

Provectus Food Dehydration (PFD) System Specifications

NEW PROVECTUS MODEL SPECIFICATIONS (AS OF AUGUST 01, 2019)

NEW MODELS NOMENCLATURE	PPD- (50 KG)	PFD-100 (100 KG)	PFD-200 (200 KG)	PFD-300 (300 KG)	PFD-500 (410 KG)	PFD-500 AL + LIFT (410 KG)	PFD-700AL + LIFT (700 KG)	PFD-1000AL+ LIFT (1100 KG)
Cycle Period Per Load	6-11 hrs.	12-15 hrs.	13-18 hrs.	15-19 hrs.	17-22 hrs.	17-22 hrs.	18-23 hrs.	18-23 hrs.

NOTE: CYCLE TIMES WILL VARY FROM LOAD TO LOAD DEPENDING ON MOISTURE CONTENTS OF THE FOOD WASTE

MACHINE SPECIFICATIONS

Depth	1004mm 39 In	1204mm 47 In	1300 mm 51 In	1300 mm 51 In	1500mm 59 In	1500 mm 59 In	1620 mm 63 In	1800mm 70 In
Length/Width	1104/43"	1304/51"	1500/59"	1500/59"	1900/74"	2230/80"	2367/93"	2630/103"
Heights	1000/39"	1209/47"	1280/50"	1280/50"	1600/63"	1970/77"	2313/91"	2570/101"

NOTE: Height measurements of machine W/Auto is approximate depending on tote size/capacity when tote is lifted

Weight/Volume Reduction	80-90% NOTE: Weight capacity is subject to variations in organic waste content. Time cycles will vary from load to load depending on moisture content of food waste. The hydration process may produce 11-20 lbs. of sterile soil amendment per 100 lbs. waste (Approx).							
Electricity	220V/380V/440V/50/60 – HZ 1 Phase/3 Phase							
Power Usage	2.49 KW/h	6.06 KW/h	8.70 KW/h	11.54 kW/h	17.94 kW/h	17.94 kW/h	23.8 KW/h	33.91 Kw/h
Power Rated (220V)	3.56 kW	8.67 kW	12.44 kW	16.49 kW	25.63 kW	27.13 KW	35.43 KW	49.95 Kw/h
Amp (220V)	9.4 Amp	22.8 Amp	32.7 Amp	43.3 Amp	67.3 Amp	67.3 Amp	93.1 Amp	131.2 Amp
Av. Amp (70%) during operations	6.6 Amp	16.0 Amp	22.9 Amp	30.3 Amp	47.1 Amp	47.1 Amp	65.2 Amp	91.9 Amp
Ship Weight KG	400 KG	550 KG	790 KG	1100 KG	1100 KG	1300 KG	1800 KG	2000 KG
Ship Weight Lbs.	880 Lbs	1210 Lbs.	1240 Lbs.	2425 Lbs.	2425 Lbs.	2660 Lbs.	4000 Lbs.	4410 Lbs.

AMPERE CALCULATION-380V/50 Hz

Model	PFD 50	PFD 100	PFD 200	PFD 300	PFD 500	PFD 500 +Lift	PFD 700+ Lift	PFD 1000 + Lift
Capacity	50 KG	100 KG	200 KG	300 KG	500 KG	500 KG	700 KG	1100 KG
Oil Heater	3300Wx1	3300Wx2	3300Wx3	3300Wx4	3300Wx6	3300x6	3300x8	3300x12
Motor	210	400	750	1500	2200	2200	3700	3700
Air Heater	x	1500	1500	1500	1500x2	1500x2	1500x2	2000x2
Condenser	9x2	15x2	66x2	66x2	100x2	100x2	200x2	200x2
Blower	35	35	50	50	50x2	50x2	50x2	50x4
Pump	x	110x1	110x1	110x1	110x3	110x3	110x3	110x5
Auto Lift	x	x	x	x	x	1500	1500	1500
Total Watt	3.563w	8.675w	12.44w	16.492w	25.630w	27.130w	35.430	49.950
Max Amp=(Total Watt/380V/1.73)x1.1.1.1	6.0 amp	14.5 amp	20.8 amp	27.6 amp	42.9 amp	45.4 amp	59.3 amp	83.6 amp
Av. Amp (70%) during Operation	4.2 amp	10.2 amp	14.6 amp	19.3 amp	27.3 amp	31.8 amp	41.5 amp	58.5 amp

* Calculation above may differ depending on local electricity * 60Hz-10% * Specifications may change without prior notice.

PROVECTUS FEATURES & BENEFITS

FEATURES	BENEFITS
Programmable Logic Controller (PLC)	Digital Process Control System and Monitor
Motor Overload Sensor	Eliminates Jamming
Moisture Sensor (Instead of time operation)	Saves Electricity and Shuts Off when dry
Proprietary Cooling System	Macerates bulk foods and large produce
Paddle Shaft with Duel Blades	Fastest processing of any dehydrator in the market
Automatic Open & Close Hatch	Open to accept waste and closes afterwards
Automatic Bin/Tote Lifter	Hands free safe loading of food waste
Bin/Tote Counter	No overloading of the machine
Simple One Button Start/Stop/Load/Unload	User friendly with simple to understand instructions
Stainless Steel Body	Easy to clean and maintain
Air Tight Sealing	No leakage
Quiet Operation	Avoid noise pollution
Unique Heating System. No Venting	No surface too hot to touch
Output (Sterile Biomass and Condensate)	No pathogens, no BOD and no TSS
Enclosed Lifting Mechanisms	Machine safety cage keeps worker safe from moving parts
Discharge Safety Lock	Automatic shut off when discharge chutes are opened
Emergency Shut Off Button	Accessible to all users

