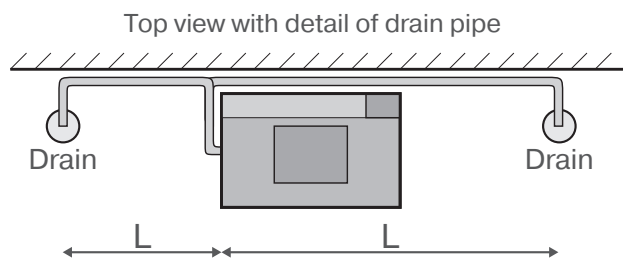


LCD-200

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-200

Installation Requirements

Maximum capacity of cannabis waste

91 kg (200 lb)
120 litre (31 gallon)

Digestion of cannabis waste

32–272 kg (70–600 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

0~3000 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

325 kg (720 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

625 kg (1380 lb) maximum

Load per pad

208 kg (460 lb) maximum

Pressure per pad

204 kPa (30 psi), maximum

Space required around machine

Left side: 20 cm (8") minimum, 50 cm (20") preferred. 100 cm (39") is required for servicing

Right side: 15 cm (6") minimum, 60 cm (24") preferred. 135 cm (53") 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~50°C (95°F~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

600 litre (158 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

800 litre (210 gallon), typical

Flow rate of waste water out

21 l/m (5.5 gpm), maximum
0.6 (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 cord

Length of cable on machine: 180 cm (6')

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.

Maximum power

1.0 kW

Electrical energy per day

6.6 kWh typical

Heat generated by digestion

200 W ~ 800 W, 400 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

2 litre, included with initial purchase

Powerchips

Medium for microorganisms

200 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

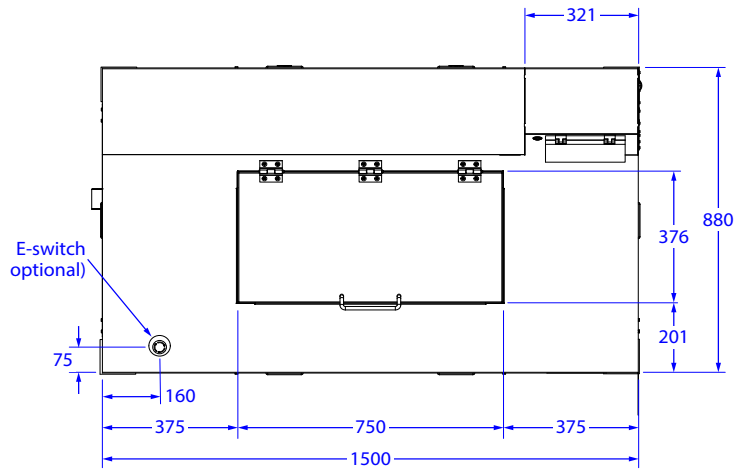
WEEE Directive: 2012 / 19 / EC



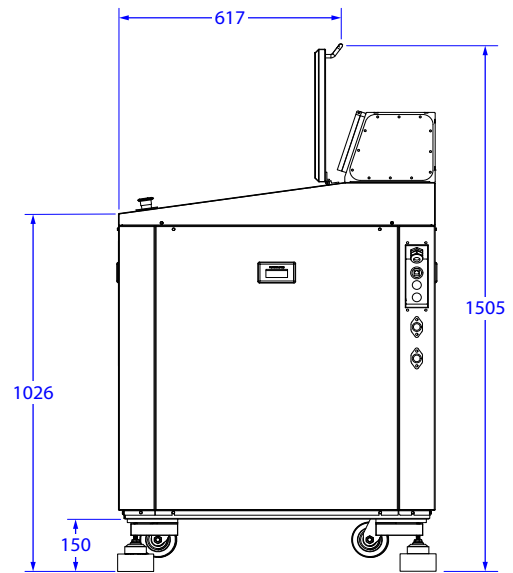
For complete details see User's Manual

LCD-200

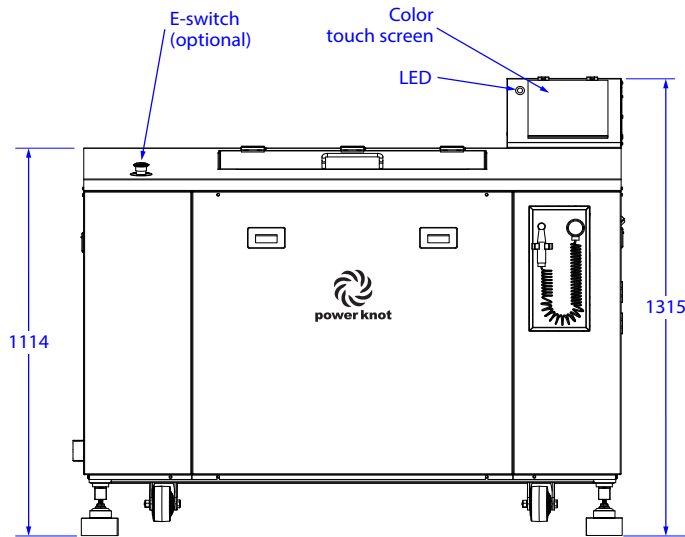
Dimensions in mm ± 2 mm



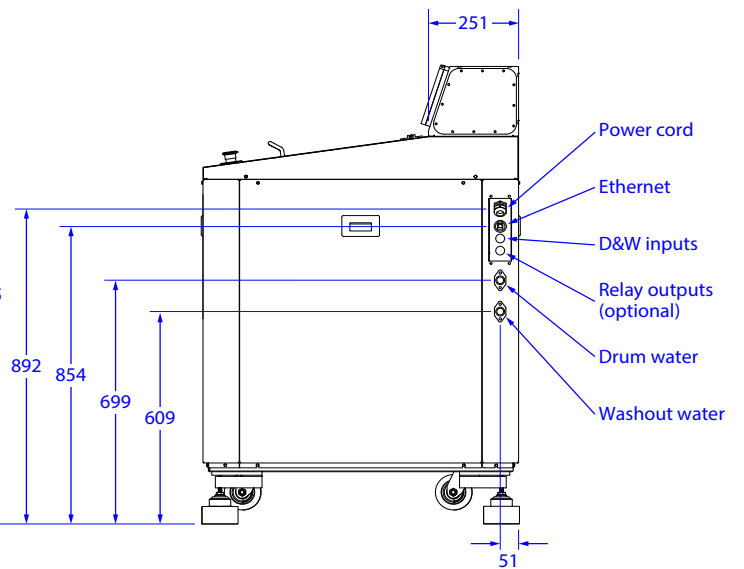
Top



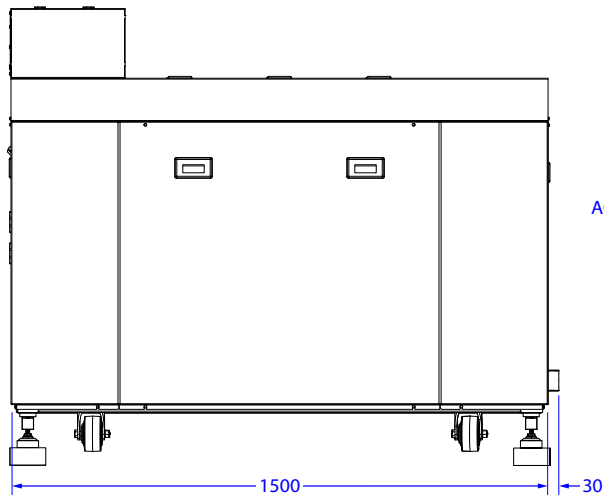
Right with door fully open



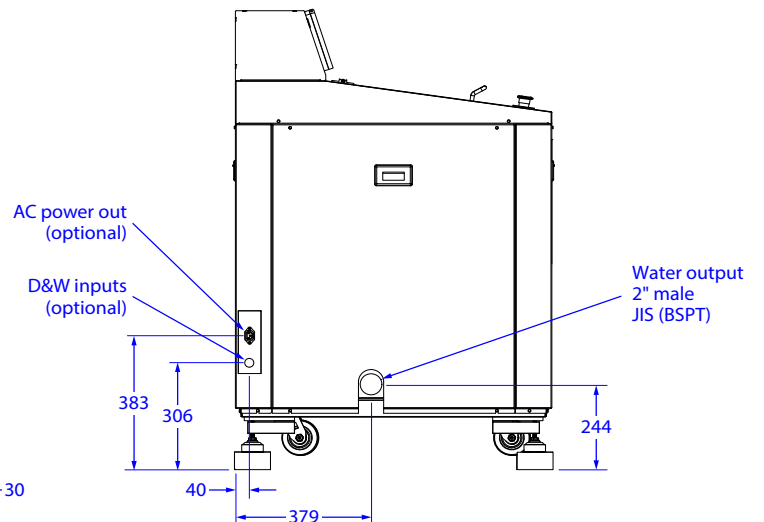
Front



Right



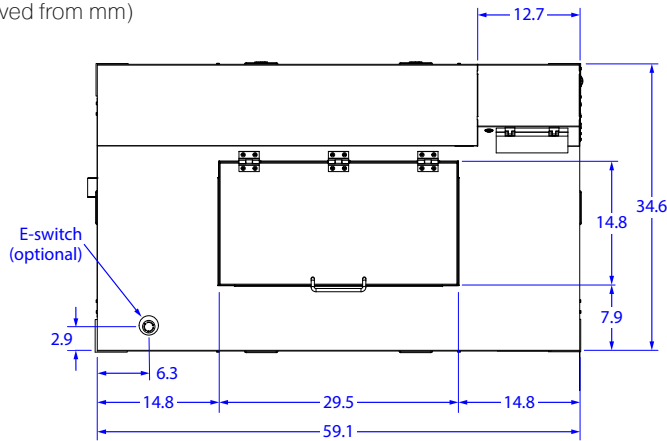
Back



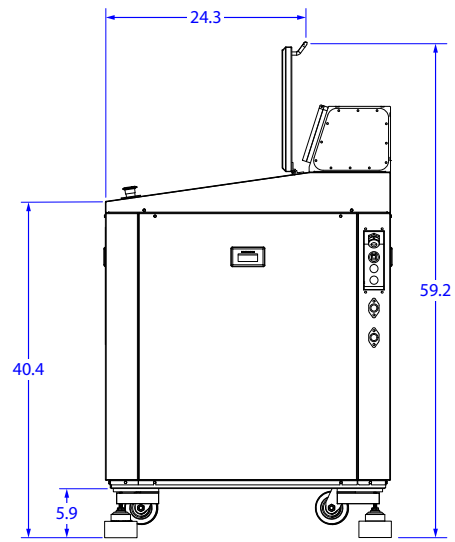
Left

LCD-200

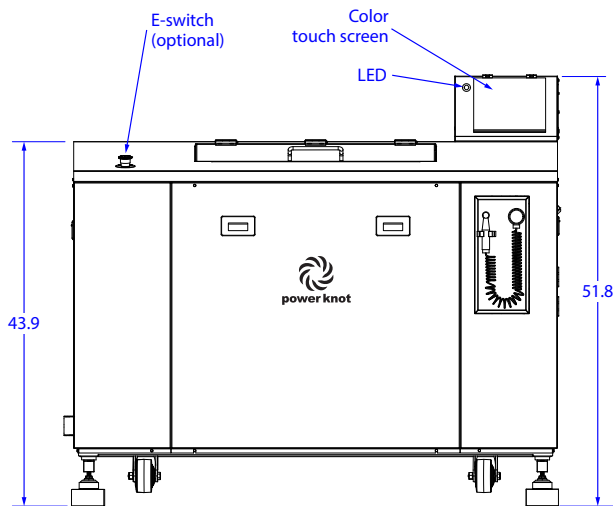
Dimensions in inches $\pm 0.1"$
(derived from mm)



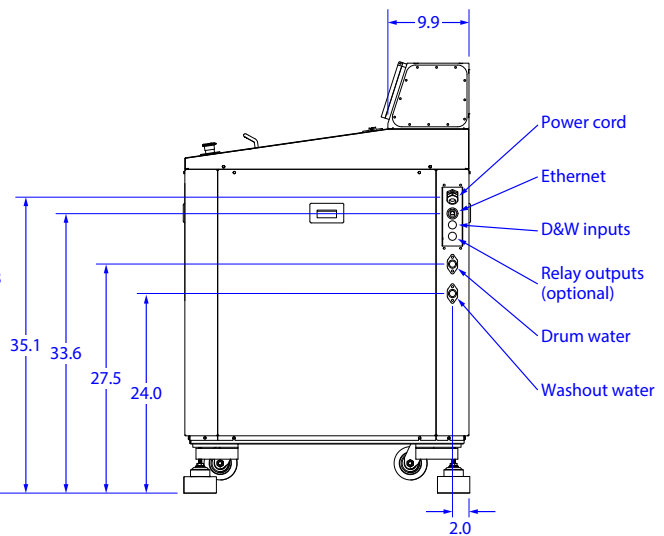
Top



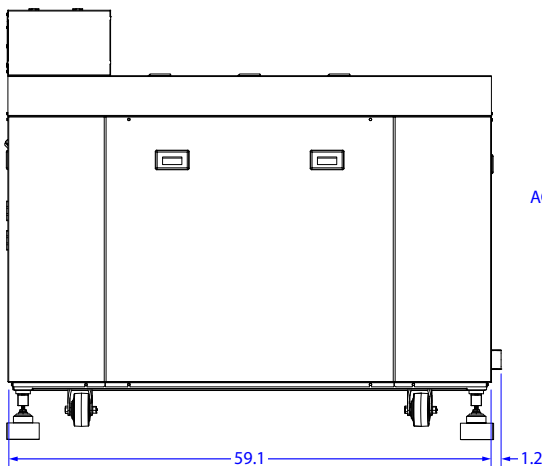
Right with door fully open



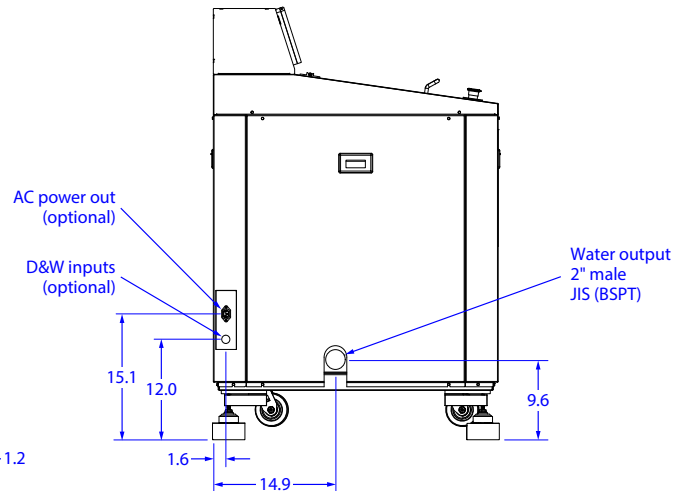
Front



Right



Back



Left



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