ 170 PSI	PM012-160910XX
1-1/2 HP	14 Turbines	10 gal @ 150 PSI / 0 gal @ 250 PSI	PM012-241410XX
2 HP	18 Turbines	10 gal @ 180 PSI / 0 gal @ 325 PSI	PM012-321810XX
3/4 HP	6 Turbines	15 gal @ 70 PSI / 0 gal @ 130 PSI	PM012-120615XX
1 HP	8 Turbines	15 gal @ 100 PSI / 0 gal @ 150 PSI	PM012-160815XX
1-1/2 HP	10 Turbines	15 gal @ 100 PSI / 0 gal @ 190 PSI	PM012-241015XX
2 HP	14 Turbines	15 gal @ 150 PSI / 0 gal @ 260 PSI	PM012-321415XX
3 HP	17 Turbines	15 gal @ 180 PSI / 0 gal @ 325 PSI	PM012-481715XX
3/4 HP	6 Turbines	20 gal @ 65 PSI / 0 gal @ 100 PSI	PM012-120620XX
1 HP	7 Turbines	20 gal @ 75 PSI / 0 gal @ 115 PSI	PM012-160720XX
1-1/2 HP	8 Turbines	20 gal @ 90 PSI / 0 gal @ 130 PSI	PM012-240820XX
2 HP	11 Turbines	20 gal @ 120 PSI / 0 gal @ 175 PSI	PM012-321120XX
3 HP	14 Turbines	20 gal @ 175 PSI / 0 gal @ 235 PSI	PM012-481420XX
5 HP	20 Turbines	20 gal @ 285 PSI / 0 gal @ 430 PSI	PM012-802020XX
3/4 HP	4 Turbines	25 gal @ 45 PSI / 0 gal @ 65 PSI	PM012-120425XX
1 HP	5 Turbines	25 gal @ 55 PSI / 0 gal @ 85 PSI	PM012-160525XX
1-1/2 HP	8 Turbines	25 gal @ 70 PSI / 0 gal @ 112 PSI	PM012-240825XX
2 H	10 Turbines	25 gal @ 105 PSI / 0 gal @ 160 PSI	PM012-321025XX
3 HP	12 Turbines	25 gal @ 140 PSI / 0 gal @ 200 PSI	PM012-481225XX
5 HP	21 Turbines	25 gal @ 240 PSI / 0 gal @ 340 PSI	PM012-802125XX
5 HP	5 Turbines	80 gal @ 80 PSI / 0 gal @ 115 PSI	PM262-050075HX

- For more informations, visit elapierre.com -



#### **GOULDS PUMPS**

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

		GOULDS PUMP	CODE
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
1-1/2 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
5 HP	3 ST	165 gal @ 20 PSI / 0 gal @ 45 PSI	PM023-000080XX

	CODE	
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

SUBMERSIBLE PUMP (DRAIN) (240 VOLTS)	CODE
3/4 HP	PM145-001201XX
1 HP	PM145-001601XX

	Banjo filter 3/4"	PM061-001212XX
	Banjo filter 1"	PM061-001616XX
	Banjo filter 1-1/4"	PM061-002020XX
	Banjo filter 1-1/2"	PM061-002424XX
	Banjo filter 2"	PM061-003232XX

- Specifications are subject to change without notice -



A - Pump connect kit with SS spring valve

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

LAPIERRE

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

SINGLE ACTION WITH DUAL VACUUM CYLINDER	CODE
225 USG/Hr @ 132'/elevation or 60 psi @ 20 in/Hg	PM015-000102XX
Replacement seal kit	DV200-002001KT

# A - 1" PUMP CONNECT KIT WITH SS SPRING VALVE

4'

C - Bernard electric tank control

#### PM405-010016XX

**B** - Tank electric control

B - TANK ELECTRIC CONTROL	CODE
24"	BA401-000024XX
36"	BA401-000036XX
48"	BA401-000048XX
54"	BA401-000054XX
60"	BA401-000060XX

DUAL ACTION WITH SINGLE VACUUM CYLINDER	CODE
450 USG/Hr @ 66'/elevation or 30 psi @ 20 in/Hg	PM015-000201XX
Replacement seal kit	DV200-001002KT

DUAL ACTION WITH DUAL VACUUM CYLINDER	CODE
340 USG/Hr @ 132'/elevation or 60 psi @ 20 in/Hg	PM015-000202XX
Replacement seal kit	DV200-002002KT

C - BERNARD ELECTRIC TANK CONTROL COMPLETE WITH FLOAT	CODE
48"	432
60"	432-60
72"	432-72

- For more informations, visit elapierre.com -

# Comparative Table of Technologies Available on the Maple Sugaring Market

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

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



### VACUUM SOLUTIONS

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





#### PROGRESSIVE START VARIABLE SPEED DRIVE

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

BASE ON CASTERS (BUSCH VACUUM PUMP)	CODE
Base for 0040	PM420-004000D1
Base for 1102, 1142, 1144	PM420-110200D1
Base for 1252, 1322	PM420-125200D1

Base of	on ca	sters f	or our
Busch R5	pum	ps now	available.

BASE ON CASTERS (BUSCH R5 MODEL)	CODE
Base for R0025, R0040	PM430-025040D1
Base for R0063, RA100	PM430-063100D1
Base for R0165, R0205, R0255 R0305	PM430-165305D1

### VACUUM PUMPS | BUSCH

FILTE WASH FAB	IABLE	Manual Control of Cont
SPARE AIR FILTER CARTRIDGE (BUSCH VACUUM PUMP)	CODE	GEAR BOX OIL, 1 LITER (BUSCH MINK VACUUM PUMPS)
MM1144, MV0040B, RA0025 and RA0040 pump	PM325-532002XX	PM327-164883XX
MM1142, MM1102, RA0063 and RA0100 pump	PM325-532003XX	
MM1252, MM1322, RA0165, RA0205, RA0255 and RA0305 pump	PM325-532004XX	HOOKS LUBRICANT, 500 ML (BUSCH VACUUM PUMP)
RC0021 pump	PM325-532005XX	PM428-034500ML



#### MINK BUSCH PUMP MV0040B CODE 29 SCFM @ 15" (MAX. : 28,7 IN/HG)

14CFM with 1-3/4 HP motor with variable speed 1.24KW, 1 PH, 220V Intake filter assembly and adaptor included

PM120-004001XX

#### 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.

PUMP MM1144BV	29 SCFM @ 15" (MAX. : 28,5 IN/HG)	CODE
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
Progressive start control	600V 3 PH à 600V 3 PH	PM421-114403AX
Connection kit for progressive start	Miscellaneous parts	EL421-114400XX

PUMP MM1102BV	40 SCFM @ 15" (MAX. : 28,5 IN/HG)	CODE
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

- Specifications are subject to change without notice -





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 SCFM @ 15" (MAX. : 28,5 IN/HG)	CODE
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	600V 3 PH à 600V 3 PH	PM421-114204AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX

PUMP MM1252AV	83 SCFM @ 15" (MAX. : 27 IN/HG)	CODE
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	600V 3 PH à 600V 3 PH	PM421-125205AX
Connection kit for progressive start	Miscellaneous parts	EL421-125200XX

PUMP MM1322AV	100 SCFM @ 15" (MAX. : 25,5 IN/HG)	CODE
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	600V 3 PH à 600V 3 PH	PM421-132206AX
Connection kit for progressive start	Miscellaneous parts	EL421-132200XX

# BUSCH R5

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



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

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

PUMP R0021 (OIL 2L)	6 SCFM @ 15" (MAX.: 29,3 IN/HG)	CODE
Single phase motor	120V / 1,2 HP	PM130-002101XX
Single phase motor	220V / 1,2 HP	PM130-012101XX
		0005
PUMP R0025 (OIL 2L)	9 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
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 1 PH to 230/460V 3 PH	PM421-002501XX
Progressive start control	600V 3 PH to 600V 3 PH	PM421-006303AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX
PUMP R0040 (OIL 2L)	14 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
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 1 PH à 230/460V 3 PH	PM421-006303XX
Progressive start control	600V 3 PH à 600V 3 PH	PM421-006303AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX
PUMP R0063 (OIL 3L)	27 SCEM @ 15" (MAX - 29 9 10//1/C)	CODE
Single phase motor	23 SCFM @ 15" (MAX.: 29,9 IN/HG) 220 Volts / 3 HP	PM130-006303XX

PUMP ROU63 (OIL 3L)	23 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
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 1 PH à 230/460V 3 PH	PM421-006303XX
Progressive start control	600V 3 PH à 600V 3 PH	PM421-006303AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX

# VACUUM PUMPS | BUSCH

PUMP R0100 (OIL 3L)	36 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
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 1 PH to 230/460V 3 PH	PM421-010005XX
Progressive start control	600V 3 PH to 600V 3 PH	PM421-010005AX
Connection kit for progressive start	Miscellaneous parts	EL421-114200XX
PUMP R0165 (OIL 7L)	58 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
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 1 PH to 230/460V 3 PH	PM421-016507XX
Progressive start control	600V 3 PH to 600V 3 PH	PM421-016507AX
Connection kit for progressive start	Miscellaneous parts	EL421-125200XX
PUMP R0205 (OIL 7L)	65 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
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 1 PH to 230/460V 3 PH	PM421-020507XX
Progressive start control	600V 3 PH to 600V 3 PH	PM421-020507AX
Connection kit for progressive start	Miscellaneous parts	EL421-125200XX
PUMP R0255 (OIL 7L)	85 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
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 1 PH to 230/460V 3 PH	PM421-025510XX
Progressive start control	600V 3 PH to 600V 3 PH	PM421-025510AX
Connection kit for progressive start	Miscellaneous parts	EL421-132200XX
PUMP R0305 (OIL 7L)	98 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
3 phase motor	230 / 460 Volts / 10 HP	PM131-030510XX
Progressive start control	230V 1 PH to 230/460V 3 PH	PM421-030510XX
Progressive start control	600V 3 PH à 600V 3 PH	PM421-030512AX
Connection kit for progressive start	Miscellaneous parts	EL421-132200XX
PUMP R0400, 20 HP 153 SCFM @ 15" (MAX.: 29,9 IN/HG) SEE YOUR SALES REPRESENTATIVE FOR DETAILS		
PUMP R0630, 25 HP 228 SCFM @ 15" (MAX.: 29,9 IN/HG) SEE YOUR SALES REPRESENTATIVE FOR DETAILS		

- For more informations, visit elapierre.com -

### NEW

# COBRA: DRY SCREW VACUUM PUMPS



The COBRA NC pump is a dry twin screw pump. Two screws are counter rotating inside the cylinder. The gas is sucked in by the screws, compressed and conveyed to the exhaust of the pump. This process is done without any friction or contact between the screws nor the internal body of the pump. Cooling is done with two possible configuration. The first one is an open system with an internal cooling circuit needing external water supply. The second option is a closed system via a liquid/air configuration with a radiator, no external cooling needed.

The COBRA pumps are very efficient and are perfect for applications that need stable and reliable extraction without oil contamination of the gazes and vapors. Get the best of both worlds of a MINK and R5 with the COBRA. A dry pump with an end vacuum level of an oil pump. The end vacuum is 29,9"Hg and contrary to the competition's screw pumps, it needs no oil in the compression chamber due to its advanced design.

#### **Reliable & heavy-duty**

The variable pitch of the screws and the free discharge of the gases offers a high combability to solids particles and liquids as well as a high tolerance to water vapor. The unique thermal distribution and the anti-friction coating results in highly resistant to corrosion screws resulting in extreme durability.

Compatible with a variable frequency drive and a wide range of accessories are available for this product.

PUMP NC0450	124 SCFM @ 15" (MAX.: 29,9 IN/HG)	CODE
3 phase motor	230/460 Volts / 15 HP	PM171-045015XX
3 phase motor	230/460 Volts / 15 HP (with radiator)	PM172-045015XX
Progressive start control	220 V 1PH to 230/460V 3PH	PM421-045015XX

	OIL LUBRICANT R5 PUMP	CODE
	Oil R-530S (1 L)	PM328-000001SX
	Oil R-530 (20 L)	PM328-000020XX
)	Oil R-580 (1 L) for model 0021 only	PM328-580001XX

tS	Oil R-580 (1 L) for model 0021 only	PM328-580001XX
a	OIL FILTER FOR R5 PUMP	CODE
Q	Model 0160, 0165, 0205, 0250, 0255 & 0305	PM329-531001XX
С С	Model 0025, 0040, 0063 & 0100	PM329-531002XX
Ξ.		
Б	EXHAUST FILTER KIT FOR THE R5 PUMP	CODE
S	Model 0021	PM329-993120XX

	EXHAUST FILTER KIT FOR THE R5 PUMP	CODE
Model 0021		PM329-993120XX
Model 0025, 0040	)	PM329-993134XX
Model 0063		PM329-993194XX
Model 0100		PM329-993902XX
Model 0165, 0205	& 0255	PM329-993908XX



LAPIERRE EQUIPMENT QUALITY ASSEMBLY



3404	CODE
Sihi pump, SS turbine, 20 CFM @ 15 in/Hg with 3 HP motor, frame, coupling and shield	PM106-003404S6

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

OPTIONS (3404 AND 3408)	CODE
Connection fittings	PM108-003404XX
Muffler 1-1/2"	PM465-000305XX

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

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



### VACUUM PUMPS | SIHI LIQUID RING

# Close coupled single stage



Close-coupled single stage up to 27.5 in/Hg

LEMR 15 3/4 HP	CODE
3,5 CFM @ 15 in/Hg	PM110-000015S6
Connection fittings	PM108-000015XX

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

LEMR 40 2 HP	CODE
12 CFM @ 15 in/Hg	PM110-000040S6
Connection fittings	PM108-000040XX

# Double stage

Double stage up to 28.5 in/Hg



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

3708	
	CODE
Sihi pump, SS turbine, 35 CFM @ 15 in/Hg with 7,5 HP motor, frame, coupling and shield	PM106-003708S6

OPTIONS (3704 AND 3708)	CODE
Connection fittings	PM108-003404XX
Muffler 1-1/2"	PM465-000305XX

45312	CODE
Sihi pump, SS turbine, 46 CFM @ 15 in/Hg with 7,5 HP motor, frame, coupling and shield	PM106-045312S6
Connection fittings	PM108-040412XX
Muffler 2"	PM465-000007XX
45317	CODE
<b>45317</b> Sihi pump, SS turbine, 54 CFM @ 15 in/Hg with 10 HP motor, frame, coupling and shield	CODE PM106-045317S6

# VACUUM PUMPS | ACCESSORIES

SERVICE LIQUID TANK (FOR LIQUID RING VACUUM PUMP)	CODE	SUPPORT FOR SIHI VACUUM PUMP (WALL MOUNTING)	CODE
18" x 36" x 34" 66 gal (79 USG) (comes with overflow pipe)	BA001-180334S3	Set of 2 (16" x 16")	PM468-321616XX
GUZZLER ELECTRIC SINGLE DIAPHRAGM PUMP GE-0401N	CODE	GUZZLER ELECTRIC DOUBLE DIAPHRAGM PUMP G2-0501N	CODE
	CODE PM007-040116NX		CODE PM008-050116NX



#### EMERGENCY STOP VALVE FOR SINGLE HORIZONTAL EXTRACTOR WITH 1 1/2" & 2" CONNECTION AND FLOAT ON 1" MPT ADAPTOR

This system prevent sap overflow from the sap extractor shutting off the vacuum feed by the signal of an adjustable float located inside the extractor. The valve will reopen ten seconds after the float signal is lost. The valve must be installed vertically on the upmost portion of extractor vacuum feed.

EX075-010032XX

# VACUUM PUMPS | ACCESSORIES



#### A - BERNARD HUMIDITY TRAP CODE

Built-in lateral water sight level and 507-D drain (electric switch included)

B - CFM TESTER		
CFM tester	PM199-000001KT	
VACUUM OIL	CODE	
68 high performance 18.9 L (5 USG)	DV461-006818XX	
100 flood 18,9 L (4,99 USG)	DV461-010018XX	



C - MAGNETIC STARTER (240 VOLTS, 1 PH, AUTO/OFF/ON)	CODE
3 HP	PM380-000003XX
5 HP	PM380-000005XX
7,5 HP	PM380-000007XX
10 HP	PM380-000010XX





Vacuum regulator 2"



**E - CONTROL TEMPERATURE CONNEXION** FOR DRIVE AND MAGNETIC STARTER (120 VOLTS)

Control temperature connexion EL521-419001XX



F - VERTICAL ELECTRIC HUMIDITY TRAP	CODE
114 X 25 1/2" with 3" inlet and outlet, 3" flap included	TH003-031425XX

G - 3/4" VACUUM BREAKER VALVE	CODE
3/4" Vacuum breaker valve	TH060-120001XX
With options (valve, elbow and nipple)	ТНО60-120001КТ

VACUUM REGULATOR	CODE
Vacuum regulator 1-1/2" (Fits on 1-1/2" male and 2" female)	PM400-000001XX
High flow vacuum regulator	PM400-000002XX

# 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.

DIMENSION WIDTH	DIMENSION LENGTH	OUTLET
2', 3', 4', 5'	up to 8'	1-1/2" mâle NPT
more than 5'	more than 8'	2" mâle NPT
6', 7-1/2'	any length	2" mâle NPT



18" WIDE	IMP G.	USG	LITERS	BRIGHT ANNEALED 304-BA
18" × 4' × 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' × 4' × 36-3/4"	193	231	874	BA001-030436S3
3' × 4' × 48-3/4"	267	321	1215	BA001-030448S3
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' × 12' × 37-1/2"	578	693	2623	BA001-031237S3
3' x 12' x 49-1/2"	802	963	3645	BA001-031249S3
3' x 16' x 37-1/2"	770	924	3498	BA001-031637S3
3' x 16' x 49-1/2"	1070	1283	4857	BA001-031649S3

# NO SPACER NEEDED TO CONNECT TO DRAIN FITTINGS

Our special design gives you clearance.

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' × 4' × 33-1/4"	216	259	980	BA001-040433S3
4' × 4' × 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' × 12' × 52-3/4"	1135	1362	5156	BA001-041252S3
4' x 12' x 60"	1310	1572	5950	BA001-041260S3
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 16' x 60"	1746	2095	7930	BA001-041660S3
4' x 20' x 45-1/4"	1580	1896	7177	BA001-042045S3
4' x 20' x 33-1/4"	1081	1297	4909	BA001-042033S3
4' × 20' × 52-3/4"	1892	2270	8593	BA001-042052S3





#### A PARTNERSHIP TO DEVELOP NEW TECHNOLOGIES FOR MAPLE SYRUP PRODUCTION

The numerous changes in legislation combined to the challenges that the maple industry will be facing in the upcoming years make it of paramount importance to give maple syrup producers access to high-level research facilities.

Therefore, in 2020, after 24 months of discussions with the sector's different stakeholders, the Industrial Research Chair on Maple Syrup Technologies (CRITA – Chaire de recherche industrielle sur les technologies acéricoles) was created. The main goal of this Chair is to lend an ear to the sector's key players, the ones who operate sugar production in the field, and contribute to the development of solid technologies that truly address the needs of this industry.

Many entities have shown interest in contributing to this initiative, including: Aménagement Forestier Coopératif des Appalache, Comité de Développement de St-Romain, Distillerie du Granit, Club Acéricole du Sud du Québec, Érablière Lapierre and Équipements Lapierre, without forgetting the contribution from the Ministère des Affaires Municipales et de l'Habitation (MAMH). As such, the team involves many stakeholders that produce maple syrup, but also Équipements Lapierre which will be able to contribute in making these new technologies accessible to maple syrup producers. The link between producers, cutting edge research, and equipment suppliers is a strong one that will allow us to address the real issues (and they will keep on coming) in order to establish solutions and offer them to users as fast as possible.

For the next three years, many issues will be addressed by the team. Based on more than a decade of experience in the field of renewable energy, the Biomass Technology Laboratory team (which houses the Chair's activities) will be investigating many issues such as heat recovery and optimization of maple sap boilers. In addition to this more technical aspect, the Chair's team will also be working on new technologies to address the upcoming and always more constraining environmental rules, in this case in relationship with the effluents from maple sugar production. Automation is also a critical issue in this field. and the Chair's team will be investigating this theme by creating new tools to simplify operations during production. The team will also be investigating foaming issues, which are as old as the production of maple syrup itself, by trying to put together new technologies to address the problem while interfering as little as possible with the organoleptic properties of the product.

Finally, it is impossible to approach research on maple syrup without addressing flavor defects. The Chair will also address this issue by trying to develop new chemical markers which should allow the precise identification of flavor defects and will also try to transfer these technologies online and even automate them.

The goal would not only be to identify the issues, but to do it before the syrup production process is complete, allowing possible savings during the production. The team will also address the possibility of removing these defects while maintaining the same organoleptic properties in the end product. The complex chemical composition of maple syrup is an aspect that offers a variety of research and development opportunities, not only to address flavor defects, but also eventually to quantify what makes some syrups exceptional and, maybe even one day, to associate a maple syrup to the region it was produced. Finally, the Chair will support the initiatives lead by some of its partners to find new uses for syrup with flavor defects in order to create whole new quality products that will, in the end, contribute to broaden the horizon for our regional maple products and producers.

The maple syrup production sector is undergoing tremendous changes, going from a traditional production towards an industrialized process linked to the food industry. This reality, combined to the challenges related to policies, may create sizeable issues for this large community. More than ever, research and development will be essential tools in allowing this transition, and the Biomass Technology Laboratory team, with the help of major actors in the field such as Équipements Lapierre, will be glad to support maple producers while wholeheartedly addressing all the challenges the upcoming years shall bring.

#### Pr Jean-Michel Lavoie (PhD), Chemist

Chairholder – Industrial Research Chair on Maple Syrup Technologies (CRITA)

Directeur – Laboratoire des Technologies de la Biomasse (LTB)

www.ltb-btl.ca

Photo credit – Marie-Eve Duchaine – On the picture, Pr Jean-Michel Lavoie, Chairholder of the Industrial Research Chair on Maple Syrup Technologies (CRITA) and Director of the Biomass Technology Laboratory (BTL) at the Université de Sherbrooke.

# **STORAGE** | STAINLESS TANKS

- 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' × 8' × 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 8' x 84"	1576	1891	7158	BA001-050884S3
5' x 12' x 29-1/4"	656	788	2983	BA001-051229S3
5' × 12' × 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 12' x 84"	2364	2837	10739	BA001-051284S3
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	BA001-05202953
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 41-1/4"	2061	2473	9361	BA001-052441S3
5' x 24' x 64-1/4"	3495	4195	15880	BA001-052464S3
5' x 24' x 84"	4728	5674	21478	BA001-052484S3

- For more informations, visit elapierre.com -

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 61-1/2"	1309	1570	5943	BA001-060861S3
6' x 8' x 73-1/2"	1608	1930	7306	BA001-060873S3
6' x 8' x 84"	1875	2250	8517	BA001-060884S3
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	2894	11296	BA001-061273S3
6' x 12' x 84"	2812	3375	12776	BA001-061284S3
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' × 24' × 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' × 12' × 66"	2641	3169	11996	BA001-071266S3
7-1/2' × 12' × 84"	3483	4179	15819	BA001-071284S3
7-1/2' × 16' × 66"	3521	4225	15993	BA001-071666S3
7-1/2' × 16' × 84"	4644	5573	21096	BA001-071684S3
7-1/2' × 20' × 66"	4401	5281	19991	BA001-072066S3
7-1/2' × 20' × 84"	5805	6966	26369	BA001-072084S3
7-1/2' × 24' × 66"	5281	6338	23992	BA001-072466S3
7-1/2' × 24' × 84"	6966	8359	31642	BA001-072484S3

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

1-1/2" PVC Drain overflow pipe (BA404-01\*\*24XX) 2" PVC Drain overflow pipe (BA404-01\*\*32XX) 3" PVC Drain overflow pipe (BA404-00\*\*48XX)

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

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



FILTERING BAG	CODE
Round disk (hole 1-1/2")	DV436-000024M1
Round disk (hole 2")	DV436-000032M1
Round disk (hole 3")	DV436-000048M1
10" Filtering bag (cordless)	DV435-000010XX
16" Filtering bag (cordless)	DV435-000016XX
20" Filtering bag (cordless)	DV435-000020XX
30" Filtering bag (cordless)	DV435-000030XX

#### WHITE RESIN AMERLOCK 2 PAINT ALIMENTARY GRADE (CATALYST INCLUDED)

#### DV465-000006XX

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

HORIZONTAL LEG TANK	CODE
20" x 29" 29 imp. gal (35 USG)	BA008-000035H1
23" x 43" 54 imp. gal (65 USG)	BA008-000065H1
Other sizes available on demand only.	

Transport fees can be applied.







STORAGE TANK LADDER	CODE
16" x 42" Ladder	BA412-016042A1
16" x 53" Ladder	BA412-016053A1
16" x 66" Ladder	BA412-016066A1

PERSONALIZED PANEL FOR STAINLESS STEEL TANK	CODE	
1 side	BA001-000001XX	
2 sides	BA001-000002XX	

#### SUPPORT FOR TANK FOOTBOARD

#### BA399-170001XX

COMPLETE DRAIN	CODE
1-1/2", SS, MPT	BA606-000024S2
2", SS, MPT	BA606-000032S2
3'', SS, MPT	BA606-000048S2

OVERFLOW SS OR DRAIN WELDED ON SS TANK	CODE
1-1/4"	BA850-000020S2
1-1/2"	BA850-000024S2
2"	BA850-000032S2
3"	BA850-000048S2



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

#### UPGRADE TO A HIGHER STANDARD IN NO TIME

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

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

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

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

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

#### UNMATCHED RELIABILITY AND SIMPLICITY

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

#### INCLUDED WITH PURCHASE

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

#### THE R.O. SPECIALIST

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

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

# THE LOWEST ENERGY CONSUMPTION ON THE MARKET STANDARD: 230 V / 1 PHASE

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

#### FOR EXAMPLE:

3000 SERIES 5 HP 2 MEMBRANES: 42 AMPS 5000 SERIES 12 MEMBRANES: 131 AMPS





#### 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** (UP TO 20° BRIX / 25° BRIX WITH A BOOSTER PUMP)

	15 HP / 9 MEMBRANES	15 HP / 12 MEMBRANES	20 HP / 15 MEMBRANES	25 HP / 18 MEMBRANES
Feed pump	Goulds 5 HP 2St	Goulds 5 HP 2St	Goulds 5 HP 2St	Grundfos 7,5 HP + variable
High pressure pump	3 x 5 HP 20 GPM	3 x 5 HP 20 GPM	4 x 5 HP 20 GPM	5 x 5 HP 20 GPM
Simple box 3/4 HP	3	4	5	6
Double box 1 1/2 HP	3	4	5	6
Wash tank	3' × 3'	3' × 3'	3' x 4'	3' × 4'
Wash pump	Goulds 2 HP 2st	Goulds 3 HP 2st	Goulds 3 HP 2st	Goulds 3 HP 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



#### OUR INDUSTRIAL GRADE R.O.

#### **TOUGHER FOR BETTER PERFORMANCE!**

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

Powerful and compact, the horizontal configuration of the 10000 Series, as well as its all-stainless steel filter unit installed above the wash tank, greatly improves maintenance operations. For maximum efficiency, the 10000 Series allows up to 15 double membrane systems, for a total of 30 membranes. That's serious performance!

# CONFIGURATIONS

- Up to 30 membranes in 15 double housings with 1.5 HP recirculation
- 1 feed pump with variable speed drive
- 2 high-pressure pumps with variable speed drive
- 1 booster pump with variable speed drive
- 1 booster pump with variable speed drive
- Stainless steel sap filters with 6 cartridges for concentration
- 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

# R.O.'S | AUTOMATION



NEW

# 3k, 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** (UP TO 20° BRIX)

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 Flowmeter panel for filtrate with samplers pump cover
- 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
- 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!

### STANDARD CONFIGURATIONS (UP TO 20° BRIX)

MODEL TURBO	TURBO HP PUMP	FEED PUMP	SIMPLE VESSEL 8"	DOUBLE VESSEL 8"
TURBO 5 HP	1 x 5 HP (20 GPM)	2 HP Goulds	2	0
TURBO 10 HP	2 x 5 HP (20 GPM)	5 HP Goulds	4	0
TURBO 15 HP	3 x 5 HP (20 GPM)	5 HP Goulds	6	0

### MODULAR CONFIGURATION WITH BOOSTER PUMP (UP TO 25° BRIX)

MODEL TURBO	TURBO HP PUMP	FEED PUMP	SIMPLE VESSEL 8"	DOUBLE VESSEL 8"
TURBO 10 HP	2 x 5 HP (20 GPM)	5 HP Goulds	2	2
TURBO 15 HP	3 x 5 HP (20 GPM)	5 HP Goulds	3	3

#### **Options for the 3000 and 3000 ELITE Series**

- Two 5 way quick connect valves for concentrate and filtrate
- Concentrate and filtrate valve panel (3000 only)
- Optional stainless steel feed pump cover and high pressure pump cover (3000 only)
- Continuous Brix reader or AUTOBRIX valve including continuous Brix reader
- Various sizes of rectangular stainless steel wash tank with filtration installed on the tank (3000 only)
- 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.
#### R.O.'S | HYPERBRIX



Photo : 3K ELITE with modular membrane vessel rack

## **3000 ELITE SERIES**

A new star is born. This newcomer to the Lapierre R.O. family stands out for its ingenious design and all stainless steel construction. The integrated wash tank allows for minimal plumbing, ease of operation and an unmatched look. High pressure pumps are controlled by VFD for a better control of the pressure and to optimize energy efficiency of the R.O.

Available with automated option, **3K ELITE** 



#### CONFIGURATION STANDARD (UP TO 20° BRIX)

MODEL ELITE	TURBO HP PUMP	FEED PUMP	SIMPLE VESSEL 8"	DOUBLE VESSEL 8"
ELITE 5 HP	1 x 5 HP (20 GPM)	2 HP Goulds	2	О
ELITE 10 HP	2 x 5 HP (20 GPM)	5 HP Goulds	4	0
ELITE 15 HP	3 x 5 HP (20 GPM)	5 HP Goulds	6	0

#### MODULAR CONFIGURATION WITH BOOSTER PUMP (UP TO 25° BRIX)

MODEL ELITE	TURBO HP PUMP	FEED PUMP	SIMPLE VESSEL 8"	DOUBLE VESSEL 8"
ELITE 10 HP	2 x 5 HP (20 GPM)	5 HP Goulds	2	2
ELITE 15 HP	3 x 5 HP (20 GPM)	5 HP Goulds	3	3

## HYPERBRIX<sup>TM</sup> R.O. (UP TO 35° BRIX)



HYPERBRIX<sup>®</sup> R.O. Technology will save you time and energy. 2 Brix sap to 35 Brix concentrate in one single pass!

You have not seen everything yet in R.O. sap concentration technology! Lapierre's HYPERBRIX<sup>®</sup>, process can reduce the volume of water to be evaporated by 95%.

- Each HYPERBRIX<sup>®</sup> R.O. is paired with a HYPERBRIX<sup>®</sup> 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<sup>®</sup> 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.



## **VALVE PANEL**





	VALVE PANEL (CONCENTRATE)	CODE
1/2"		CN120-080812XX
3/4"		CN120-121212XX

	VALVE PANEL (FILTRATE)	CODE
1"		CN120-161612XX
1-1/4"		CN120-202012XX
1-1/2"		CN120-242412XX



## 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	CODE
Blue housing 2" x 20", 10 to 12 gal. capacity	CN206-002003XX
Purtrex 20" 5 micron pre-filter (1)	DV402-052001NX
Purtrex 20" 5 micron pre-filter (20)	DV402-052001NXB
Pre-filter protector (5)	DV401-000005XX
Tubular pre-filter protector (6)	DV401-000006XX
Plastic key for blue housing	CN206-150295XX





COMPLETE MODIFICATION KIT TO TRANSFORM A STD SAP FILTER INTO A 6-CARTRIDGE SAP FILTER	CODE
<ul> <li>Cartridges not included;</li> <li>Suitable for Lapierre sap filters from the year 2000 and up;</li> <li>For older filters, confirm compatibility.</li> </ul>	FE202-240614XX

#### LATERAL SUPPORT FOR 2 PRE-FILTERS

CN423-071202S2



MAINTENANCE PRODUCTS	CODE
Membrane soap TFC 1.13 kg	CN400-000000XX
Membrane soap TFC 11 kg	CN400-000011XX
Lubri-teck (glycerine) 1 litre	DV424-000001XX
Lubri-teck (glycerine) 4 litres	DV424-000004XX
SMBS preservative 1.5 kg	CN405-000001XX
Propylene glycol 4 litres	DV427-000004XX
Ph 10-12 test paper strip	DV243-000000XX
Ph 1-10 test paper strip	DV243-000112XX

### R.O.'S | ACCESSORIES

24" LAPIERRE SAP FILTER WITH 6 PRE-FILTERS 40 gal capacity (pre-filtered water) 20 gal capacity (non-pre-filtered water) / max. 75 PSI	CODE
Complete sap filter 1" inlet	FE002-240616XX
Complete sap filter 1-1/4" inlet	FE002-240620XX
Complete sap filter 1-1/2" inlet	FE002-240624XX

Uses the same pre-filters as the blue housing.

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24" LAPIERRE CLOTH SAP FILTER 15 GAL / MAX. CAPACITY 75 PSI	CODE
2 filter cloths included Complete sap filter 1" inlet	FE001-000016XX
Complete sap filter 1-1/4" inlet	FE001-000020XX
Complete sap filter 1-1/2" inlet	FE001-000024XX
5 micron filter cloth (1)	DV400-002401XX
1 micron filter cloth (1)	DV400-012401XX

#### Lapierre sap filter also available with stainless housing



FILTRATE SAMPLER	CODE
3/4" MPT x 3/4" MPT for Lapierre housing	CN410-000001XX
1/2" FPT x 1/2" MPT for Seprotech housing	CN410-000002XX

Several models can accommodate the housings of other brands.

STAINLESS STEEL WASH TANK	CODE
12" x 24" x 36", 29 USG	CN006-122436S3
Sap filter rack (24" tank)	CN427-000002A1
Blue housing rack (24" tank)	CN426-000002A1
12" x 30" x 36", 36 USG	CN006-123036S3
Sap filter rack (30" tank)	CN427-000003A1
Blue housing rack (30" tank)	CN426-000003A1
12" x 36" x 36", 43 USG	CN006-123636S3
Sap filter rack (36" tank)	CN427-000004A1
Blue housing rack (36" tank)	CN426-000004A1
24" x 36" x 36", 84 USG	CN006-243636S3
Sap filter rack (36" tank)	CN427-000004A1
Blue housing rack 70 gal (36" tank)	CN426-000005A1
24" x 48" x 36", 108 USG	CN006-244836S3
18" x 48" x 36", 84 USG	CN006-184836S3
Sap filter rack (48" tank)	CN427-000006A1
Blue housing rack (48" tank)	CN426-000006A1

WASH TANK OPTIONS	CODE
3000 W element	CN415-003000S4
3000 W element and thermostat with stainless steel well	CN005-000001XX
Safety system for heating element (magnetic box and water level control)	CN005-000002S4
Blue box for washing	CN005-000003S4
SS well for temperature control	EL830-010001SS

### NEW • MODULAR MEMBRANE VESSEL RACK

This flexible design allows multiple configuration. It can accommodate single or double membrane vessels, multy filtration units, booster pumps and even flowmeters for each membrane. The combination of single and double membranes housing, combined to a booster pump allows a higher concentration while maintaining exceptional performance.

5000 series technology is now available on smaller Lapierre R.O.'s



## 2500 OR 3500 OPTION

#### More compact with Horizontal membrane vessels

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

\*Not available on the 3 HP model





PRESSURE GAUGES GLYCERINE 2,5"	CODE
0-100 lb SS, connexion 1/4"	DV206-010040S6L
0-100 lb Brass lead free, 1/4"	DV206-010040SPL
0-400 lb connexion, SS 1/4"	DV206-040040S6L
0-600 lb SS, connexion 1/4"	DV206-060040S6L
0-600 lb Brass lead free, 1/4"	DV206-060040SPL
0-30 lbs Brass lead free, 1/4"	DV206-003040SPL
0-1000 lbs Brass lead free, 1/4"	DV206-100040SPL



#### 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.

PRESSURE GAUGES DRY 4"	CODE	
0-1000 lb SS, connexion 1/4"	DV264-100072S6L	Various capacities are available depending on the quantity of housings: from 2 HP 20 GPM to 5 HP 45 GPM. Sold with variable
0-1000 lb Brass lead free, 1/4"	DV206-100040S6L	speed control for optimal pressure adjustment. Please contact your Lapierre representative for more information.

## REVERSE OSMOSIS MEMBRANE

4 INCH MEMBRANE	CODE	STORAGE TANK	CODE
Filmtec NF90-4040, 4" x 40"	CN009-000440XX	4" × 40"	CN002-000440XX
ESPA4-4040, 4" X 40"	CN034-000440XX	8" × 40"	CN002-000840NX

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

8 INCH MEMBRANE (MAX. 600PSI)	CODE
ESPA4, 8" X 40"	CN034-000840XX
MAPLE XLE-8040, 8" X 40"	CN026-000840XX



## 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	CODE
4" or 8" performance and sugar test	CN401-000000XX
4" performance and sugar test + cleaning	CN401-000401XX
8" performance and sugar test + cleaning	CN401-000801XX

#### **R.O.'S** | ACCESSORIES



## **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	CODE
Concentrate up to 33,5° Brix	CN175-033006CX
BRIX READER ON SUPPORT	CODE
ATAGO 0-33.5 BRIX READER	DV175-000033KT
ATAGO 0-80 BRIX READER	DV176-000080KT

#### AUTOBRIX VALVE WITH BRIX READER LAPIERRE 0-45

Concentrate up to 45° Brix

CN175-045006CX



**BRIX READER 0-33.5** 



**BRIX READER 0-80** 



## DETERMINING THE TAP HOLE DEPTH TREE BY TREE FOR GREATER ACCURACY!

## By Stéphane Guay, biologist and Edith Bonneau, biologist

#### ÉRABLE & CHALUMEAUX (WWW.ERABLE-CHALUMEAUX.CA)

Maple syrup producers are becoming increasingly more precise in their actions, which are intended to improve the quality, quantity and sustainability of their production. Tap hole depth is one of the most significant and difficult factors to determine, as it has a major influence on the production and volume of the internal wound caused by the tap hole.

We know from the results of the Center ACER (CTTA 2004) that an optimal sap harvest is achieved by making a tap approximately 6 cm (2.35 in) deep, and that the difference in yield with a 3 cm (1.18 in) deep cut is 45%. It is obviously better to drill deep, but the experience of maple producers who too often touch dead wood during tapping reveals that it is not always possible to cut so deep without jeopardising future yields.



The growth of the maple trees and their vigour are therefore the main factors that should guide any maple producer in the choice of the depth of taps. In general, the choice of tap hole depth is applied to the entire sugar bush, which can, for some trees, be an over-use and for others, an under-use. Would it not be better to choose a notching depth that is tailored to the health and vigour of each maple tree? This is how we envision the practical possibility of accomplishing this!

#### KEY STEP: DETERMINING THE VIGOUR OF A MAPLE TREE.

**The bark's appearance**: a study has shown that the smooth or rough appearance of the bark is a good visual indicator for determining the growth of a maple tree (Gauthier and Guillemette, Avis de recherche forestière, no. 105, 2018). This means that a maple with smooth bark grows better and faster than a maple with rough bark.

The closing speed of tap holes from the previous year: we know that the closing speed of tapholes is often associated with the vigour of the maple trees. A hole that closes in the same year is a sign that the tree is making a significant effort and that it will be able to support a slightly deeper hole.

#### DETERMINING THE TAP HOLE DEPTH.

**Maximum depth**: 5 cm (2 in.) excluding bark. Through 3D simulations and mathematical calculations, it appears that even with systematic 3-stage tapping, very few trees in a forest stand can withstand deeper cuts in the long term.

**Minimum depth**: 3 cm (1.18 in.) excluding bark. For a minimum yield, the 3 cm notch is a compromise between the precarious state of health of a tree and reasonable production.

Maple trees with smooth bark and holes that close during the year are those that can withstand a 5 cm (2 in.) deep tap. Maple trees with rough, scaly bark and a tap hole that closes within a year or so could be tapped at an average depth of 4 cm (1.57 in.). Other maple trees, which have less vigour, may be tapped at a depth of 3 cm (1.18 in.).

This means that modern maple syrup producers need to know the visual signs of vigour in their maple trees!

Have a great season!









## Figure 2: Longitudinal section of a 4 cm (1.57 in.) deep notch wound.

The deeper the tap holes made by the maple producer, the longer the internal wound will be at the top and bottom of the hole. The dead wood thus created is unproductive if it is drilled again in subsequent years. Furthermore, when two wounds are close together, less than 5 cm (2 in.) apart horizontally and between 30 cm and 40 cm (12 in. and 16 in.) vertically, they may merge and result in a much larger overall wound.



Figure 3: Close-up of a 4 cm (1.57 in.) longitudinal cut of notch wound.

By looking closely at a tap hole wound, you can see that the rings of young wood, located near the bark, easily limit the height of the dead coloured wood. It can therefore be assumed that these growth rings are the first to close during the season, which would explain why the deep cuts sink more.

## 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 fired evaporator as well as on the Force 5 and Fusion wood fired evaporator. Several sizes are available. Ask your maple syrup advisor for more information.

#### **Results of tests carried out with producers in spring 2020**

- Equipment: Turbo 3 6' x 20'
- Concentrated: 23,5 Brix
- Average oil consumption:
   0.15 gallons per 1 gallon of syrup
- Average production: 211 imperial gallons or 253 us gallons per hour





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

#### OFFERED FROM

• 2-1/2' x 8' to 6' x 18'

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



Super heavy duty arch frame structure.





## THE WOOD COMBUSTION REFERENCE IS GETTING BETTER ALL THE TIME

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

#### ELECTRICAL SYSTEM ENTIRELY CERTIFIED!

Eliminate safety authorities issues and insurance concerns.



Reloading is noticeably far apart with Force 5 controlled arch (will vary according to producer reality).



#### **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!



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



Super heavy duty arch frame structure.

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

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



#### **HYPERBRIX®** version available

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



## WOOD FIRED EVAPORATOR IGNITE THE POWER OF NATURE



## **FUSION**<sup>2</sup>

## **A BEAST WITH A GREAT DESIGN**

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

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

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

THE FUSION OF INNOVATION COMBINING PERFORMANCE AND NATURE

## **BENEFITS**

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

## **SPECIFICATIONS**

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





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

## OUR CLASSIC OIL EVAPORATOR: THE VOLCANO 2000



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.

#### EVAPORATORS | VOLCANO 2000 HB



## VOLCANO 2000 PPER PBRIX

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 a complete range of modulating Riello oil and gas burners. Burner modulations allow heat release control to be adapted to the maple concentrate condition.

#### **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 1/7 GALLON** OF OIL TO MAKE ONE GALLON OF SYRUP

(AT 24 BRIX)

#### **OFFERED FROM**

• 2-1/2' X 12' to 6' X 20'

#### 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 absorptionby 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.



#### **EVAPORATORS** | TURBO GENERATION 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 3<sup>rd</sup> Generation evaporators are available with modulating RIELLO burners. Burner modulations allow heat release control to be adapted to the maple concentrate condition.



#### **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



Fire and performance for hobby and small business operations.





## EXCEPTIONAL VISION

## This line of evaporators offers you exceptional vision:

- With a full size airtight door and air cooled for a better efficiency
- Of the inside of the arch for an unprecedented feel in your *Sugar Shack*
- With its classic, sleek design and state-of-the-art technology
- Thanks to its newly-engineered combustion chamber

Our VISION line is designed for hobby or smaller sugar makers or those without electricity. It offers producers high performance, high efficiency and amazing ease of operation.

#### PRACTICAL FEATURES FOR AN INFORMED DECISION:

- Enclosed ash box allows for installation on any surface
- Adjustable legs for multiple height options and ease of leveling
- "Comfortable" working height, even for small models
- Single door giving access to the arch and ash box
- Stainless steel ultra-chic design
- Easy to clean
- Cooled arch door handle

#### VISION 18 & 24 in evaporators with INNOVATIVE DRAW-OFF PANS:

- Perfect for beginners and intermediates
- Remarkable boiling distribution
- One single control level or float rather than two



#### OUR NEW AIRTIGHT COMBUSTION CHAMBER IS THE CORE OF OUR PERFORMANCE

#### Large arch capacity:

• Reduces the number of refills per hour

#### Airtightness achieved by:

- With fully gasketed door as well as gasketing between the arch and pans.
- An optional seal between each pan

#### Airtightness for:

- Faster start-up
- Better burn rate control
- Less cold air ingress for increased performance
- Performance equal to or better than current models of the same capacity
- Less fuel

#### **Energy efficient to:**

- Significantly reduce heat loss and energy consumption
- Optimize the amount of energy used for syrup production

#### **Choice of lines:**

## The VISION line offers you several possibilities regarding the equipment included with your evaporator.

From the basic model to the top of the line, each of them has what it takes to produce high quality maple syrup.

#### **Dimensions :**

18 x 48 in*	30 x 120 in	36 x 120 in	36 x 144 in
18 x 60 in*			
24 x 72 in*			

24 x 96 in

24 x 120 in



#### Warranty

Two-year limited warranty on parts and labor

\*Available dimensions for innovative draw-off pans. \*Dimension disponible avec pannes à bouillir innovantes

## WHY A Maple Production Key Cluster? WORKING TOGETHER TO INNOVATE AND EXCEL.

In the fall of 2020, born from the desire of the community, the **Maple Production Key Cluster** came into being. With the support of several companies from its sector, including **Équipements Lapierre**, the regional cluster of Bas-Saint-Laurent and Chaudière-Appalaches is positioned as a linchpin of collaboration in research and development that will ensure the growth and influence of the maple industry.

This key cluster is the result of the **ACCORD** approach of the Ministry of Economy and Innovation. It is based on bringing together and mobilizing businesspeople from a sector for whom the pursuit of excellence is the primary goal. It relies on the development of alliances between participants and the synergy that they provide. Several other key clusters are active in Quebec, including EcoConstruction, Health Foods, and Clean Technologies.

#### **ORGANIZATIONS INVOLVED**

- Processors and distributors
- Educational institutions
- Research and expertise centres and CCTTs
- Representatives from the Quebec Maple Syrup Producers (PPAQ)
- Maple production equipment suppliers
- Development agencies
- Forestry stakeholders
- Maple producer unions
- Maple producers
- Government ministries and representatives
- Technical support clubs
- Other key clusters



For its part, the **Maple Production Key Cluster** represents the desire of the industry and the Gouvernement du Québec to push the boundaries of maple production.

Its mission is as follows: The Maple Production Key Cluster acts in support of all industry partners by strengthening consultation and networking while supporting research, innovation, training, and export projects for maple products that stem from common issues. The goal is to promote the growth and development of companies in the sector in a sustainable development approach.

Its strategic axes are:

- Innovation
- Human resources
- Export
- Sustainable development
- Communications

It intends to serve its strategy by pursuing the following objectives:

- 1. Through research and innovation, improve production processes in order to optimize the quality of primary processing products according to a sustainable development approach.
- 2. Through research and innovation, increase secondary and tertiary processing, including the development of new products and equipment.
- 3. Increase exports of maple products as well as production and processing equipment.
- 4. Develop suitable training for business leaders and workers in the maple sector in order to mitigate the labour shortage.
- 5. Preserve and develop the resource through innovation.

At **Équipements Lapierre**, we're proud to be partners of this unifying project, and we hope to take advantage of the 2021 edition of our catalogue to invite all the innovators in the maple world to keep a watchful eye on the advances in this cluster, which—we believe—will be able to advance this flagship of our culture.



In partnership with



## **The Classic**

#### AVAILABLE SIZES

- 2' × 6'
- 2' x 8'
- 2' × 10'

#### **AVAILABLE OPTION**

• Pan covers.



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

## The Barrel

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.

#### 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.

#### **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 including base pipe);
- Cold and hot float boxes;
- Stainless heavy duty interconnections;
- Draw off ball valve included;
- Fire bricks and insulation kit 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).

#### **High Pressure Pan Washer**

#### The natural solution to save time and cleaning products

#### This system provides continuous, non-contact washing to remove stubborn stains

- For both flue and syrup pans
- 5 HP recirculation pump
- Entirely made of stainless steel
- 4 Belimo valves
- Use in automated and sequential mode or in manual mode
- Up to 4 programmable washing sequences
- Tank with filtration screen, splash-proof Lexan and non-slip metal plate used as a step

#### SYRUP PAN OPTION

Stainless steel tube with nozzles that can remain in place during operation. Splash proof Lexan cover



## 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	CODE
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 = 1/2 HP pump; For 72" tank = 1 HP pump. Cover not included.



<b>N</b>	
OPTIONS	CODE
Auto-Stop by pressure	EL049-281102XX
Stainless steel sprinkler only with acetal adaptor	EV250-000000XX
Filter only 1-1/2"	EV250-000002XX
Filter only 2"	EV250-320002XX

RECESSED COVER WITH SPRINKLERS (LAPIERRE PAN)	CODE
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' 4' x 10'
- 3' x 10' 5' x 9'
- 3-1/2' x 9' 5' x 10'
- 3-1/2' × 10' 6' × 10'

• 4' x 9'



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

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

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

Available for all Lapierre-Waterloo-Small evaporators models (more than 3') Please contact your representative for more details.

#### **EVAPORATORS** | ACCESSORIES AND OPTIONS

#### **REVERSE FLOW KIT**

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

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

#### **CENTRAL DRAW-OFF KIT**

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

#### 2" SIGHT LEVEL

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





**7" AND 9" HIGH DIAMOND POINT FLUES** Made with 304BA (Bright annealed) SS and available on Storm (2 <sup>1</sup>/2 ' +), Hurricane Force 5 and Fusion, 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.
- Stack termination must be 10ft higher than any obstacle in a 20ft 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		
PR	EFAB	
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.

### **EVAPORATORS** | MISCELLANEOUS

#### MAPLE SYRUP AUTO CONTROL

- Made by Lapierre;
- High precision;
- Fast reaction and reliable;
- Removable actuator and control box;
- Programmable to adapt to ٠ evaporator size;
- Easy to wash;
- Manual or auto mode;
- Probe included;
- Heavy duty SS clamp and gasket required. SEE PAGE 107

#### LAPIERRE MODULATING DRAW-OFF CODE Ferrule 1-1/2" outlet (1 probe) DV122-240001XX Ferrule 1-1/2" outlet (2 probes) DV122-240002XX 1-1/2" replacement rubber gasket DV322-000024Q1 Elbow, 90°, 1-1/2" (optional) EV707-902424S2 Ferrule 2" outlet (1 probe) DV122-000001XX Ferrule 2" outlet (2 probes) DV122-000002XX DV322-000032Q1 2" replacement rubber gasket Elbow, 90°, 2" (optional) EV707-903232S2



YSTEC LOW SAP LEVEL DETECTOR WITH BURNER SHUT-OFF (120 VOLTS)	CODE
Control unit	EADETEC3
Complete kit	NV005-000001ST



#### **DISPENSER AUTO** CODE FOR LIQUID DE-FOAMER

Replacement pump

LAPIERRE

EXCLUSIVE

DV168-000000XX

PM568-240104XX

Low sap alarms Ystec (2 probes)
/STEC

WITH AUDIBLE ALARM (1 PROBE)

EADETEC4

#### LOW SAP ALARMS YSTEC WITH BURNER (2 PROBES)

EADETEC3-2

## 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.

SONDE SUPPORT CODE Sonde support for front pan CS015-031303ST

#### EVAPORATORS | MISCELLANEOUS









**F** - Lovibond comparator

 ${f J}$  - Dial thermometer









**D** - Barometer

E - Digital Grader

THERMOMETER	CODE
A - 8-1/4" digital thermometer	EITBO012
B - 12" SS back thermometer	EITDT158
C - 18" thermometer	EITBC018
Replacement stem for 18" thermometer	EITRC018



CENTER ACER	CODE
G - Maple syrup off-flavor detection kit	DV039-000000XX
H - Grading kit of iise/ims for new classification	DV028-000000NX
I - 1 oz simple bottle	EICOL016
Syrup grading kit VT 2019	EICOL001

J - DIAL THERMOMETER	CODE
3" dial 1/4" thread, 6" stem 0-50 deg. F	EITC0306
3" dial 1/4" thread, 9" stem 0-50 deg. F	EITC0309
3" dial 1/4" thread, 12" stem 0-50 deg. F	EITC0312
5" dial 1/4" thread, 9" stem 0-50 deg. F	EITC0509
5" dial 1/2" thread, 9" stem 0-50 deg. F	EITC5509
3" dial 1/2" thread, 9" stem 0-250 deg. F	EITC0325
3" dial 1/2" thread, 6" stem 50-300 deg. F	EITC0336
3" dial 1/2" thread, 9" stem 50-300 deg. F	EITC0330
3" dial 1/2" thread, 18" stem 50-300 deg. F	EITCO318
5" dial 1/2" thread, 12" stem 50-300 deg. F	EITC0512

#### D - 5" BAROMETER

#### DV010-001353XX

E - MAPLE SYRUP DIGITAL GRADER HI759

DV024-000759XX

F - LOVIBOND COMPARATOR (NEW GRADING SYSTEM)

DV034-433240XX

EVAPORATORS | MISCELLANEOUS





# COMBUSTION CONTROL SYSTEM

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.

### EVAPORATORS | ACCESSORIES



ATAGO MASTER H SERIES 60-70 BRIX (SYRUP)

DV012-006070XX

## Developed especially for maple syrup

• 60 to 70 Brix scale easier than ever to read;



• Built-in protection against dust and water.



DIGITAL REFRACTOMETER	CODE
A - Atago digital 0-85 Brix	DV013-000085XX
B - Misco digital 0-85 Brix	DV022-000085XX

REFRACTOMETER	CODE
LED backlit 0-32 Brix (sap and high concentrate)	DV014-000032XX
LED backlit 45-82 Brix (syrup)	DV014-004582XX







Hydrometer and hydrotherm Conductivimeter

Hydrometer cup

HYDROMETER AND HYDROTHERM	CODE
USA certified hydrometer 0-12 Brix (sap) (USA only)	DV020-000012VT
USA certified hydrometer 45-75 Brix (syrup) (USA only)	DV020-004575VT
Hydrometer 0-35 Brix (sap)	DV020-000035XX
Hydrometer 45-75 Brix (syrup)	DV020-004575XX
Robi density for hydrotherm (1 liter)	DV426-000001XX
Hydrometer 0-15 Brix (sap)	DV020-000015XX
Hydrometer 50-70 Brix (syrup)	DV020-005070XX
Hydrotherm red column	DV023-000000XX
Conductivimeter Hanna HI98308 (5 programmable scale)	DV021-098308XX

CODE	HYDROMETER AND HYDROTHERM CUP
DV025-002414ST	Hydrometer cup 1 <sup>1</sup> /2" x 14" WITH BASE
DV025-003212ST	Hydrotherme cup 2" x 12" WITHOUT BASE
DV025-003214ST	Hydrotherme CUP 2" x 14" WITHOUT BASE



## 

Calibration solution 66.0 brix (for refractometer)

CODE

DV137-000660XX



SS butterfly valve

SS BUTTERFLY VALVE (BLACK HANDLE)	CODE
1-1/2"	VA020-002424S2
1-1/2" rubber gasket	VA020-000024Q1
2"	VA020-003232S2
2" rubber gasket	VA020-000032Q1

SS FERRULE CLAMP WITH SCREW	CODE
1-1/2"	DV256-000024S2
2"	DV256-000032S2
3"	DV256-000048S2
4"	DV256-000064S2

SANITARY TRI-CLAMP REPLACEMENT CLEAR GASKET	CODE
1"	EAG40MP-S10
1-1/2"	EAG40MP-S15
2"	EAG40MP-S20
3"	EAG40MP-S30







Sanitay tri-clamp replacement clear gaseket

HEAVY DUTY SS CLAMP	CODE
1-1/2"	DV256-000024S2
2"	DV256-000032S2

CERAMIC BLANKET	CODE
12" × 24"	DV475-162408XX

HIGH DENSITY ARCH BOARD	CODE
24" × 48" × 1/2"	EBISOL24

ARCH TO PAN GASKET	CODE
1-1/2" × 3/8"	EBTPR121
2" × 3/8"	EBTPR122

FIRE BRICK AND REFRACTORY CEMENT	CODE
1-1/4" Brick	DV477-010904XX
2-1/4" Brick	DV477-020904XX
Refractory cement (15 lb)	DV476-000016XX
Refractory cement (25 kg)	DV476-000025XX

## EVAPORATORS | ACCESSORIES



Defoamer cup





Defoamer





FILTER	CODE
#8 filtration cone	EVBO008W
#8 filtration cone seamless	EVBF008W
#8 poly. prefilter, 12/pack	EVPAT008
Filtration material 36" x 36"	EVCO3636
Polyester paper 36" x 36", 12/pack	EVPA3636

DEFOAMER	CODE
Kasher defoamer (200 g)	DV406-000200LA
Liquid defoamer LWS (8 oz)	EVAN108W
Liquid defoamer LWS (32 oz)	EVAM032W
Liquid defoamer LWS (128 oz)	EVAM128W

DEFOAMER CUP (WATERLOO)	CODE
1" with 4" folded support	EVAMGO01
1" with 10" unfolded support	EVAMGO10
2" with 10" unfolded support	EVAMGO20

SUNFLOWER OIL	CODE
Deodorized organic sunflower oil (1 liter)	DV508-000001XX
Organic sunflower oil SOLEIL D'OR (3 liters)	DV507-000003XX

BIO SUNFLOWER OIL, ODORLESS, CERTIFIED KOSHER & ECOCERT	CODE
1 liter	DV509-000001XX
4 liters	DV509-000004XX



DEFOAMER CUP (LAPIERRE)	CODE
Defoamer cup 1"	DV045-000001S2
Defoamer cup 1-1/2"	DV045-000002S2
# EVAPORATORS | ACCESSORIES





SCOOP	CODE
Small scoop	DV040-042003ST
Large scoop	DV040-062001ST
Small perforated scoop	DV041-042004ST
Large perforated scoop	DV041-062002ST

DIPPER	CODE
Round dipper (1 quart)	EADPR030
Round dipper (2 quarts)	EADPR031
Flat side dipper (1 quart)	EADPD040
Round dipper with holes for taffy (2 quarts)	EADPRT31
Flat nose dipper (2 quarts)	EADPD060





ALUMINUM STEP	CODE	MIXING PADDLE STAINLESS	CODE
22" × 15" × 12"	DV545-221512XX	6" × 48"	DV052-8067633XX
48" × 15" × 12"	DV545-481512XX	6" × 60"	DV052-8067634XX



# EVAPORATORS | ACCESSORIES





ROUND SYRUP FILTER TANK WITH TOP LID	CODE
5 gal (9" dia. x 22" height)	EM115-092205ST
15 gal (14" dia. x 27" height)	EM115-142715ST
24 gal (18" dia. x 27" height)	EM115-182724ST
40 gal (23" dia. x 27" height)	EM115-232740ST
Base on casters for 15-24-40 gal	EM315-010000ST



	DUAL SQUAR	E TANKS ON CASTERS	S WITH VALVE	CODE
18" x 18" x 32"	2 x 27 imp. gal	2 x 32 USG	21" x 39" x 32" (Overall)	EM160-181832S3
18" × 24" × 32"	2 x 35 imp. gal	2 x 42 USG	21" x 51" x 32" (Overall)	EM160-182432S3
18" x 36" x 32"	2 x 53 imp. gal	2 x 63 USG	21" x 75" x 32" (Overall)	EM160-183632S3
24" × 24" × 32"	2 x 50 imp. gal	2 x 60 USG	27" x 51" x 32" (Overall)	EM160-242432S3
24" × 36" × 32"	2 x 75 imp. gal	2 x 90 USG	27" x 75" x 32" (Overall)	EM160-243632S3

	TRIPLE SQUAI	RE TANKS ON CAST	ERS WITH VALVE	CODE
18" x 18" x 32"	3 x 27 imp. gal	3 x 32 USG	21" x 57" x 32" (Overall)	EM161-181832S3
18" × 24" × 32"	3 x 35 imp. gal	3 x 42 USG	21" x 75" x 32" (Overall)	EM161-182432S3
24" × 24" × 32"	3 x 50 imp. gal	3 x 60 USG	27" x 75" x 32" (Overall)	EM161-242432S3

# EVAPORATORS | ACCESSORIES



SYRUP TANK WITH CONE FILTERS	CODE
Rectangular syrup tank (24 gallons) with cover and support for three cone filters (#8 cone filters not included)	EM174-122436S3
	States -
-	

1.20

Stainless steel outlet optional.



OPTIONS FOR SQUARE TANKS ON CASTERS	CODE
SS outlet option 1" x 1" x 1-1/4" (MPT x MPT x FPT)	EM360-161620S2
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
SS cover with handle (18" x 18")	EM359-001818S3
SS cover with handle (18" x 24")	EM359-001824S3
SS cover with handle (18" x 36")	EM359-001836S3
SS cover with handle (24" x 24")	EM359-002424S3
SS cover with handle (24" x 30")	EM359-002430S3
SS cover with handle (24" x 36")	EM359-002436S3

	DUAL SQUARE TANKS	S ON CASTERS WIT	H VALVE AND SKIRT	CODE
18" × 18" × 32"	2 x 27 imp. gal	2 x 32 USG	21" x 39" x 32" (Overall)	EM170-181832S3
18" × 24" × 32"	2 x 35 imp. gal	2 x 38 USG	21" x 51" x 32" (Overall)	EM170-182432S3
18" × 36" × 32"	2 x 53 imp. gal	2 x 63 USG	21" x 75" x 32" (Overall)	EM170-183632S3
24" × 24" × 32"	2 x 50 imp. gal	2 x 60 USG	27" x 51" x 32" (Overall)	EM170-242432S3
24" × 36" × 32"	2 x 75 imp. gal	2 x 90 USG	27" x 75" x 32" (Overall)	EM170-243632S3
	TRIPLE SQUARE TANK	S ON CASTERS WIT	TH VALVE AND SKIRT	CODE
18" × 18" × 32"	<b>TRIPLE SQUARE TANK</b> 3 x 27 imp. gal	s on casters with 3 x 32 USG	TH VALVE AND SKIRT 21" x 57" x 32" (Overall)	CODE EM171-181832S3
18" x 18" x 32" 18" x 24" x 32"	3 x 27 imp. gal 3 x 35 imp. gal	3 x 32 USG 3 x 38 USG	21" x 57" x 32" (Overall) 21" x 75" x 32" (Overall)	EM171-181832S3 EM171-182432S3
18" x 18" x 32" 18" x 24" x 32"	3 x 27 imp. gal 3 x 35 imp. gal	3 x 32 USG 3 x 38 USG	21" x 57" x 32" (Overall)	EM171-181832S3

- Specifications are subject to change without notice -



# ADJUSTING THE SOLUBLE SOLID CONTENT OF MAPLE SYRUP

# **A KEY STEP IN OPTIMIZING YIELDS**

# The team at Centre ACER

The soluble solids content of maple syrup, estimated using the Brix degree (°Brix) scale, is one of the parameters used to evaluate the commercial value of maple syrup in the bulk maple syrup marketing system in Quebec. The details of the calculation for tying the value of a given syrup to its °Brix are described in the maple syrup marketing agreement. However, it is important to understand that outside the range of 66 to 67 °Brix, adjustments can be made on two points: the weight (lb) and the unit value of the syrup (\$/lb). While the first parameter is intended to adjust the weight of the barrel to reflect its actual sugar content, the second allows the value of each pound of syrup to be adjusted; the value of the syrup container is therefore determined by multiplying the weighted weight of the syrup and the value per pound retained, which is based on the °Brix of the syrup. In addition, there is an economic advantage in providing syrup with a °Brix as close as possible to 66 °Brix. The closer the syrup is to the value of 66 °Brix, the more the income is optimized for the producer. However, it is important to adjust the soluble solids content with the right tool, to ensure that it is used properly and, most importantly, that it is properly calibrated. To do this, ACER recommends using the refractometer, optical or digital, and calibrating it with the refractometer reference solution at 66 °Brix +/-0.1 at 20°C, but one must avoid falling into the trap of aiming too close to the limit and thus risk being penalized on the basis of too low a soluble solids content (low Brix). To do this, the target Brix must be determined based on the inaccuracy of the measurement prevalent in the company.

# **DETERMINING THE TARGET °BRIX**

To determine the target °Brix in its production, the producer must define the level of uncertainty in its measurement. It is important to understand that uncertainties always add up; do not approach this process believing that the uncertainties cancel each other out. This uncertainty arises from the following factors:

- Uncertainty with respect to the measuring device: This uncertainty is usually given in the user manual of the measuring device and is usually around 0.2 °Brix.
- Uncertainty resulting from the calibration of the measuring instrument: The proposed reference solution itself contains an uncertainty of +/- 0.1 °Brix if the refractometer is calibrated daily using a reference solution that has been properly stored (at a temperature of 20°C).
- If the calibration procedure is carried out properly and daily, the inaccuracy value resulting from the solution itself can be maintained. Otherwise, the inaccuracy value must be increased; see the user's guide on the reference solution for more details.
- Uncertainty resulting from poor measurement procedures: this uncertainty is difficult to quantify, but any deviation from good practice should prompt the producer to consider adding a safety margin at this stage. As a reminder, it is important to keep the sample, the refractometer and the demineralized water used to clean it at 20°C to ensure that the accuracy of the measurement is maximized.

- Sample representativeness: When taking the °Brix measurement of a maple syrup sample, it is important to ensure that what is measured is representative of what will be put into containers for marketing (bulk or retail). Thus, it is necessary to ensure that syrup evaporation is kept to a minimum during calibration, in the syrup maker, and in the sample jar. Lids are therefore required. Additionally, make sure that no new syrup is added from the evaporator to avoid influencing the °Brix of the syrup in the syrup container. Finally, it must also be understood that the content of the filter unit (syrup from the previous batch or rinsing or loading water) can influence the soluble solids content after use. The use of a recirculation period before the syrup is fed into the barrel is therefore recommended in order to reduce this phenomenon.
- The homogeneity of the sample and the syrup it represents: the maple syrup contained in the syrup maker must be stirred frequently to ensure that the maple syrup it contains has consistent soluble solids content throughout its mass.

In light of this information, it seems extremely risky to aim at a Brix production below 66.3 °Brix. Indeed, if we add the uncertainties of the instruments (0.2 °Brix) and the solution (0.1 °Brix) to the minimum value intended to be 66.0 °Brix for maple syrup, we obtain 66.3 °Brix. It should be noted that any suspected issues with the homogeneity and representativeness of the sample and syrup or any deviation from the best calibration and measurement procedures should prompt the producer to increase this target value.

#### THE EFFECT OF SOLUBLE SOLIDS ADJUSTMENT ON THE TOTAL VALUE OF THE HARVEST

In order to illustrate the value of precisely adjusting the soluble solids content of maple syrup, a brief analysis of the production data that was generously disclosed to us anonymously by the Québec Maple Syrup Producers (QMSP) illustrates the increase in value that can be expected for all maple syrup producers if the soluble solids content of maple syrup were adjusted more precisely (see table below):

Adjusting the soluble solids content of maple syrup optimizes the revenues of maple syrup producers in two ways: by optimizing the volume of maple syrup produced and by promoting its quality. Indeed, syrups outside the range of 66 to 67 °Brix are likely to crystallize or deteriorate by the action of microorganisms. In order to ensure this adjustment, the proper use of the refractometer and its calibration are critical. The reference solution is therefore an indispensable tool for the producer in this search for quality and optimization. When purchasing a reference solution, make sure that it has not passed its expiry date and that it is stored at an appropriate temperature (~20°C). Finally, refer to the user manual provided in the box to ensure proper use of the product. If you have any questions regarding the content of this article, please contact Ms. Lise Lessard at liselessard@centreacer.gc.ca or at 819 369-4000, ext. 406, or Ms. Véronique Guillotin at veroniqueguillotin@centreacer.qc.ca or at 819 369-4000, ext. 405.

YEAR	2017	2018	2019	2020
Total harvest weight (lbs)	137,278,772	106,341,937	140,447,586	151,032,081
Weighted average Brix of the harvest (°Brix)	66.6	66.4	66.5	66.5
Theoretical weight of the harvest if it was at an average °Brix of 66.3 °Brix (lbs)	137,899,943	106,502,332	140,871,258	152,176,263
Weight gain if the entire crop was at 66.3 °Brix (lbs)	621,171	160, 395	423,672	1,144,182
Value of theoretical earnings at \$2.82/lb (\$)	\$1,751,702	\$452,313	\$1,194,755	\$3,226,593

Reference solution for refractometer at 66.0 °Brix (3 0.1) at 20°C see page 106



# **Filter press**

7" AND 10" SQUARE FILTER PRESS	CODE
7" filter press, 3 hollow and 2 plates (expandable to 5 hollow) with N4000L lead free pumping unit	SR005-030207SP
7" filter press, 3 hollows, 2 plates, w/o pumping unit and w/o swivel support	SR010-030207XX
7" filter press, 8 hollow and 7 plates (expandable to 10 hollow) with N4000L lead free pumping unit	SR005-080707SP
7" filter press, 8 hollows, 7 plates, w/o pumping unit and w/o swivel support	SR010-080707XX
7" filter press, 10 hollow and 9 plates with N4000L lead free pumping unit	SR005-100907SP
7" filter press, 10 hollows, 9 plates, w/o pumping unit and w/o swivel support	SR010-100907XX
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, 3 hollows, 2 plates, w/o pumping unit and w/o swivel support	SR010-030210XX
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, 7 hollows, 6 plates, w/o pumping unit and w/o swivel support	SR010-070610XX
10" filter press 10 hollow and 9 plates with N4000L lead free pumping unit	SR005-100910SP
10" filter press, 10 hollows, 9 plates, w/o pumping unit and w/o swivel support	SR010-100910XX
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

15" SQUARE FILTER PRESS	CODE
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, 7 hollows, 6 plates, w/o pumping unit and w/o swivel support	SR010-070615XX
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' filter press, 26 hollows, 25 plates with double inlets and outlets w/o pumping unit	SR010-262515XX
15" additional, hollows and plates	SR011-000015XX
PUMPING UNIT OPTION FOR 15" SQUARE FILTER PRESS	CODE
1/2" Yamada diaphragm pumping unit	SR003-150008NX
1" Yamada diaphragm pumping unit	SR003-150016NX
pumping unit 3 pistons with Y51XN pump, 1/2 HP	SR003-150851XNA
SHELF & VALVE OPTION FOR 15" FILTER PRESS	CODE
	CODE SR405-150237TX
15" FILTER PRESS shelf option for Yamada	

ACCURATE ACCURATE



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

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

# TRANSFORMATION | FILTRATION



Filter paper

Restriction plate

ACCESSORIES	CODE	DIAPHRAGM PUMPING UNIT	CODE	
12" Washable filter cloth 1 micron (pkg/2)	DV400-011202XX	Yamada diaphragm syrup pump 1/2"	SR003-000008NX	
12" Washable filter cloth	DV400-001202XX	Yamada diaphragm syrup pump 1"	SR003-000016NX	
5 microns (pkg/2) 24" Washable filter cloth 5 microns (pkg/1)	DV400-002401XX	Each pumping unit includes pressure and bypass hoses.		
O'ring #253, 5-3/8"	DV201-000253XX	REPLACEMENT DIAPHRAGM PUMP	CODE	
Dicalite Diatomaceous earth (filter aid) 10 lb	DV403-010010XX	Yamada diaph. syrup pump 1/2", 4 gal/min @ 50 PSI, 7 SCFM	PM006-000008A1	
Dicalite Diatomaceous earth (filter aid) 50 lb	DV403-010050XX	Yamada diaph. syrup pump 1", 25 gal/min @ 50 PSI, 25 SCFM	PM006-000016A1	
White filter papers 7" (box/400)	DV404-000007XX 1/4" regulator filter for diaphragm syrup pump		PM204-534221XX	
White filter papers 10" (box/400)	DV404-000010XX			
White filter papers 15"	DV404-000015XX	KIT OF REPAIR	CODE	
(box/250) 6' translucent tubing		Kit of repair #15 diaphragm pump 1/2"	PM206-080015KTMH	
assembled with SS hook and fitting 1/2"	SR200-000027XX	Kit of repair #25 diaphragm pump 1"	PM206-160025KTMH	
6' translucent tubing assembled without SS hook	SR200-000027AX			
and fitting 1/2"	3R200-000027AX	3 PISTONS PUMPING UNIT	CODE	
		1/2 HP Baldor motor with Y51 pump (with aluminium suction and piston chamber)	SR003-080751XNA	

POMPCO S-275 ALL STAINLESS HEAD	CODE	RESTRICTION PLATE FOR SQUARE FILTER PRESS	CODE
Syrup filter pumping unit		SS 10" plate	SR405-101832S4
(includes pressure and bypass hoses)	SR003-000275XX	SS 15" Plate	SR405-151632S4



DOUBLE HOLLOW PLATES	CODE
Double hollow plate 7" (o'rings not included)	SR405-070008RX
Double hollow plate 10" (o'rings not included)	SR405-100007RX

# TRANSFORMATION | FILTRATION

# Sirofilter

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

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

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





GEAR PUMPING UNIT	CODE
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

REPL	ACEMENT MOTOR	CODE
1/3 HP Motor		SR300-000023XX



REPLACEMENT PUMPS (OBERDORFER)	CODE
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 1/2 HP maple cream maker)	EM300-080004SP
Model NL9000L, 1" inlet (for 2 HP maple cream maker)	PM103-090004XX

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

# **Pneumatic bottler system**



LAPIERRE PNEUMATIC BOTTLER SYSTEM	CODE
Lapierre pneumatic bottler system with manual control (bottling valve and tablet not included)	EM100-160102KT
Lapierre pneumatic bottler system with digital control (bottling valve and tablet not included)	EM100-160102CN
Option bottling valve 10 mm	EM306-062410KT
Option bottling valve 15 mm	EM306-062415KT
Lapierre pneumatic single bottler system with manual control and bottle guide (bottling valve not included)	EM306-020506CMS



Bottling Bottling valve kit valve only

OPTIONS	CODE
Option SS shelf (18")	EM306-161804KT
Bottling valve 10 mm	EM245-062410XX
O'ring and U-cup kit for bottling valve 10 mm	DV201-100245XX
Bottling valve 15 mm	EM245-062415XX
O'ring and U-cup kit for bottling valve 15 mm	DV201-150245XX

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.



3000 W element	
with temp. control	

# Syrup water jacketed tanks

SYRUP WATER JACKETED TANKS	CODE
10 gal (12 USG) 20" x 16" 1 x 3000 W 2 syrup outlets	EM140-000010ST
Stand with adjustable shelf	EM340-201600ST
24 gal (29 USG) 32" x 20" 2 x 3000 W 4 Syrup outlets	EM140-000024ST
Stand with adjustable shelf	EM340-322000ST
34 gal (41 USG) 34" x 24" 2 x 3000 W 4 Syrup outlets	EM140-000034ST
Stand with adjustable shelf	EM340-342400ST
50 gal (60 USG) 38" x 28" 2 x 3000 W 4 Syrup outlets	EM140-000050ST
Stand with adjustable shelf	EM340-382800ST

# 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	CODE
Complete kit	PE090-161600ST
Stainless bottling pan stand with adjustable shelf	FF016-161600ST
Gas burner with hose and regulator	ECRG016W
Mini steam pan (optional)	PP025-171701ST





Cover not included



YRUP PANS (COVER AND OUTLET CODE NOT INCLUDED)
' x 16" x 14" )"=9.2 gal/11 USG) PP009-161605ST
' x 16" /4" outlet, nipple, ball valve, bow, 1/2" dial fitting and ug included)
10" = pan water level

SYRUP PAN OPTIONS	CODE
Pan cover 16" x 16"	PP027-161600ST
Syrup outlet 3/4" with valve and elbow (installed)	CS001-060006ST
Filter rack for 16" x 16" pan	PP027-161602S2

# TRANSFORMATION | PACKAGING





### MAPLE CREAM MAKER

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

	D - MAPLE CREAM MAKER 1/2 HP	CODE
ØGR	The 1/2 HP 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 2 HP	CODE
The 2 HP 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	CODE
A motor driven auger mixes the maple sugar with perfect consistency and feeds the candy mold (120 volts).	PP024-000001ST

Genugel 200 g	EM399-000200GR
CAN SEALER	CODE
A - IVESWAY auto-manual can sealer	ECMAY700
B - MASTER auto-manual can sealer	ECMAM200
C - Automatic Lapierre can sealer (120 volts)	EM100-000001XX





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.

	CODE	
1 USG	24/BOX	EXCR4000
1/2 USG	32/BOX	EXCR2000
Quart	90/BOX	EXCR1000
Pint	100/BOX	EXCR0510
1/2 pint	100/BOX	EXCR0260
3.4 oz	100/BOX	EXCR0100

MAPLE CREAM CONTAINERS (USA)				
15		) ml	250	
12		) ml	500	!

# **TRANSFORMATION** | PACKAGING

		F	G		
	E	Black plastic closure	Gold tamper-evi plastic closur		Gold plastic closure
		CLOSURES			CODE
В	D	Gold tamper-evident plastic closure 18 mm		EM046-	000018GDS
BOTTLES (CLOSURES NOT INCLUDED)	CODE	Gold tamper-evident plastic closure 24 mm	١	EM046-	000024GDS
A - Barrel, 200 ml (closure 28 mm)	EM045-080200XX	Gold tamper-evident plastic closure 28 mm	١	EM046-	000028GDS
B - Silhouette 50 ml (closure 18 mm)	EM045-092450XX	Black tamper-evident plastic closure 28 mm		EM049-	000028NRS
B - Silhouette 100 ml (closure 24 mm)	EM045-090100XX	Gold plastic closure 2	8-400 mm	EM047-0	028400GDS
C - Erable 250 ml	EM045-020250XX	Gold plastic closure 3	3-400 mm	EM087-0	033400GDS
(closure 28 mm) D - Horizon 250 ml		Universal black substitution closure		EM021-0	000315NRS
(closure 28 mm)	EM045-040250XX	White substitution closure "Mignon"		EM021-0	040001BXS
E - Maple 375 ml (closure 28-400 mm)	EM045-030375XX	closure mighon			
F - Tarquina erable 100 ml (closure 28-400 mm)	EM045-010100XX				
F - Tarquina erable 250 ml (closure 28-400 mm)	EM045-010250XX				
G - Chiara 1 L	EM045-061000XX	NUCAN BOTTLE (DOZEN)	COD	E	
(closure 33-400 mm)		NuCan bottle, barrel style 125 ml	EM012-125	035XX	
Bottles sold by the case only.		NuCan bottle, barrel style, 250 ml	EM012-250	024XX	
Volume discount available. Closures sold by the bag only.		NuCan bottle,	EM090-01	1500XY	

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

Black NuCan closure EM091-00000NR Gold NuCan closure EM091-00000GD

EM090-010500XX

EM090-020500XX

barrel style

500 ml amber NuCan bottle, barrel style

500 ml light

# TRANSFORMATION | PACKAGING



BOTTLES (CLOSURES NOT INCLUDED)	CODE
A - Basquaise, 40 ml (closure "Mignon")	EM030-040024XX
A - Basquaise, 250 ml (closure 28 mm)	EXBV0250B
B - Sugarhouse, 250 ml (closure 28 mm)	EXBVCAB1
C - Maple leaf, 50 ml (closure 18 mm)	EM035-050048XX
C - Maple leaf, 100 ml (closure 24 mm)	EM035-100012XX
C - Maple leaf, 250 ml (closure 24 mm)	EM035-250012XX

BOTTLES (CLOSURES NOT INCLUDED)	CODE
D - Maple Flask, 250 ml (closure 28 mm)	EM040-020250XX
E - Snow flake, 250 ml (closure 28 mm)	EM040-010250XX
F - Kent, 250 ml (closure 28 mm)	EM048-010250XX
F - Kent, 375 ml (closure 28 mm)	EM048-010375XX
G - New Spirit, 1 L (universal closure)	EM043-100006XX
H - Medaillon, 50 ml (closure 18 mm)	EM042-050048XX
H - Medaillon, 250 ml (closure 24 mm)	EM042-250012XX

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



Bottle pictures are for reference only. See closures on page 121. Bottles sold by the case only. Volume discount available.







Blue plastic jug

Stainless steel pail

Drum transfer tool (alone)



Metal drum heater belt



STAINLESS STEEL DRUM FILLER TANK	CODE
51 gal (62 USG) 2' x 3' x 20" outlet 1" MPT	EM157-020320S3
Aluminum base	EM357-263840A1
Stainless steel lid	EM357-010203S3

ACCESSORIES	CODE
Stainless steel pail 4 liters	DV093-000004S3
Stainless steel pail 9 liters	DV093-000009S3
Stainless steel pail 16 liters	DV093-000016S3
Drum transfer tool (only) 3/4"	BR010-000012XX
Drum transfer tool 3/4" kit	BR010-000012KT
Blue plastic jug 5 gal	EXBPL005

# **DISCOUNT WITH THE** PURCHASE OF 50 STAINLESS **STEEL DRUMS OR MORE**

Drum (1 hem)





Drum truck

STAINLESS STEEL INOVAWELD DRUMS	CODE
22 imp. gal. (26 USG) drum 301-2B with 2 hems (29,75" high x 17,50" dia. ins.)	BR001-002922S9
34 imp. gal. (40 USG) drum 301-2B with 2 hems (29,75" high x 20,75" dia. ins.)	BR001-002934S9
34 imp. gal. (40 USG) drum 301-2B with 1 hem (29,75" high x 20,75" dia. ins.)	BR001-002934S9BX
34 imp. gal. (40 USG) drum 304-2B with 2 hems (29,75" high x 20,75" dia. ins.)	BR001-00293454
45 imp. gal. (54 USG) drum 301-2B with 2 hems (35,00" high x 22,60" dia. ins.)	BR001-003545S9
3/4" standard cap	BR408-010012J1
2" standard cap	BR408-010032J1
2" gasket	BR431-000032XX
Drum truck	BR005-000000XX
Drum tagging (maximum 14 characters)	BR004-000014XX

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

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

HEAVY DUTY METAL DRUM HEATER BELT	CODE
34 and 40 gal. drum	BR301-003440XX
45 and 55 gal. drum	BR301-004555XX

# TRANSFORMATION | ACCESSORIES AND MISCELLANEOUS



PLASTICA ACCESSORIES	CODE
Adaptor for drum	BR400-000000J1
2" standard cap large thread	BR405-000032J1
2" standard cap, large thread for 3/4" valve	BR407-120032J1
Key for drum	BR420-000000XX
Sample extraction tool	BR428-000000XX

PLASTICA MAPLE SYRUP DRUM	CODE
6 gal (7 USG) plastic drum, 1 cap	BR001-000006J1
16 gal (19 USG) plastic drum, 1 cap	BR001-000016J1
35 gal (42 USG) plastic drum, Evolution model, 1 cap*	BR001-000035J2
35 gal (42 USG) plastic drum, Evolution model, 2 caps*	BR001-000235J2

\*Sampling cap and extension tube included.

BOOKS	CODE
États de santé des érablières (french only) Carine Annecou, Rock Ouimet et Jean-David Moore	ECGUIDESE
Registre de production du sirop d'érable (french only) Center Acer	DV900-000001FX
Sanitisation of collection systems using isopropyl alcohol - Center Acer	DV900-000002AX
The Sugarmaker's companion Michael Farrell	PA990-000003XX
Érable: 100 recettes sucrées et salées (french only)	PA991-000001XX
OMSPA Sweet Ontario Recipe Books - Our favorite maple recipes	PA990-000004EN







cleaner

Powder pan cleaner	Pan and tubing cleaners

Sani-Marc's 70% isopropyl alchool (IPA) is ready to use, it is approved by the CFIA (Canadian Food Inspection Agency) to be used for the sanitization of sap tubing systems. Follow the recommended method published by Center Acer. Make sure the product is accepted by the CFIA.

## FOOD GRADE ISOPROPYL ALCOHOL 70% (CANADA only)

Available in 4 L (1 gal), 20 L (5 gal) and 205 L (45 gal) (available for Canadian customers only).

For more information, please refer to your Lapierre representative.

STAINLESS STEEL CLEANER	CODE
400 ml	DV494-000400XX
CHLORINE	CODE
20 L	DV421-000020XX
PAN AND TUBING CLEANERS	CODE
Super Clean 85 % 1 gal	DV430-000004XX
Super Clean 85 % 5 gal	DV430-000020XX
Pan-O-Net 1 gal	DV431-000004XX
Top Net 1 gal	DV432-000004XX
Top Net 5 gal	DV432-000020XX
Myster pan, 85%, 4L	DV630-850004XX
Myster pan, 85%, 20L	DV630-850020XX
Acid pan 1 gal	FC3051GAL
Acid pan 5 gal	FC3055GAL
POWDER PAN CLEANER	CODE
Stainless steel pan cleaner 10 lb (LWS)	DV493-000010XX
Sulphamic acid powder	DV419-000025XX

	CODE
CLEANING ACCESSORIES	CODE
20" hand brush for evaporator	DV072-000020XX
A - 5/16" spout brush	DV073-000005XX
A - 7/16" spout brush	DV073-000007XX
B - Flue brush	DV074-000732XX
C - White nylon flue brush 7" x 2"	DV075-000732XX
C - White nylon flue brush 7" x $1/2$ "	DV075-000708XX
Brush for flue pan, interior 9" x 1/2" white nylon	DV075-000908XX
Brush for flue pan, exterior 9" x 2" white nylon	DV075-000932XX
D - Brush - tube pan 7″ (Turbo 2) or flue pan	DV076-000001XX
D - Brush - tube pan 9" (Turbo 3)	DV076-000002XX
Brush for Turbo pipe 9" model	A0103-000002ST
Extension for brush on turbo pipe 9"	A0103-000001ST
Complete assembly of the brush for 9" Turbo pipe	A0003-000001ST
E - 1" mainline brush	DV080-000016XX
E - 1-1/4" mainline brush	DV080-000020XX
E - 1-1/2" mainline brush	DV080-000024XX
E - 2" mainline brush	DV080-000032XX
F - Base only for 9" blue removable coton cloth	DV085-000009XX
F - 9" blue removable scrubbing pad	DV088-000009XX

pan cleaner 50 lb



# **USA'S DEALERS**

#### INDIANA

# Harris Sugar Bush

Arthur and Rebecca Harris 999 East County Road 325 North Greencastle, IN 46135 Phone: 765 653-5108 Cell.: 765 301-0016 aharris@joink.com www.harrissugarbush.com

#### MAINE

#### Suga Country Products

Joe and Adele Suga 871 Cross Hill Road Vassalboro, ME 04989 Phone: 207 923-3355 207 592-7351 sugacountryproducts@gmail.com www.sugacountryproducts.com

#### Bacon Farm Maple Products

Shelley & Kevin Bacon 1427 Pond Rd. Sidney, Me 04330 Sugarhouse: 207 547-5053 Cell.: 207 314-8289I Shelly@baconfarmmaple.com www.baconfarmmaple.com

#### MASSACHUSETTS

#### Hickory Hill Farm

Paul Sena 159 Buffington Hill Road P.O. Box 272 Worthington, MA 01098 Phone: 413 238-5514 hickoryhillmaple@gmail.com www.worthingtonballooning.com

#### **MICHIGAN**

#### Great Lakes Maple Supply Dale Forester

5785 Gamble Road Atlanta, MI 49709 Phone: 269 625-6738

Phone: 269 503-0259 info@greatlakesmaplesupply.com www.greatlakesmaplesupply.com

#### Mazurek Maple Supplies

Loren, Lisa and Lynn Mazurek 5056 N. Clark Rd. Woodland, MI 48897 Tel.: 616 755-3626 (store) mazurekmaple@gmail.com

#### NEW HAMPSHIRE

#### Bascom's Maple Farms Inc. Bruce Bascom

56 Sugar House Road Alstead, NH 03602 Phone: 603 835-6361 Fax: 603 835-2455 sales@bascommaple.com www.bascommaple.com

#### **Dustin's Sugarhouse**

Alan and Kathleen Dustin 49 Murphy Hill Road Alstead, NH 03602 Phone: 603 835-6070 Cell.: 603 313-3878 dustinssugarhouse@gmail.com

#### Fuller's Sugarhouse

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

#### Sugar Mountain Maple LLC

125 Mad River Road Thornton, NH 03285 Smith Merrill & Glen Smith Tel.: 603-259-1952 Smith Merrill smith@sugarmountainmaple.net Glen Smith glen@sugarmountainmaple.net

#### NEW YORK

# Effley Falls Sugar Shanty

Kenneth Zehr 9601 Frank Kirch Road Croghan, NY 13327 Phone: 315 771-2368 bkzehr@hughes.net

#### Shaw's Maple

Curt and Carol Shaw 7945 Maxwell Road Clinton, NY 13323 Phone: 315 853-7798 info@shawsmapleproducts.com

#### **Big Tree Maple**

Lloyd Munsee 2040 Holly Lane Lakewood, NY 14750 Phone: 716 763-5917 Cell.: 716 487-7633 Fax: 716 763 3257 Imunsee@bigtreemaple.com www.bigtreemaple.com

#### Rand Hill Maple

David Smart 2395 Rand Hill Road Altona, NY 12910 Phone: 518 493-7441 Cell.: 518 420-3733 randhillsmart@gmail.com

#### Catskill Mountain Sugar House

John Garigliano 8 Sugar House Lane Grahamsville, NY 12740 Phone: 845 985-7815 info@catskillmountainsugarhouse.com www.catskillmountainsugarhouse.com

#### Pine Creek Farm & Feed

Ken Lango 1825 Storm Road Lyons, NY 14489 Phone: 315 946-6061 Cell.: 845 243-1197 klango125@gmail.com www.originalfeeds.com

#### Widrick Maple

Phillip and Alayne Widrick 21243 Staplin Road Black River, NY 13612 Phone: 315 775-4964 widrickmaple@yahoo.com

#### Heartwood Forest Products

Matt Lagoe 8072 State Highway 12 Sherburne, NY 13460 Phone: 607 674-9663 heartwoodforestproducts@frontiernet.net

#### Devin Randall

102 Airport Access Road Swanton, VT 05488 Phone: 802 868-2328 Cell.: 518 260-6746 devin.randall@elapierre.com



# **USA'S DEALERS**

#### оню

#### **Gingerich Family Sugarbush**

Erwin Gingerich III 14875 Georgia Road Middlefield, OH 44062 Day: 440 478-6201 Eve: 440 834-8816

#### Stumpwater Farm LLC.

Al & Jared Baxter 29499, Clark Road Sullivan, OH 44880 Phone: 419 736-3576 Cell.: 419 606-2213 stumpwater@outlook.com

#### PENNSYLVANIA

#### **Brookfield Maple Products**

Bud Bowers 111 Plank Road Westfield, PA 16950 Phone: 814 367-5284 Cell.: 570 439-0969 bbowerslsg@gmail.com

#### Frost Ridge Maple Farm

Pat and Michele Mihailov 14611 Dickson Street Guys Mills, PA 16327 Phone: 814 337-2483 Cell.: 814 720-9656 frostridge@zoominternet.net www.frostridgemaplefarm.com

#### Loch's Maple

Randy and Jamie Loch 143 Cokely Road Springville, PA 18844 Phone: 570 965-2679 maple4u@epix.net www.lochsmaple.com

### VERMONT

# Goodrich's Maple Farm

2427 US Route 2 Cabot, VT 05647 Phone: 800 639-1854 Fax: 802 426-3388 www.goodrichmaplefarm.com

#### Emerson Sugarhouse

Mike Emerson 2040 Snake Road Newbury, VT 05051 Phone: 802 429-2100 802 356-4914 emersonsugarhouse@fairpoint.net

#### Maple Brothers

Kevin Heiden 138 Quarry Road Perkinsville, VT 05151 Phone: 802 263-9487 802 384-8312 kheiden@tds.net

#### Corse Maple Farm

Roy Corse 773 Corse Road Whitingham, VT 05361 Phone: 802 368-2420 corsemaplefarm@myfairpoint.net www.corsemaplefarm.com

#### Monroe's Sugarin'

Steven Monroe 860 Roaring Brook Road Barton, VT 05822 Phone: 802 525-4004 Cell.: 802 673-9711 steve.monroessugarin@gmail.com

#### Whites Maple Equipment

Charlie & Ryan White 695 Danby Pawlet Road Danby, VT 05739 802 293-5409 802 293-5609 whitesmapleequipment@gmail.com

#### Mount Pleasant Sugarworks

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# **Brassard Sugarworks**

and Maple Supply LLC Dan Brassard 849 VT RT 14 N East Randolph, VT 05041 Phone: 802 839-9939 brassardsugarworks@gmail.com

#### Ronnie Sheltra

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#### WISCONSIN

#### Maple Hollow

Joe Polak W1887 Robinson Drive Merrill, WI 54452 Phone: 715 536-7251 info.maplehollow@frontier.com www.maplehollowsyrup.com

# Sippl's Sugarbush

Andy Sippl N12020 Tamrack Road Birnamwood, WI 54414 Phone: 715 449-3426 Cell.: 715 216-4627 sipplssugarbush@hotmail.com www.sipplssugarbush.com

#### Midwest Maple Supply

Whitney Rinehart N2611 Rinehart Drive Athens, WI 54411 Phone: 715 560-2222 midwestmaple@gmail.com

Agent is based in our stores



## QUÉBEC CHAUDIÈRE / APPALACHES

## Camil Gosselin

138, route 204 Ste-Justine, QC GOR 1Y0 Tel.: 418 383-3167 Cell.: 418 625-0046 ca.gosselin@sogetel.net

### Centre de Rénovation du Cap

A/S André Nichol 64, rue du Manoir Ouest Cap-St-Ignace, QC GOR 1H0 Tel.: 418 246-3456 Cell.: 418 241-3257 andrenichol12@gmail.com

# François Gagnon

25, rue de l'Érablière Ste-Claire, QC GOR 2V0 Cell.: 418 883-5601 francois.gagnon@elapierre.com

#### Marcel Morissette (Point de vente)

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# Les Entreprises KéPasc

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#### **R.D. Langlois**

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### Mathieu Lachance

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# Quincaillerie Champagne

(Point de vente) Marika Demers 417, 9° rang St-Honoré, QC GOM 1V0 Tel.: 418 485-6459 marika@quincailleriechampagne.ca

### Sébastien Berthiaume

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## **ST-ULBADE ET ENVIRONS**

#### Quincallierie BMR Pierre Naud Inc.

Félix Lemay 464, rue St-Paul St-Ubalde, QC GOA 4LO Tel.: 418 277-2225 Cell.: 418 336-2413 f.lemay@pierrenaud.com

# **RIVE-NORD**

# Installation Picaouette Inc.

Régis Caouette 8121, route Arthur-Sauvé Mirabel, QC J7N 2R6 Tel.: 450 258-3888 Teléc.: 450 258-1185 Cell.: 514 703-1688 (Régis) Cell.: 514 208-0255 (Catherine) picaouetteinc@hotmail.com

#### **Georges Paradis**

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#### ESTRIE / CENTRE-DU-QUÉBEC

# Équip. d'Érablière Verville Inc.

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## Équip. d'Érablière Gaétan Charland

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#### Prodane

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## **OUEST DU QUÉBEC**

#### **Francois Benny**

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#### BAS-SAINT-LAURENT / CÔTE SUD

#### Forêtmax

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#### Forêtmax

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#### Lapierre Saint-Cyprien 101, rue Ouellet Saint-Cyprien de Rivière-du-Loup QC GOL 2PO Tel: 418 963-2361 Fax: 418 963-6559 mcyprien@elapierre.com

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#### **NEW BRUNSWICK**

#### Rocky Mountain Maple

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#### Lapierre St-Quentin

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#### **NOVA SCOTIA**

#### **Kevin McCormick Sales and Service**

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#### **ONTARIO**

## Springdale Farm Maple Equipment and Supplies

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#### Weber Sugarbush Supplies Inc. Waterloo Wellington and Southwestern Ontario

Harvey Weber 2844 Lobsinger Line Heidelberg, ON NOB 2MO Tel.: 519 699-4769

# Squirrel Creek Farm Ltd Central Ontario

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# Reist Farm Supplies Inc. Waterloo Wellington and Southwestern Ontario

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#### **Garland Sugar Shack**

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## Sweetwater Maple Syrup Supplies and Sugarbush Simcoe, Muskoka & Algonquin

1447 Peterson Road Bracebridge, ON P1L 1X1 Tel.: 705 646-1081 Cell.: 705 205-1050 sales@sweetwatermaple.ca www.sweetwatermaple.ca

### Maple Ridge Farm Manitoulin and North Shore / St. Joseph Island

Brian Bainborough 11 Mountbatten Road Barrie, ON L4M 1T4 Tel.: 705 726-8973 (Barrie) Tel.: 705 282-8758 (Manitoulin Island) Cell.: 705 229-9345 brian.bainborough@sympatico.ca

Agent is based in our stores

NOTES



# LES ÉQUIPEMENTS LAPIERRE INC.

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MANUFACTURING/SERVICE

#### LAPIERRE-WATERLOO-SMALL

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#### MANUFACTURING/SERVICE

DISTRIBUTION CENTER

# LAPIERRE USA SWANTON

102 Airport Access Road Swanton, VT 05488 Phone: 802 868-2328 Fax: 802 868-9281 info.usa@elapierre.com



#### LAPIERRE SAINT-CYPRIEN

101, rue Ouellet Saint-Cyprien de Rivière-du-Loup, QC GOL 2PO Phone: 418 963-2361 Fax: 418 963-6559 mcyprien@elapierre.com

DISTRIBUTION CENTER

#### LAPIERRE ST-QUENTIN

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DISTRIBUTION CENTER

## LAPIERRE SAINT-JACQUES-DE-LEEDS

105, rue Industrielle Saint-Jacques-de-Leeds GON 1JO Phone: 418 424-3030 Fax: 418 424-3000 mstjacques@elapierre.com

DISTRIBUTION CENTER

Your sales representative





99, rue de l'Escale, Saint-Ludger, Beauce, QC GOM 1W0 CANADA TF.: 833 548-5454 | Fax.: 819 548-5460 | info@elapierre.com | www.elapierre.com