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



SECTION: 5.10.010 FM0990 0914 Supersedes 0312

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 TEL: (502) 778-2731 • 1 (800) 928-PUMP • FAX: (502) 774-3624

Visit our website: zoellerpumps.com

* * * ATTENTION * * *

The attached is the Zoeller Sewage/Waste Pumping System start-up report. In coordination with Zoeller Pump Company, installing contractor, and start-up technician, this form shall be completed and the "File Copy" returned to Zoeller Pump Company. **Failure to do so will void the product's warranty.**

- Step # 1: Sections #I, #II, and #III should be reviewed and completed by the **installing contractor** before the scheduled start-up session begins.
- Step # 2: Schedule the start-up session with an authorized technician. With the installing contractor's assistance, the start-up technician should complete Section IV and V. Notes: (A) A means of supplying water to pit required.
 - (B) Qualified personnel are required to take electrical meter readings.
- Step # 3: The optional functional test listed in Section VI is highly recommended. The Flow Rate (GPM) can be determined by allowing the pump to run for a short period, and measuring the volume displacement, which is then converted to the flow rate for a one minute period. The System Head (TDH) usually has to be estimated by usage of manual calculations. Contact the Zoeller Technical Service Department for additional assistance.
- Step # 4: The start-up technician completes Section VII with any comments and the signing off of all those present during start-up.
- Step # 5: The start-up technician will distribute report copies. Mail white (file) copy to Zoeller Pump Company. Place the yellow (job site) copy in the owner's equipment file. The installing contractor puts the green (contractor's) copy in his job file. If the engineer is present during start-up, he is provided the pink (engineer's) copy, otherwise, mail the pink copy to Zoeller Pump Company.
- Step # 6: Zoeller Pump Company will review reported data. If any problems are found that should be corrected, the installing contractor, engineer, start-up technician, and local Zoeller Pump Company representative will be notified.

If the pink copy is returned to Zoeller Pump Company, it will be mailed to the engineer. Additional copies of this report will be made available to others by request.

* * * THANKS FOR YOUR ASSISTANCE * * *

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Float switches away from turbulence and hang-ups

Alarm respond properly to test - off - normal switch

Operator has installation and maintenance manual

Thermal overloads correctly set to match name plate amps

Low water level above volute top (#1 off switch)

Pumps respond properly to hand-off-auto switch

Panel matches pump horsepower

Operator has control panel schematic

Circuit breakers operational



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P/N 019559

Visit our website:

| Tag No. or Location I.D.: | | TEL: (502) 778-2731 • 1 (800) 928-PUMP • FAX: (502) 774-3624 START-UP REPORT | | | | zoellerpumps.com | |
|---|----|---|-------------|--------------------------------|-----------------|------------------|--|
| I. PROJECT INFORMATION - Completed by Installing Contractor JOB NAME: LocATION: Adverticly, Save ENGINEER: Imit Name Company's Name Company's Name START-UP: Company's Name Company's Name Company's Name START-UP: Company's Name START UP DATE: Company's Name III. EQUIPMENT INFORMATION - Completed by Installing Contractor START UP DATE: Company's Name III. EQUIPMENT INFORMATION - Completed by Installing Contractor Phase BHP RATED FLA PIN Model No: Phase Phase BHP RATED FLA PIN Model No: Wotage Phase Type Control Panet: RateD FLA Control Panet: Merideture Model No: Type Control Panet: RateD FLA Type Control Panet: | | | | | | | |
| JOB NAME: LOCATION: AddressClug/Bate ENGINEER: Pres Name INSTALLING Company's Name START-UP: Company's Name Company's Name AddressClug/Bate INSTALLATION DATE: Company's Name AddressClug/Bate INSTALLATION DATE: Company's Name AddressClug/Bate INSTALLATION DATE: Start UP DATE: AddressClug/Bate INSTALLATION DATE: Voltage (n) Date of Mig. Pump 1: Serial No. Pump 1: Voltage (n) Date of Mig. Pump 1: Pump Start Serial No. Pump 2: (n) Date of Mig. Pump 2: Outset Name Outset Name Control Panet: Manufacturer Made No. No Outset Name No Pump Mount: Rail Dremonse Additional Information: Outset Name Outset Name Outset Name No Installation Type: Dieled Sections of Name Dieled Name No No ELECTRICAL READINGS: No Single phase Nump Main Called Sections of Name No No ELECTRICAL READINGS: No Single phase Num phase Num phase Dinset Name | | ZOELLER SEWAGE/WAS | re p | UMPING SYSTEM | S JOB NO. | | |
| ENGINEER: Print Name INSTALLING START-UP: Company's Name INSTALLATION DATE: Company's Name PIN Model No: Voltage Serial No. Pump 1: (or) Date of Mig. Pump 1: Serial No. Pump 2: (or) Date of Mig. Pump 2: Control Panet: Mandature: Madel No: Type Basin: Descars Additional Information: Oasnity Basin: Descars Additional Information: Oasnity Pump Mount: Rail Chick States Type Viage Supply (Pump onf) Li-L2 V. Installation Type: Field Assembled Ore eack valve | Ι. | PROJECT INFORMATION - Completed by Installing Contractor | | | | | |
| START-UP: | | ENGINEER: INSTA | | LING | | | |
| START-UP: | | Firm's Name CON | CONTRACTOR: | | | | |
| INSTALLATION DATE: START UP DATE: II. EQUIPMENT INFORMATION - Completed by Installing Contractor Tag No. or Location 1.D.: PUMP NAMEPLATE DATA PN Model No.: Voltage Serial No. Pump 1: (or) Date of Mfg. Pump 1: Serial No. Pump 2: (or) Date of Mfg. Pump 1: Control Panel: Mendeatere Model No.: Mendeatere Model No.: Quartery Float Switches: Mendeatere Model No.: Quartery Basin: Omeneons Additional Information: Quartery Basin: Omeneons Additional Information: Quartery Installation Type: Field Assembled Pre Packaged Pump #1 Pump #2 Voltage supply (Pump off) L1-L2 V. L1-L2 V. Prince Phase: Pump #1 Pump #2 Voltage supply (Pump off) L1-L2 V. Panel securely installed Anps The Electrical connections installed Yotage supply (Pump off) L1-L2 V. Voltage supply (Pump off) L1-L2 V. L1-L2 V. Preserving connectoria in | | START-UP: | | | | | |
| Tag No. or Location I.D: PUMP NAMEPLATE DATA P/N Model No: Voltage Phase BHP RATED FLA Serial No. Pump 1: (or) Date of Mig. Pump 1: Date of Mig. Pump 2: Control Panet: Manufacturer Date of Mig. Pump 2: Date of Mig. Pump 2: Control Panet: Manufacturer Model No: Serial No. Basin: Dementors Additional Information: Ocuratity Basin: Dementors Additional Information: Ocuratity Pump Mount: Rail Pree Standing Supended Installation Type: Field Assembled Pre Packaged Pump #1 Pump #2 Voltage supply (Pump off) L1-L2 V. L1-L2 V. Installation Type: Field Assembled Pre packaged Voltage supply (Pump off) L1-L2 V. Installation Type: Field Assembled Pre packaged Notage supply (Pump off) L1-L2 V. Installation Type: Field Assembled Pre packaged Notage supply (Pump off) L1-L2 V. L1-L2 V. Short Circuit pro | | INSTALLATION DATE: STAR | TUP | | | | |
| P/N | | | | | | | |
| Serial No. Pump 1: | Г | | | | | | |
| (or) Date of Mfg. Pump 2: | | P/N Model No.: Voltage | | hase BHP ate of Mfg_Pump 1: | RATED FLA | | |
| Matulature Mode No. Sania No. Type Float Switches: Manufacturer Mode No. Sania No. Type Basin: | | Serial No. Pump 2: (or) | D | | | | |
| Float Switches: Manufacturer Model No. Outerity Basin: Dimensions Additional Information: Outerity Basin: Dimensions Additional Information: Outerity Pump Mount: Rail Free Standing Suspended Installation Type: Field Assembled Pre Packaged Installation Type: Field Assembled Pre Packaged Installation ordered before start-up by installing contractor. Impeller turns freely by hand V. ELECTRICAL READINGS: Pump rotation correct (3 phase 600 & 700 series only) Equipment in good condition Int-L2 V. Int-L2 V. Protections Access cover/Hatch Installed 3/16" vent hole drilled in discharge pipe Access cover/Hatch Installed Int-L2 V. Int-L3 V.< | | Control Panel: | Model | No. Serial No. | | Type | |
| Basin: Dimensions Additional Information: Pump Mount: Rail Free Standing Suspended Installation Type: Field Assembled Pre Packaged III. INSTALLER CHECKLIST - The following should be completed before start-up by installing contractor. SinGLE PHASE: Pump #1 Pump #2 Pump rotation correct (3 phase 600 & 700 series only) Equipment in good condition Pit Clean L1-L2 V. L1-L2 V. Check valve, discharge pipe, and vent pipe installed G/f* vent hole drilled in discharge pipe Access cover/Hatch Installed L1 A. L2 A. L2 A. L2 A. L2 V. L1-L2 | | Elect Switches | | | | | |
| Pump Mount: Rail Free Standing Suspended Installation Type: Field Assembled Pre Packaged III. INSTALLER CHECKLIST - The following should be completed before start-up by installing contractor. Pump rolation correct (3 phase 600 & 700 series only) ElseCTRICAL READINGS: Broughet turns freely by hand Pump rotation correct (3 phase 600 & 700 series only) Equipment in good condition Pump rotation correct (3 phase 600 & 700 series only) Li-L2 V. Li-L2 | | Pooin: Addition | Quantity | | | | |
| Installation Type: Field Assembled Pre Packaged III. INSTALLER CHECKLIST - The following should be completed before start-up by installing contractor. Single Phase: Pump #1 Pump #2 Importation correct (3 phase 600 & 700 series only) Equipment in good condition File (Lean Check valve, discharge pipe, and vent pipe installed Single phase starting capacitors installed Voltage supply (Pump on) L1-L2 V. L1-L2 V. Panel securely installed and electrical connections tight Single phase starting capacitors installed N THREE PHASE: Voltage Supply (Pump on) L1-L2 V. L1-L2 V. Proper wiring connected to controller Gage Length L1-L3 V. L1-L2 V. L1-L2 V. Float positions from bottom of pit #1 A L1 A L2 | | Dimensions | | | | | |
| III. INSTALLER CHECKLIST - The following should be completed before start-up by installing contractor. V ELECTRICAL READINGS: Impeller turns freely by hand Pump rotation correct (3 phase 600 & 700 series only) Quipment in good condition Pump rotation correct (3 phase 600 & 700 series only) Quipment in good condition L1-L2 V. L1-L2 V | | Pump Mount: □Rail □Free Standing □Suspended | | | | | |
| completed before start-up by installing contractor. Impeller turns freely by hand Pump rotation correct (3 phase 600 & 700 series only) Equipment in good condition Pit Clean L1-L2 V. L1-L2 V. Check valve, discharge pipe, and vent pipe installed 3/16" vent hole drilled in discharge pipe Access cover/Hatch Installed L1 A. L1 A. Panel securely installed in discharge pipe Access cover/Hatch Installed L1-L2 V. L1-L2 V. Single phase starting capacitors installed Mamp draw (Pump on) L1 A. L2 A. Proper wiring connected to controller Gage Length Voltage Supply (Pump on) L1-L2 V. L1-L2 V. Intermal overload protections Amps Voltage Supply (Pump on) L1 A. L2 A. Mreper wiring connected to controller Gage Length Vitore L1-L2 V. L1-L2 V. Mamp Draw (Pump on) L1 A. L1 A. L2 A. L2 A. L2 A. L2 V. L1-L2 V. L1-L2 V. L1-L2 V. < | | Installation Type: Field Assembled Pre Packaged | | | | | |
| Impeller turns freely by hand Voltage supply (Pump off) L1-L2 V. L1-L2 V. Pump rotation correct (3 phase 600 & 700 series only) Equipment in good condition Voltage supply (Pump off) L1-L2 V. L1-L2 V. Pit Clean Check valve, discharge pipe, and vent pipe installed 3/16" vent hole drilled in discharge pipe Access cover/Hatch Installed L1 A. L1 A. L2 A. Panel securely installed and electrical connections tight Single phase starting capacitors installed Voltage Supply (Pump on) L1-L2 V. L1-L2 V. Proper wiring connected to controller GageLength L1-L3 V. L1-L2 V. L1-L2 V. #1< | | . INSTALLER CHECKLIST - The following should be | V. | ELECTRICAL READ | INGS: | | |
| Pump rotation correct (3 phase 600 & 700 series only) Equipment in good condition Pit Clean Check valve, discharge pipe, and vent pipe installed 3/16" vent hole drilled in discharge pipe Access cover/Hatch Installed Panel and internal wiring securely installed Woltage supply (Pump on) L1-L2 V. <p< td=""><td>_</td><td></td><td></td><td>SINGLE PHASE:</td><td></td><td></td></p<> | _ | | | SINGLE PHASE: | | | |
| Equipment in good condition Voltage supply (Pump on) L1-L2 V. L1-L2 V. Prit Clean Check valve, discharge pipe, and vent pipe installed Access cover/Hatch Installed Access cover/Hatch Installed and electrical connections tight Single phase starting capacitors installed L1 A. L1 A. Short circuit protections | | | | Voltage supply (Pump off) | L1-L2V. | L1-L2V. | |
| Check valve, discharge pipe, and vent pipe installed 3/16" vent hole drilled in discharge pipe Access cover/Hatch Installed Panel securely installed and electrical connections tight Single phase starting capacitors installed Short circuit protections Thermal overload protections Proper wiring connected to controller Gender Milled #1in. #2in. #3_16" vent hole drilled in discharge pipe Controller Gender Milled Gender Milled Mamp draw (Pump on) L1 L2 L2 L1 L2 L1 L2 L2 L2 L1 L2 L1 L2 L2 L1 L2 L1 L2 L2 L2 L2 L2 L1 L2 L2 L1 L2 L2 L1 L2 L1 L2 L2 L1 L2 L1 L2 L1 L2 L1 L2 L1 L2 L1 L2 L2 L2 L2 L2 L2 L2 L2 L2 L3 L2 L2 | | Equipment in good condition | | Voltage supply (Pump on) | L1-L2V. | L1-L2V. | |
| 3/16' vent hole drilled in discharge pipe Access cover/Hatch Installed Panel securely installed and electrical connections tight Single phase starting capacitors installed Short circuit protections | | | | Amp draw (Pump on) | L1A. | L1A. | |
| Access cover/natch installed Panel securely installed and electrical connections tight Single phase starting capacitors installed Short circuit protectionsAmps Thermal overload protectionsAmps Proper wiring connected to controllerGageLength Float positions from bottom of pit #1in. #2in. #4in. (Alarmioverride) Woltage Supply (Pump on) L1-L2V. L1-L3V. L1-L2V. L1-L3V. L1-L2V. L1-L3V. L1-L2V. L1-L3V. L1-L2V. L2-L3V. L1-L2V. L2-L3V. L1-L2V. L2-L3V. L1-L2V. L2-L3V. L1-L2V. L1-L3V. <l< td=""><td></td><td></td><td></td><td></td><td></td><td>L2A.</td></l<> | | | | | | L2A. | |
| Partiel securely installed and electrical connections tight Single phase starting capacitors installed Short circuit protections Amps Thermal overload protections Amps Proper wiring connected to controller Gage_length Float positions from bottom of pit 1-L-2 V. #1in. #2-L3 V. (off) (mamoverride) In. (off) (mamoverride) (mamoverride) Discharge pipe installed. in. Discharge pipe installed. in. (off) Vent pipe installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed I certify this start-up report to be accurate: | | | | | L1-L2V. | L1-L2V. | |
| Short circuit protectionsAmps Thermal overload protectionsAmps Proper wiring connected to controllerGageLength Float positions from bottom of pit #1in. #2in. #3in. #4in. IV. START-UP VERIFICATION LIST To be check by the start up technician with installers assistance. Discharge pipe installedin. Vent pipe installedin. Check Valve installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed Valtage Supply (Pump on) U-L2_U. U-L2_U. U.1-L3_V. <li< td=""><td></td><td></td><td></td><td>o, (</td><td>L2-L3V.</td><td>L2-L3V.</td></li<> | | | | o , (| L2-L3V. | L2-L3V. | |
| Proper wiring connected to controllerGageLength Float positions from bottom of pit #1in. #2in. #3in. #4in. (alarm/override) #1. IV. START-UP VERIFICATION LIST To be check by the start up technician with installers assistance Discharge pipe installedin. Vent pipe installedin. Check Valve installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed | | Short circuit protections Amps | | | | | |
| Float positions from bottom of pit #1in. #2in. #3in. #4in. W. START-UP VERIFICATION LIST To be check by the start up technician with installers assistance. Discharge pipe installedin. Vent pipe installedin. Check Valve installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed | | Thermal overload protectionsAmps | | Voltage Supply (Pump on) | L2-L3V. | L2-L3V. | |
| #1in. #2in. #3in. #4in. IV. START-UP VERIFICATION LIST Amp Draw (Pump on) L1 A. L2 A. Discharge pipe installed. in. K FUNCTIONAL TEST P1GPM@' TDH Other Vert pipe installed. in. P1GPM@' TDH Other Vert pipe installed. in. P1GPM@' TDH Other Vert pipe installed in correct location and direction 3/16" vent hole drilled in discharge pipe YI. Pit clean COMMENTS: | | | | | L1-L3V. | L1-L3V. | |
| IV. START-UP VERIFICATION LIST To be check by the start up technician with installers assistance. Discharge pipe installed. With vent pipe installed. Check Valve installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed | | #1in. #2in. #3in. #4in. | | Amp Draw (Pump on) | L1A. | L1A. | |
| To be check by the start up technician with installers assistance. Discharge pipe installedin. Vent pipe installedin. Check Valve installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed VI. FUNCTIONAL TEST P1GPM@' TDH P2GPM@' TDH P1GPM@' TDH P2GPM@' TDH P1GPM@' TDH P1GPM@' TDH P2GPM@' TDH P1GPM@' TDH P2GPM@' TDH P1GPM@' TDH P2GPM@ TDH P1GPM@' TDH P1GPM@ TDH P2GPM@ TDH P1GPM@ TDH P2GPM@ TDH P1GPM@ TDH P2GPM@ TDH P1GPM@ TDH P1GPM@ TDH P2GPM@ TDH P1GPM@ TDH P2GPM@ TDH P1GPM@ TDH P1GPM@ TDH P2GPM@ TDH P1GPM@ TDH P1GPM@ | IV | | | | | | |
| Discharge pipe installedin. Vent pipe installedin. Check Valve installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed Panel and junction box interior dry & sealed Panel and junction box interior dry & sealed | | | VI. | FUNCTIONAL TEST | 20 | | |
| Check Valve installed in correct location and direction 3/16" vent hole drilled in discharge pipe Pit clean Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed | | 0 1 1 | | | | | |
| COMMENTS: | | | | | P2GPM | @' TDH | |
| Access opening large enough for pump removal Panel and internal wiring securely installed Panel and junction box interior dry & sealed I certify this start-up report to be accurate: | | 0 1 1 | | | | | |
| Panel and internal wiring securely installed Panel and junction box interior dry & sealed I certify this start-up report to be accurate: | | | | | | | |
| | | Panel and internal wiring securely installed | | | | | |
| | | | | I certity this start-up report | to be accurate: | | |

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