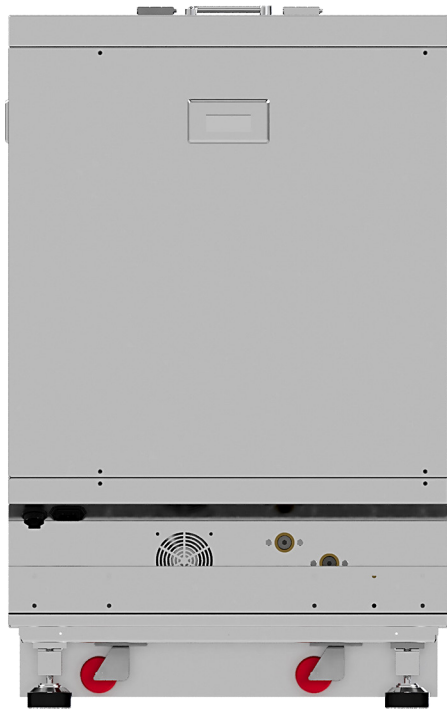


LFC-25

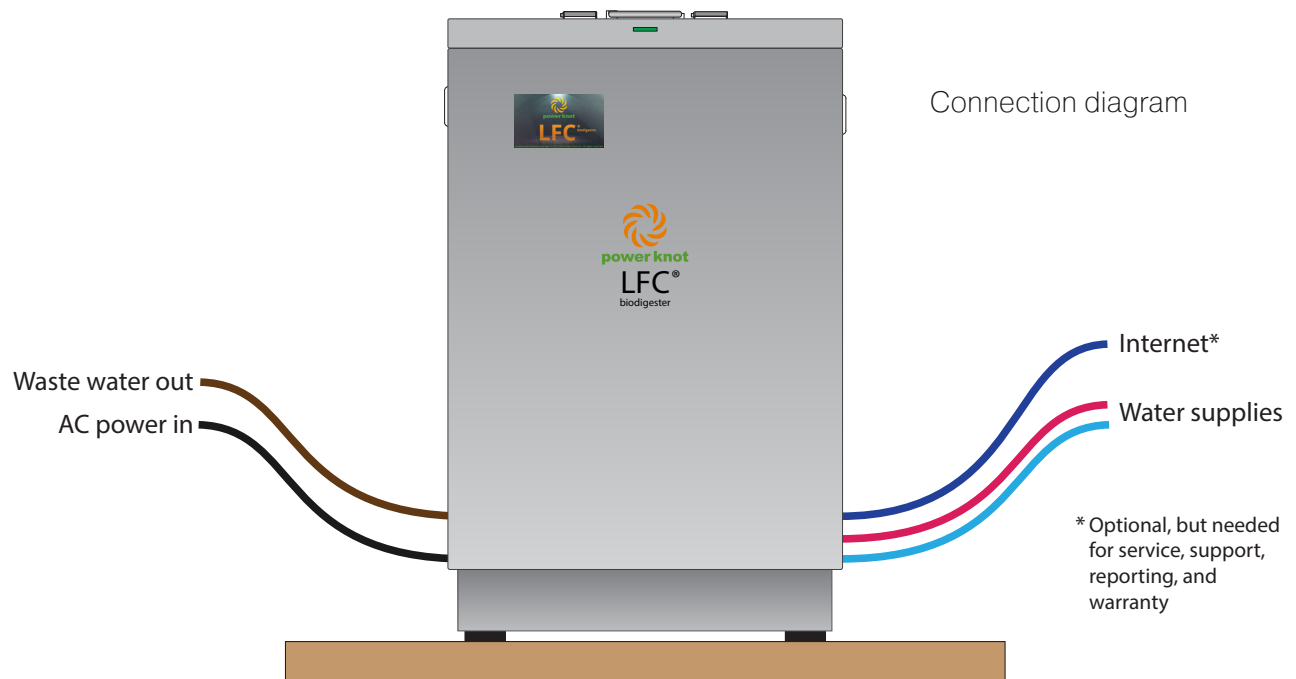
Biodigester



Rear view



Connection diagram



LFC-25

Installation Requirements

Maximum capacity of food waste

25 kg (55 lb)
33 litre (9 gallon)

Digestion of food waste per day

9–75 kg (20–165 lb)

Construction

All 316 stainless steel (chassis, side panels, drum, shaft, arms, paddles, and load cells). Chassis is mirror finish (EN 10088-2 specification 2P)

Operating environment

Indoors or covered patio

Must not be exposed to rain, snow, or sunshine

Ingress protection

IP54 – splash proof and dust proof

Operating altitude

0–3000 m (9800 ft)

Ambient operating temperature

12°C~38°C (54°F~100°F) when altitude is less than 1000 m (3300 ft); reduce linearly to 24°C (75°F) at 3000 m

Floor surface flatness required

±5 mm (±0.2")

Weight when empty

136 kg (300 lb)

Moving and positioning

Machine is rolled into place with casters

Machine is raised once in position and supported by feet and rubber pads

Weight when full

179 kg (394 lb) maximum

Load per foot

60 kg (131 lb) maximum

Pressure per foot

58 kPa (8 psi), maximum

Space required around machine

Left side, right side, and back: can each be flush against panels or walls.

Front: can be flush for operation but requires 60 cm (24") for loading

Water inlets

Filters: use external filters to remove particles and hardness

Fittings: DN 15 (½" NPT) female

Pipes: Use flexible hose pipes to allow machine to move freely. Install valves to disconnect water for servicing

Backflow prevention: devices are installed internally

Pressure: 200 to 675 kPa
(29 to 98 psi, 2.0 to 6.9 kg/cm²)

Flow rate: 7.5 litre per minute (2 gpm) max.
@ 450 kPa (65 psi, 4.5 kg/cm²)

Hot water: 45°C~75°C (113°F~167°F)

Cold water: 5°C~35°C (41°F~95°F)

The supplied water is mixed internally. The temperatures must be such that the internal temperature of 45°C (113°F) can be attained.

Water input per day

75 litre (20 gallon) typical

Waste water outlet

Fitting: DN 15 (½" NPT) female

Pipe: Use flexible coupling on output to permit machine to move freely. Pipe must be 19 mm (¾")

Optional pumped or gravity output:

Pumped: Internal pump can pump water up to a height of 2 m (6.5') on pipe without 90° bends. Internal one way valve stops back flow

Gravity: Connect waste water outlet lower than machine

Drain

Must exit to sewer (not storm drain); grease trap is required in most jurisdictions

Total waste water output per day

100 litre (26 gallon), typical

Flow rate of waste water out

10 l/min (2.6 gpm), maximum
0.1 l/min (0.02 gpm), typical average

AC supply

Single phase (L+N+ PE)
100 V to 260 V, 50 Hz to 60 Hz
IEC 60320-1 C14 socket
External circuit breaker: 6 A

AC power cord

Order power cord separately. Typical length of power cord: 180 cm (6')

Facility power outlet must be accessible by operator and have a safety disconnect

Maximum power

180 W

Energy per day

0.8 kWh typical

Heat generated by digestion

25 W ~ 100 W, 50 W typical

User interface

3 color LED through diffused slot

5" touchscreen with 65k colors

Ethernet

RJ45, 100 baseT
DHCP or fixed IP address

Connect to Internet with direct cable, Wi-Fi client, or GSM modem

Automatically connects to LFC Cloud for

remote support, reporting, and monitoring (included in purchase price). Connection is required to extend warranty to 3 years

Powerzyme

(Microorganisms and enzymes)
0.25 litre, included with initial purchase

Powerchips

(Medium for microorganisms)
25 litre, included with initial purchase

Operating lifetime

Expected to be 15 to 25 years

Warranty

3 years on all parts and components when connected to the LFC Cloud

1 year for marine and rental machines, or when not connected to the LFC Cloud

Hygiene

NSF/ANSI 13-2024

Safety

Certified to UL430 edition 8
(waste disposal machines)
CAN/CSA-C22.2 No. 60335-1:11 R16
CAN/CSA-C22.2 No. 60335-2-16:16
EN 60335-1:2012+A11:2014+A13:2017
+A1:2019+A14:2019+A2:2019
EN 60335-2-16:2003+A1:2008+A2:2012
+A11:2018

EMC and EMI

47 CFR FCC part 15, subpart B, class B
ICES-003:2016 Issue 6, class B
ANSI C63.4:2014
EN 61000-6-1:2007 & 2005
EN 61000-6-3:2007+A1:2011 & 2006
CISPR 16-2-3:2016
CISPR 16-2-1:2006
CISPR 16-1-2:2003 + A1:2004 + A2:2006
EN 61000-3-2:2005 + A1:2008 + A2:2009
EN 61000-3-3:2013
EN 61000-4-2:1995
EN 61000-4-3:2006
EN 61000-4-4:2004
EN 61000-4-5:2006
EN 61000-4-6:2014
EN 61000-4-8:1993
EN 61000-4-11:2004

EU directives

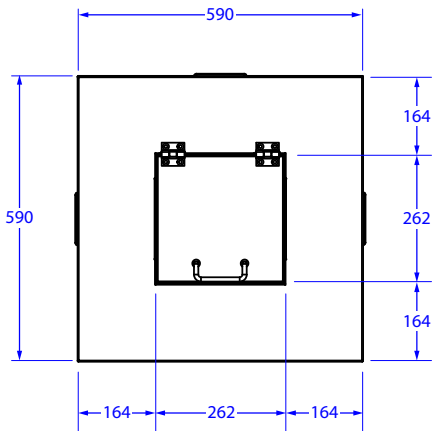
Low Voltage Directive: 2014 / 35 / EU
EMC Directive: 2014 / 30 / EU
RoHS Directive: 2011 / 65 / EC
WEEE Directive: 2012 / 19 / EC



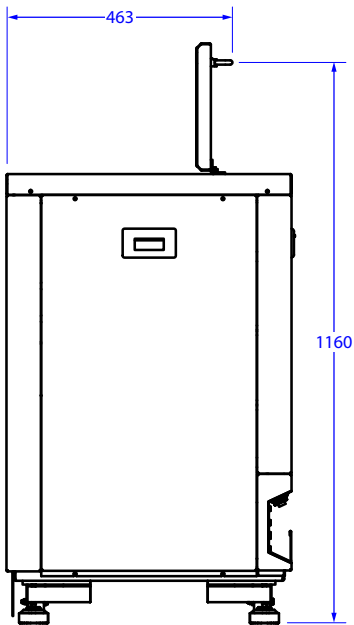
For complete details see User's Manual

LFC-25

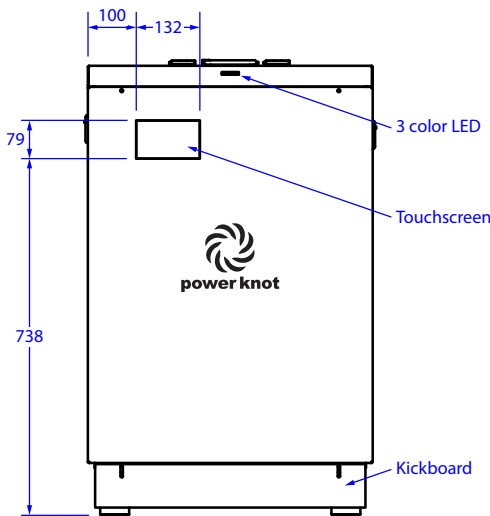
Dimensions in mm ±2 mm



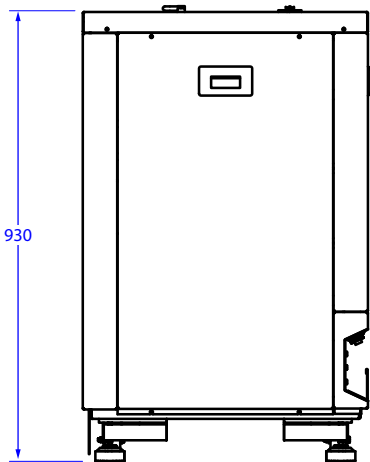
Top



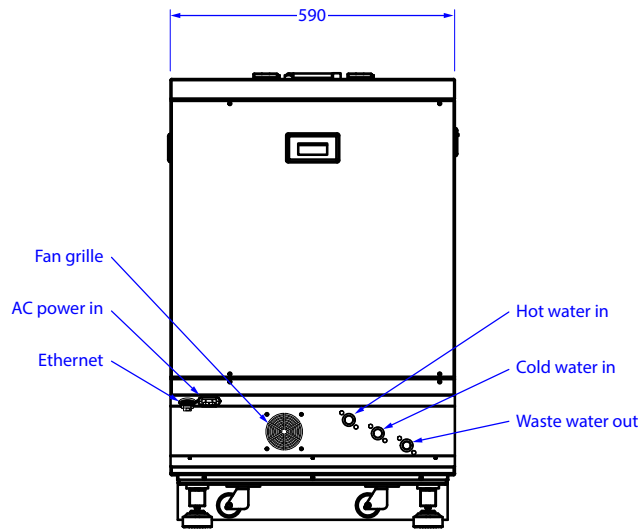
Right with door fully open



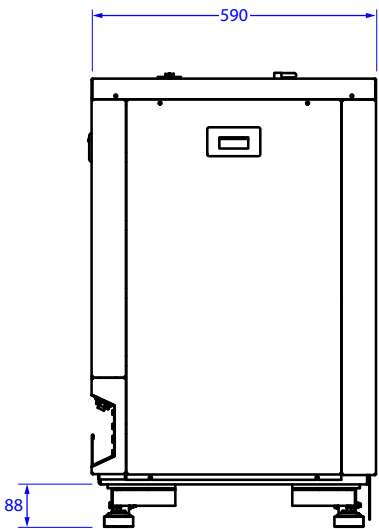
Front



Right



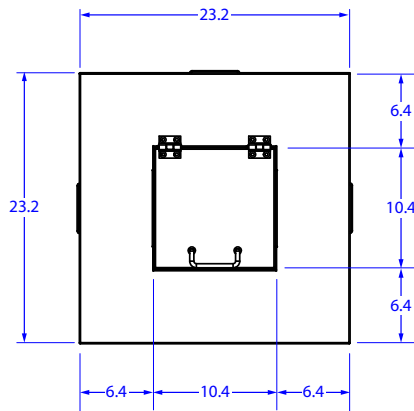
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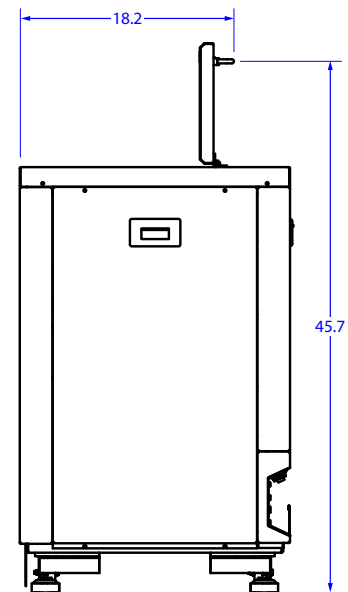
Left

LFC-25

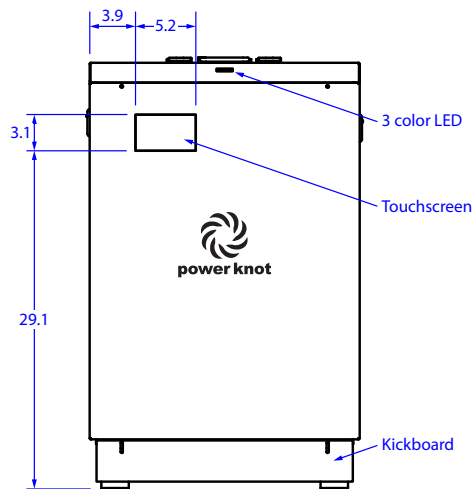
Dimensions in inches $\pm 0.1"$
(derived from mm)



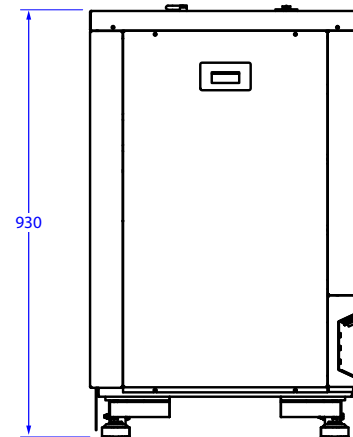
Top



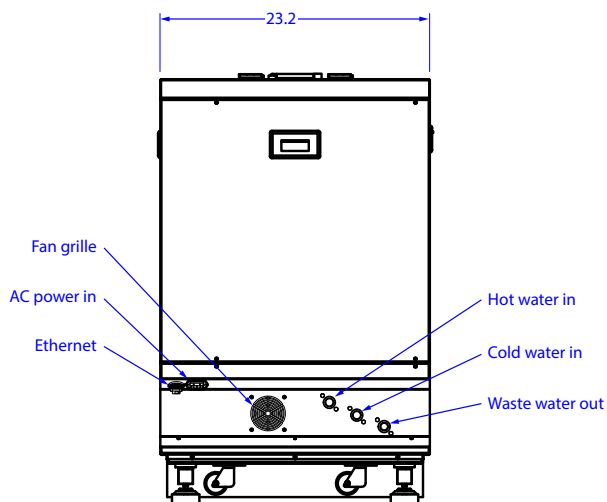
Right with door fully open



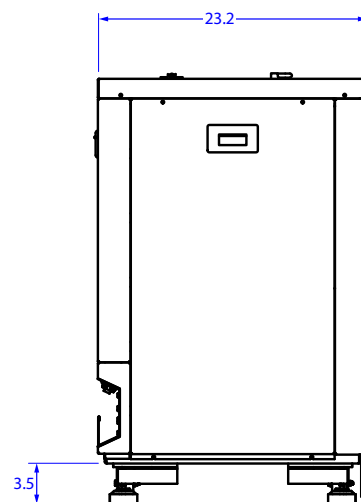
Front



Right



Back



Left



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