

U High-Head

SERIES

Super High-Head Submersible Dewatering Pumps

- This series is available for achieving a total head of up to 200m.
- The top discharge and the cylindrical water channel provides efficient motor cooling.
- The back pressure releasing mechanism is adopted to enable a long service life of the mechanical seal.
*For more information, refer to page 9.
- Infiltrative water detector is adopted as a motor protector to prevent motor burnout (EXCEPT U-2304B).
*For more information, refer to page 9.
- The impeller is made of high chromium cast iron (about 25% chromium) known for its wear resistance.
- The pumps are designed for easy maintenance and inspection.
*For more information, refer to page 11.



U-2506C

U-22006

Option



Cable Extension Discharge Modification Material Change Heat Resistant Seawater Resistant

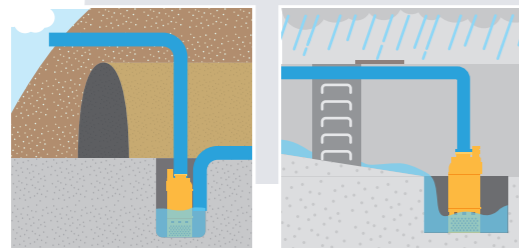


Painting Change Sacrificial Anode Lubricant Oil Change

The available options vary depending on the model. For more information, refer to "Option" page 53.

Applications

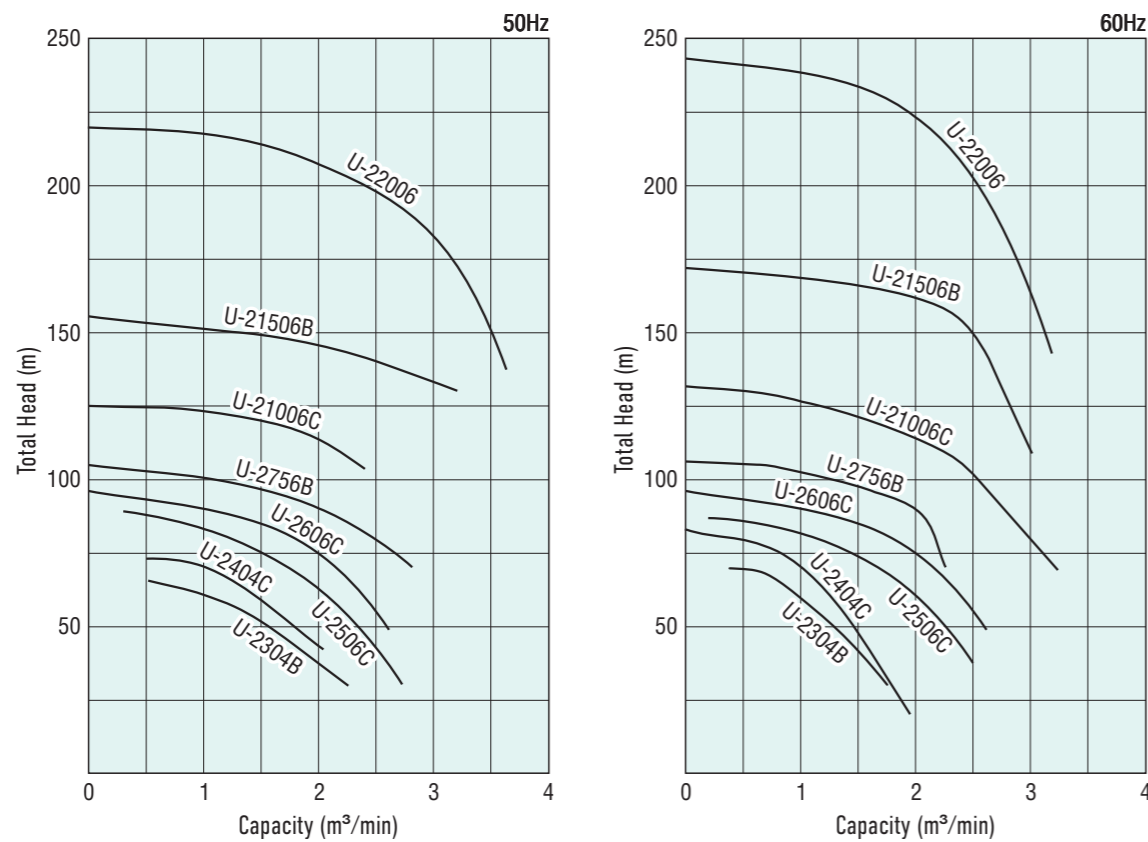
- Dam drainage



Tunnel construction sites drainage

Underground drainage

Performance Curve



Main Specifications

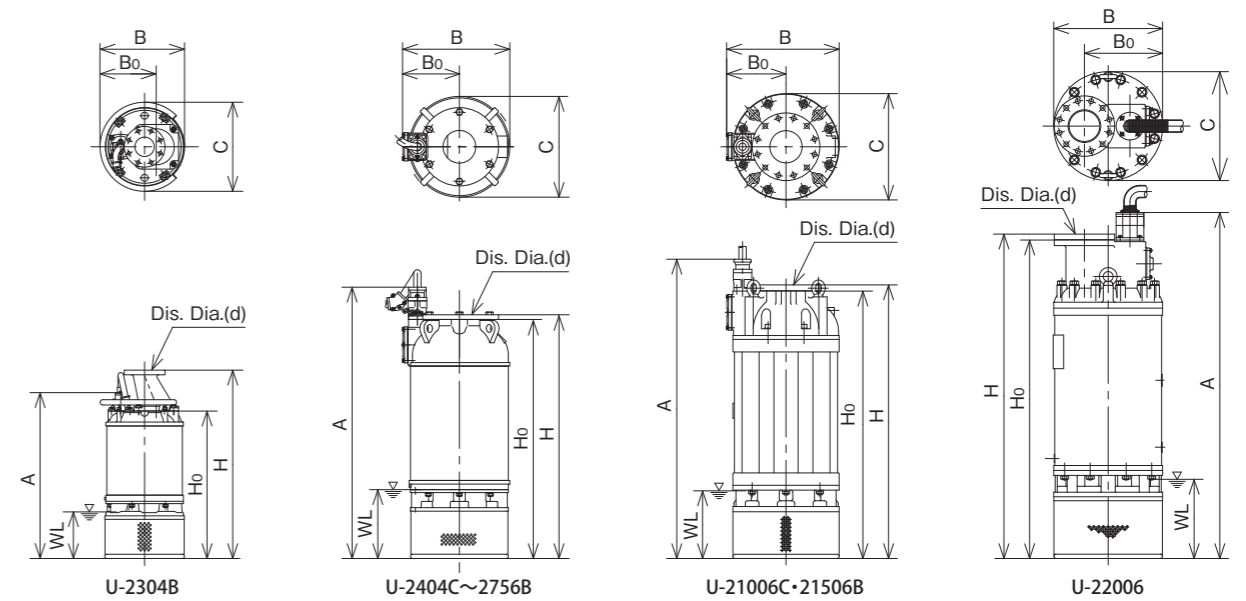
| Discharge Diameter (mm) | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 |
|-------------------------|--------------------------------|---------------------|---|-------------------|---------|----------|----------|---------|
| Pump Models | U-2304B | U-2404C | U-2506C | U-2606C | U-2756B | U-21006C | U-21506B | U-22006 |
| Motor Output (kW) | 22 | 30 | 37 | 45 | 55 | 75 | 110 | 150 |
| Medium | Spring Water / Muddy Water | | | | | | | |
| Temperature | Max 40 Degrees Celsius | | | | | | | |
| Shaft Seal | Double Type Mechanical Seal | | | | | | | |
| Shaft Bearing | Sealed Ball Bearing | Duplex Ball Bearing | | | | | | |
| Impeller | High Chrome | | | | | | | |
| | Closed | | | | | | | |
| Casing | *FC250 | | | | | *FCD500 | | |
| Type/Pole | Dry Type Induction Motor/2pole | | | | | | | |
| Insulation Class | B | | | F | | | | B |
| Protector | Auto-Cut | | Miniature Thermal Protector + Infiltrative Water Detector | | | | | |
| Frame | *FC200 | | | | | *FC250 | | *SS400 |
| Shaft | Stainless Steel | | | | | | | |
| Discharge Type | Flange | | | Companion Flangea | | | | |

*FCD : Ductile Cast Iron / FC : Cast Iron / SS400 : Mild Steel

Specifications

| Discharge Diameter mm (in) | Pump Models | Motor Output | | Total Head | | Capacity | | | Starting | Max Solid Through | | Weight (without cable) | | Cable Length | |
|-------------------------------|-------------|--------------|-----|------------|---------|----------|---------|---------|------------|-------------------|------|------------------------|-------|--------------|------|
| | | kW | HP | m | ft | m³/min | m³/hr | USGPM | | mm | in | kg | lb | m | ft |
| 100 (4) | U-2304B | 22 | 30 | 60 | 197 | 1 | 60 | 264 | DOL | 8 | 0.32 | 280 | 616 | 20 | 65.6 |
| 100 (4) | U-2404C | 30 | 40 | 70 | 230 | 1 | 60 | 264 | DOL | 8 | 0.32 | 380 | 836 | 20 | 65.6 |
| 150 (6) | U-2506C | 37 | 50 | 80/60 | 262/197 | 1/2 | 60/120 | 264/528 | Star-Delta | 8 | 0.32 | 485 | 1,067 | 20 | 65.6 |
| 150 (6) | U-2606C | 45 | 60 | 90/75 | 295/246 | 1/2 | 60/120 | 264 | Star-Delta | 8 | 0.32 | 485 | 1,067 | 20 | 65.6 |
| 150 (6) | U-2756B | 55 | 75 | 90 | 295 | 2 | 120 | 528 | Star-Delta | 8 | 0.32 | 545 | 1,199 | 20 | 65.6 |
| 150 (6) | U-21006C | 75 | 100 | 120 | 394 | 1.5 | 90 | 396 | Star-Delta | 8 | 0.32 | 980 | 2,156 | 20 | 65.6 |
| 150 (6) | U-21506B | 110 | 150 | 140/160 | 459/525 | 2.5/2 | 150/120 | 660/528 | Star-Delta | 8 | 0.32 | 1,080 | 2,376 | 20 | 65.6 |
| 150 (6) | U-22006 | 150 | 200 | 200 | 656 | 2.5 | 150 | 660 | Star-Delta | 11 | 0.44 | 1,250 | 2,750 | 20 | 65.6 |

The figure in the left of "i" is for 50Hz, in the right is for 60Hz



External Diagrams (mm)

| Pump Models | d | H | H ₀ | A | B | B ₀ | C | WL |
|-------------|-----|-------|----------------|-------|-----|----------------|-----|-----|
| U-2304B | 100 | 971 | 760 | 855 | 436 | 291 | 459 | 240 |
| U-2404C | 100 | 1,057 | 1,035 | 1,127 | 437 | 227 | 420 | 240 |
| U-2506C | 150 | 1,246 | 1,222 | 1,387 | 548 | 291 | 515 | 350 |
| U-2606C | 150 | 1,246 | 1,222 | 1,316 | 548 | 291 | 515 | 350 |
| U-2756B | 150 | 1,246 | 1,222 | 1,387 | 548 | 291 | 515 | 350 |
| U-21006C | 150 | 1,416 | 1,384 | 1,549 | 583 | 308 | 550 | 350 |
| U-21506B | 150 | 1,416 | 1,384 | 1,549 | 583 | 308 | 550 | 350 |
| U-22006 | 150 | 1,639 | 1,620 | 1,759 | 550 | 395 | 550 | 400 |

WL : Pump Starting Level