

# L SERIES

## LARGE VOLUME SUBMERSIBLE PUMPS

**POWER : 0.5~20HP (0.4~15kW)**

**MAX.FLOW : 2640US.GPM (10m<sup>3</sup>/min)**



### PRODUCT NOMENCLATURE

Example1: 

|      |   |                   |    |
|------|---|-------------------|----|
| L    | — | 4                 | 1  |
| Type |   | Discharge<br>inch | HP |

Example2: 

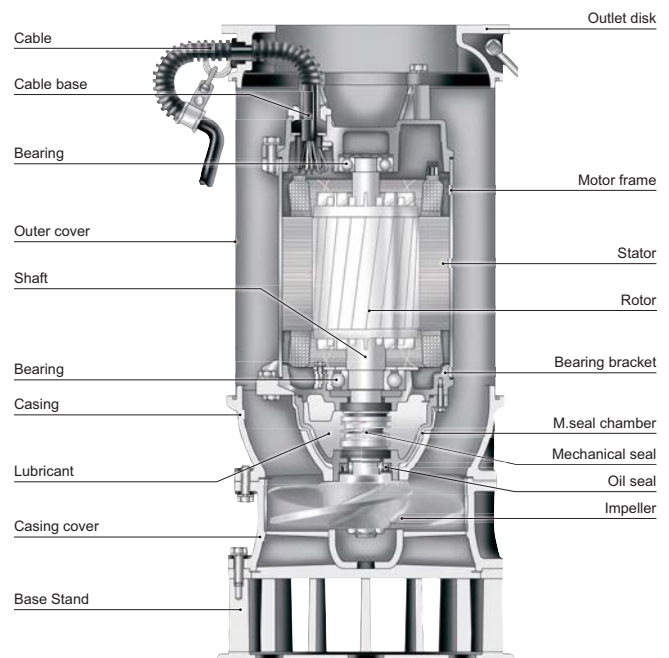
|      |   |                   |         |
|------|---|-------------------|---------|
| L    | — | 300               | A       |
| Type |   | Discharge<br>inch | Version |

### FEATURE

- Large flow capacities achieved with almost no vibration or noise by use of Axial & Mix Flow design.
- Robust construction and compact design with a dry motor, double mechanical seal and impeller flow guide vane for high efficiency.
- Easy handling, energy saving and low maintenance.
- High efficiency motor directly connects to impeller to achieve best energy savings.
- Pump manufactured with heavy duty housing, cable leads are isolated by hardened epoxy for water proofing, double mechanical seal.
- Achieved IP68 (highest submersible water resistant protection rating), keeps pumps dust free and water proof to provide extended pump life and performance.
- Shaft and impeller are precisely balanced for quiet and long life performance
- 3D computerized design of impeller and vanes conductive design provide highest pump efficiency and stability.
- Casted ALBC3 material (Aluminum Bronze) impeller, it has a great abrasion and corrosion resistance.

### APPLICATIONS

- Aquiculture water pumping and drainage for large volume water applications. Water supply for landscape, water features, cooling in the power plant or drainage for industrial.
- Water extracting from rivers, lakes and reservoirs.
- Flood control or used for large volume dewatering.
- Others : Extraction of water from dock and river.



# L SERIES LARGE VOLUME SUBMERSIBLE PUMPS

## L-405A · L-41A · L-62A · L-63A

### SPECIFICATIONS

| Item          | Description                                                                                                                                                                                                       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limits of Use | Liquid Temp. 0~40°C(32~104°F)                                                                                                                                                                                     |
| Applications  | Agriculture irrigation<br>Agriculture water·River water                                                                                                                                                           |
| Type          | Frequency 60Hz<br>Motor 2P(3600rpm)·Dry Motor<br>Insulation Class B<br>Protection IP68<br>Protector Auto-cut<br>Bearing Ball type<br>M.seal Double M.seals<br>Impeller Axial-flow                                 |
| Material      | Upper Cover FC200<br>Motor Frame FC200<br>Shaft End SUS304<br>M.seal CA/CE & SiC/SiC(0.5~1HP)<br>SiC/SiC& SiC/SiC(2~3HP)<br>Casing FC200<br>Impeller ALBC3<br>Strainer SUS304<br>Cable VCT or H07RN-F or SJOW/SOW |
| Optional      | —                                                                                                                                                                                                                 |



L-405A · L-41A



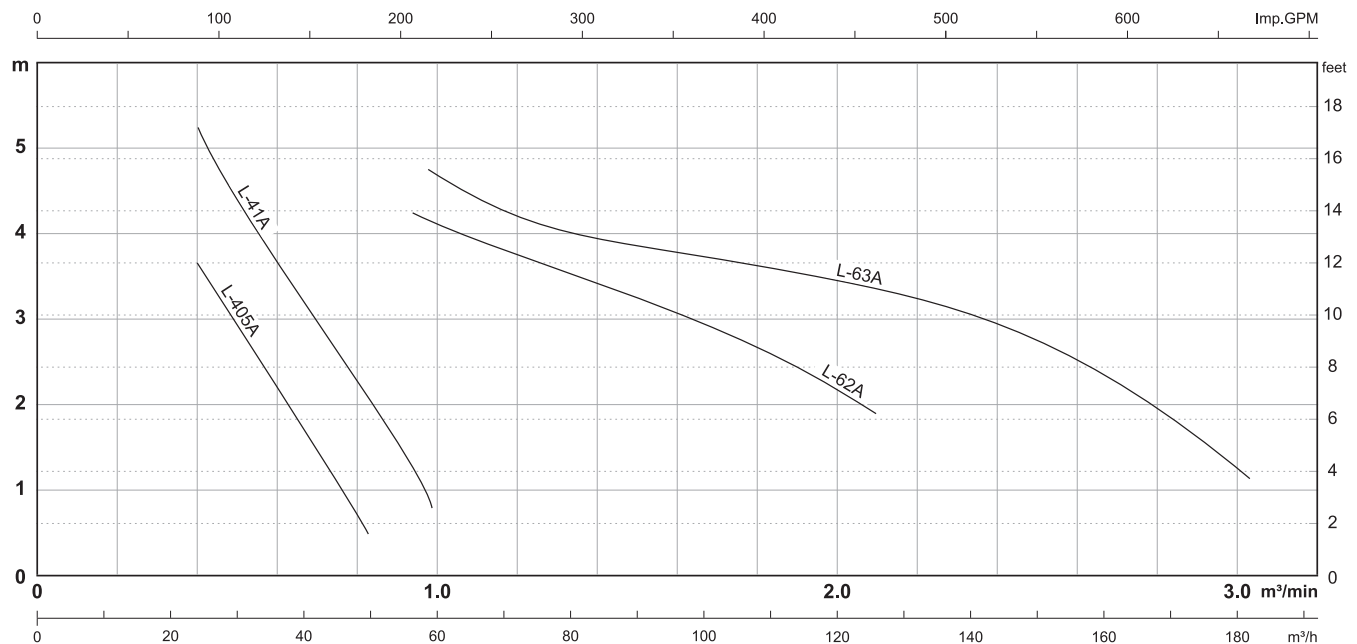
L-62A · L-63A



Axial-flow Impeller

| Model  | Power<br>HP(kW) | Discharge<br>inch(mm) | Standard |        | MAX      |        | Solid<br>Passage<br>mm(inch) | Weight(W/O Cable) |           | Phase               | 1Ø   | 1Ø   | 3Ø   | 3Ø   | 3Ø   | 3Ø   | 3Ø   |
|--------|-----------------|-----------------------|----------|--------|----------|--------|------------------------------|-------------------|-----------|---------------------|------|------|------|------|------|------|------|
|        |                 |                       | m-m³/min | ft-GPM | m-m³/min | ft-GPM |                              | 1Ø-kg(lb)         | 3Ø-kg(lb) | Voltage             | 110V | 220V | 220V | 230V | 380V | 460V | 575V |
| L-405A | 0.5(0.4)        | 3.5"(90)              | 1.5-0.7  | 5-185  | 4-0.85   | 13-225 | 10(3/8")                     | 25(55)            | 25(55)    | Full load<br>Ampere | 8.4  | 4.2  | 2.6  | 2.5  | 1.5  | 1.3  | 1.0  |
|        |                 | 4"(100)               |          |        |          |        |                              |                   |           |                     |      |      |      |      |      |      |      |
| L-41A  | 1(0.75)         | 3.5"(90)              | 3-0.7    | 10-185 | 5-1.05   | 16-278 | 10(3/8")                     | 26(57)            | 26(57)    |                     | 10.4 | 5.2  | 3.4  | 3.3  | 1.9  | 1.6  | 1.3  |
|        |                 | 4"(100)               |          |        |          |        |                              |                   |           |                     |      |      |      |      |      |      |      |
| L-62A  | 2(1.5)          | 6"(150)               | 2-2.0    | 7-528  | 4-2.5    | 13-660 | 20(3/4")                     | —                 | 51(112)   |                     | —    | —    | 6.6  | 6.4  | 3.6  | 3.2  | 2.6  |
| L-63A  | 3(2.2)          | 6"(150)               | 3.3-2.0  | 10-528 | 5-3.2    | 16-850 | 20(3/4")                     | —                 | 52(115)   | —                   | —    | 9.0  | 8.9  | 5.2  | 4.5  | 3.6  |      |

### PERFORMANCE CURVES



| Model  | Power HP(kW) | Discharge inch(mm)  | H:feet   | 2'  | 4'  | 6'  | 8'  | 10' | 12' | 14' | 16' | Q:m³/min<br>Q:m³/h | 0.4<br>24 | 0.6<br>36 | 0.8<br>48 | 1.2<br>72 | 1.6<br>96 | 2<br>120 | 2.4<br>144 | 2.8<br>168 |
|--------|--------------|---------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----------|-----------|-----------|-----------|-----------|----------|------------|------------|
| L-405A | 0.5(0.4)     | 3.5"(90)<br>4"(100) | Q:US.GPM | 215 | 194 | 172 | 150 | 128 | 106 | —   | —   | H:m                | 3.6       | 2.2       | 0.7       | —         | —         | —        | —          | —          |
| L-41A  | 1(0.75)      | 3.5"(90)<br>4"(100) |          | —   | 250 | 228 | 206 | 182 | 159 | 136 | 116 |                    | 5.2       | 3.7       | 2.3       | —         | —         | —        | —          | —          |
| L-62A  | 2(1.5)       | 6"(150)             |          | —   | —   | —   | 506 | 427 | 332 | —   | —   |                    | —         | —         | —         | 3.8       | 3.1       | 2.2      | —          | —          |
| L-63A  | 3(2.2)       | 6"(150)             |          | —   | 795 | 750 | 696 | 619 | 468 | 310 | —   |                    | —         | —         | —         | 4.2       | 3.8       | 3.5      | 2.9        | 1.9        |

# L SERIES LARGE VOLUME SUBMERSIBLE PUMPS

## L-200A · L-250A · L-250AL · L-300A · L-1220

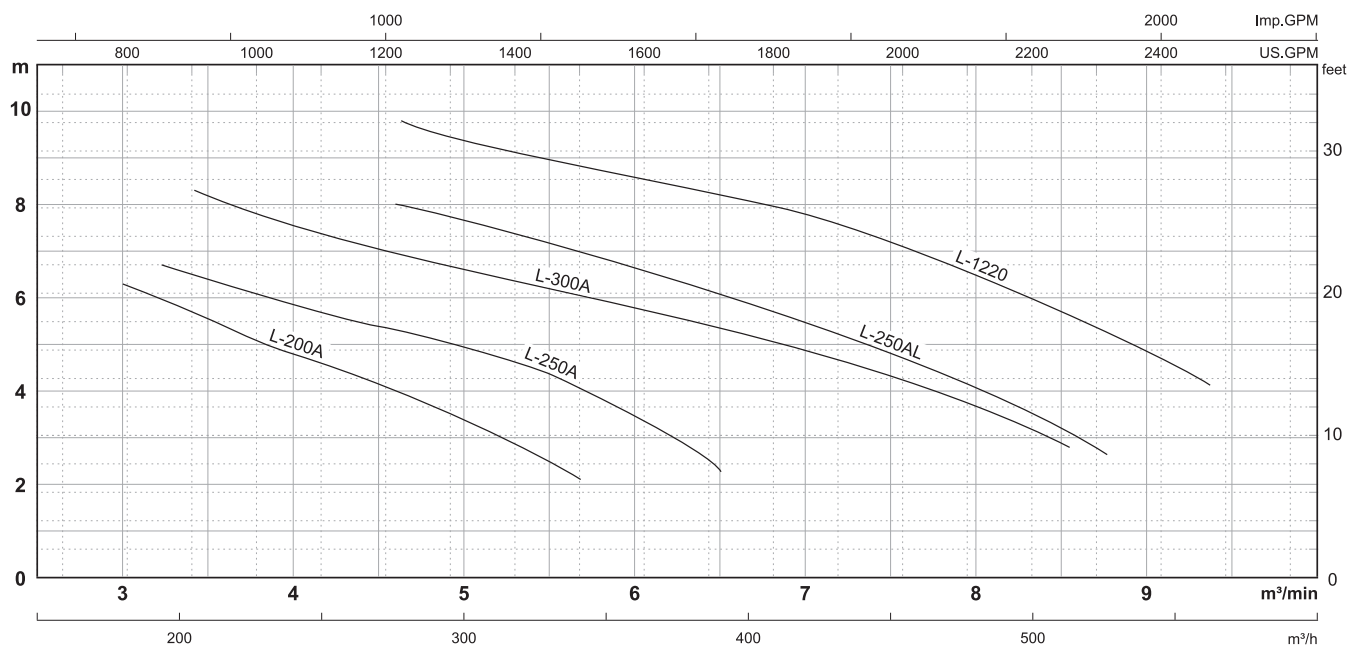
### SPECIFICATIONS

| Item          |              | Description                                             |
|---------------|--------------|---------------------------------------------------------|
| Limits of Use | Liquid Temp. | 0~40°C(32~104°F)                                        |
|               | Applications | Agriculture irrigation<br>Agriculture water·River water |
| Type          | Frequency    | 60Hz                                                    |
|               | Motor        | 2P(3600rpm)·Dry Motor                                   |
|               | Insulation   | Class F                                                 |
|               | Protection   | IP68                                                    |
|               | Protector    | None                                                    |
|               | Bearing      | Ball type                                               |
|               | M.seal       | Double M.seals                                          |
|               | Impeller     | Axial-flow (L-300A/1220:Mix-flow)                       |
| Material      | Upper Cover  | BC6                                                     |
|               | Motor Frame  | SUS304                                                  |
|               | Shaft End    | SUS304                                                  |
|               | M.seal       | CA/CE & CA/CE                                           |
|               | Casing       | FC200                                                   |
|               | Impeller     | ALBC3                                                   |
|               | Strainer     | SUS304                                                  |
|               | Cable        | VCT or H07RN-F or SOW                                   |
| Optional      |              | —                                                       |



| Model   | Power<br>HP(kW) | Discharge<br>inch(mm) | Standard |         | MAX      |         | Solid<br>Passage<br>mm(inch) | Weight(W/O Cable) |           | Phase              | 1Ø      | 1Ø   | 3Ø   | 3Ø   | 3Ø   | 3Ø   | 3Ø   |
|---------|-----------------|-----------------------|----------|---------|----------|---------|------------------------------|-------------------|-----------|--------------------|---------|------|------|------|------|------|------|
|         |                 |                       | m-m³/min | ft-GPM  | m-m³/min | ft-GPM  |                              | 1Ø-kg(lb)         | 3Ø-kg(lb) |                    | Voltage | 110V | 220V | 220V | 230V | 380V | 460V |
| L-200A  | 7.5(5.5)        | 8"(200)               | 4.5-4.0  | 15-1060 | 6-6.0    | 20-1585 | 22(7/8")                     | —                 | 119(262)  | Fullload<br>Ampere | —       | —    | 21.0 | 20.2 | 12.4 | 10.1 | 8.4  |
| L-250A  | 10(7.5)         | 10"(250)              | 4-5.5    | 13-1455 | 6-7.0    | 20-1850 | 22(7/8")                     | —                 | 162(357)  |                    | —       | —    | 27.2 | 26.8 | 15.4 | 13.4 | 10.7 |
| L-250AL | 15(11)          | 10"(250)              | 4-8.0    | 13-2115 | 6-9.0    | 20-2380 | 22(7/8")                     | —                 | 156(344)  |                    | —       | —    | 31.6 | 31.0 | 17.9 | 15.5 | 12.4 |
| L-300A  | 15(11)          | 12"(300)              | 4.5-7.0  | 15-1850 | 7-10.0   | 23-2640 | 23(7/8")                     | —                 | 201(443)  |                    | —       | —    | 39.0 | 38.2 | 22.2 | 19.1 | 15.3 |
| L-1220  | 20(15)          | 12"(300)              | 6-8.0    | 20-2115 | 9-10.0   | 30-2640 | 33(1 1/4")                   | —                 | 273(602)  |                    | —       | —    | 49.5 | 47.3 | 28.5 | 23.7 | 18.9 |

### PERFORMANCE CURVES



| Model   | Power<br>HP(kW) | Discharge<br>inch(mm) | H:feet   | 8'   | 10'  | 12'  | 14'  | 18'  | 22'  | 26'  | 30'  | Q:m³/min<br>Q:m³/h | 3   | 4   | 5   | 6   | 7   | 8   | 9   |
|---------|-----------------|-----------------------|----------|------|------|------|------|------|------|------|------|--------------------|-----|-----|-----|-----|-----|-----|-----|
|         |                 |                       |          |      |      |      |      |      |      |      |      |                    |     |     |     |     |     |     |     |
| L-200A  | 7.5(5.5)        | 8"(200)               | Q:US.GPM | 1459 | 1373 | 1276 | 1166 | 934  | —    | —    | —    | H:m                | 6.3 | 4.8 | 3.4 | —   | —   | —   | —   |
| L-250A  | 10(7.5)         | 10"(250)              |          | 1707 | 1640 | 1558 | 1470 | 1150 | 854  | —    | —    |                    | —   | 5.9 | 4.9 | 3.5 | —   | —   | —   |
| L-250AL | 15(11)          | 10"(250)              |          | —    | 2266 | 2180 | 2080 | 1844 | 1570 | 1244 | —    |                    | —   | —   | 7.7 | 6.6 | 5.5 | 4.1 | —   |
| L-300A  | 15(11)          | 12"(300)              |          | —    | 2220 | 2116 | 1994 | 1674 | 1290 | 974  | —    |                    | —   | 7.5 | 6.6 | 5.8 | 4.9 | 3.7 | —   |
| L-1220  | 20(15)          | 12"(300)              |          | —    | —    | —    | 2460 | 2280 | 2074 | 1810 | 1390 |                    | —   | —   | 9.4 | 8.6 | 7.8 | 6.5 | 4.9 |