

PSI Waste Equipment Services, Inc.
 Typical Compactor Power Requirements
 For Inverter Branch Circuit Requirement See Next Page

Motor Size	Volts AC	NEC FLA	Typical FLA	Maximum Size Dual Elem Tme Delay Fuse.	Maximum Size Circuit Breaker	② Minimum Recommended Fuse/ Breaker	③ Minimum Recommended Wire Size (Copper, 60°C)	Minimum Size LT
3HP, 1Ph①	208	18.7	17	35	50	25	10	1/2"
3HP, 1Ph①	240	17	16	30	45	25	10	1/2"
3HP, 3Ph①	208	10.6	10	20	30	15	12	1/2"
3HP, 3Ph①	240	9.6	9	20	25	15	12	1/2"
3HP, 3Ph①	480	4.8	4.5	10	15	10	12	1/2"
5HP, 1Ph	208	30.8	22	60	80	40	8	3/4"
5HP, 1Ph	240	28	21	50	70	40	8	3/4"
5HP, 3Ph	208	16.7	15	30	45	25	10	1/2"
5HP, 3Ph	240	15.2	14	30	40	25	12	1/2"
5HP, 3Ph	480	7.6	7	15	20	15	12	1/2"
7.5HP, 1Ph①	208	44	44	80	110	60	6	3/4"
7.5HP, 1Ph①	230	40	40	70	100	50	6	3/4"
7.5HP, 3Ph①	208	24.2	24.2	45	70	35	8	3/4"
7.5HP, 3Ph①	230	22	22	40	60	30	10	1/2"
7.5HP, 3Ph①	460	11	11	20	30	15	12	1/2"
10HP, 1Ph	208	55	43	100	150	60	4	1"
10HP, 1Ph	230	50	40	90	125	60	6	3/4"
10HP, 3Ph①	208	30.8	30	60	80	40	6	1"
10HP, 3Ph①	230	28	28	50	70	40	8	3/4"
10HP, 3Ph①	460	14	14	25	35	20	12	1/2"
15HP, 3Ph	208	46.2	46.2	90	125	60	4	1"
15HP, 3Ph	230	42	42	80	125	60	4	1"
15HP, 3Ph	460	21	21	40	60	30	10	1/2"
20HP, 3Ph	208	59.4	59.4	110	150	80	3	1-1/4"
20HP, 3Ph	230	54	54	100	150	70	4	1"
20HP, 3Ph	460	27	27	50	70	35	8	3/4"
30HP, 3Ph	208	88	88	175	225	125	1/0	1-1/2"
30HP, 3Ph	230	80	80	150	200	110	1	1-1/2"
30HP, 3Ph	460	40	40	70	100	60	6	1"

① Many machine types that use this size motor also have competing models that use next larger size motor. If possible, on new circuits, we suggest sizing wire and disconnects to accommodate next larger motor. Size fuses and breakers according to actual motor size when equipment is finally selected. Otherwise make sure the machine you order is the horsepower you planned on.

② Breakers or fuses smaller than this may be problematic. Always use dual element time delay fuses. Classes RK1, RK5 or J are typical.

③ Recommended minimum wire size. Use larger size wire on longer runs to reduce voltage drop and improve performance and longevity.

Ground Wire Sizes

Breaker/ Fuse Amps	Min Gauge Ground
Up to 20	12
25 - 60	10
70 - 100	8
110 - 200	6
225 - 300	4

The above charts are for informational purposes only. All information is believed to be correct at the time of printing. Information is generic. If available, use information provided with the compactor you intend to install. User should consult a licensed electrician to verify all information prior to use. Wire sizes should be increased for longer runs. Disconnect should be within 25' AND visible from the power unit. A representative of the equipment provider should be consulted prior to deciding on the disconnect location. Contact equipment@psiwaste.com if you have any questions or to report inaccuracies.

PSI Waste Equipment Services, Inc. Fuji Inverter Panel Branch Circuit Requirements

The following information is specific to Fuji inverter panels provided by PSI Waste. Use Class J fuses to meet UL Listing and local code. For other inverter panels please see manufacturer's installation instructions.

Inverters convert incoming 1Ph power to 3Ph power to drive a 3Ph motor. Our inverter panels are UL Listed.

Motor Size	Volts AC	Incoming Power Amp Rating	Use Class J Fuse to Comply with UL Listing. Maximum Size.	Maximum Size Circuit Breaker	③ Minimum Wire Size (Copper, 75°C)	Minimum Size LT
3HP, 1Ph Inverter ①	208/240	24.8	50	50	10	1/2"
5HP, 1Ph Inverter	208/240	42.7	75	75	8	3/4"
7.5HP, 1Ph Inverter ①	208/240	60.7	100	100	6	3/4"
10HP, 1Ph Inverter	208/240	80	150	150	4	1
15HP, 1Ph Inverter	208/240	112	200	175	2	1

① Many machine types that use this size motor also have competing models that use next larger size motor. If possible, on new circuits, we suggest sizing wire and disconnects to accommodate next larger motor. Size fuses and breakers according to actual motor size when equipment is finally selected. Otherwise make sure the machine you order is the horsepower you planned on.

② Breakers or fuses smaller than this may be problematic.

③ Recommended minimum wire size. Use larger size wire on longer runs to reduce voltage drop and improve performance and

The above charts are for informational purposes only. User should consult a licensed electrician to verify all information prior to use. Disconnect should be within 25' AND visible from the power unit. A representative of the equipment provider should be consulted prior to deciding on the disconnect location. Contact equipment@psiwaste.com if you have any questions or to