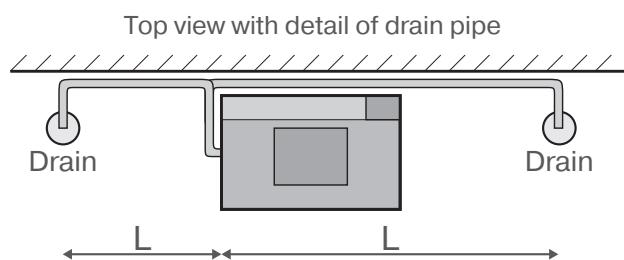
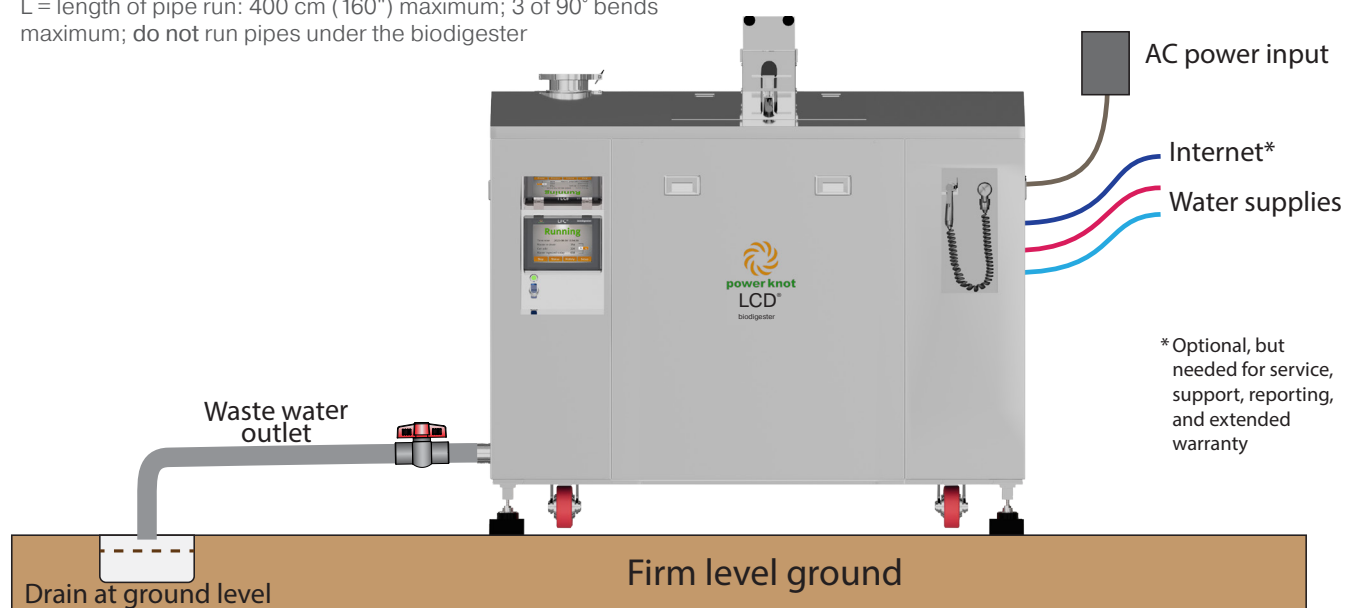


LCD-300

Biodigester



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



LCD-300

Installation Requirements

Maximum capacity of cannabis waste

136 kg (300 lb)
179 litre (46 gallon)

Digestion of cannabis waste

48–408 kg (105–900 lb) per day

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~40°C (50°F~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

±15 mm (0.6")

Weight when empty

560 kg (1235 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

1010 kg (2230 lb) maximum

Load and pressure per pad

340 kg (740 lb) maximum
330 kPa (48 psi), maximum

Automatic door and NFC cards

Feed door is operated by linear motor activated by an NFC card. Can use up to 100 different registered NFC cards

Inlet port (optional)

DN115 sanitary fitting; supplied with bellows terminated in DN100 sanitary fitting. Relay output signals to host system capacity of LFC biodigester

Space required around machine

Left side: 25 cm (10") minimum, 50 cm (20") preferred. 100 cm (39") is required for servicing

Right side: 15 cm (6") minimum, 60 cm (24") preferred. 150 cm (60") is required for servicing

Back: 2 cm (1")

Front: 60 cm (24") minimum

Water inlets

Filters: use external filters to remove

particles and hardness

Fitting: 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 550 kPa
(40 to 80 psi, 2.8 to 5.6 kg/cm²)

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

Drum water: 35°C to 50°C (95°F to 120°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

900 litre (240 gallon) typical

Water outlet

Typically 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: 75 mm (3") minimum

Total water output per day

1200 litre (320 gallon), typical

Flow rate of waste water out

22 l/min (5.7 gpm), maximum
0.8 l/min (0.2 gpm), typical average

AC supply (order one type)

208 V or 250 V

180 V to 230 V, 50 Hz to 60 Hz
230 V to 270 V, 50 Hz to 60 Hz
3-phase + PE

400 V

380 V to 440 V, 50 Hz to 60 Hz,
3-phase + neutral + PE (standard)
3-phase + PE (special order)

460 V

440 V to 480 V, 50 Hz to 60 Hz
3-phase + PE

External circuit breaker required: 15 A

AC power outlet

Can wire directly (without a plug and socket). Outlet must be accessible by operator and have a safety disconnect.

Emergency switch (e-switch) on top panel is optional order.

External circuit breaker required: 15 A

AC power cord

Length of cable on machine: 180 cm (6')
208 V is fitted with NEMA L15-20 plug; all other voltages plug is not installed

Maximum power

2.0 kW

Electrical energy per day

12 kWh typical

Heat generated by digestion

300 W to 1200 W, 600 W typical

User interface

22 mm 3-color LED
7" 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
3 litre, included with initial purchase

Powerchips

Medium for microorganisms
300 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

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

Dimensions in mm ± 2 mm



Diagram illustrating the 851 interface components and connections:

- Inlet port
- E-switch (optional)
- Color touch screen
- LED
- USB
- 851
- NFC card reader

- Power cord
- Ethernet
- D&W inputs
- Relay outputs (optional)
- Drum water
- Washout water

AC power out
(optional)

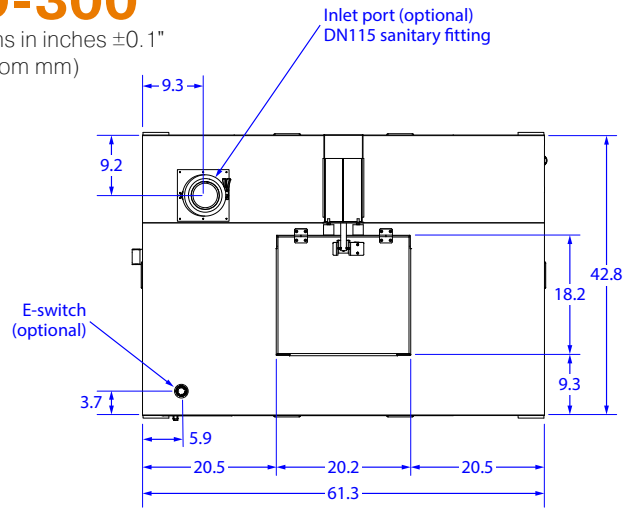
D&W inputs
(optional)

Water output
2" male
JIS (BSPT)

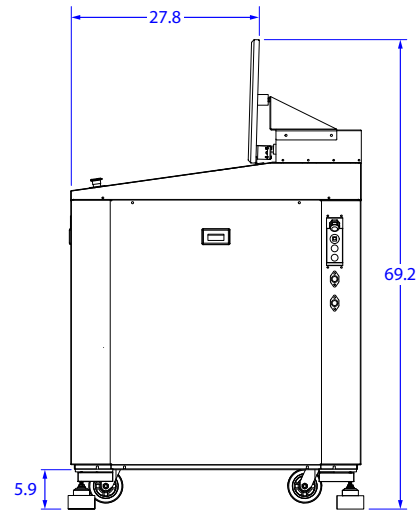
Left

LCD-300

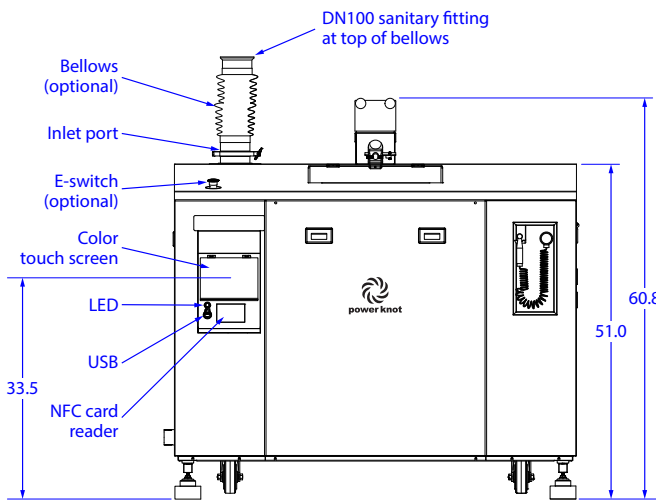
Dimensions in inches ± 0.1 "
(derived from mm)



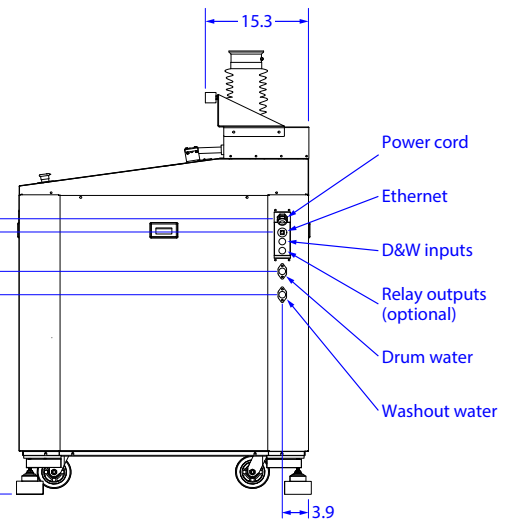
Top



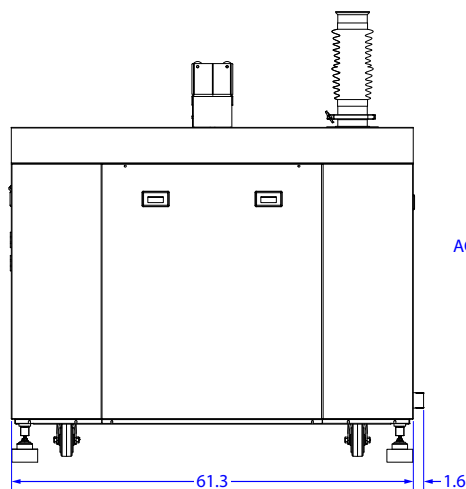
Right with door fully open



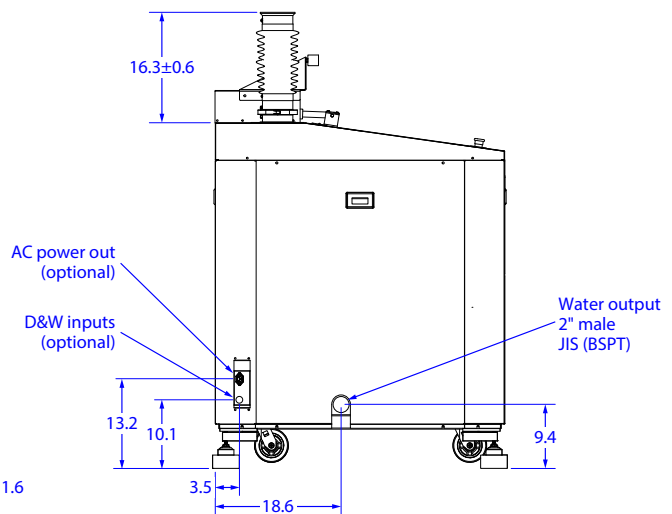
Front



Right



Back



Left



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