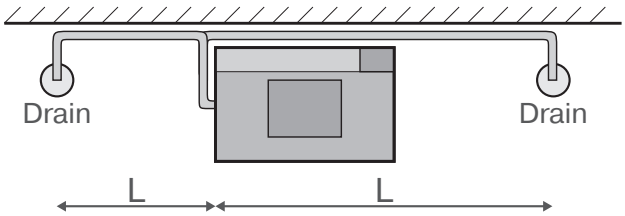
LFC-70

Biodigester

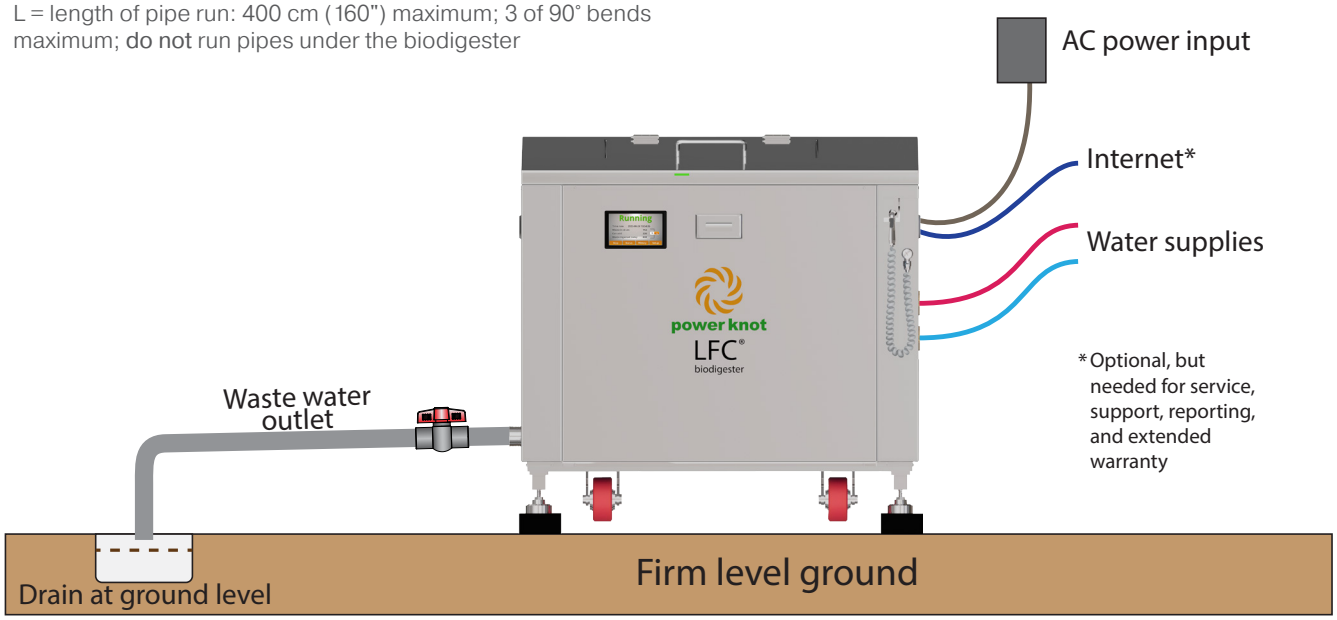
power knot



Top view with detail of drain pipe



Only one drain is required on left side or right side of machine
Pipes normally run along wall for neatness, but can be direct
L = length of pipe run: 400 cm (160") maximum; 3 of 90° bends maximum; do not run pipes under the biodigester



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Installation Requirements

Maximum capacity of food waste
70 kg (154 lb)
90 litre (20 gallon)

Digestion of food waste per day
25 kg to 210 kg (55 lb to 460 lb)

Construction
All 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 to 3000 m (9800 ft)

Ambient operating temperature
10°C to 40°C (50°F to 104°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
204 kg (450 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
309 kg (681 lb) maximum

Load and pressure per pad
104 kg (230 lb) maximum
100 kPa (15 psi) maximum

Space required around machine
Left side: 20 cm (8") minimum, 30 cm (12") preferred. 100 cm (39") is required for servicing

Right side: 15 cm (6") minimum, 60 cm (24") preferred. 125 cm (50") is required for servicing

Back: 2 cm (1")

Front: 60 cm (24") minimum

Water inlets
Filters: use external filters to remove particles and hardness

Fittings: DN15 (½") female
Use flexible hose pipes to allow machine to move freely. Install valves to disconnect water for servicing and backflow prevention devices if required

Pressure: 275 to 675 kPa (40 to 98 psi, 2.8 to 6.9 kg/cm²)

Flow rate: 20 litre per minute (5 gpm) max. @ 450 kPa (65 psi, 4.5 kg/cm²)

Drum water: 40°C~50°C (104°F~122°F)

Washout water: 15°C~75°C (60°F~165°F)

Use WMX-20 water system or use external mixing valves, heaters, pressure reducers, and bladder tanks to meet the above requirements as needed

Water input per day
210 litre (55 gallon) typical

Water outlet
Use flexible coupling on output to permit machine to move freely

Install stop valve on outlet pipe (used for commissioning)

Slope pipe down by about 1 in 45 (1.3°)

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

Size: 50 mm (2") minimum

Total water output per day
280 litre (74 gallon), typical

Flow rate of waste water out
20 l/min (5.4 gpm), maximum
0.2 l/min (0.05 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: 8 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
380 W

Electrical energy per day
1.9 kWh typical

Heat generated by digestion
70 W to 210 W, 140 W typical

User interface
22 mm 3-color LED

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)

Powerzyme
Microorganisms and enzymes

0.7 litre, included with initial purchase

Powerchips
Medium for microorganisms

70 litre, included with initial purchase

Operating lifetime
Expected to be 15 to 25 years

Warranty
3 years on all parts and components
(1 year for marine, security, and rentals)
Subject to terms and conditions

Hygiene
NSF/ANSI 13-2024

Weighing
NTEP certified to NIST Handbook 44

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

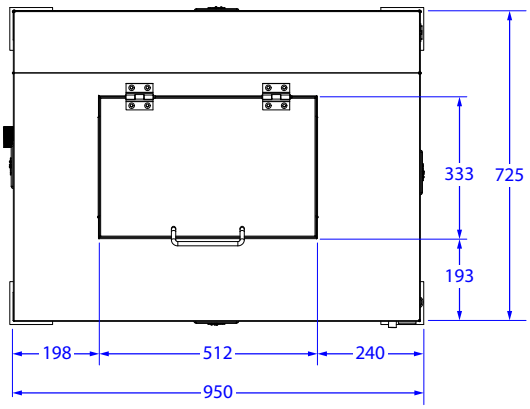
EMC and EMI
47 CFR FCC part 15, subpart B, class B
ICES-003:2016 Issue 6, class B
ANSI C63.4:2014
EN 61000-6-1:2007 & 2005
EN 61000-6-3:2007+A1:2011 & 2006
CISPR 16-2-3:2016
CISPR 16-2-1:2006
CISPR 16-1-2:2003 + A1:2004 + A2:2006
EN 61000-3-2:2005 +A1:2008 +A2:2009
EN 61000-3-3:2013
EN 61000-4-2:1995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

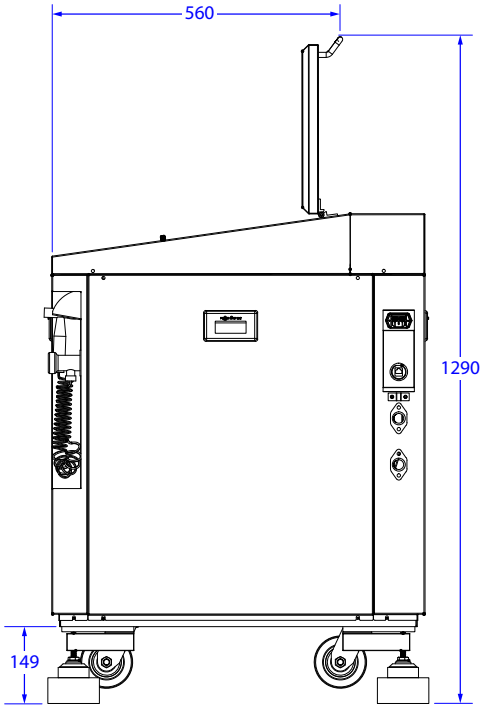
For complete details see User's Manual

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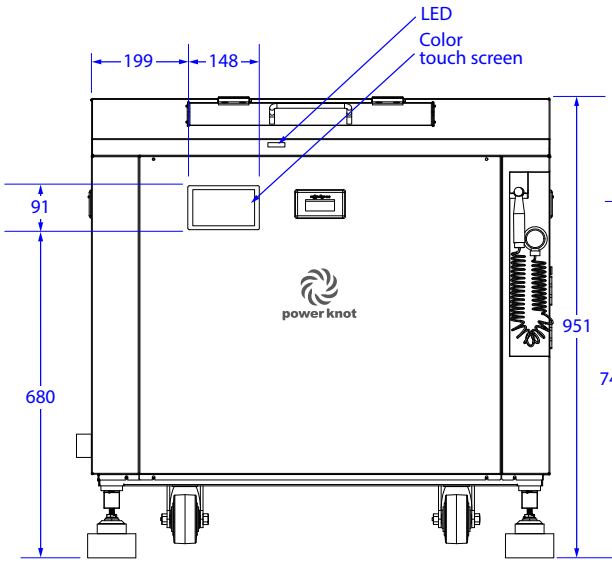
Dimensions in mm ±2 mm



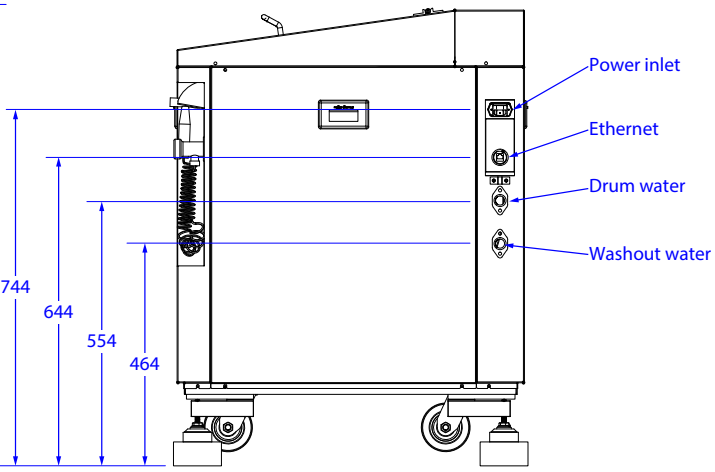
Top



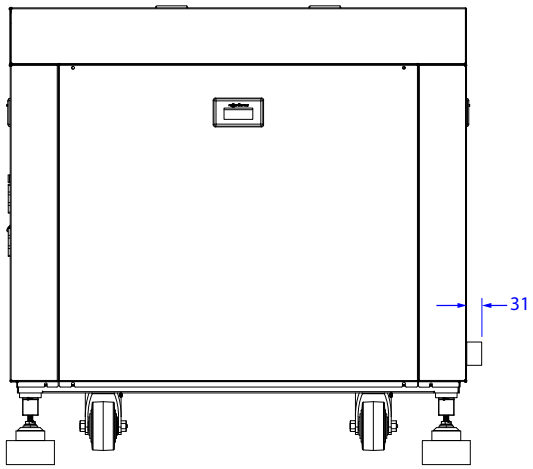
Right with door fully open



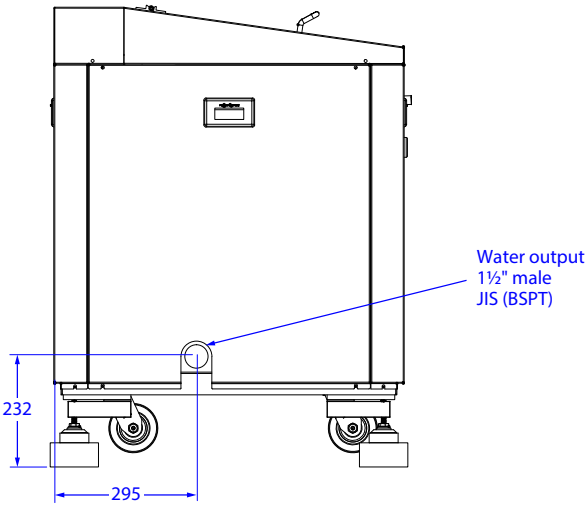
Front



Right



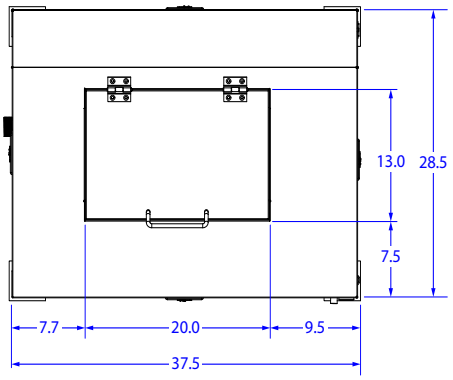
Back



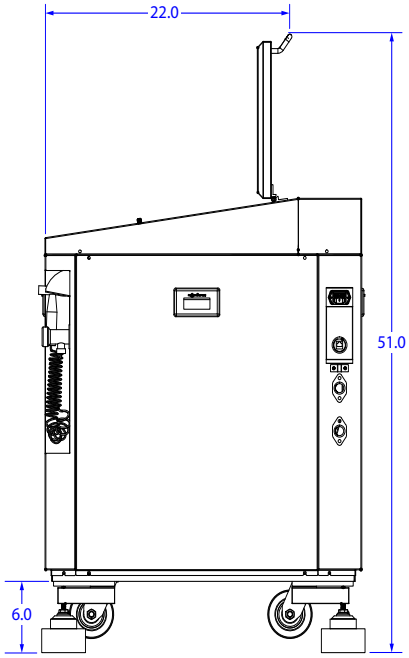
Left

LFC-70

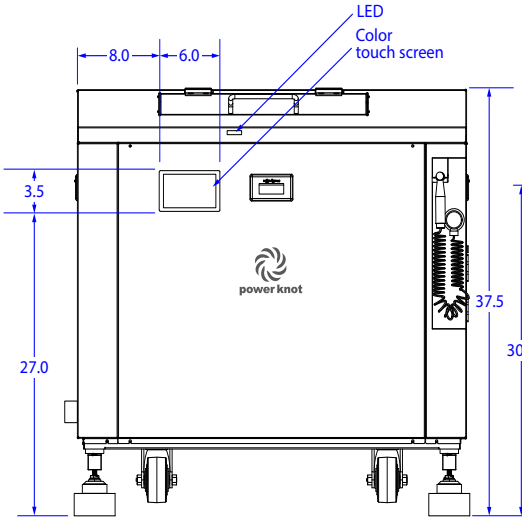
Dimensions in inches ±0.1"
(derived from mm)



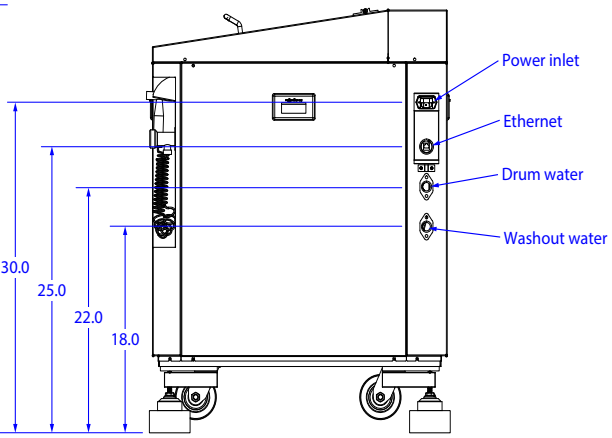
Top



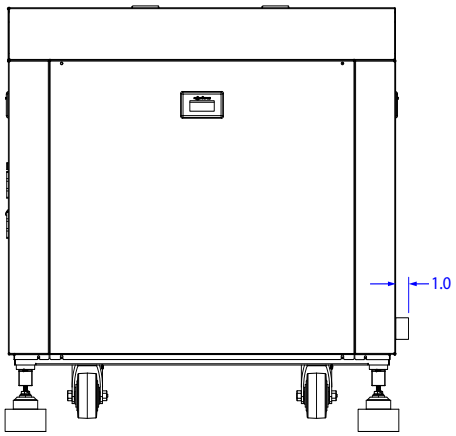
Right with door fully open



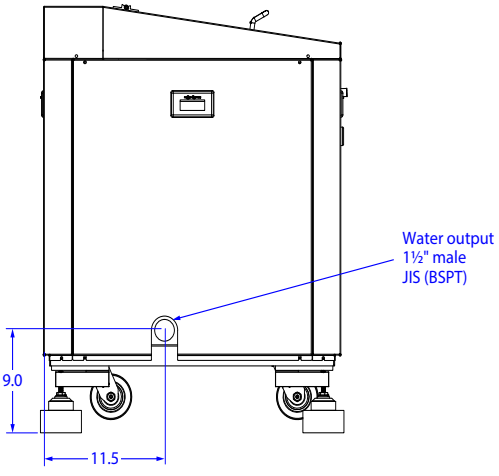
Front



Right



Back



Left

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