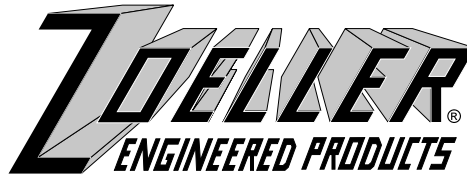


Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



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ZOELLER ENGINEERED PRODUCTS
NEMA 4X SIMPLEX & DUPLEX PANELS
 1 - 20 BHP



COMMERCIAL DUTY EJECTORS, SOLIDS HANDLING AND GRINDER PUMPS

HAZARDOUS ENVIRONMENT SERIES**
 (Class 1, Division 1, Group C & D)

- Commercial Effluent - Pg. 2
- Commercial Sewage - Pg. 3
- 61 HD Series - Pg. 6

Standard Features:

1. NEMA-4X Thermoplastic Enclosure
2. cULus Labeled
3. Input Power Terminal Block
4. Float Switch Terminal Block
5. Ground Lug
6. Control Side Fuses
7. Control On/Off Switch
8. Lockable Hasp
9. HOA Switch(es)
10. IEC Rated Motor Contactor(s)
11. 120 Volt Control Circuit or Transformer
12. Pump Circuit Breaker(s) or Motor Overload Protection w/ Disconnect (3 Phase and 61HD Series)
13. External High Water Alarm Light
14. Audible High Water Alarm Horn
15. Dry Auxilliary Contacts
16. Alarm Test and Silence Switch (Externally Mounted)
17. Green Pump Run Light(s)
18. Capacitors and Start Relay (1 Phase 61 HD Series)
19. Alternating Circuit Board (Duplex)
20. Float Status Indicator Lights

* Standard Options

Seal Fail Relay w/ Indication, Thermal Cutout Circuit(s), Intrinsically Safe Relays, Elapsed Time Meter(s), Event Counter(s), Flasher for High Water Alarm Light, Redundant Off, Inner Door, Lightning Arrestor, Anti-Condensation Heater, Manual Alarm Reset

* Consult Factory for Options Not Listed

- 62 HD Series - Pg. 6
- Grinder Pumps - Pg. 8

Standard Features:

1. NEMA-4X Thermoplastic Enclosure
2. cULus Labeled
3. Input Power Terminal Block
4. Float Switch Terminal Block
5. Ground Lug
6. Control Side Fuses
7. Control On/Off Switch
8. Lockable Hasp
9. HOA Switch(es)
10. IEC Rated Motor Contactor(s)
11. 120 Volt Control Circuit or Transformer
12. Pump Disconnect(s) and Motor Overload Protection (3 Phase, 61HD Series & 71 Series)
13. External High Water Alarm Light
14. Audible High Water Alarm Horn
15. Dry Auxilliary Contacts
16. Alarm Test and Silence Switch (Externally Mounted)
17. Green Pump Run Light(s)
18. Capacitors and Start Relay (Single Phase)
19. Alternating Circuit Board (Duplex)
20. Float Status Indicator Lights
21. Seal Fail Relay(s) w/ Indication Thermal Cut-out Circuit(s)

* Standard Options

Intrinsically Safe Relays, Elapsed Time Meter(s), Event Counter(s), Flasher for High Water Alarm Light, Redundant Off, Inner Door, Lightning Arrestor, Anti-Condensation Heater, Manual Alarm Reset

- Commercial Duty Ejectors - Pg. 4 & 5
- X61 HD and X62 HD Series - Pg. 7
- X71 Series Grinder Pumps - Pg. 8

Standard Features:

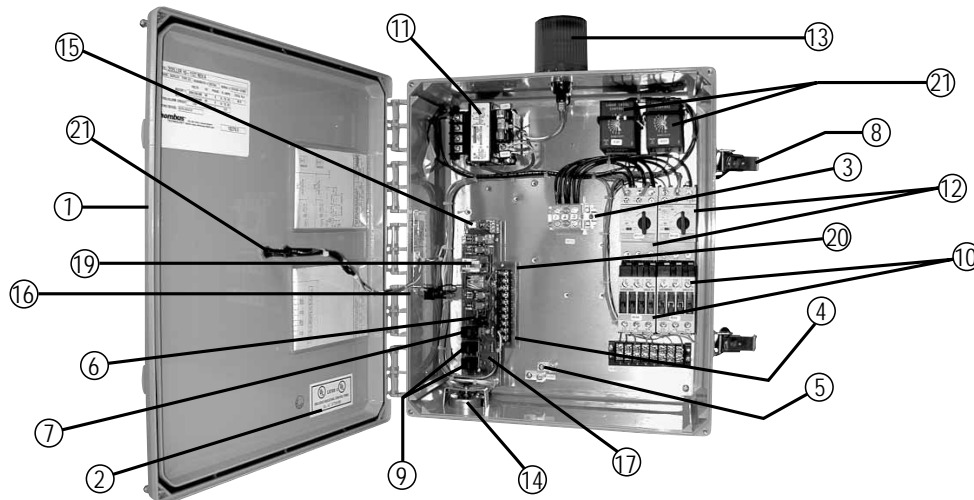
1. NEMA-4X Thermoplastic Enclosure
2. cULus Labeled
3. Input Power Terminal Block
4. Float Switch Terminal Block
5. Ground Lug
6. Control Side Fuses
7. Control On/Off Switch
8. Lockable Hasp
9. HOA Switch(es)
10. IEC Rated Motor Contactor(s)
11. 120 Volt Control Circuit or Transformer
12. Pump Circuit Breaker(s) or Motor Overload Protection w/ Disconnect
13. External High Water Alarm Light
14. Audible High Water Alarm Horn
15. Dry Auxilliary Contacts
16. Alarm Test and Silence Switch (Externally Mounted)
17. Green Pump Run Light(s)
18. Capacitors and Start Relay (1 Phase Models)
19. Alternating Circuit Board (Duplex)
20. Float Status Indicator Lights
21. Seal Fail Relay(s) w/ Indication, Thermal Cut-out Circuit(s), Intrinsically Safe Relays

* Standard Options

Elapsed Time Meter(s), Event Counter(s), Flasher for High Water Alarm Light, Redundant Off, Inner Door, Lightning Arrestor, Anti-Condensation Heater, Manual Alarm Reset

** Control Panel must be wired according to NEC and located outside the hazardous area.

TYPICAL DUPLEX CONTROL PANEL



NEMA 4X CONTROL PANELS^{1,2}
COMMERCIAL DUTY EFFLUENT EJECTORS
SINGLE PHASE

| PUMP DATA | | | | | | SIMPLEX | | | DUPLEX | | |
|--------------|-------|---------|-------|----------------|-----------------|-------------|----------------|-----------------------|-------------|----------------|-----------------------|
| Model Number | HP | Voltage | Phase | Full Load Amps | Panel Amp Range | Part Number | *Weight (lbs.) | *Dimensions H x W x D | Part Number | *Weight (lbs.) | *Dimensions H x W x D |
| N6161 | 1/2 | 115 | 1 | 15.5 | 15-20 | 10-1038 | 16 | 8" x 8" x 4" | 10-1045 | 19 | 12" x 10" x 6" |
| I6161 | 1/2 | 200 | 1 | 8.8 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| E6161 | 1/2 | 230 | 1 | 7.5 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| N6163 | 1/2 | 115 | 1 | 15.0 | 15-20 | 10-1038 | 16 | 8" x 8" x 4" | 10-1045 | 19 | 12" x 10" x 6" |
| I6163 | 1/2 | 200 | 1 | 8.5 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| E6163 | 1/2 | 230 | 1 | 7.5 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| I6165 | 1 | 200 | 1 | 12.6 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| E6165 | 1 | 230 | 1 | 10.2 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| I6185 | 1 | 200 | 1 | 11.5 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| E6185 | 1 | 230 | 1 | 9.8 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| E6186 | 1-1/2 | 230 | 1 | 13.7 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| I6188 | 1-1/2 | 200 | 1 | 16.8 | 15-20 | 10-1038 | 16 | 8" x 8" x 4" | 10-1045 | 19 | 12" x 10" x 6" |
| E6188 | 1-1/2 | 230 | 1 | 14.0 | 7-15 | 10-1037 | 16 | 8" x 8" x 4" | 10-1044 | 20 | 12" x 10" x 6" |
| I6189 | 2 | 200 | 1 | 20.5 | 20-30 | 10-1201 | 16 | 8" x 8" x 4" | 10-1046 | 19 | 12" x 10" x 6" |
| E6189 | 2 | 230 | 1 | 17.1 | 15-20 | 10-1038 | 16 | 8" x 8" x 4" | 10-1045 | 19 | 12" x 10" x 6" |

THREE PHASE

| PUMP DATA | | | | | | SIMPLEX ^{2,3} | | | DUPLEX ^{2,3} | | |
|--------------|-------|---------|-------|----------------|-----------------|------------------------|----------------|-----------------------|-----------------------|----------------|-----------------------|
| Model Number | HP | Voltage | Phase | Full Load Amps | Panel Amp Range | Part Number | *Weight (lbs.) | *Dimensions H x W x D | Part Number | *Weight (lbs.) | *Dimensions H x W x D |
| J6161 | 1/2 | 200 | 3 | 6.4 | 6.0-10.0 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| F6161 | 1/2 | 230 | 3 | 5.2 | 4.0-6.3 | 10-1080 | 17 | 12" x 10" x 6" | 10-1108 | 20 | 14" x 12" x 6" |
| G6161 | 1/2 | 460 | 3 | 2.9 | 2.5-4.0 | 10-1078 | 17 | 12" x 10" x 6" | 10-1106 | 20 | 14" x 12" x 6" |
| BA6161 | 1/2 | 575 | 3 | 2.4 | 1.6-2.5 | 10-1132 | 17 | 12" x 10" x 6" | 10-1154 | 20 | 14" x 12" x 6" |
| J6163 | 1/2 | 200 | 3 | 6.0 | 6.0-10.0 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| F6163 | 1/2 | 230 | 3 | 4.8 | 4.0-6.3 | 10-1080 | 17 | 12" x 10" x 6" | 10-1108 | 20 | 14" x 12" x 6" |
| G6163 | 1/2 | 460 | 3 | 2.9 | 2.5-4.0 | 10-1078 | 17 | 12" x 10" x 6" | 10-1106 | 20 | 14" x 12" x 6" |
| BA6163 | 1/2 | 575 | 3 | 2.4 | 1.6-2.5 | 10-1132 | 17 | 12" x 10" x 6" | 10-1154 | 20 | 14" x 12" x 6" |
| J6165 | 1 | 200 | 3 | 7.5 | 6.0-10 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| F6165 | 1 | 230 | 3 | 7.4 | 6.0-10 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| G6165 | 1 | 460 | 3 | 3.7 | 2.5-4.0 | 10-1078 | 17 | 12" x 10" x 6" | 10-1106 | 20 | 14" x 12" x 6" |
| BA6165 | 1 | 575 | 3 | 3.0 | 2.5-4.0 | 10-1134 | 17 | 12" x 10" x 6" | 10-1156 | 20 | 14" x 12" x 6" |
| J6185 | 1 | 200 | 3 | 7.5 | 6.0-10 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| F6185 | 1 | 230 | 3 | 7.4 | 6.0-10 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| G6185 | 1 | 460 | 3 | 3.7 | 2.5-4.0 | 10-1078 | 17 | 12" x 10" x 6" | 10-1106 | 20 | 14" x 12" x 6" |
| BA6185 | 1 | 575 | 3 | 3.3 | 2.5-4.0 | 10-1134 | 17 | 12" x 10" x 6" | 10-1156 | 20 | 14" x 12" x 6" |
| J6186 | 1-1/2 | 200 | 3 | 10.3 | 9.0-14.0 | 10-1083 | 17 | 12" x 10" x 6" | 10-1111 | 20 | 14" x 12" x 6" |
| F6186 | 1-1/2 | 230 | 3 | 9.2 | 6.0-10 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| G6186 | 1-1/2 | 460 | 3 | 4.6 | 4.0-6.3 | 10-1080 | 17 | 12" x 10" x 6" | 10-1108 | 20 | 14" x 12" x 6" |
| J6188 | 1-1/2 | 200 | 3 | 10.3 | 9.0-14.0 | 10-1083 | 17 | 12" x 10" x 6" | 10-1111 | 20 | 14" x 12" x 6" |
| F6188 | 1-1/2 | 230 | 3 | 8.9 | 6.0-10 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| G6188 | 1-1/2 | 460 | 3 | 4.6 | 4.0-6.3 | 10-1080 | 17 | 12" x 10" x 6" | 10-1108 | 20 | 14" x 12" x 6" |
| BA6188 | 1-1/2 | 575 | 3 | 3.5 | 2.5-4.0 | 10-1134 | 17 | 12" x 10" x 6" | 10-1156 | 20 | 14" x 12" x 6" |
| J6189 | 2 | 200 | 3 | 13.2 | 13.0-18.0 | 10-1084 | 17 | 12" x 10" x 6" | 10-1112 | 21 | 14" x 12" x 9" |
| F6189 | 2 | 230 | 3 | 11.2 | 9.0-14.0 | 10-1083 | 17 | 12" x 10" x 6" | 10-1111 | 20 | 14" x 12" x 6" |
| G6189 | 2 | 460 | 3 | 6.0 | 6.0-10.0 | 10-1082 | 17 | 12" x 10" x 6" | 10-1110 | 20 | 14" x 12" x 6" |
| BA6189 | 2 | 575 | 3 | 5.8 | 4.0-6.3 | 10-1136 | 17 | 12" x 10" x 6" | 10-1158 | 20 | 14" x 12" x 6" |

NOTES: (1) Single phase panels furnished with three (3) float switches with 20' cords.
(2) The above listed panels meet our standard configurations as listed. If any standard or nonstandard options are required, consult factory.
*Weights and dimensions are approximations and could vary.