

ELECTRICAL SPECIFICATIONS

Single-phase wiring						
Z25 (25 kg/hr nominal) ^{(3) (4)}						
Voltage L1 to Neutral [V]	100	120	208	220	240	277
Power [kW] ⁽¹⁾	2.2	2.2	3.0	3.0	3.0	3.0
Current at rated capacity [A] ⁽¹⁾	22.3	18.6	14.3	13.5	12.4	10.7
Breaker – C/D/J type [A] (125%) ⁽¹⁾	30	25	20	20	15	15
Z40 (40kg/hr nominal) ^{(3) (4)}						
Voltage L1 to Neutral [V]	100	120	208	220	240	277
Power [kW] ⁽¹⁾	3.6	3.6	4.8	4.8	4.8	4.8
Current at rated capacity [A] ⁽¹⁾	35.7	29.8	22.9	21.6	19.8	17.2
Breaker – C/D/J type [A] (125%) ⁽¹⁾	45	40	30	30	25	25
Z50 (50 kg/hr nominal) ^{(3) (4)}						
Voltage L1 to Neutral [V]	100	120	208	220	240	277
Power [kW] ⁽¹⁾	4.5	4.5	6.0	6.0	6.0	6.0
Current at rated capacity [A] ⁽¹⁾	44.6	37.2	28.6	27.0	24.8	21.5
Breaker – C/D/J type [A] (125%) ⁽¹⁾	60	50	40	35	35	30
Z100 (100 kg/hr nominal) ^{(2) (3) (4)}						
Voltage L1, L2, L3 to Neutral [V]	100	120	208	220	240	277
Power [kW] ⁽¹⁾	8.9	8.9	11.9	11.9	11.9	11.9
Current at rated capacity [A] ⁽¹⁾	29.8	24.8	19.1	18.0	16.5	14.3
Breaker – C/D/J type [A] (125%) ⁽¹⁾	40	35	35	25	25	20
Z150 (150 kg/hr nominal) ^{(2) (3) (4)}						
Voltage L1, L2, L3 to Neutral [V]	100	120	208	220	240	277
Power [kW] ⁽¹⁾	13.4	13.4	17.9	17.9	17.9	17.9
Current at rated capacity [A] ⁽¹⁾	44.6	37.2	28.6	27.0	24.8	21.5
Breaker – C/D/J type [A] (125%) ⁽¹⁾	60	50	40	35	35	30

Three phase wiring ⁽⁵⁾						
Z100 (100 kg/hr nominal) ⁽³⁾						
Three Phase Line to Line voltage [V]	173	208	360	380	415	480
Voltage L1, L2 or L3 to Neutral [V]	100	120	208	220	240	277
Power [kW] ⁽¹⁾	8.9	8.9	11.9	11.9	11.9	11.9
Current at rated capacity [A] ⁽¹⁾	29.8	24.8	19.1	18.0	16.5	14.3
Breaker - D/J type [A] (125%) ⁽¹⁾	40	35	35	25	25	20
Z150 (150 kg/hr nominal) ⁽³⁾						
Three Phase Line to Line voltage [V]	173	208	360	380	415	480
Voltage L1, L2 or L3 to Neutral [V]	100	120	208	220	240	277
Power [kW] ⁽¹⁾	13.4	13.4	17.9	17.9	17.9	17.9
Current at rated capacity [A] ⁽¹⁾	44.6	37.2	28.6	27.0	24.8	21.5
Breaker - D/J type [A] (125%) ⁽¹⁾	60	50	40	35	35	30

⁽¹⁾ Your exact conditions may result in different power and current.

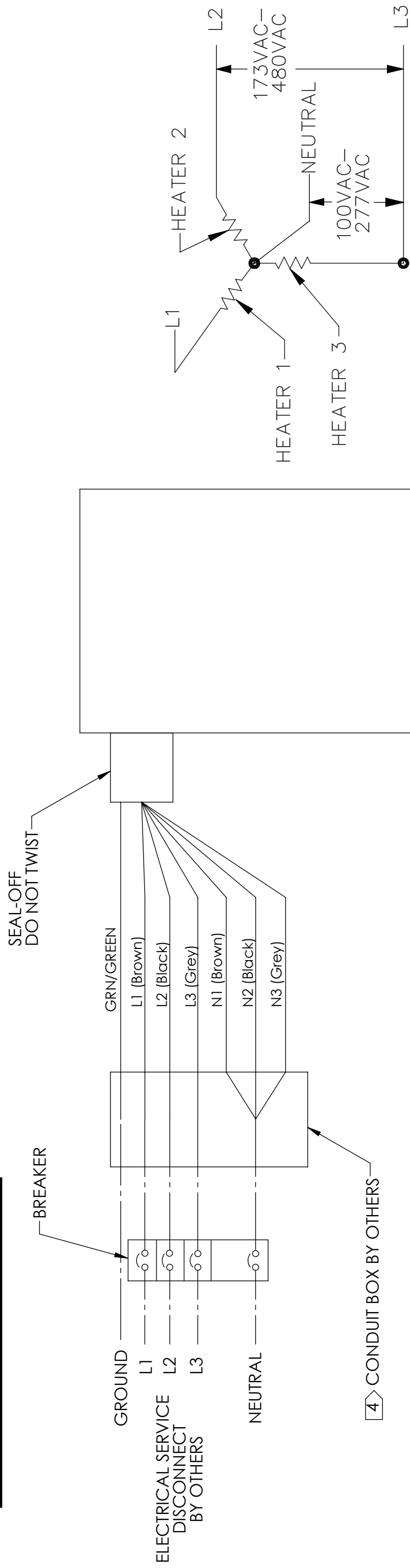
⁽²⁾ Requires three single-phase breakers, one for each leg (L1, L2, L3).

⁽³⁾ 25% capacity derate with 100VAC - 120VAC applied to each heater pocket.

⁽⁴⁾ NEVER apply more than 277 VAC when wired in single phase.

⁽⁵⁾ Use 4-Wire Wye Configuration (4 pole breaker)

3-PHASE WIRING SCHEMATIC WYE CONFIGURATION



ZIMMER VAPORIZER

		Drawn By: ASS
Tel: (206) 789-5410 Fax: (206) 789-5414		Checked By: RE
Part #		Approved By:
Job #		Date: 9/7/2018
Title: ZIMMER 100/150KG WIRING SCHEMATIC, 3 PHASE, 4 WIRE (Wye)		Scale: NO SCALE
Size: B		Job # ASDI STD
Dwg. # 0903-7002		Sht. No.: 1 of 3
Rev.: G		

- NOTE:
- FOR BREAKER SIZE, PLEASE REFERENCE THE ELECTRICAL SPECIFICATION IN THE OPERATIONS MANUAL.
 - LINE-TO-NEUTRAL VOLTAGE: 100VAC - 277VAC.
 - LINE-TO-LINE VOLTAGE: 173VAC-480VAC.
 - FOR JUNCTION BOX SIZING PLEASE REFERENCE THE ELECTRICAL SERVICE SECTION OF THE MANUAL.
 - HEATSHRINK ON WIRES CORRESPONDING TO HEATER NUMBERS.