



LFC Commissioning Report

Form revised 2022-11-29

1 Location

LFC model	
Serial number	
Company name	
Ship name	
LFC location	Deck: Area:
Commissioning date	
Start time	
Commissioned by	

2 Site Selection

Can sunlight reach LFC biodigester	☐ Yes ☐ No
Is there a large heat source next to LFC biodigester	☐ Yes ☐ No
Can rain or snow fall on machine	☐ Yes ☐ No
Will ambient temperature be 12°C~38°C (54°F~100°F)	☐ Yes ☐ No
Appropriate distance around machine	
— Front: 60 cm (24") minimum (for ≤LFC-500)	☐ Yes ☐ No
— Front: 150 cm (60") minimum (for ≥LFC-1000)	☐ Yes ☐ No
— Back: 2 cm (1")	☐ Yes ☐ No
— Left: 20 cm (8") minimum, 50 cm (20") preferred	☐ Yes ☐ No
— Right: 15 cm (6") minimum, 50 cm (20") preferred	☐ Yes ☐ No

3 Visual Inspection of LFC Biodigester

Visual damage	☐ Yes ☐ No
Feet are properly installed	☐ Yes ☐ No
Metal feet covers installed	☐ Yes ☐ No
Is floor level to ± 10 mm	☐ Yes ☐ No
Machine is installed on pads	☐ Yes ☐ No
Clearance >10 mm between wheels and floor	☐ Yes ☐ No

4 Utilities

Voltage on serial number plate	
Voltage provided to machine	
AC disconnect mechanism	
Flexible connector on water inlets	☐ Yes ☐ No
Stop valve on water inlets	☐ Yes ☐ No
Pressure reducer on water inlets	☐ Yes ☐ No
One way valve on water inlets	☐ Yes ☐ No
Bladder tank on water inlets	☐ Yes ☐ No
Temperature of drum water	☐ °C ☐ °F
Temperature of washout water	☐ °C ☐ °F
Pressure of drum water	☐ kPa ☐ bar ☐ psi
Pressure of washout water	☐ kPa ☐ bar ☐ psi
Hose pipe operational	☐ Yes ☐ No
Flexible connector for waste water outlet	☐ Yes ☐ No
Stop valve on waste water outlet	☐ Yes ☐ No
Outlet pipe slopes down	☐ Yes ☐ No

Distance to drain	☐ m ☐ ft
Grade level drain size	☐ cm ☐ in

5 Initial Power On

Only Powerchips in the drum	☐ Yes ☐ No
Touch screen shows LFC logo	☐ Yes ☐ No
Beep from display box	☐ Yes ☐ No
Errors identified in boot up sequence	☐ Yes ☐ No
Check date and time	☐ Yes ☐ No
Time zone and current time	
Date and time set to	
Balance load on feet and calibrate	☐ Yes ☐ No Total weight: ☐ kg ☐ lb
Manual mode: motor forward	☐ Yes ☐ No
Manual mode: motor reverse	☐ Yes ☐ No
Manual mode: drum water	☐ Yes ☐ No
Manual mode: washout water	☐ Yes ☐ No
Manual mode: door open and closed	☐ Yes ☐ No
Verify LED functions (red, yellow, green)	☐ Yes ☐ No
Verify fans work	Motor: ☐ Yes ☐ No Control box: ☐ Yes ☐ No
Verify Diagnostics reports no errors	☐ OK ☐ Only Service Errors ☐ Other Errors
Describe errors if any and how fixed	

6 Activate the Powerzyme

Will food waste be available in four hours? (25% of capacity)	☐ Yes ☐ No
Equal parts of Powerzyme, sugar, and rice; 4 parts of water	☐ Yes ☐ No
Stir mixture	☐ Yes ☐ No
Time activation started	

7 Soak the Powerchips

Shut waste water outlet valve	☐ Yes ☐ No
Fill drum 1/3 full with drum supply	☐ Yes ☐ No
Rotate arms 10 minutes	☐ Yes ☐ No
Time of starting to soak chips	

8 Settings

Connect Ethernet	☐ Direct wire ☐ Wi-Fi client ☐ GSM modem ☐ None
If no Ethernet, explain reasons	
If temporary GSM, time connected	
Confirm connection to LFC Cloud	☐ Yes ☐ No
Reset settings	☐ Yes ☐ No

9 Deployment

Have Powerchips soaked 3 to 5 hours	☐ Yes ☐ No
Thoroughly drain water (open stop valve)	☐ Yes ☐ No Time now:
Calibrate machine (3124)	☐ Yes ☐ No Total weight: ☐ kg ☐ lb
Record weights for each load cell	1 2 3 4 ☐ kg ☐ lb
Reset history (0438)	☐ Yes ☐ No
Have Powerzyme activated 5 to 10 hours	☐ Yes ☐ No Time now:

Add at least 25% waste food	☐ Yes ☐ No
Rotate arms in Manual mode (1485)	☐ Yes ☐ No
Pour in Powerzyme mixture slowly	☐ Yes ☐ No DANGER: avoid rotating arms
Reset service counter for Powerzyme	☐ Yes ☐ No Next service: months
Reset service counter for Powerchips	☐ Yes ☐ No Next service: months
Reset service counter for mechanical	☐ Yes ☐ No Next service: months
Did you reset the settings back in §8	☐ Yes ☐ No
Start in Auto mode	☐ Yes ☐ No Time now:
If applicable, disconnect temporary GSM	☐ Yes ☐ n/a
Customer name	
Customer signature	

10 Notes

Power Knot provides safe and economically sound solutions for commercial, industrial, marine, and military customers globally seeking to reduce their carbon footprint. The LFC® biodigester allows customers to reduce the expense, inconvenience, and mess of disposing of waste food that would otherwise be hauled to a landfill or dumped in the ocean. Power Knot, the Power Knot logo, the Power Knot mark, LFC, LFC Cloud, Powerchips, Powerzyme, SBT, and WEP are trademarks or registered trademarks of Power Knot LLC. All other trademarks used herein are the property of their respective owners. Copyright © 2009 ~ 2022, Power Knot LLC. All rights reserved. Document 96-01175-11.