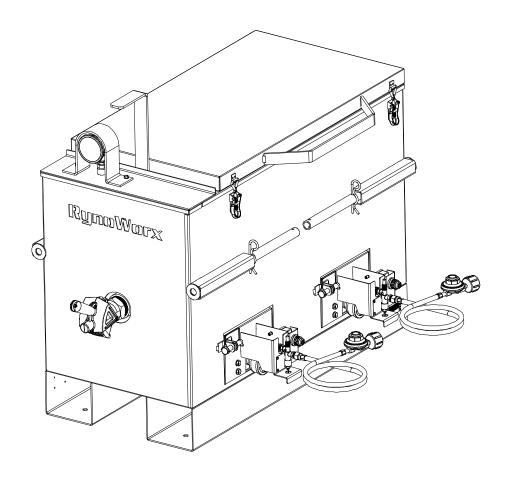


Operator's Manual



Model: RY30MK-PRO-V2

MPN: RA-MLT-0008

30 Gallon Direct Fire Melter Kettle

Dual Burner Model with Independently Controlled Flame-Out Valves

U.S. Patent No. 9,739,021



MED HELP? WE ARE HERE FOR YOU!

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- Email support@rynoworx.com
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△ A flame out valve bypass (RC-CAP-0008) has been provided with this product (shown below).

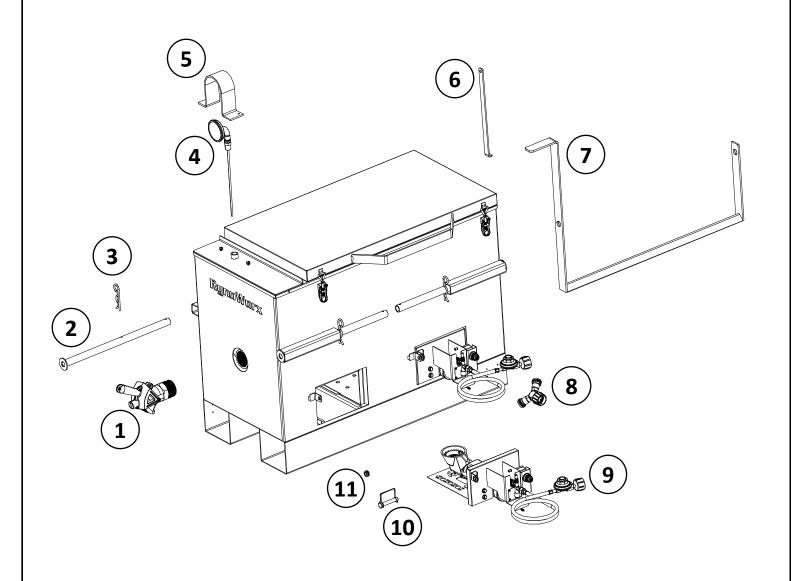
⚠ This cap can be used to temporarily bypass the flameout valve and keep the burner running in the event of a thermocouple failure. It is designed for emergency use only and should be removed immediately upon work completion.

Δ***USE OF THIS BYPASS IS AT YOUR OWN RISK***

△*DO NOT LEAVE THE EQUIPMENT UNATTENDED WHILE BYPASS INSTALLED*****

- ⚠ Read all instructions and warnings in this manual before attempting to operate this equipment.
- \triangle This equipment is designed for outdoor use only.
- \triangle Be sure to always wear personal protective equipment when operating this equipment.
- ⚠ Improper assembly may be dangerous. Please follow the assembly instructions in this manual. Make sure all parts are assembled and hardware is fully tightened before using. Make sure that there are no leaks in the liquid propane cylinder connection or lines.
- ⚠ Do not operate the equipment if a gas leak is present. (check for leaks and connections with every use)
- ⚠ Do not attempt to disconnect the gas regulator from the tank or any gas fitting while the equipment is in use.
- A dented or rusty liquid propane tank may be hazardous and should be checked by your liquid propane supplier. Do not use a liquid propane tank with a damaged valve.
- ⚠ Ensure that your propane cylinder is within its expiry date for your local jurisdiction. If the tank has expired it must be properly requalified to continue using.
- ⚠ Ensure that your propane cylinder is within its expiry date for your local jurisdiction. The manufacturing date is stamped on the collar of the tank. If the tank has expired it must be properly requalified.
- ⚠ Do not store spare liquid propane cylinders within 10 feet (3m) of this equipment.
- ⚠ Do not store or use gasoline or other flammable liquids or vapors within 25 feet (8m) of this equipment.
- ⚠ Before servicing, make sure the unit is fully cooled and the liquid propane cylinder is disconnected.
- ⚠ Only genuine RynoWorx replacement parts should be used for any replacements or repairs. Do not attempt to modify or alter this product in any way.
- ⚠ Do not attempt to make any repairs to gas carrying, gas burning, igniter components or structural components. Your actions, if you fail to follow this warning, may cause a fire, an explosion, or structural failure resulting in serious personal injury or death as well as damage to property.
- ⚠ This equipment should only be used with "Direct Fire" hot melt crack sealant.
- \triangle Failure to follow these instructions could result in fire or explosion which could cause property damage, personal injury or death.

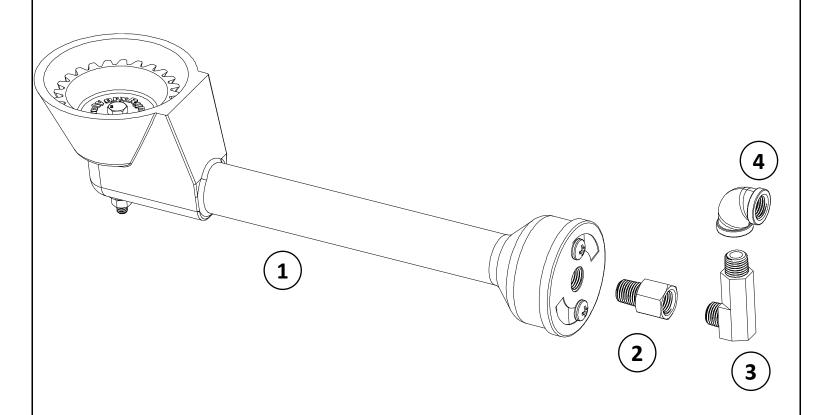
No	P/N	Qty	Description
1	RA-VLV-0003	1	2" NPT Molasses Valve Assembly
2	RC-FAB-0103	4	30MK Removable Body Handle
3	RC-PIN-0011	4	Hairpin Cotter Pin - 30MK Kettle Body Handles
4	RC-GCM-0067	1	Thermometer - 16.5" Probe - Shock Proof Liquid Filled
5	RC-FAB-0010	1	Thermometer Guard Bracket
6	RC-FAB-0101	1	Melter Lid Support Slider
7	RC-FAB-0086	1	Agitation Sweep Bar - RY30MK-PRO-V1
8	RC-GCM-0049	1	Propane Tank Y Splitter / Adaptor
9 RA-BRN-0010 2 Burner Tray Complete Assembly - 5 psi Kettle Burne 10 RC-PIN-0008 2 3/8" x 1-3/8" Lock Pin with Retainer		Burner Tray Complete Assembly - 5 psi Kettle Burner	
		3/8" x 1-3/8" Lock Pin with Retainer	
11	RC-GSK-0026	2	SBR Rubber Push-In Grommet for 1/2" ID and 3/32"



RynoWorx					
P/N:	Model	Rev:			
RA-MLT-0008	RY30MK-Pro-V2	1			
Description:					

RY30MK-Pro Crack Fill Melter Kettle - Version 2

No	P/N	Qty	Description
1	RA-BRN-0005	1	Cast Iron Burner Assembly - 11.5"
2	RC-FIT-0080	1	Brass Fitting - 1 mm Orifice - 1/4" NPT M-F
3	RC-FIT-0081	1	Brass Fitting - 90°1/4" NPT M-M - 42.75 mm
4	RC-FIT-0083	1	Brass Fitting - 90° 1/4" NPT F-F





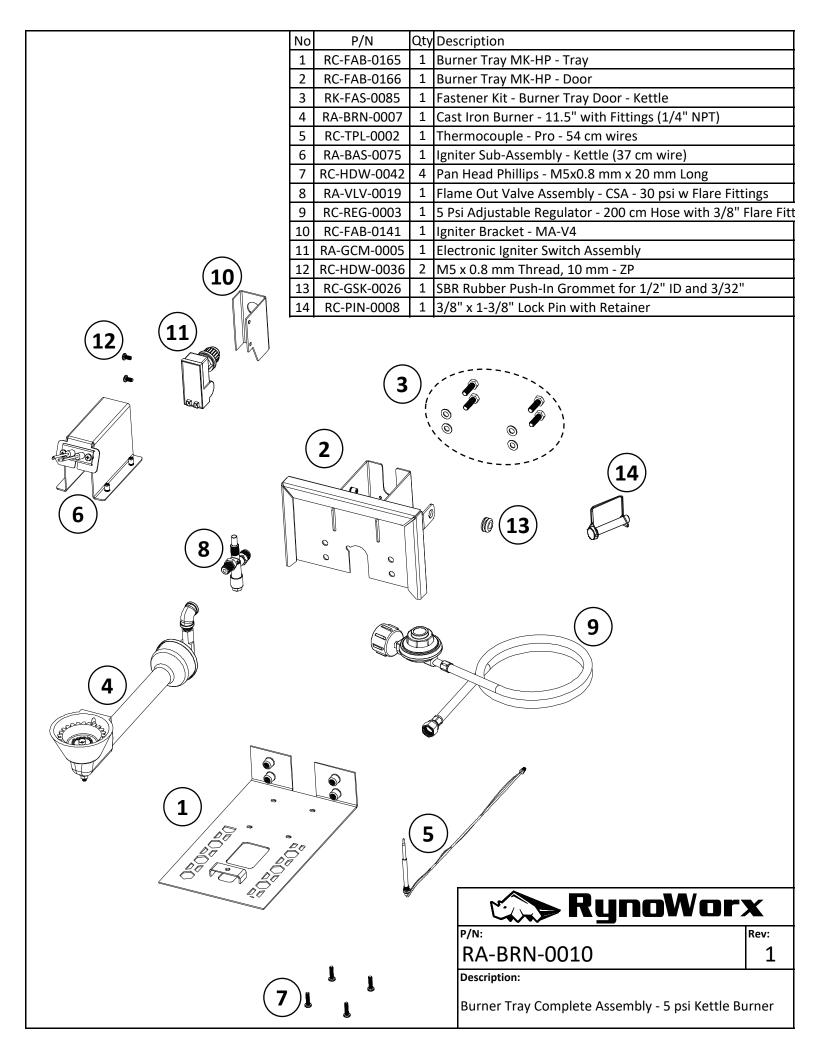
P/N:

RA-BRN-0007

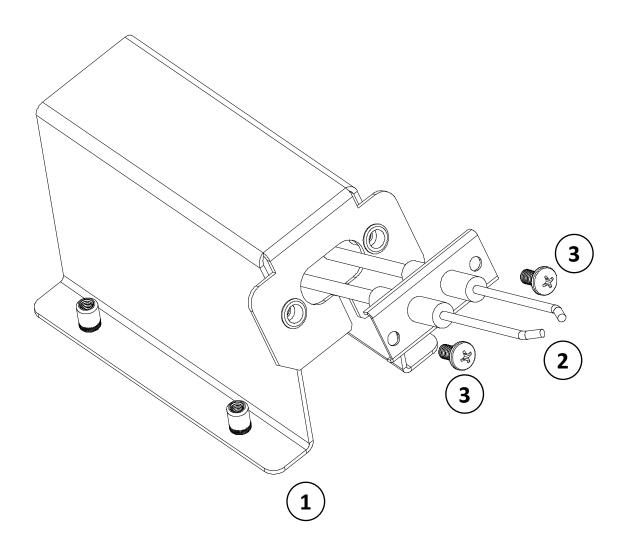
Rev:

Description:

Cast Iron Burner - 11.5" with Fittings (1/4" NPT)



No	P/N	Qty	Description
1	RC-FAB-0167	1	Burner Tray MK-HP - Igniter Mount
2	RC-IGN-0002	1	Igniter Electrode Probe with Wires - Pro (37 cm)
3	RC-HDW-0036	2	M5 x 0.8 mm Thread, 10 mm - 7P



	RynoWor	X

P/N:

RA-BAS-0075

Rev:

Description:

Igniter Sub-Assembly - Kettle (37 cm wire)

Introduction

Forward

Thank you very much for purchasing Ryno Worx crack maintenance equipment. We pride ourselves in being different from other equipment manufacturers with a relentless focus on innovation, simplicity, and quality.

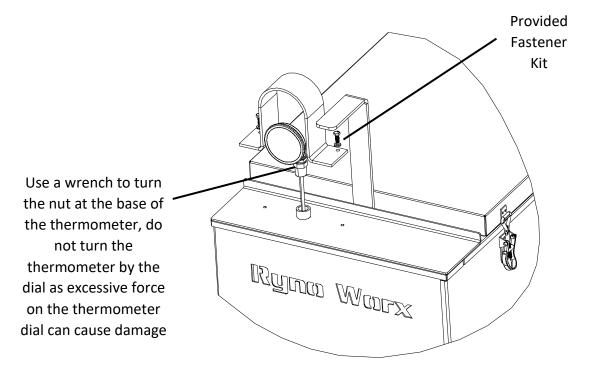
This melter was designed to be used with 'Direct Fire' crack sealants only. Please be sure to purchase the correct material to ensure safe and effective operation.

Within this document are complete instructions for how to assemble, use, and care for your equipment. Please make sure you read and follow all instructions provided.

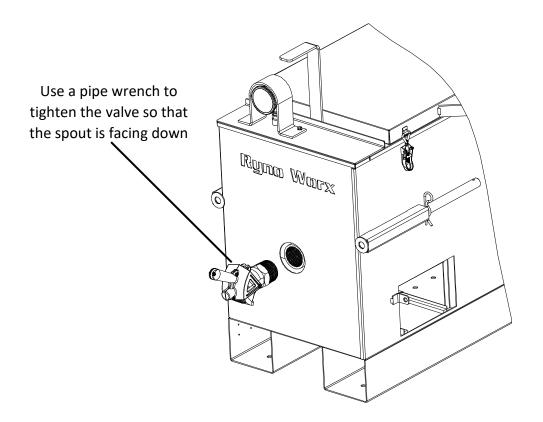
Within this document you will find the following resources:

- **Assembly Instructions** These instructions will assist you in assembling and preparing your melter for first time use.
- Operation Guide This guide will explain the functions and controls of the melter and how to use them.
- **Maintenance Guide** This guide will provide you with suggested maintenance tips and techniques to ensure proper function and optimal performance.
- **Troubleshooting Guide** This guide will provide you with the most commonly reported problems, possible causes, and known solutions.

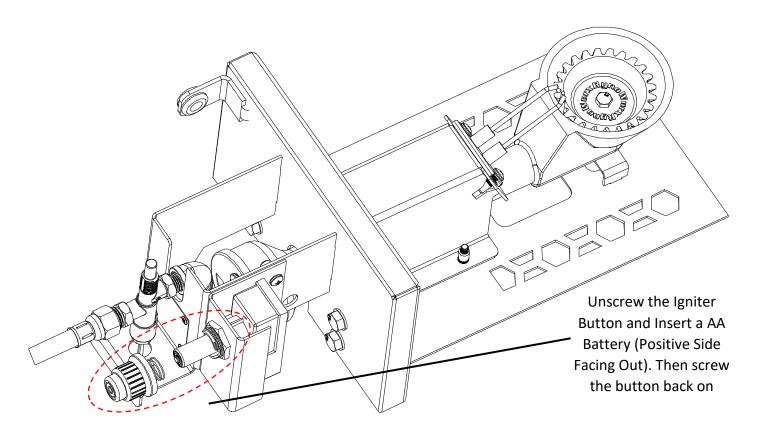
1) Install Thermometer and Thermometer Guard

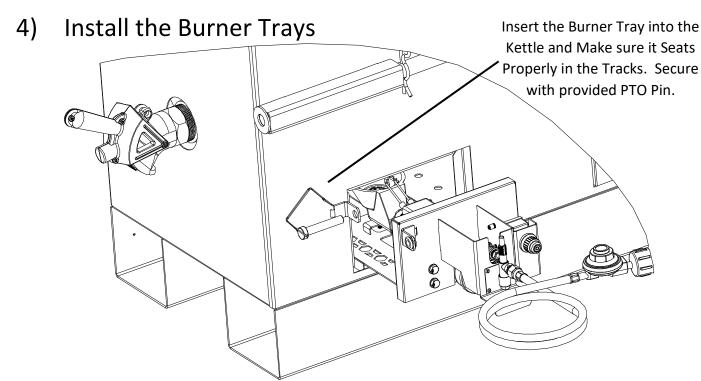


2) Thread the Molasses Valve into the Collar



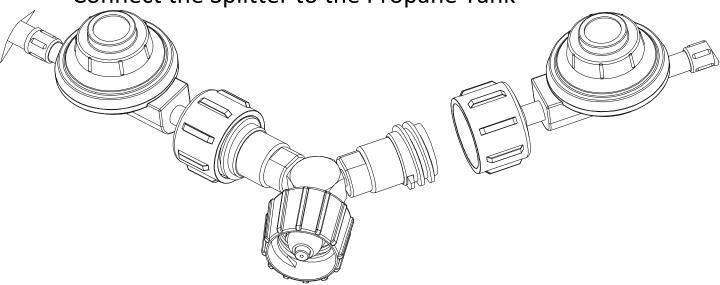
3) Install the AA Battery into the Igniter





⚠ Make sure the burner trays are secured with the PTO pin at all times, especially during transportation and operation.

5) Connect the Regulators to the Propane Splitter and then Connect the Splitter to the Propane Tank



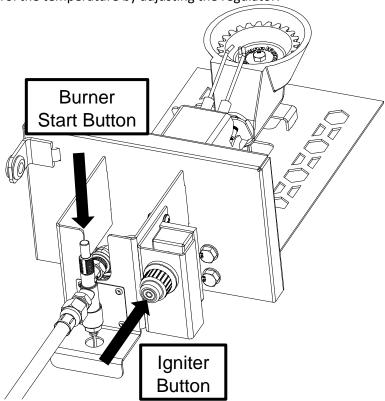
 \triangle Make sure to secure the propane hoses so that they are clear of the hot kettle walls during operation.

Before beginning, please check the following:

- 1. You have read and understand all warnings on page 2.
- 2. You are using new and full propane cylinder (use of a used cylinder can lead to reduced performance or equipment failure).
- 3. You have inspected your regulator, hose and burner assembly and verified there are no leaks or physical damage.
- 4. You are outdoors in a well-ventilated area that is free and clear of any flammable matter.
- 5. You have completed the assembly of the equipment correctly.
- 6. You have 'Direct Fire' type crack sealant such as GemSeal, SealMaster, Durafill, Craftco or Maxwell.
- 7. There is absolutely NO water in or around the kettle.
- 8. You are wearing a protective face shield.
- 9. You are wearing heat and fire resistant protective gloves.
- 10. You are wearing heat and fire resistant protective clothing which covers all exposed skin.

Part 1 – How to Load and Light your Melter

- 1. Ensure your regulator is off by rotating regulator nob fully counter-clockwise (rotate left).
- 2. Slowly pressurize the regulator by rotating the valve located on the propane cylinder counter-clockwise all the way (rotate left).
- 3. Inspect and ensure there are no leaks between any of the connections before proceeding.
- 4. Load crack sealant into kettle, while ensuring sealant is resting on the bottom of the kettle.
- 5. Pressurize the propane hose by rotating the regulator knob fully clockwise (rotate right).
- 6. Press and hold the electric igniter button immediately followed by the burner starter button. Continue holding both buttons until the burner ignites.
- 7. Once the burner ignites, release the electric igniter button, however continue to hold the starter button for an additional 15-20 seconds. This will eventually deactivate the flame-out sensor which is responsible for ensuring the burner stays lit.
- 8. Once lit, you can control the temperature by adjusting the regulator.



Operation Guide

Part 2 - Agitating and Monitoring Temperature

- 1. Never leave melter unattended when the burner is lit. If flame goes out, promptly turn off the flow of gas; double check that the melter is free and clear of any gas odors before attempting to re-ignite the burner.
- 2. While your melter is ignited you should continuously be monitoring the material temperature. Check with crack sealant manufacturer for safe melting temperatures and ensure you continually adjust the burner control knob to maintain the recommended temperature range. If the material becomes too hot, you may need to turn off your burner periodically.
- 3. As material begins to melt, it's important to consistently agitate. Agitation moves the solid crack sealant along the bottom and prevents 'hot spots' from forming which can alter the effectiveness of the sealant after applied. Agitation also prevents chunks of over-heated material from forming which will eventually plug or block your flow valve which can slow down material flow.

Part 3 – Dispensing Crack Filler

Once you have effectively liquefied the crack sealant, you may begin to dispense it from the molasses valve into a pour pot or other application device. Having a hot molasses valve helps facilitate the flow of melted crack fill. We recommend having an auxiliary heating torch on hand to heat up the molasses valve before dispensing.

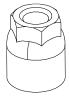
Part 4 - Turning Off and Draining

Once you have finished using the melter, make sure it is fully drained and no crack filler remains inside the kettle or the flow valve. Leaving the flow valve empty after use will prevent the valve from being blocked the next time you use the melter.

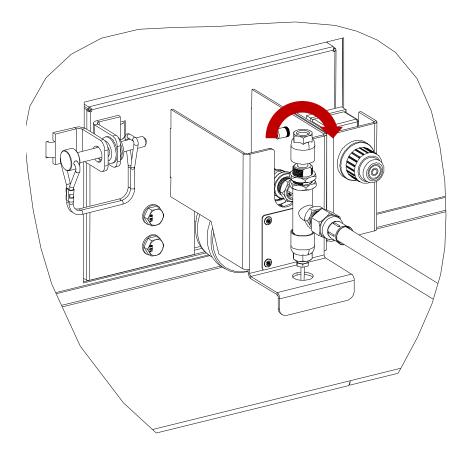
HOW TO – Thermocouple Bypass (Emergency use only) ***USE OF THIS BYPASS IS AT YOUR OWN RISK***

On occasion, you may run into a situation where your flame out valve is preventing you from completing your job. This may be due to a damaged thermocouple, or the flame-out valve itself.

The new flame-out bypass (RC-CAP-0008) is designed to allow you to finish your job, while you wait for replacement parts. The Bypass is designed for temporary, emergency use only, and should be removed immediately upon work completion.



The cap is designed to screw onto the top of the flame-out valve.



Simply thread the cap with your fingers over the button on the flame-out valve until snug.

NEVER LEAVE THE EQUIPMENT UNATTENDED WHILE INSTALLED

• Periodic Maintenance

This melter / applicator requires periodic maintenance before each use and at set intervals in order to ensure it is performing safely and optimally. The list below describes checks and maintenance which are recommended.

- -Check Propane Tank fuel level, refill as needed.
- -Inspect regulator, hose, gas connections, and burner for physical damage or leaks before every use.
- -Periodically inspect thermometer for physical damage or malfunctions.
- -Periodically scrape crystallized material from the inside of the kettle.

• Troubleshooting Guide

Below we have provided a common problems and solutions table. Be sure to consult this table should you experience any technical problems.

Description of Problem	Possible Causes	Known Solutions
The burner will not ignite or	1) The electric igniter may have dead	1) Change the batteries located in the
the burner will not stay lit	or low power batteries	igniter assembly, double check spark.
	2) Burner start button is not being	2) Ensure you hold your burner start
	held long enough for ignition to take	button until the burner ignites,
	place	continue to hold for an additional 15-
	3) The fuel level could be too low	20 seconds
	4) The propane cylinder valve could	3) Check and refill your fuel tank
	be partially or fully closed, which can	4) Ensure your fuel valve is fully
	restrict fuel flow	open, you can do this by turning the
		knob fully counter-clockwise
Crack filler is hot, but will not come	1) Crack filler was left inside the	1) Allow the burner more time to
out of the flow valve	melter from a previous job. This crack	heat up the valve until the crack filler
	filler has solidified inside the	inside begins to melt. Alternatively,
	molasses valve and although the material in the kettle is melted, the	you may heat up the valve using a propane torch assembly.
	material in the molasses valve may	proparie torcii assembly.
	not be.	
	not be.	
Burner will not stay lit	1) The fuel level may be too low	1) Refill your fuel tank
,	2) Loose connection between the	2) Tighten the thermocouple
	thermocouple and flame-out valve	connection to the flame-out valve
Crack filler is melting really slowly	1) Incorrect crack sealant being used	1) Double check that you are using an
	2) Burner is not providing enough	approved crack sealant for use in
	heat to melt the crack sealant	direct-fire melters
	3) The temperature outside is cooler	2) Increase the fuel to your burner
	than normal slowing down the	3) No solutions, melting takes longer
	melting process	on cooler days