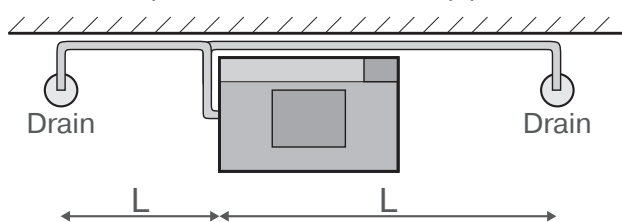


LCD-2000

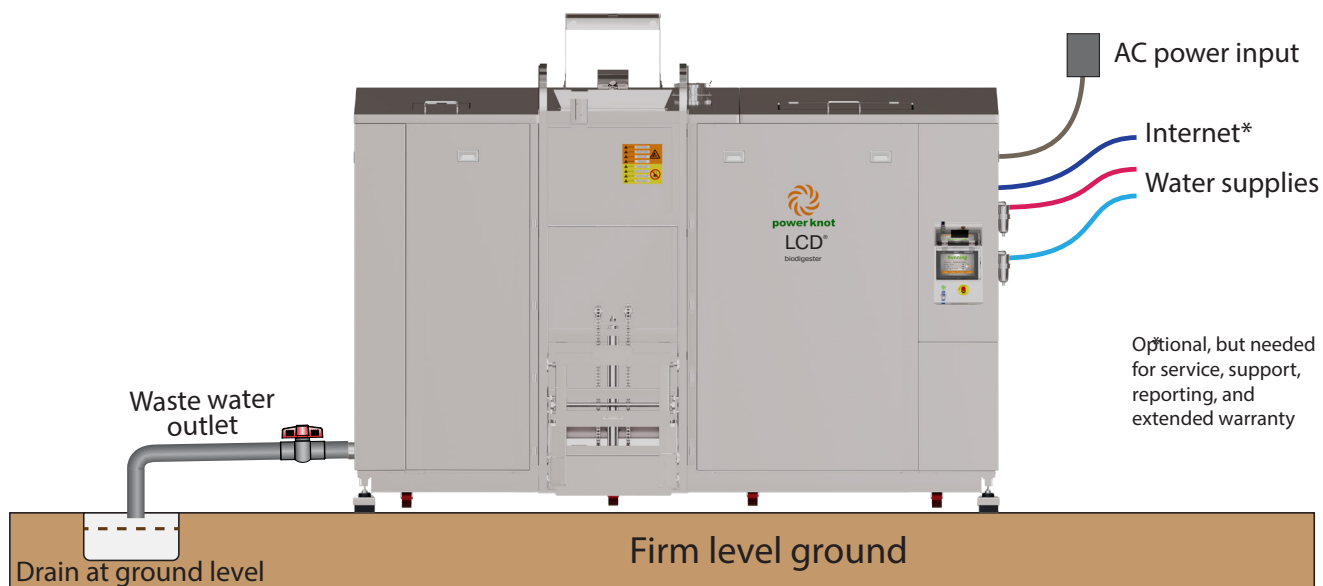
Biodigester



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



LCD-2000

Installation Requirements

Maximum capacity of cannabis waste

907 kg (2000 lb)
1193 litre (307 gallon)

Digestion of cannabis waste

317–2722 kg (700–6000 lb) per day typical

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

0–3000 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

±10 mm (0.4")

Weight when empty

5340 kg (11,775 lb) maximum

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

5340 kg (11,775 lb) maximum

Load and pressure per pad

950 kg (2100 lb) maximum
776 kPa (113 psi), maximum

Inlet port

DN 115 sanitary fitting; supplied with bellows terminated in DN 100 sanitary fitting. Relay output signals to host system capacity of LFC biodigester

Bin lifter and NFC cards

Maximum lift: 70 kg (155 lb)
Different models accept:
ANSI Z245.60 Type B (N. America)
24, 32, and 35 gallon roller bins
EN 840-1 Type b (rest of world)
60, 80, 120, and 140 litre wheelie bins
Bin lifter and automatic door are activated by an NFC card. Can use up to 100 different registered NFC cards

Space required around machine

Left side: 40 cm (16") minimum, 60 cm (24") preferred. 100 cm (39") is required for servicing
Right side: 40 cm (16") minimum, 60 cm

(24") preferred. 150 cm (60") is required for servicing

Back: 10 cm (4")

Front: 150 cm (60") minimum

Water inlets

Filters: filters are mounted on machine to remove particles

Fitting: DN 15 (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)

Hot: 45°C~80°C (113°F~176°F)

Cold: 5°C~45°C (41°F~113°F)

Water input per day

6000 litre (1600 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: 100 mm (4") minimum

Total water output per day

8000 litre (2100 gallon), typical

Flow rate of waste water out

40 l/min (11 gpm), maximum
5.6 l/min (1.5 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 cord

Length of cable: 300 cm (118")
Can wire directly (without a plug and socket)

AC power disconnect

Emergency switch at touch screen
Outlet must be accessible by operator and have a safety disconnect

Maximum ac power

4.9 kW

Electrical energy per day

29 kWh typical

Heat generated by digestion

2 kW ~ 8 kW, 4 kW 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)

Relay signals

SD13-3 connector to indicate LFC-1000 status to external equipment

Powerzyme

Microorganisms and enzymes

20 litre, included with initial purchase

Powerchips

Medium for microorganisms

2000 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

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

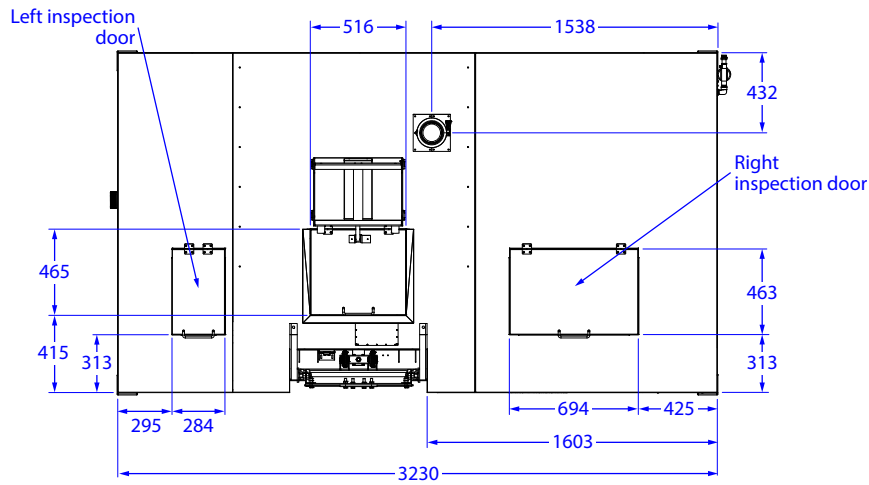
WEEE Directive: 2012 / 19 / EC



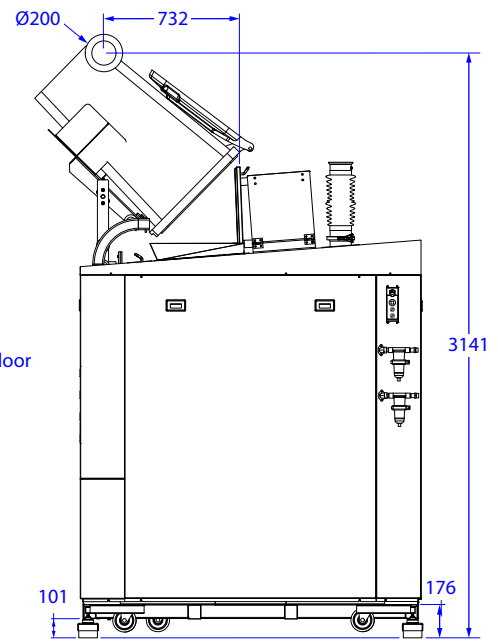
For complete details see User's Manual

LCD-2000

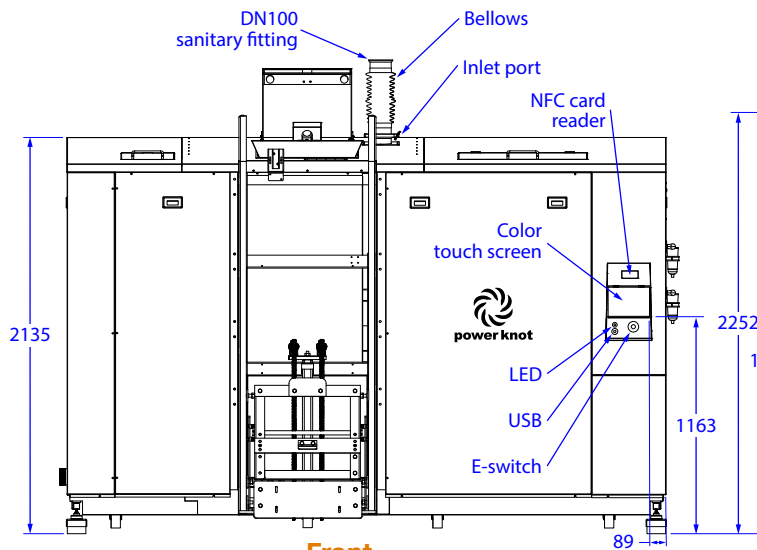
Dimensions in mm ± 2 mm



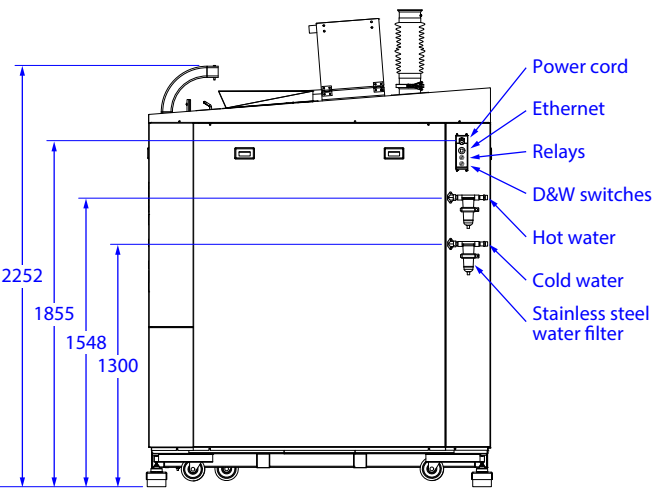
Top



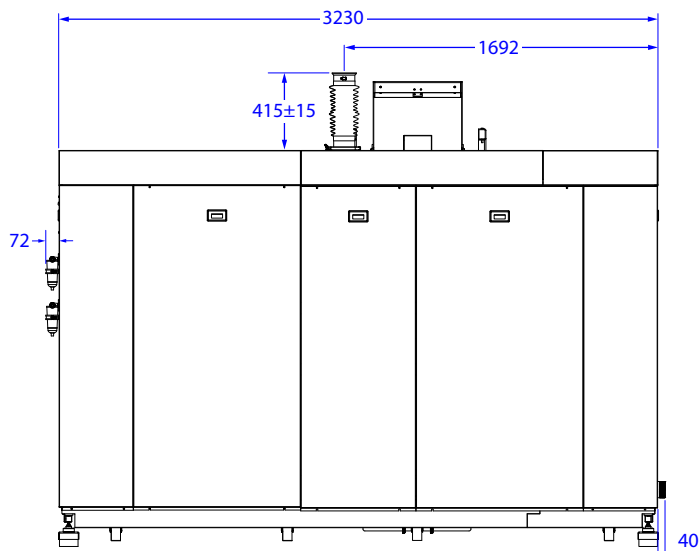
Right with door fully open



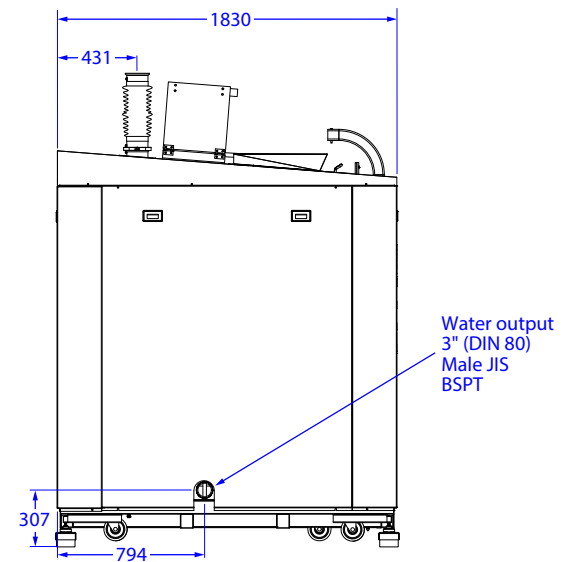
Front



Right



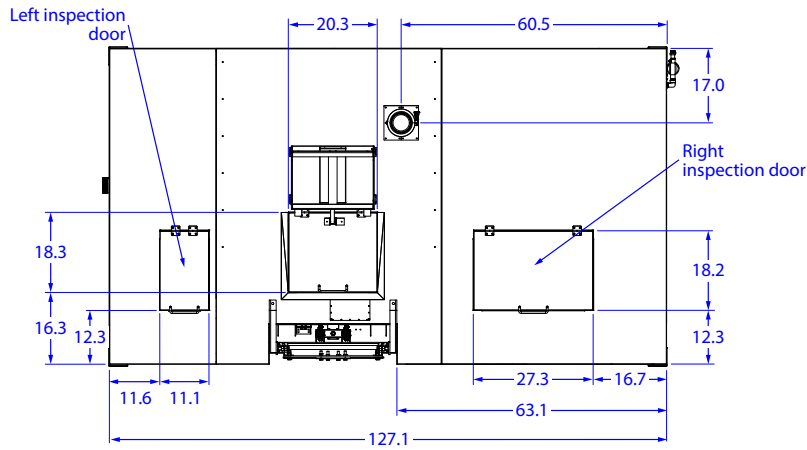
Back



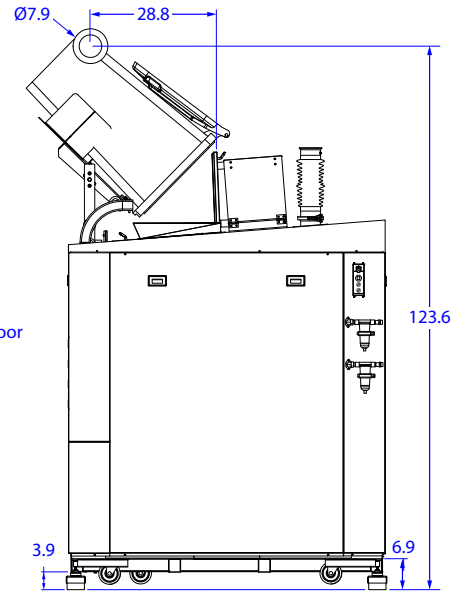
Left

LCD-2000

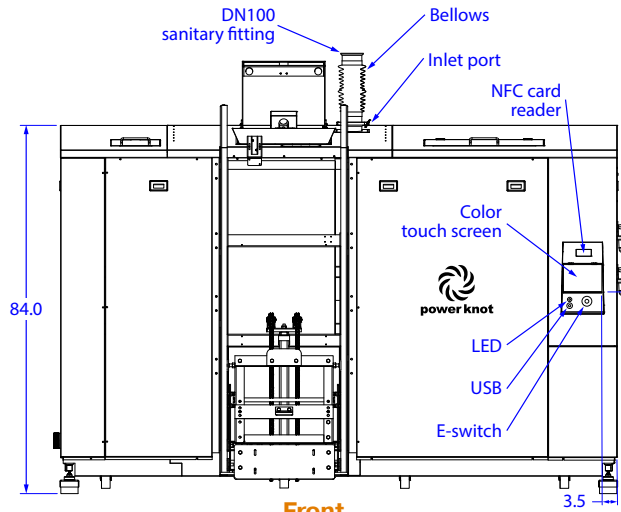
Dimensions in inches $\pm 0.1"$
(derived from mm)



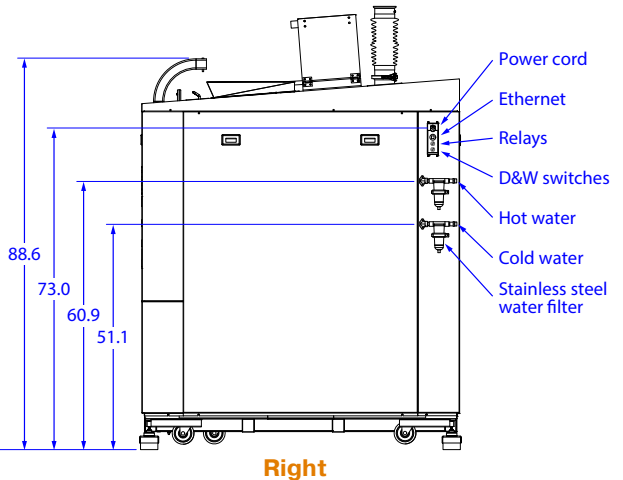
Top



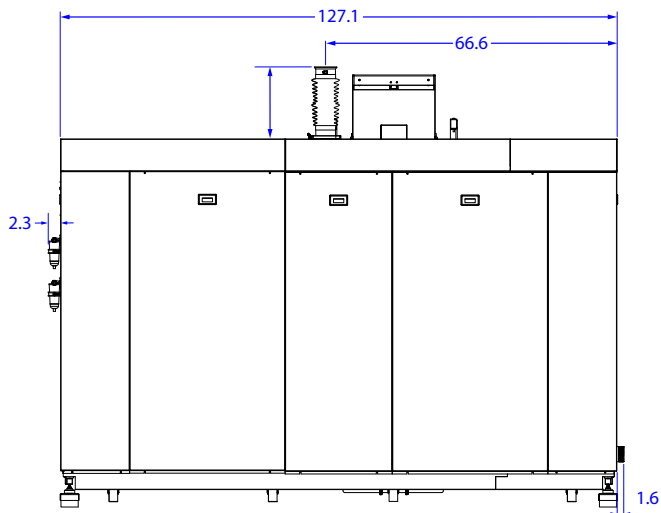
Right with door fully open



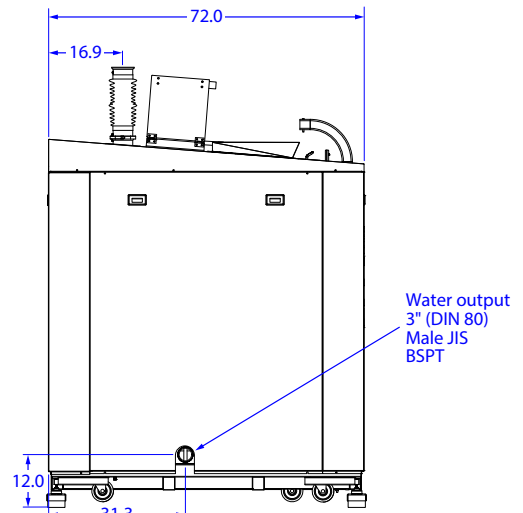
Front



Right



Back



Left



Power Knot LLC | 47613 Warm Springs Blvd | Fremont, CA 94539 USA | +1-408-889-8433 | info@pkicd.com | www.pkicd.com

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