

# SPECIFICATIONS - SINGLE PHASE PUMPS: LB • HS(Z) • HSE • HSD

|                        | LB-480  | LB-480A   | LB-800                            | LB-800A                           | LB-1500                           | HS2.4S                                    | HSZ2.4S                 | HS2.75S                            | HSZ2.75S                 | HS3.75S                            | HSZ3.75S                       | HS3.75SL                             | HSZ3.75SL          | HSE2.4S                                    | HSD2.55S                          |                          |            |             |           |  |
|------------------------|---|---|-----------------------------------|-----------------------------------|-----------------------------------|---|-------------------------|------------------------------------|--------------------------|------------------------------------|--------------------------------|--------------------------------------|--------------------|--|-----------------------------------|--------------------------|------------|-------------|-----------|--|
|                        | 2" Dewatering Pump                            | 2" Auto Dewatering Pump   | 2" Slimline Pump                  | 2" Auto Slimline Pump             | 3" Slimline Pump                  | 2" Sand/Solid Trash Pump                  | 2" Auto Trash Pump      | 2" Sand/Solid Trash Pump           | 2" Auto Trash Pump       | 3" Sand/Solids Trash Pump          | 3" Auto Trash Pump             | 3" Sand/Solids Trash Pump            | 3" Auto Trash Pump | 2" Trash Pump with Auto Water Level Sensor | 2" Extreme Durable Sand Pump      |                          |            |             |           |  |
| <b>FLUID</b>           | Max. Capacity (GPM)                           | 62.4  |                                   | 82                                |                                   | 111                                       |                         | 53                                 |                          | 55                                 |                                | 61                                   |                    | 132  |                                   |                          |            |             |           |  |
|                        | Max. Head (ft.)                               | 39.5  |                                   | 59                                |                                   | 69  |                         | 39                                 |                          | 62                                 |                                | 62                                   |                    | 36   |                                   |                          |            |             |           |  |
|                        | Solid Diameter (in.)                          | 0.236   |                                   |                                   |                                   |   | 0.276                   |                                    |                          |                                    |                                | 0.393                                |                    |  |                                   |                          |            |             |           |  |
| <b>PUMP</b>            | Impeller                                      | Semi-Vortex   |                                   |                                   | Semi-Open                         |   | Semi-Vortex             |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Impeller Material                             | Urethane Rubber   |                                   |                                   | High Chrome                       |   | Urethane Rubber         |                                    |                          |                                    |                                |                                      |                    | High Chrome                                |                                   |                          |            |             |           |  |
|                        | Casing Material                               | Ethylene Propylene Rubber   |                                   | Butadiene Rubber & Natural Rubber |                                   | Butadiene Rubber & Natural Rubber & Steel |                         | Gray Iron Casing                   |                          |                                    |                                |                                      |                    |  | Ductile Iron Casing               |                          |            |             |           |  |
|                        | Wear Plate Material                           | Urethane Rubber   |                                   |                                   | Natural Rubber                    |   | Integral Part of Casing |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Shaft Seal - Type / Material                  | Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals |                                   |                                   |                                   |   |                         |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Seal Lubricant - Type                         | SAE 10W/20W or Turbine Oil (ISO VG32)   |                                   |                                   |                                   |   |                         |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Seal Lubricant Amount (oz.)                   | 5.2   |                                   |                                   |                                   |   | 12.5                    |                                    | 5.4                      |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Seal Protection                               | V-Ring and Oil Lifter   |                                   |                                   |                                   |   |                         |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Discharge Connection                          | 2" MNPT Coupling  |                                   |                                   | 3" MNPT Coupling (2" is optional) |   | 2" MNPT Coupling        |                                    | 2" MNPT Coupling         |                                    | 3" MNPT Coupling (2" optional) |                                      | 3" MNPT Coupling   |  | 2" MNPT Coupling                  |                          |            |             |           |  |
| <b>MOTOR</b>           | Motor Output (HP)                             | 2/3   |                                   | 1                                 |                                   | 2   |                         | 1/2                                |                          | 1                                  |                                | 1                                    |                    | 1  |                                   | 1/2                      |            | 3/4         |           |  |
|                        | Phase   | Single Phase  |                                   |                                   |                                   |   |                         |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Voltage (V)                                   | 115 or 220  |                                   | 115                               |                                   | 115 or 230                                |                         | 115 or 220                         |                          | 115                                |                                | 115 or 230                           |                    | 115  |                                   | 115                      |            |             |           |  |
|                        | Amperage - Rated Current                      | 5.9 (115V)<br>3.0 (220V)  |                                   | 5.9 (115V)                        |                                   | 10.5 (110V)<br>5.2 (230V)                 |                         | 26.2 (115V)<br>13.2 (230V)         |                          | 5.2 (110V)<br>2.7 (220V)           |                                | 10.0 (115V)                          |                    | 9.7 (115V)<br>4.9 (230V)                   |                                   | 5.2 (115V)               |            | 7.3 (115V)  |           |  |
|                        | Amperage - Starting Current                   | 12.4 (115V)<br>5.9 (220V)   |                                   | 12.4 (115V)                       |                                   | 20.6 (110V)<br>12.6 (230V)                |                         | 112 (115V)<br>56 (230V)            |                          | 12.4 (110V)<br>5.9 (220V)          |                                | 29.7 (115V)                          |                    | 29.7 (115V)<br>18.5 (230V)                 |                                   | 12.4 (115V)              |            | 19.0 (115V) |           |  |
|                        | Type  | Continuous Duty, Air Filled, 3600 RPM, 60Hz   |                                   |                                   |                                   |   |                         |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Bearings                                      | Double shielded, permanently lubricated, high-temp C3 with B-10 life of 60,000 hours                            |                                   |                                   |                                   |   |                         |                                    |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Insulation Class                              | E   |                                   |                                   |                                   | B   |                         | E                                  |                          |                                    |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Motor Protection (Built-In)                   | Miniature Protector   |                                   | Circle Thermal Protector          |                                   |   | Miniature Protector     |                                    | Circle Thermal Protector |                                    |                                |                                      |                    | Miniature Protector                        |                                   | Circle Thermal Protector |            |             |           |  |
|                        | Plug Configuration (Nema)                     | 5-15P (115V) No Plug (220V)   |                                   | 5-15P (115V) No Plug (230V)       |                                   | No Plug                                   |                         | 5-15P (115V) No Plug (220V)        |                          | 5-15P (115V) No Plug (230V)        |                                |                                      |                    |  |                                   |                          |            |             |           |  |
|                        | Cable - # of Conductors x AWG                 | 3C x 16AWG  |                                   | 3C x 14AWG                        |                                   | 3C x 12AWG (110V)<br>3C x 12AQG (230V)    |                         | 3C x 16AWG                         |                          | 3C x 14AWG                         |                                |                                      |                    |  | 3C x 16AWG                        |                          |            |             |           |  |
|                        | Standard Cable Length (ft.)                   | 32  |                                   | 50                                |                                   |   |                         | 20                                 |                          | 32                                 |                                |                                      |                    |  |                                   | 32                       |            | 32          |           |  |
|                        | Max. Cable Length (ft.)                       | 110 (115V)<br>420 (220V)  |                                   | 110 (115V)                        |                                   | 100 (115V)<br>400 (230V)                  |                         | 70 (115V)<br>160 (230V)            |                          | 125 (115V)<br>460 (220V)           |                                | 100 (115V)<br>430 (230V)             |                    |  |                                   |                          | 120 (115V) |             | 90 (115V) |  |
|                        | Recommended Generator Capacity (watts)        | 2700  |                                   | 4600                              |                                   | 8400                                      |                         | 2400                               |                          | 3700                               |                                |                                      |                    |  |                                   | 2400                     |            | 2900        |           |  |
|                        | Optional Float Switch                         | TS-301  | N/A                               | TS-302 (110V)<br>TS-303 (230V)    | N/A                               | TS-303 (230V operation only)              | TS-301 (110V)           | N/A                                | TS-302                   | N/A                                | TS-302                         | N/A                                  | TS-302             | N/A  | N/A                               | N/A                      | TS-301     |             |           |  |
| <b>DIMENSION</b>       | Diameter (in.)                                | 7 3/8   | 8 3/4                             | 7 9/16                            | 8 3/4                             | 7 3/8                                     | 10 1/16                 | 13 1/2                             | 11 7/16                  | 13 1/2                             | 12 7/16                        | 14 9/16                              | 12 7/16            | 15 3/4                                     | 10 1/16                           | 10 3/8                   |            |             |           |  |
|                        | Height (in.)                                  | 11 1/4  | 11 1/4                            | 13 7/16                           | 13 7/16                           | 23 5/16                                   | 12 15/16                | 15 1/8                             | 15 3/8                   | 17 1/2                             | 15 5/16                        | 18 11/16                             | 16 3/4             | 19 7/8                                     | 14 1/8                            | 15 3/8                   |            |             |           |  |
|                        | Continuous Running Water Level (C.W.L.) (in.) | 2   | 4 1/2 (Pump Starting Water Level) | 2                                 | 6 3/4 (Pump Starting Water Level) | 3 1/8                                     | 3 1/2                   | 15 1/8 (Pump Starting Water Level) | 3 1/2                    | 17 1/2 (Pump Starting Water Level) | 3 1/2                          | 18 11/16 (Pump Starting Water Level) | 4 3/4              | 19 7/8 (Pump Starting Water Level)         | 6 1/2 (Pump Starting Water Level) | 4 1/8                    |            |             |           |  |
| Shipping Weight (lbs.) | 28  | 29  | 37                                | 38                                | 85                                | 30  | 30                      | 50                                 | 50                       | 50                                 | 50                             | 50                                   | 50                 | 50   | 30                                | 39                       |            |             |           |  |

# SPECIFICATIONS - SINGLE PHASE PUMPS: LSR • LSC • NK • SQ • UT(Z) • TM(A)

|  | LSR2.4S                                       | LSC1.4S   | NK2-15                       | NK4-22                         | NK3-22L                      | 50SQ2.4S                         | 50UT2.4S                       | 50UTZ2.4S                          | 50UT2.75S                          | 50UTZ2.75S                         | 50TM2.4S                       | 50TMA2.4S               | 50TM2.75S                          | 50TMA2.75S              |                                    |
|--|---|---|------------------------------|--------------------------------|------------------------------|----------------------------------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------|-------------------------|------------------------------------|-------------------------|------------------------------------|
|  | 2" Ground Level Pump                          | 1" Floor Level Pump   | 3" Heavy Duty High Head Pump | 3" Heavy Duty High Head Pump   | 3" Heavy Duty High Flow Pump | 2" Portable Stainless Steel Pump | 2" Cast Iron Submersible Pump  | 2" Cast Iron Auto Submersible Pump | 2" Cast Iron Submersible Pump      | 2" Cast Iron Auto Submersible Pump | 2" Manual Titanium Pump        | 2" Auto Titanium Pump   | 2" Manual Titanium Pump            | 2" Auto Titanium Pump   |                                    |
| FLUID                                  | Max. Capacity (GPM)                           | 62.4  | 45                           | 111                            | 131                          | 21                               | 63                             | 69                                 | 95                                 | 79                                 | 92                             |                         |                                    |                         |                                    |
|  | Max. Head (ft.)                               | 39.5  | 39                           | 69                             | 85                           | 59                               | 34                             | 29.5                               | 44                                 | 44                                 | 56                             |                         |                                    |                         |                                    |
|  | Solid Diameter (in.)                          | 0.236   |                              | 0.334                          |                              |                                  | 0.236                          | 1.4                                |                                    |                                    | 0.394                          |                         |                                    |                         |                                    |
| PUMP                                   | Impeller                                      | Semi-Vortex   |                              |                                | Semi-Open                    | Semi-Vortex                      | Semi-Vortex                    |                                    |                                    | Semi-Vortex                        |                                |                         |                                    |                         |                                    |
|  | Impeller Material                             | Urethane Rubber   |                              | Ductile Iron Casing            |                              | High Chrome                      | 304 Stainless Steel            | Polyphenylene                      |                                    |                                    | PPO Plastic                    |                         |                                    |                         |                                    |
|  | Casing Material                               | Ethylene Propylene Rubber   |                              |                                | Cast Iron                    | 304 Stainless Steel              | Cast Iron                      |                                    |                                    | ABS Plastic                        |                                |                         |                                    |                         |                                    |
|  | Wear Plate Material                           | Urethane Rubber   |                              | Integral Part of Casing        |                              | Ductile Iron Casing              | 304 Stainless Steel            | ---                                |                                    |                                    | ---                            |                         |                                    |                         |                                    |
|  | Shaft Seal - Type / Material                  | Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals |                              |                                |                              |                                  |                                |                                    |                                    |                                    |                                |                         |                                    |                         |                                    |
|  | Seal Lubricant - Type                         | SAE 10W/20W or Turbine Oil (ISO VG32)   |                              |                                |                              |                                  |                                |                                    |                                    |                                    | White Mineral Oil (ISO VG32)   |                         |                                    |                         |                                    |
|  | Seal Lubricant Amount (oz.)                   | 5.1   | 5.2                          | 9.1                            |                              |                                  | 5.4                            | 5.4                                | 7.8                                |                                    | 8.1                            |                         |                                    |                         |                                    |
|  | Seal Protection                               | V-Ring and Oil Lifter   |                              |                                |                              |                                  |                                |                                    |                                    |                                    |                                |                         | Oil Lifter                         |                         |                                    |
|  | Discharge Connection                          | 2" MNPT Coupling  | 3/4" MNPS Coupling           | 3" MNPT Coupling (2" optional) |                              |                                  | 2" FNPT Flange                 | 2" MNPT Coupling                   |                                    |                                    | 2" FNPT Flange                 |                         |                                    |                         |                                    |
|  | MOTOR   | Motor Output (HP)   | 2/3                          |                                | 2                            | 3                                | 1/2                            | 1/2                                | 1                                  | 1/2                                | 1                              |                         |                                    |                         |                                    |
| Phase                                  |   | Single Phase  |                              |                                |                              |                                  |                                |                                    |                                    |                                    |                                |                         |                                    |                         |                                    |
| Voltage (V)                            |   | 115   |                              | 110 or 220                     | 230                          | 220                              | 115 or 230                     | 115                                | 115 or 220                         |                                    | 115 or 230                     |                         |                                    |                         |                                    |
| Amperage - Rated Current               |   | 5.9 (115V)  |                              | 23.0 (110V)<br>11.5 (220V)     | 11.7                         | 13                               | 6.5 (115V)<br>3.4 (230V)       | 5.7 (115V)                         | 9.9 (115V)<br>5.2 (220V)           |                                    | 5.8 (115V)<br>2.9 (230V)       |                         | 8.7 (115V)<br>4.6 (230V)           |                         |                                    |
| Amperage - Starting Current            |   | 12.4 (115V)   |                              | 141 (110V)<br>70 (220V)        | 70                           | 70                               | 18 (115V)<br>9 (230V)          | 11.1 (115V)                        | 30.7 (110V)<br>17.6 (220V)         |                                    | 18 (115V)<br>7.9 (230V)        |                         | 35 (115V)<br>16.7 (230V)           |                         |                                    |
| Type                                   |   | Continuous Duty, Air Filled, 3600 RPM, 60Hz   |                              |                                |                              |                                  |                                |                                    |                                    |                                    |                                |                         |                                    |                         |                                    |
| Bearings                               |   | Double shielded, permanently lubricated, high-temp C3 with B-10 life of 60,000 hours                            |                              |                                |                              |                                  |                                |                                    |                                    |                                    |                                |                         |                                    |                         |                                    |
| Insulation Class                       |   | E   |                              | B                              | F                            | B                                | E                              | E                                  |                                    |                                    | E                              |                         |                                    |                         |                                    |
| Motor Protection (Built-In)            |   | Miniature Protector   |                              | Circle Thermal Protector       |                              |                                  | Miniature Protector            |                                    | Circle Thermal Protector           | Miniature Protector                | Circle Thermal Protector       |                         | Miniature Protector                |                         |                                    |
| Plug Configuration (Nema)              |   | 5-15P (115V)  |                              | No Plug                        |                              |                                  | 5-15P (115V)<br>No Plug (230V) | 5-15P (115V)                       | 5-15P (115V)<br>No Plug (220V)     |                                    | 5-15P (115V)<br>No Plug (230V) |                         |                                    |                         |                                    |
| Cable - # of Conductors x AWG          |   | 3C x 16AWG  |                              | 3C x 12AWG                     | 3C x 14AWG                   |                                  | 3C x 16AWG                     |                                    | 3C x 14AWG                         |                                    | 3C x 16AWG                     |                         | 3C x 14AWG                         |                         |                                    |
| Standard Cable Length (ft.)            |   | 32  | 20                           | 32                             |                              |                                  | 20                             |                                    | 32                                 |                                    | 32                             |                         |                                    |                         |                                    |
| Max. Cable Length (ft.)                |   | 110 (115V)  |                              | 75 (110V)<br>300 (220V)        | 180                          | 150                              | 100 (115V)<br>380 (230V)       | 110 (115V)                         |                                    | 100 (115V)<br>380 (220V)           |                                | 45 (115V)<br>180 (230V) |                                    | 48 (115V)<br>180 (230V) |                                    |
| Recommended Generator Capacity (watts) |   | 2700  |                              | 7200                           | 10000                        |                                  | 3000                           | 2700                               | 4600                               |                                    | 3000                           |                         | 4500                               |                         |                                    |
| Optional Float Switch                  |   | SLS-LSR32   | SLS-LSC20                    | TS-304 (115V)<br>TS-303 (220V) |                              | TS-303                           |                                | TS-301                             | TS-301                             | N/A                                | TS-302                         | N/A                     | TS-301                             | N/A                     | TS-302                             |
| DIMENSION                              | Diameter (in.)                                | 8 1/4   | 7 2/3                        | 9 7/16                         | 9 7/16                       | 9 1/4                            | 7 1/16                         | 9 1/2                              | 9 1/2                              | 9 1/2                              | 9 1/2                          | 9 5/16                  |                                    |                         |                                    |
|  | Height (in.)                                  | 11 3/8  | 12 7/16                      | 24 1/2                         | 24 3/16                      | 26 1/2                           | 14 5/16                        | 13 3/4                             | 15 3/4                             | 16                                 | 18                             | 14 3/16                 | 14 3/4                             | 14 15/16                | 15 1/2                             |
|  | Continuous Running Water Level (C.W.L.) (in.) | 0.2   | 0.04                         | 3 1/4                          | 3 1/4                        | 4 3/4                            | 2 3/8                          | 11 3/4                             | 15 3/4 (Pump Starting Water Level) | 11 3/4                             | 18 (Pump Starting Water Level) | 12 3/4                  | 23 7/8 (Pump Starting Water Level) | 13 5/8                  | 24 5/8 (Pump Starting Water Level) |
|  | Shipping Weight (lbs.)                        | 30  | 31                           | 80                             | 78                           | 84                               | 33                             | 34                                 | 35                                 | 43                                 | 43                             | 23                      | 24                                 | 25                      | 26                                 |