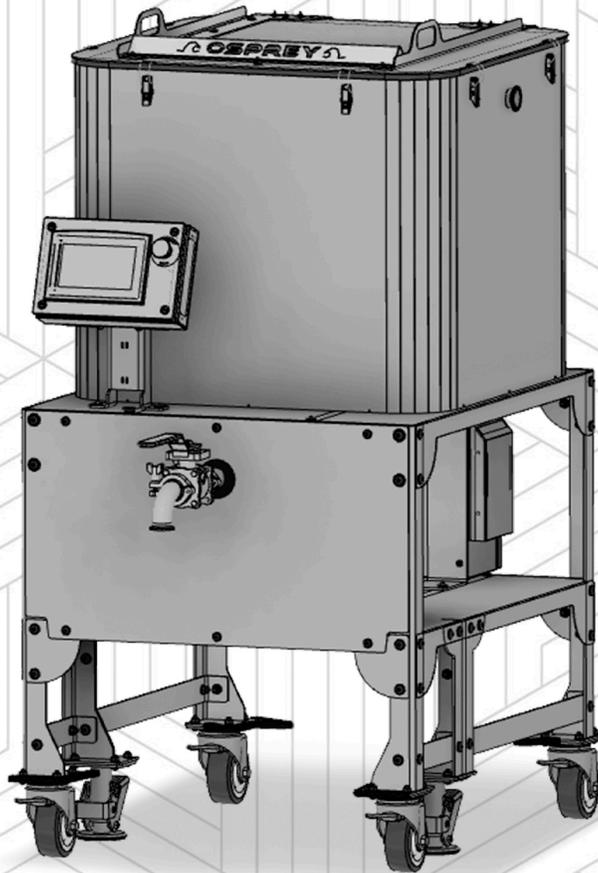


OSPREY

LOW TEMP



SCAN HERE

USER MANUAL

WARNINGS

USER ACCEPTS ANY AND ALL RESPONSIBILITIES USING THIS PIECE OF EQUIPMENT.
IF NOT USED CORRECTLY, SEVERE INJURY COULD OCCUR!

THE MACHINE IS “WASHDOWN” RATED. THE MOTOR HAS AN IP RATING OF 54 WHICH MEANS IT IS PROTECTED FROM DUST AND LIMITED JETS OF WATER. IF A WASHDOWN PROCESS IS PRACTICED, **DO NOT SPRAY THE MOTOR DIRECTLY.**

UNPLUG THE MACHINE WHEN ANY WASHDOWN PROCESS IS IN PRACTICE.

AVOID FOREIGN OBJECTS AROUND THE MOTOR WHILE IN MOTION; **ESPECIALLY HAIR, FINGERS**, OR ANYTHING ELSE AT RISK OF BEING SUCKED INTO THE MOTOR.

DO NOT OPEN ANY CONTROL PANELS WHILE THE UNIT IS ON, PLUGGED IN, OR WITHOUT A LOWTEMP APPROVED MECHANIC’S PERMISSION. DOING SO CAN RESULT IN SERIOUS INJURY OR VOIDED WARRANTY.

WHEN CLEANING OR SERVICING THE VESSEL, IMPELLER, OR ANY OTHER MOVING OR ELECTRICAL COMPONENTS, THE UNIT MUST BE **UNPLUGGED, TURNED OFF, AND E-STOP ENGAGED** IN ORDER TO ENSURE SAFETY!

DO NOT INSERT ITEMS OR BODY PARTS INTO THE VESSEL DURING OPERATION. THE IMPELLER IS A POWERFUL PIECE OF EQUIPMENT THAT CAN GRAB ITEMS, BODY PARTS, AND INJURE THE USER.

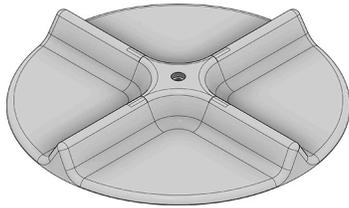
DO NOT PUT FOREIGN OBJECTS OF ANY KIND INTO THE VESSEL WHILE IN OPERATION. **ESPECIALLY WORK BAGS WITH METAL ZIPPERS.** WE RECOMMEND VELCRO OR PLASTIC ZIPPERS. THESE ITEMS CAN DAMAGE YOUR VESSEL, IMPELLER, AND EVEN YOUR MOTOR AND ELECTRICAL COMPONENTS.

LOCK THE CASTERS AND FLOOR LOCKS BEFORE USING THE MACHINE TO PREVENT MOVEMENT.

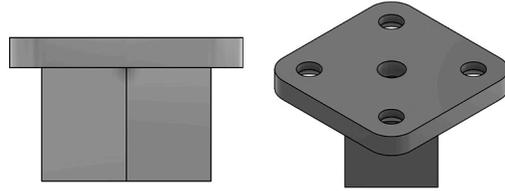
ENSURE THE IMPELLER IS SECURELY LOCKED IN WITH THE APPROPRIATE SET SCREW, AND TORQUE TO APPROX 30FT LBS. **FAILURE TO LOCK INTO PLACE CORRECTLY CAN CAUSE DAMAGE TO THE MACHINE OR POTENTIALLY INJURE THE PERSON.**

EVERY 10,000 OPERATING HOURS ON THE MOTOR, IT IS RECOMMENDED TO CHANGE THE SYNTHETIC OIL INSIDE THE GEARBOX.

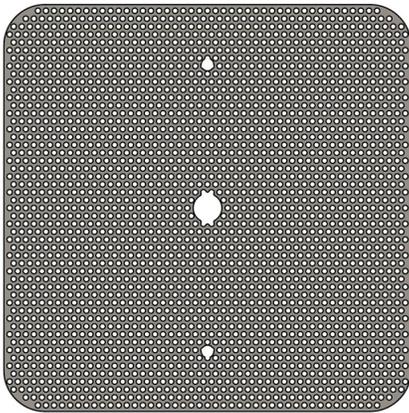
PARTS LIST



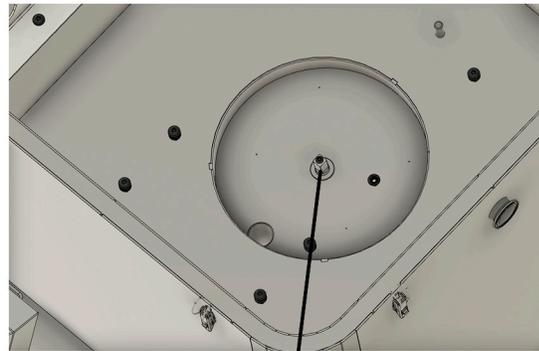
IMPELLER



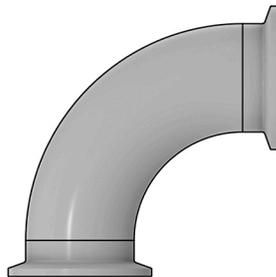
IMPELLER MOUNT



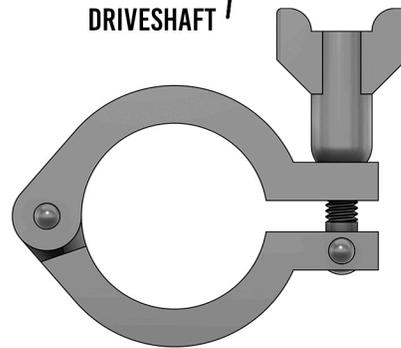
FALSE BOTTOM



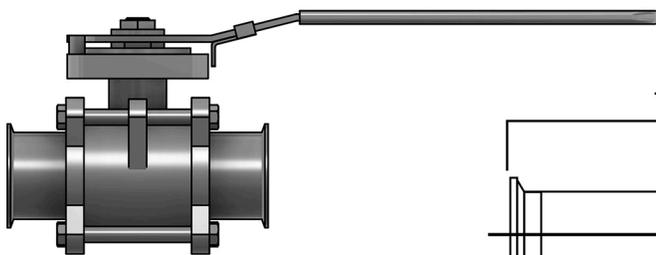
DRIVESHAFT



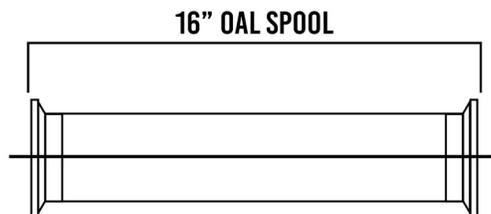
90 DEGREE ELBOW



SANITARY CLAMP



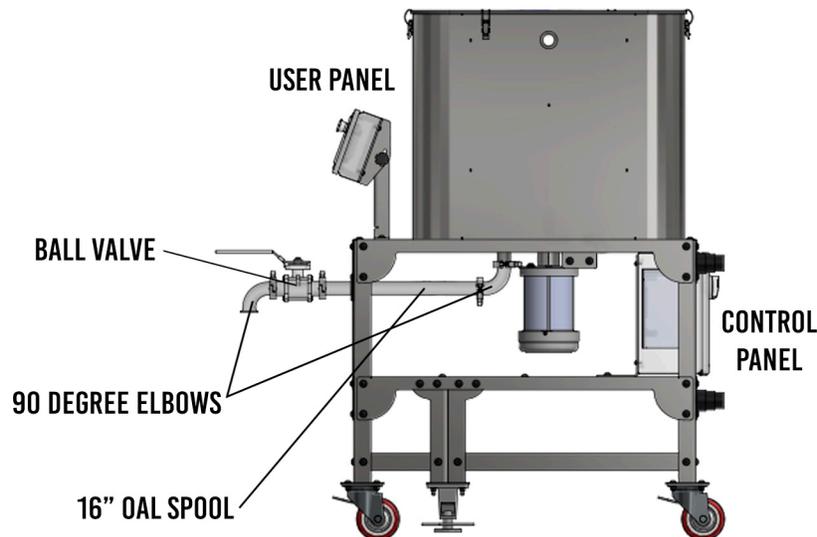
BALL VALVE



16" OAL SPOOL

ASSEMBLY

LUCKILY THERE ISN'T MUCH ASSEMBLY REQUIRED FOR AN OSPREY OUT OF THE BOX.



SANITARY DRAIN AND FITTINGS:

WITH ALL SANITARY FITTINGS, PUT A SILICONE GASKET BETWEEN THE TWO FITTINGS INSIDE THE GROOVE. THEN PUT A CLAMP AROUND THE FLANGES, WHICH WILL CLAMP THE TWO TOGETHER.

OPTIONAL INSTALL THE SIGHTGLASS ON THE END OF THE OAL SPOOL.

THIS IS NOT REQUIRED FOR OPERATION, BUT A PRETTY COOL ADDITION!

NEXT, INSTALL THE BALL VALVE WITH THE HANDLE OPENING TO THE FRONT OF THE MACHINE.

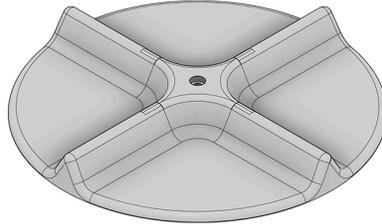
LASTLY, INSTALL THE 90 ELBOW POINTING DOWNWARDS.

WE ALSO INCLUDE 2 CAPS THAT CAN BE USED TO COVER THE SANITARY PORTS ON EITHER SIDE OF THE MACHINE. THESE CAN BE REMOVED TO UTILIZE THOSE PORTS FOR CLEAN WATER IN, OR RECYCLING OF WATER.



IMPELLER

WHY IS THIS LOWTEMP NO-SHEAR IMPELLER SPECIAL?



WE EMPLOYED EXTENSIVE ATTENTION AND CARE TO MACHINE A PERFECTLY BALANCED MONOLITHIC IMPELLER. THIS EXTENDS THE LIFE OF ALL WEAR SEALS, THE GEARBOX, AND MOTOR. IT ALSO ALLOWS US TO CREATE THE EXACT OPTIMAL IMPELLER SHAPE TO CREATE THE PARTICULAR KIND OF VERTICAL RECYCLING VORTEX WE ARE LOOKING FOR. IT'S MACHINED FROM A SOLID BLOCK OF 6061 ALUMINUM RIGHT HERE IN THE USA, THEN HARD ANODIZED TO SEAL AND PROTECT THE ALUMINUM.

HOW TO CARE FOR YOUR LOWTEMP IMPELLER:

TO PUT IT LIGHTLY, THIS SH*T AINT CHEAP!
SO WE WANTED TO GIVE YOU SOME TIPS TO CARE FOR YOUR IMPELLER.

DON'T DROP IT. WE PUT IT IN THIS FANCY CASE FOR A REASON, SERIOUSLY.

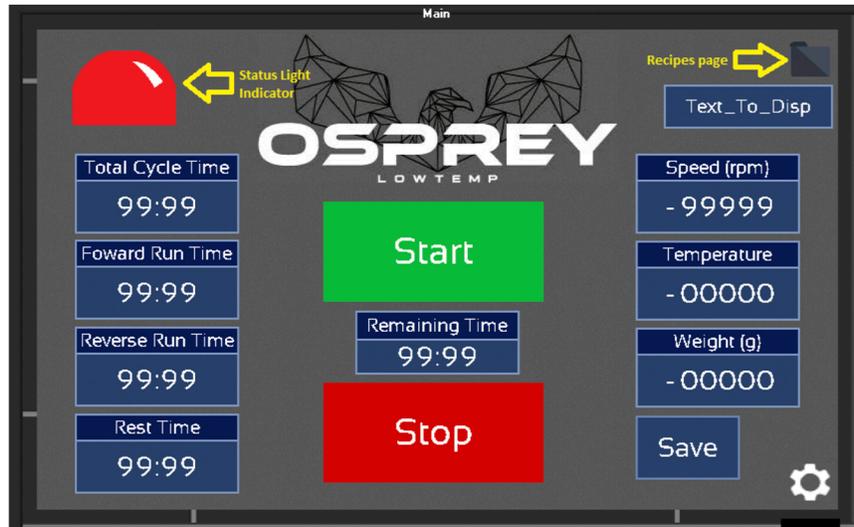
DO NOT USE ANY WORK BAGS WITH METAL ZIPPERS. THE STEEL/ALUMINIUM FROM THE ZIPPER CAN CHIP/SCRATCH THE IMPELLER. PLASTIC ZIPPERS OR VELCRO WORK BAGS ARE REQUIRED FOR WORK BAGS.

DO NOT USE ANY BLEACH PRODUCTS TO CLEAN THE VESSEL OR IMPELLER. **AVOID BELOW 3PH OR ABOVE 11PH.** THIS IS THE SAFE RANGE FOR THE FOOD GRADE COATING TO AVOID DISCOLORATION OR WEAR ON THE COATING.

ALCOJET (DON'T USE ALCONOX, IT'S VERY FOAMING) AT HALF DILUTION IS A GREAT CLEANER THAT WE CARRY! THIS REMOVES ANY STUBBORN RESINS VERY EASILY. AFTER AN ALCOJET RUN, A QUICK ISO WIPE DOWN HELPS DISINFECT AND CLEAN THE VESSEL FREE OF ANY MICROBIAL GROWTH. IF YOU USE ALCOJET, MAKE SURE TO DO A FOLLOWING PLAIN WATER RINSE RUN TO REMOVE ANY POTENTIAL RESIDUE. ENSURE YOU DO NOT LEAVE ALCOJET ON ANY MACHINERY, AS IT'S VERY BASIC, AND CAN CAUSE CORROSION

OPEN OR CRACK THE LID, AND RUN THE VESSEL EMPTY OF ANY WATER FOR ABOUT 5 MINUTES AT 200RPM. THIS WILL AIR THE VESSEL OUT AND DRY THE IMPELLER. OR YOU MAY REMOVE THE IMPELLER FROM THE MACHINE ENTIRELY AND WIPE CLEAN TO STORE IN A SAFE, DRY LOCATION. **DO NOT LEAVE THE VESSEL FULL OF WATER OR ANY OTHER LIQUID!** ALWAYS DRAIN AND WIPE DOWN AFTER USAGE. WE ALSO RECOMMEND LEAVING THE LID CRACKED OR OPEN TO PROMOTE EVAPORATION OF ANY REMAINING MOISTURE INSIDE THE VESSEL.

USER INTERFACE



HOME IMG

STATUS LIGHT INDICATOR:

RED- ESTOP IS ENGAGED AND MOTOR IS HALTED
YELLOW- MACHINE IS RUNNING, PARTS MAY BE IN MOTION, EXERCISE CAUTION
GREEN- SYSTEM IS ACTIVE AND READY TO ENGAGE

CONTROLS:

START: WILL START THE CYCLE'S AGITATION. ONLY DO SO WHEN SAFE.

STOP: HALTS THE IMPELLER FROM SPINNING.

REMAINING TIME: HOW LONG IS LEFT IN THE CURRENT AGITATION CYCLE.

TOTAL CYCLE TIME: HOW LONG THE MACHINE WILL AGITATE BEFORE STOPPING FOR DRAINAGE

FORWARD RUN TIME: TIME THE MACHINE WILL SPIN IN A SINGLE DIRECTION - MINIMUM 00:30 SEC

REVERSE RUN TIME: TIME THE MACHINE WILL SPIN IN THE OPPOSITE DIRECTION - MINIMUM 00:30 SEC

REST TIME: TIME THE IMPELLER WILL REST BEFORE SWITCHING DIRECTION - MINIMUM 00:03 SEC

SPEED: SPEED OF THE IMPELLER IN RPM. MAX SPEED 420 RPM.

TEMPERATURE: RECORDED VIA THE THERMOCOUPLE ON THE UNDERSIDE OF THE VESSEL.

WEIGHT: RECORD YOUR WEIGHT INPUTS

SAVE: SAVE YOUR CURRENT PARAMETERS INTO A NEW RECIPE LINE ITEM. (SEE RECIPE NAME IMG)

THE RECIPES FUNCTION MAY BE ACCESSED BY THE TOP RIGHT HAND CORNER FILE IMAGE. (SEE RECIPE IMG)

THE CURRENT LOADED RECIPE IS NAMED IN THE "TEXT_TO_DISP" BOX RIGHT UNDERNEATH THE RECIPES FOLDER.

SETTINGS MAY BE ACCESSED BY THE GEAR ICON IN THE BOTTOM RIGHT HAND CORNER OF THE HOME SCREEN.

USER INTERFACE CONTINUED ON NEXT PAGE.

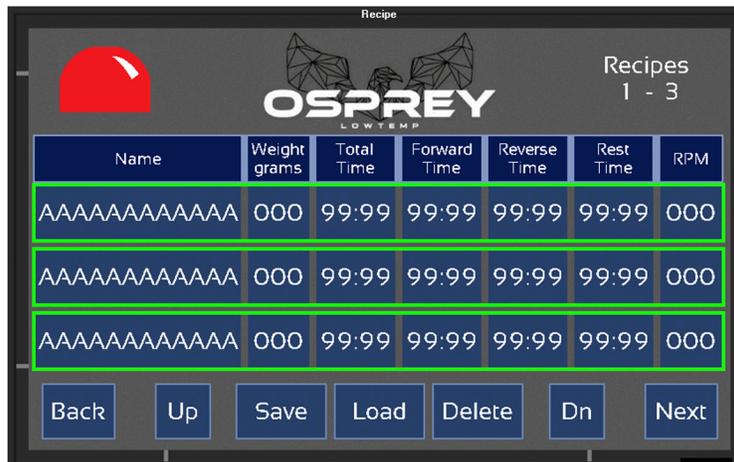
USER INTERFACE



SETTINGS IMG

SETTINGS MENU:

TEMP UNITS MAY BE CYCLED BETWEEN C AND F BY PRESSING THE TEMP UNITS ICON.
 TOTAL LIFE MOTOR HOURS IS HOW LONG THE MOTOR HAS BEEN RUNNING IT'S ENTIRE LIFE.
 THINK MILEAGE ON A CAR.



RECIPE IMG

BACK: WILL CYCLE THROUGH PAGES OR IF ON "RECIPES 1-3" PAGE, WILL RETURN TO THE MAIN PAGE.

UP & DN: CYCLES THE SELECTED RECIPE UP OR DOWN

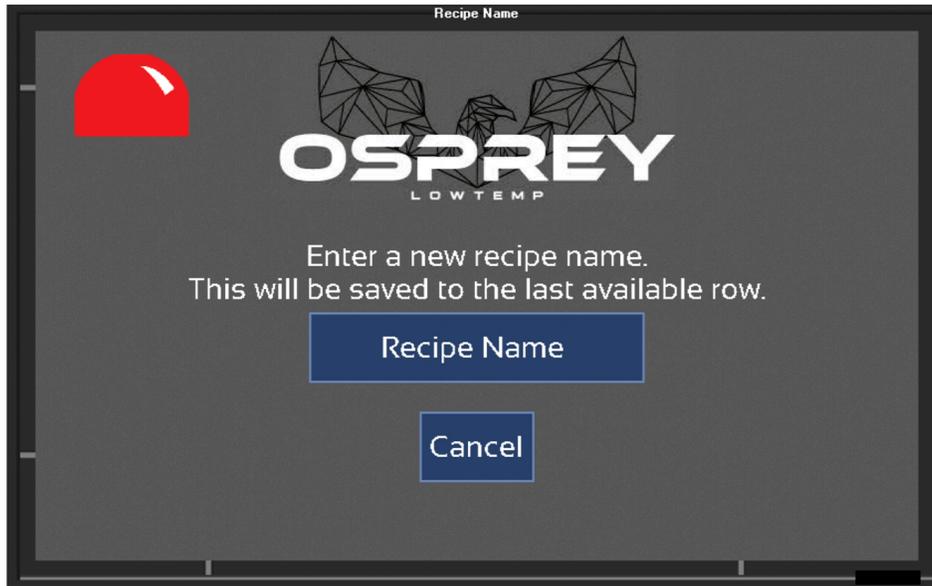
SAVE: SAVES ANY CHANGES MADE IN THIS SHOWN SCREEN.

LOAD: WILL LOAD THE HIGHLIGHTED RECIPE ROW

NEXT: CYCLES THROUGH RECIPE PAGES, THREE AT A TIME.

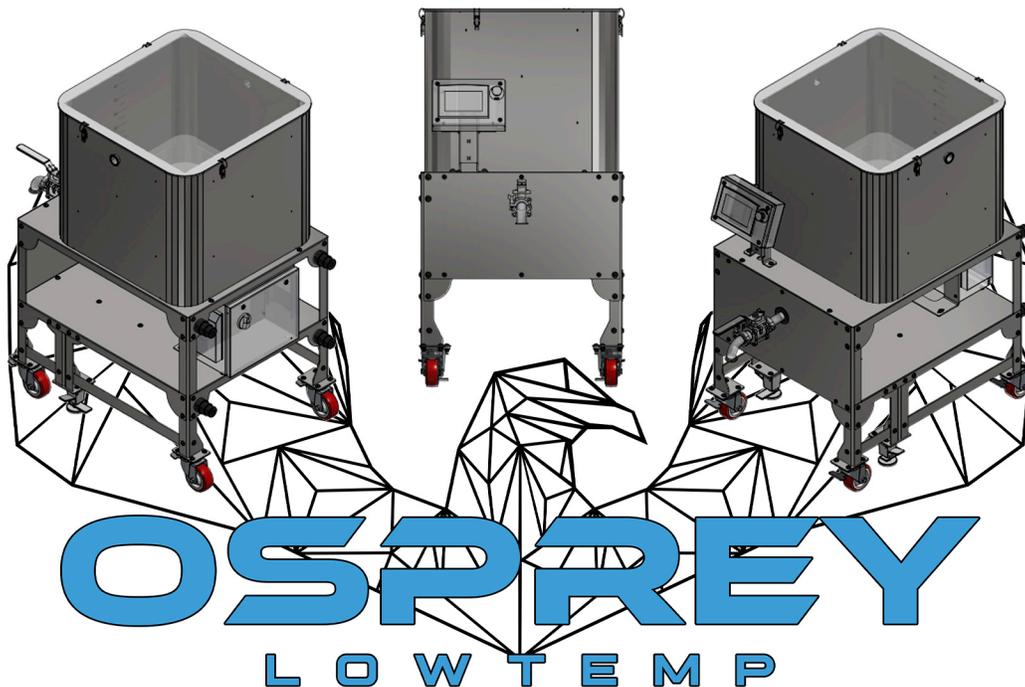
NOTE- YOU MAY CHANGE VARIABLES IN BULK FROM THIS PAGE. SIMPLY SELECT THE BOX, AND ENTER YOUR CHOSEN VARIABLES. ENSURE YOU HIT "SAVE" BEFORE LEAVING.

USER INTERFACE



RECIPE NAME IMG

THE SYSTEM PROMPTS THIS SCREEN WHEN YOU HIT "SAVE" ON THE HOME SCREEN.
THIS WILL CREATE A NEW RECIPE INSIDE THE RECIPES FUNCTION.



FALSE BOTTOM

FALSE BOTTOM USAGE:

WE RECOMMEND USING THE FALSE BOTTOM ONLY WHEN YOU'RE WASHING "NAKED", WITH NO WORK BAG.

THIS KEEPS YOUR NAKED PLANT MATERIAL OVER THE SLOPED FLOOR, AND HELPS THE RESINS FLOAT FREELY DOWN THE DRAIN.

IT'S NOT RECOMMENDED TO USE THE FALSE BOTTOM WITH WORK BAGS, AS IT GIVES PINCH POINTS TO THE WORK BAGS THEMSELVES, AND DOESN'T OFFER ANY ADDITIONAL BENEFIT AS IT DOES WITH A NAKED WASH.

WHEN USING THE FALSE BOTTOM, YOU'LL HAVE TO USE THE IMPELLER ADAPTER TO LIFT THE IMPELLER ABOVE THE FALSE BOTTOM.

DO NOT USE THE FALSE BOTTOM ABOVE THE IMPELLER!

THIS WILL RESULT IN SIGNIFICANT DAMAGE TO BOTH YOUR IMPELLER AND FALSE BOTTOM, AND COULD DAMAGE YOUR MOTOR OR TRANSMISSION COMPONENTS.

HOW TO USE THE FALSE BOTTOM:

FIRST, INSTALL THE FALSE BOTTOM INTO THE VESSEL. TAKE NOTE OF THE SMALL THERMOWELL NIPPLE AT THE BOTTOM OF THE VESSEL, AND ENSURE YOU LINE UP THE HOLE IN THE FALSE BOTTOM. THIS WILL SEAT THE FALSE BOTTOM CORRECTLY.

NEXT, INSTALL THE IMPELLER WITH THE IMPELLER ADAPTER ABOVE THE FALSE BOTTOM WITH THE EXTRA LONG STAINLESS STEEL ¼"-20 BOLT PROVIDED WITH YOUR KIT.

ENSURE THE FALSE BOTTOM WON'T GRIND AGAINST THE IMPELLER, WHICH WILL DAMAGE YOUR IMPELLER. AS ALWAYS, TIGHTEN THE CENTER SCREW BOLT VERY TIGHTLY INTO PLACE. UNLESS YOU ARE CROSS THREADED OR USING A BREAKER BAR, YOU WILL NOT BREAK THE BOLT, AND TIGHTER IS BETTER.

IF YOU ARE HAVING TROUBLE WITH ALL WATER DRAINING OUT WHEN USING THE FALSE BOTTOM:

ENGAGE THE RED E-STOP BUTTON. YOU HAVE TWO OPTIONS, WITH THE FIRST BEING TO TAKE A PLASTIC ICE SCOOPER, AND PUSH THE CANNABIS TO THE SIDE IN 3-4 DIFFERENT LOCATIONS SO YOU CAN SEE THE FALSE BOTTOM. THIS WILL HELP CREATE A PATHWAY FOR THE DRAINAGE OF THE WATER. THE OTHER OPTION IS TO SLIGHTLY SQUEEZE THE CANNABIS AGAINST THE FALSE BOTTOM WITH A LARGE FLAT SURFACE.

GENERAL USE

ICE USAGE:

WITH THE OSPREY'S DOUBLE WALLED STAINLESS STEEL CONSTRUCTION AND CLOSED BLOWN CLOSED CELL FOAM, THE NEED FOR ICE IN THE EXTRACTION PROCESS IS SIGNIFICANTLY REDUCED TO THAT OF A HAND WASH.

WITH A VESSEL THIS EFFICIENT, YOU WILL USE A SIGNIFICANTLY SMALLER AMOUNT OF ICE. WE RECOMMEND USING AROUND A 4:1 WATER TO ICE RATIO, OR 15 GALLONS OF ICE MAXIMUM.

OUR PROPRIETARY NO-SHEAR IMPELLER RELIES ON A LIGHTER VISCOSITY OF THE WATER, OVER-ICING YOUR MACHINE CAN RESULT IN SIGNIFICANTLY DECREASED AGITATION.

IF YOU ARE FINDING THAT YOU ARE NOT GETTING THE AGITATION YOU WOULD LIKE, WE RECOMMEND ADDING MORE WATER OR ALLOWING THE ICE TO MELT SLIGHTLY TO INCREASE THE FLUIDITY OF THE MIXTURE.

WORK BAGS USAGE:

WHEN USING WORK BAGS, MOUNT THE IMPELLER DIRECTLY ONTO THE DRIVE SHAFT.

THIS WILL LOWER THE IMPELLER INTO THE BASIN, AND GIVE BETTER VORTEX TO THE WORK BAG TECHNIQUE. **DO NOT USE THE FALSE BOTTOM.** AS ALWAYS, TIGHTEN THE CENTER SCREW BOLT VERY TIGHTLY INTO PLACE. UNLESS YOU ARE CROSS THREADED OR USING A BREAKER BAR, YOU WILL NOT BREAK THE BOLT, AND TIGHTER IS BETTER.

SPEED, TIME, AND AGITATION PARAMETERS:

IT'S RECOMMENDED TO PLAY WITH THE VARIABLES AND RECORD YOUR RESULTS AND QUALITY TO MATCH YOUR BUSINESS MODEL, HOWEVER WE'RE GLAD TO RECOMMEND SOME STARTING POINTS, AND HOW ALL VARIABLES REACT TOGETHER. WITH MORE ICE OR MORE CANNABIS, THE MIXTURE BECOMES MORE SOLID, AND WILL REQUIRE MORE SPEED.

200-300 RPM FOR A GENTLE EXTRACTION IS A GREAT STARTING POINT, AND WE WOULD RECOMMEND ANYWHERE BETWEEN A 10-20 MINUTE AGITATION CYCLE IN EACH BATCH.

WE NORMALLY RECOMMEND 1:30 EACH DIRECTION TO ALLOW THE PLANT MATERIAL TO GET A SOLID ROTATION/AGITATION, WITH A 3-5 SECOND REST TIME BETWEEN EACH DIRECTION.

AS A GENERAL RULE, MORE (HIGHER SPEED) AGITATION WILL REACT IN A MORE THOROUGH AGITATION, AND ON THOSE FINAL RUNS, CAN CAUSE SLIGHTLY MORE DEGRADATION OF THE RESIN QUALITY EXTRACTED.

CLEANING THE OSPREY:

AT THE END OF EACH DAY, A SIMPLE CLEAN WATER RUN THROUGH THE OSPREY, PUMPS, AND VESSELS IS RECOMMENDED. WIPE DRY WITH HIGH QUALITY MICROFIBER CLOTH, AND AN OPTIONAL DISINFECTING ISO WIPE CAN BE PERFORMED AS WELL.

REMOVE THE IMPELLER, AND STORE IN A DRY LOCATION.

WE RECOMMEND LEAVING THE LID OPEN, WHICH WILL HELP EVAPORATION OF ANY REMAINING MOISTURE.

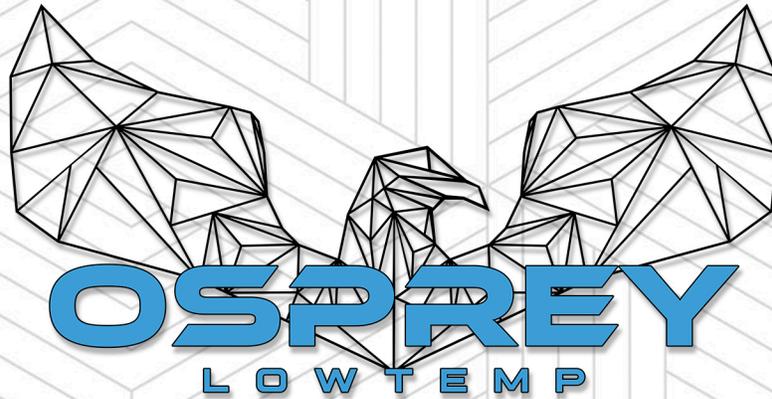
DO NOT USE ANY CLEANERS CONTAINING TRISODIUM PHOSPHATE, PHOSPHORIC ACID, HYDROFLUORIC ACID, FLUORIDES, OR SIMILAR COMPOUNDS.

ALWAYS TEST CLEAN A SMALL AREA IF IN DOUBT.

WARRANTY

LOWTEMP INDUSTRIES, LLC (“LOWTEMP”) PROUDLY UPHOLDS OUR COMMITMENT TO QUALITY. LOWTEMP WARRANTS THE PRODUCTS IT MANUFACTURES TO BE OF GOOD QUALITY MATERIAL AND WORKMANSHIP, AND TO BE FREE OF DEFECTS WHEN PROPERLY INSTALLED AND OPERATED FOR A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE. FURTHER, ELECTRONICS AND MOTOR COMPONENTS ARE COVERED FOR TWO YEARS FROM THE DATE OF PURCHASE, AND AN UNLIMITED TIME PERIOD RELATED TO THE METAL AND WELDS ON THE PRODUCT PURCHASED WITH NORMAL WEAR AND TEAR EXCEPTED. REMEDY FOR BREACH OF THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE ITEM(S). ANY PRODUCT WHICH, UNDER NORMAL USE AND SERVICE FOR ITS INTENDED PURPOSE, IS PROVEN TO BREACH THE WARRANTY CONTAINED HEREIN WILL, UPON EXAMINATION BY LOWTEMP AND AT ITS SOLE OPTION, BE REPAIRED OR REPLACED BY LOWTEMP. TRANSPORTATION COSTS AND CHARGES FOR RETURNED GOODS SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE PURCHASER. LOWTEMP HEREBY DISCLAIMS RESPONSIBILITY FOR SUCH TRANSPORTATION COSTS AND CHARGES. THIS WARRANTY WILL NOT BE BREACHED, AND LOWTEMP WILL GIVE NO CREDIT FOR PRODUCTS IT MANUFACTURES OR OTHERWISE OFFERS FOR SALE WHICH HAVE RECEIVED NORMAL WEAR AND TEAR, BEEN DAMAGED (INCLUDING ACTS OF NATURE), TAMPERED, ABUSED, IMPROPERLY INSTALLED, OPERATED OR ATTEMPTED TO BE OPERATED IN A MANNER OR PURPOSE NOT DESIGNED FOR OR INTENDED FOR USE, DAMAGED IN SHIPPING, OR REPAIRED OR ALTERED BY OTHERS THAN LOWTEMP OR ITS APPROVED AND AUTHORIZED REPRESENTATIVES OF LOWTEMP. THE ABOVE-DESCRIBED WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ALL OTHER WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. LOWTEMP EXPRESSLY DISCLAIMS ALL LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES, WHETHER ARISING IN TORT OR BY CONTRACT FROM ANY BREACH OF THIS WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. LOWTEMP FURTHER DISCLAIMS ALL LIABILITY FROM PERSONAL INJURY RELATING TO ITS PRODUCTS TO THE EXTENT PERMITTED BY LAW. BY ACCEPTANCE OF ANY OF LOWTEMP’S PRODUCTS, THE PURCHASER ASSUMES ALL LIABILITY FOR THE CONSEQUENCES ARISING FROM THEIR USE OR MISUSE. NO PERSON, FIRM OR CORPORATION IS AUTHORIZED TO ASSUME FOR LOWTEMP ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS. FURTHERMORE, NO PERSON, FIRM OR CORPORATION IS AUTHORIZED TO MODIFY OR WAIVE THE TERMS OF THIS PARAGRAPH, AND THE PRECEDING PARAGRAPH, UNLESS DONE IN WRITING AND SIGNED BY A DULY AUTHORIZED AGENT OF LOWTEMP. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

QUESTIONS OR INQUIRIES CONTACT INFO@LOWTEMP-PLATES.COM



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