

Submersible drainage pumps

SCU

TERAL

60Hz



TERAL INC.

Applications

- Drainage of dirty water including sewage and solids in sewage tank of a building
- Relay tank for wastewater from factory and industrial facility
- Raw water and wastewater from sewage/sewage treatment plant
- Drainage of polluted water and excrement from poultry and hog farms
- Community plant (combined treatment)
- Drainage of other types of sewage/water including solids

Features

- ① Our original vortex blade permits solids passing the suction port to be smoothly discharged.
- ② Since solids do not pass through the impeller, there is no unbalance due to wear to ensure stable long-time operation.
- ③ The SCUA and SCUT models come with a built-in automatic operation device and a built-in automatic alternate parallel operation device respectively, in response to water level control.
- ④ Models whose output is 7.5 kW or less incorporate a motor protective device, preventing motor damage due to overload, constraint and open phase.

Description of types

100 SCU - 6 15

① ② ③ ④ ⑤

- ① Bore diameter
 ② Model SCU: Non-automatic
 SCUA: Automatic
 SCUT: Automatic alternate parallel operation
 ③ Frequency 5: 50Hz 6: 60Hz
 ④ Output
 ⑤ Detachable device Blank: None
 -C: C-type detachable device
 -S: SEC-type detachable device

Standard specifications

| | |
|-------------------------------|---|
| Pumping liquid | Liquid quality ... Sewage/miscellaneous drainage/waste |
| | Liquid temperature ... 0 to 40°C |
| Size of solid to pass through | Diameter ... 100% or less of nominal diameter |
| | Length ... 500% or less of nominal diameter |
| Structure | Impeller ... Semi-open |
| | Shaft seal ... Mechanical seal |
| Material | Impeller ... FC200 |
| | Main shaft ... 3.7kW or less SUS403 5.5kW or more SUS420J1 ^{*1} |
| | Casing ... FC200 |
| Motor | Type ... Dry submerged |
| | Power ... 3-phase, 200/220V |
| | Synchronous rotation speed ... 1800min ⁻¹ |
| | Protective device ... Automatic return auto-cut (7.5 kW or less) Thermal protector ^{*2} (11 kW or more) |
| Cable | Power cable ... VCT 4 cores (7.5 kW or less) VCT 3 cores + 4 cores (11 kW, 15 kW) 2PNCT 3 cores + 4 cores (18.5 kW or more) |
| | Control cable ... VCT 2 cores (11 kW or more) |
| Mechanical seal | Double mechanical seal (3.7kW or less) Tandem mechanical seal (5.5kW or more) |
| | Material ... pump side: SiC vs SiC Motor side: Ceramic vs Carbon |
| Lubricant | Turbine oil VG32 |
| Flange spec | JIS 10K thin type (A dedicated flange is used for 80SCU-C.) |
| Paint | Acrylic alkyd resin Munsell 7.5R4/14 |

^{*1} The main shaft material shall be changed to comply with Ministry of Land, Infrastructure and Transport Public Building Construction Standard Specification.

^{*2} b-contact output



*Please note that some of the devices in the photo may differ from actual devices in coating color, etc.

Standard accessories

| | |
|---|-------|
| Cable | 10m |
| Companion flange(packaging,nut,and bolt included) | 1 set |
| Aboveground nameplate | 1 pc. |

Special specifications

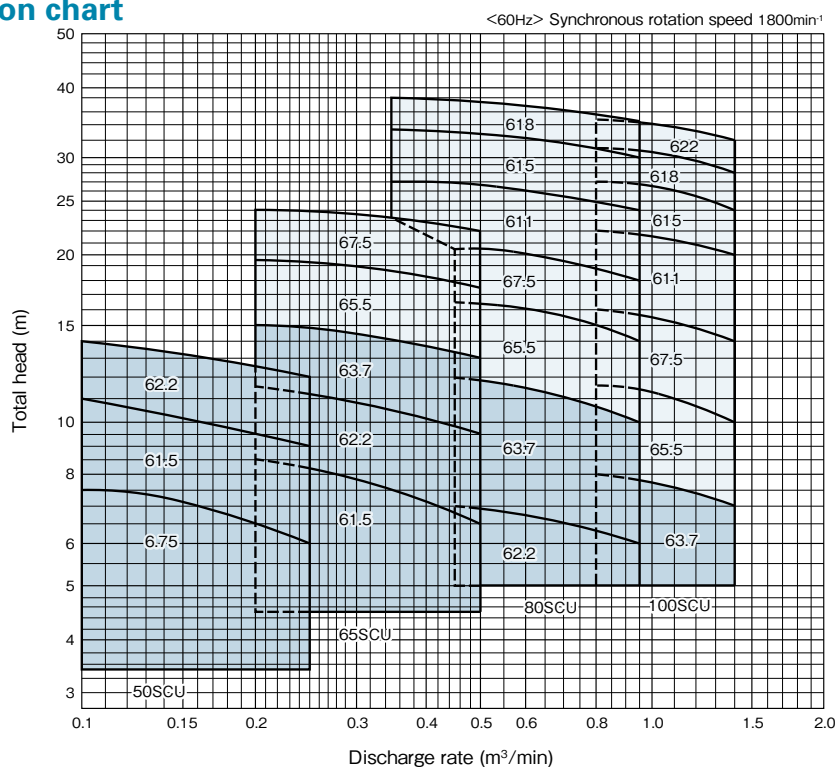
| | | |
|-----------|--------------|--------------------------------|
| Motor | Power source | 3-phase 400/440V, 3-phase 460V |
| | Main shaft | SUS420J2 (5.5kW or more) |
| Lubricant | | Liquid paraffin |
| Paint | | Non-tar epoxy resin painting |
| Cable | | Cable extension 20m/30m |

Special accessories

| |
|--------------------|
| Control panel |
| Float switch |
| Detachable device* |

* The standard device is made of FC. It is possible to use SCS for the entire device and use SUS only for the chains and foundation bolts. It is also possible to provide only sliding guides and chains as special accessories.

Selection chart



* For the range shaded with , automatic SCU model and automatic alternate parallel operation SCUT model are also available.
Note: Calculate the exact total head without including allowance. Even if an allowance is permitted, it should be within 2 m.

Specification table

| Operating system | Bore diameter mm | Type | Output kW | Specifications | | | | | | | |
|------------------|------------------|-------------|-----------|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|
| | | | | Discharge rate m³/min | Total head m | Discharge rate m³/min | Total head m | Discharge rate m³/min | Total head m | Discharge rate m³/min | Total head m |
| Non-automatic | 50 | 50SCU-6.75 | 0.75 | 0.1 | 7.5 | 0.16 | 7 | 0.25 | 6 | | |
| | | 50SCU-61.5 | 1.5 | 0.1 | 11 | 0.16 | 10 | 0.25 | 9 | | |
| | | 50SCU-62.2 | 2.2 | 0.1 | 14 | 0.16 | 13 | 0.25 | 12 | | |
| | 65 | 65SCU-61.5 | 1.5 | 0.2 | 8.5 | 0.35 | 7.5 | 0.5 | 6.5 | | |
| | | 65SCU-62.2 | 2.2 | 0.2 | 11.5 | 0.35 | 10.5 | 0.5 | 9.5 | | |
| | | 65SCU-63.7 | 3.7 | 0.2 | 15 | 0.35 | 14 | 0.5 | 13 | | |
| | | 65SCU-65.5 | 5.5 | 0.2 | 19.5 | 0.35 | 18.5 | 0.5 | 17.5 | | |
| | | 65SCU-67.5 | 7.5 | 0.2 | 24 | 0.35 | 23 | 0.5 | 22 | | |
| | 80 | 80SCU-62.2 | 2.2 | 0.45 | 7 | 0.7 | 6.5 | 0.95 | 6 | | |
| | | 80SCU-63.7 | 3.7 | 0.45 | 12 | 0.7 | 11 | 0.95 | 10 | | |
| | | 80SCU-65.5 | 5.5 | 0.45 | 16.5 | 0.7 | 15.5 | 0.95 | 14 | | |
| | | 80SCU-67.5 | 7.5 | 0.45 | 20.5 | 0.7 | 19.5 | 0.95 | 18 | | |
| | | 80SCU-611 | 11 | 0.35 | 27 | 0.7 | 25.5 | 0.95 | 24 | | |
| | 100 | 100SCU-615 | 15 | 0.35 | 33 | 0.7 | 31.5 | 0.95 | 30 | | |
| | | 100SCU-618 | 18.5 | 0.35 | 38 | 0.7 | 36.5 | 0.95 | 35 | | |
| | | 100SCU-63.7 | 3.7 | 0.8 | 8 | 1.1 | 7.5 | 1.4 | 7 | | |
| | | 100SCU-65.5 | 5.5 | 0.8 | 11.5 | 1.1 | 11 | 1.4 | 10 | | |
| | | 100SCU-67.5 | 7.5 | 0.8 | 16 | 1.1 | 15 | 1.4 | 14 | | |
| | | 100SCU-611 | 11 | 0.8 | 22 | 1.1 | 21 | 1.4 | 20 | | |
| | | 100SCU-615 | 15 | 0.8 | 27 | 1.1 | 26 | 1.4 | 24.5 | | |
| | | 100SCU-618 | 18.5 | 0.8 | 31 | 1.1 | 30 | 1.4 | 28.5 | | |
| | | 100SCU-622 | 22 | 0.8 | 35 | 1.1 | 33.5 | 1.4 | 32 | | |

| Operating system | Bore diameter mm | Type | Output kW | Specifications | | | | | | | |
|------------------|--|--------------|-----------|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|--------------|
| | | | | Discharge rate m³/min | Total head m | Discharge rate m³/min | Total head m | Discharge rate m³/min | Total head m | Discharge rate m³/min | Total head m |
| Automatic | 50 | 50SCUA-6.75 | 0.75 | 0.1 | 7.5 | 0.16 | 7 | 0.25 | 6 | | |
| | | 50SCUA-61.5 | 1.5 | 0.1 | 11 | 0.16 | 10 | 0.25 | 9 | | |
| | | 50SCUA-62.2 | 2.2 | 0.1 | 14 | 0.16 | 13 | 0.25 | 12 | | |
| | 65 | 65SCUA-61.5 | 1.5 | 0.2 | 8.5 | 0.35 | 7.5 | 0.5 | 6.5 | | |
| | | 65SCUA-62.2 | 2.2 | 0.2 | 11.5 | 0.35 | 10.5 | 0.5 | 9.5 | | |
| | | 65SCUA-63.7 | 3.7 | 0.2 | 15 | 0.35 | 14 | 0.5 | 13 | | |
| | 80 | 80SCUA-62.2 | 2.2 | 0.45 | 7 | 0.7 | 6.5 | 0.95 | 6 | | |
| | | 80SCUA-63.7 | 3.7 | 0.45 | 12 | 0.7 | 11 | 0.95 | 10 | | |
| | 100 | 100SCUA-63.7 | 3.7 | 0.8 | 8 | 1.1 | 7.5 | 1.4 | 7 | | |
| | Automatic alternate parallel operation | 50SCUT-6.75 | 0.75x2 | 0.1 | 8 | 0.16 | 7 | 0.25 | 6 | | |
| | | 50SCUT-61.5 | 1.5x2 | 0.1 | 14 | 0.16 | 10 | 0.25 | 9 | | |
| | | 50SCUT-62.2 | 2.2x2 | 0.1 | 14 | 0.16 | 13 | 0.25 | 12 | | |
| | | 65SCUT-61.5 | 1.5x2 | 0.2 | 8.5 | 0.35 | 7.5 | 0.5 | 6.5 | | |
| | | 65SCUT-62.2 | 2.2x2 | 0.2 | 11.5 | 0.35 | 10.5 | 0.5 | 9.5 | | |
| | | 65SCUT-63.7 | 3.7x2 | 0.2 | 15 | 0.35 | 14 | 0.5 | 13 | | |
| | | 80SCUT-62.2 | 2.2x2 | 0.45 | 7 | 0.7 | 6.5 | 0.95 | 6 | | |
| | | 80SCUT-63.7 | 3.7x2 | 0.45 | 12 | 0.7 | 11 | 0.95 | 10 | | |
| | 100 | 100SCUT-63.7 | 3.7x2 | 0.8 | 8 | 1.1 | 7.5 | 1.4 | 7 | | |

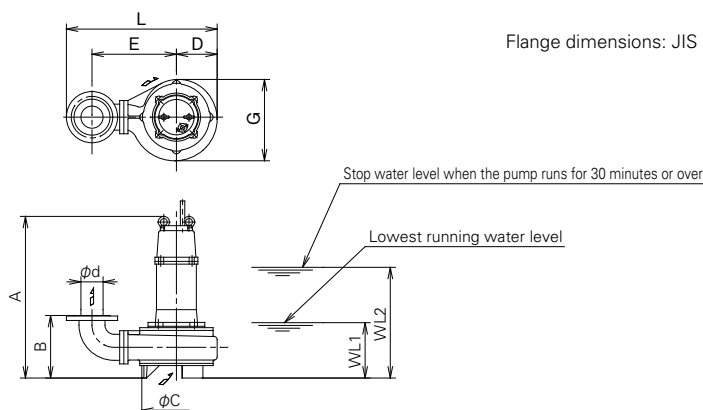
Motor specification table

| Output kW | Type | Number of poles p | Phase and voltage V | Rating | Starting | | Thermal class | Protector | Cable | | | | |
|-----------|------|-------------------|---------------------|-----------|----------------|-----------|---------------|-----------|-------|-----------------|----------|----------|-----------------------------|
| | | | | Current A | Method | Current A | | | Type | Number of cores | Size mm² | Length m | Finishing outer diameter mm |
| 0.75 | Dry | 4 | 3-phase, 200/220V | 3.9/3.6 | Direct-on-Line | 15.3/16.9 | B | ○ | VCT | 4 | 1.25 | 10 | 11.1 |
| 1.5 | Dry | 4 | 3-phase, 200/220V | 6.9/6.6 | Direct-on-Line | 29.0/31.6 | B | ○ | VCT | 4 | 1.25 | 10 | 11.1 |
| 2.2 | Dry | 4 | 3-phase, 200/220V | 9.9/9.0 | Direct-on-Line | 39.8/44.8 | B | ○ | VCT | 4 | 1.25 | 10 | 11.1 |
| 3.7 | Dry | 4 | 3-phase, 200/220V | 16.0/14.8 | Direct-on-Line | 69.9/78.1 | F | ○ | VCT | 4 | 2 | 10 | 11.8 |
| 5.5 | Dry | 4 | 3-phase, 200/220V | 22.5/20.0 | Direct-on-Line | 103/116 | B | ○ | VCT | 4 | 3.5 | 10 | 13.9 |
| 7.5 | Dry | 4 | 3-phase, 200/220V | 30.0/27.0 | Direct-on-Line | 156/177 | B | ○ | VCT | 4 | 5.5 | 10 | 16.5 |
| 11 | Dry | 4 | 3-phase, 200/220V | 45/40 | Star-delta | 181/204 | F | × | VCT | 3 4 | 3.5 | 10 | 12.6 13.9 |
| 15 | Dry | 4 | 3-phase, 200/220V | 56/51 | Star-delta | 268/277 | F | × | VCT | 3 4 | 5.5 | 10 | 15 16.5 |
| 18.5 | Dry | 4 | 3-phase, 200/220V | 70/63 | Star-delta | 352/399 | F | × | 2PNCT | 3 4 | 8 | 10 | 16.7 18.4 |
| 22 | Dry | 4 | 3-phase, 200/220V | 81/74 | Star-delta | 461/531 | F | × | 2PNCT | 3 4 | 14 | 10 | 19.9 21.9 |

Starting current of Star-delta starter is the value of Direct-on-line starting. (If this is made 1/3, it becomes the value when Star-delta starter.)

Assembly drawing

●Non-automatic SCU



Flange dimensions: JIS 10K thin type or equivalent

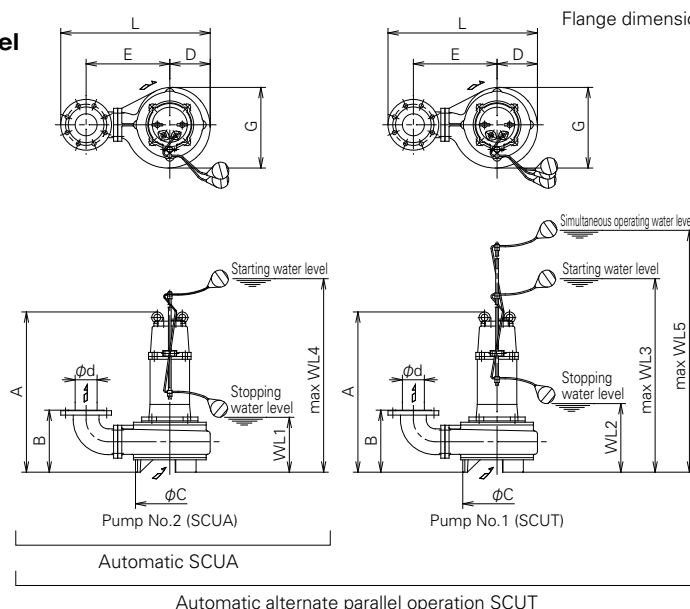
Dimensions

| Bore diameter d | Type | Output kW | Pump | | | | | | | Operating water level | | Approx. mass kg |
|--------------------|-------------|--------------|------|-----|-----|-----|-----|-----|-----|-----------------------|-----|-----------------------|
| | | | A | B | C | D | E | G | L | WL1 | WL2 | |
| 50 | 50SCU-6.75 | 0.75 | 504 | 205 | 170 | 110 | 205 | 220 | 393 | 190 | 410 | 38.5 |
| | 50SCU-61.5 | 1.5 | 531 | 205 | 215 | 138 | 230 | 275 | 445 | 190 | 439 | 50 |
| | 50SCU-62.2 | 2.2 | 548 | 205 | 215 | 138 | 230 | 275 | 445 | 190 | 442 | 55 |
| 65 | 65SCU-61.5 | 1.5 | 561 | 228 | 170 | 110 | 215 | 220 | 413 | 220 | 469 | 48 |
| | 65SCU-62.2 | 2.2 | 578 | 228 | 230 | 138 | 240 | 275 | 465 | 220 | 472 | 59 |
| | 65SCU-63.7 | 3.7 | 613 | 228 | 230 | 138 | 240 | 275 | 465 | 220 | 507 | 65 |
| | 65SCU-65.5 | 5.5 | 720 | 228 | 285 | 158 | 271 | 312 | 516 | 320 | 670 | 132 |
| | 65SCU-67.5 | 7.5 | 720 | 228 | 285 | 158 | 271 | 312 | 516 | 320 | 670 | 147 |
| | 80SCU-62.2 | 2.2 | 618 | 245 | 220 | 138 | 285 | 281 | 515 | 260 | 512 | 65 |
| 80 | 80SCU-63.7 | 3.7 | 653 | 245 | 220 | 138 | 285 | 281 | 515 | 260 | 547 | 71 |
| | 80SCU-65.5 | 5.5 | 760 | 245 | 280 | 158 | 316 | 324 | 566 | 360 | 710 | 138 |
| | 80SCU-67.5 | 7.5 | 760 | 245 | 280 | 158 | 316 | 324 | 566 | 360 | 710 | 151 |
| | 80SCU-611 | 11 | 846 | 300 | 380 | 196 | 341 | 430 | 630 | 370 | 790 | 253 |
| | 80SCU-615 | 15 | 917 | 300 | 380 | 196 | 341 | 430 | 630 | 390 | 860 | 276 |
| | 80SCU-618 | 18.5 | 967 | 300 | 380 | 196 | 341 | 430 | 630 | 390 | 910 | 264 |
| 100 | 100SCU-63.7 | 3.7 | 693 | 310 | 220 | 138 | 260 | 279 | 503 | 300 | 587 | 78 |
| | 100SCU-65.5 | 5.5 | 802 | 312 | 260 | 157 | 291 | 313 | 553 | 400 | 750 | 145 |
| | 100SCU-67.5 | 7.5 | 802 | 312 | 260 | 157 | 291 | 313 | 553 | 400 | 750 | 158 |
| | 100SCU-611 | 11 | 886 | 330 | 384 | 200 | 361 | 430 | 666 | 410 | 830 | 260 |
| | 100SCU-615 | 15 | 957 | 330 | 384 | 200 | 361 | 430 | 666 | 430 | 900 | 283 |
| | 100SCU-618 | 18.5 | 1007 | 330 | 384 | 200 | 361 | 430 | 666 | 430 | 950 | 271 |
| | 100SCU-622 | 22 | 1007 | 330 | 384 | 200 | 361 | 430 | 666 | 430 | 950 | 295 |

(Unit: mm)

Assembly drawing

- Automatic SCUA
- Automatic alternate parallel operation SCUT



Flange dimensions: JIS 10K thin type or equivalent

Dimensions

| Bore diameter d | Type | Output kW | Pump | | | | | | | Operating water level | | | | | Approx. mass kg |
|--------------------|------------------|--------------|------|-----|-----|-----|-----|-----|-----|-----------------------|-----|------|------|------|-----------------------|
| | | | A | B | C | D | E | G | L | WL1 | WL2 | WL3 | WL4 | WL5 | |
| 50 | 50SCUA (T)-6.75 | 0.75 | 569 | 205 | 170 | 110 | 205 | 220 | 393 | 190 | 240 | 1363 | 1463 | 1763 | 38 |
| | 50SCUA (T)-61.5 | 1.5 | 608 | 205 | 215 | 138 | 230 | 275 | 445 | 190 | 240 | 1403 | 1503 | 1803 | 48.5 |
| | 50SCUA (T)-62.2 | 2.2 | 620 | 205 | 215 | 138 | 230 | 275 | 445 | 190 | 240 | 1420 | 1520 | 1820 | 55.5 |
| 65 | 65SCUA (T)-61.5 | 1.5 | 638 | 228 | 170 | 110 | 215 | 220 | 413 | 220 | 270 | 1433 | 1533 | 1833 | 48.5 |
| | 65SCUA (T)-62.2 | 2.2 | 650 | 228 | 230 | 138 | 240 | 275 | 465 | 220 | 270 | 1450 | 1550 | 1850 | 59.5 |
| | 65SCUA (T)-63.7 | 3.7 | 685 | 228 | 230 | 138 | 240 | 275 | 465 | 220 | 270 | 1493 | 1593 | 1893 | 65.5 |
| 80 | 80SCUA (T)-62.2 | 2.2 | 690 | 245 | 220 | 138 | 285 | 281 | 515 | 260 | 310 | 1490 | 1590 | 1890 | 65.5 |
| | 80SCUA (T)-63.7 | 3.7 | 725 | 245 | 220 | 138 | 285 | 281 | 515 | 260 | 310 | 1533 | 1633 | 1933 | 71.5 |
| 100 | 100SCUA (T)-63.7 | 3.7 | 765 | 310 | 220 | 138 | 260 | 279 | 503 | 300 | 350 | 1573 | 1673 | 1973 | 78.5 |

(Unit: mm)

Note) Set the operating water level for SCUT model to $WL1 < WL2 < WL3 < WL4 < WL5$ and make the difference in water level of each float 50mm or more.

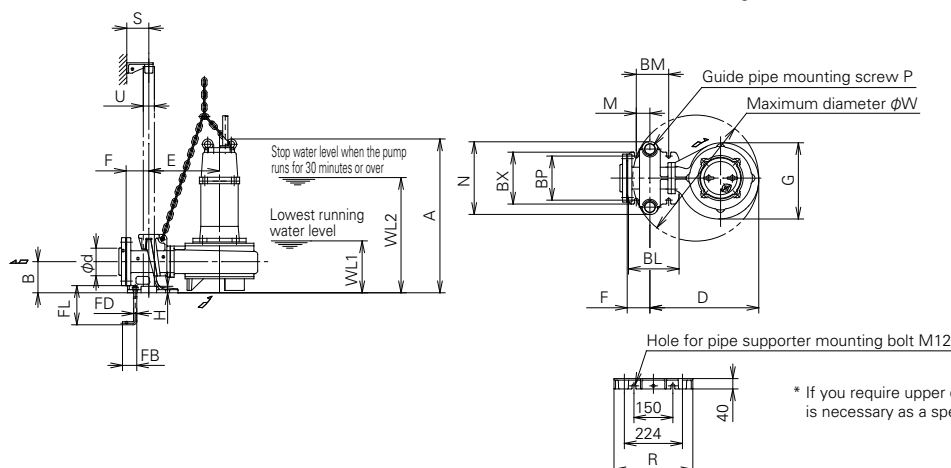
Approximate mass is for one unit.

Note 1) In case of SCUT type, the required power supply capacity is equal to the motor output of 2 pumps.

Assembly drawing

Non-automatic SCU +C-type detachable device

Flange dimensions: JIS 10K thin type or equivalent



* If you require upper discharge, a bend pipe is necessary as a special accessory.

Dimensions

(Unit: mm)

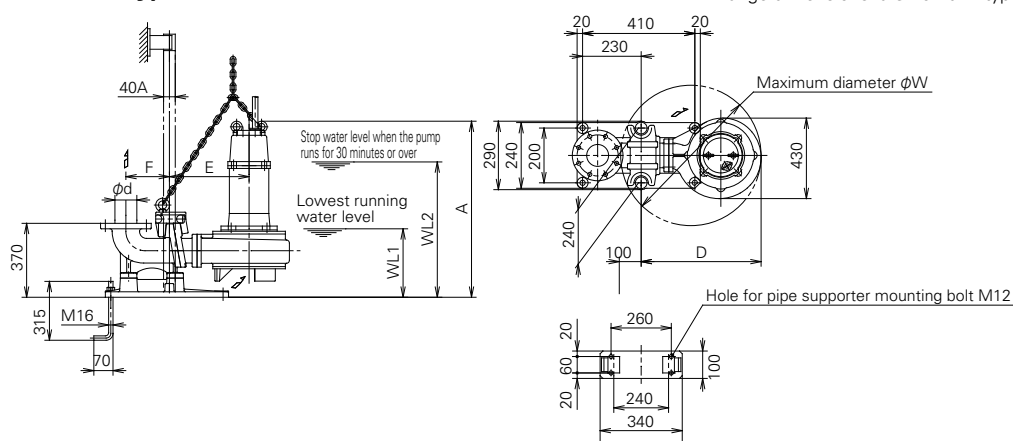
| Bore diameter d | Type | Output kW | Pump | | | | | | | | Detachable device | | | | | | | | Pipe supporter | | Foundation bolt | | | Operating water level | | Lifting mass kg |
|--------------------|---------------|--------------|------|-----|-----|-----|-----|-----|----|-----|-------------------|----|-----|------|-----|-----|-----|-----|----------------|-----|-----------------|-----|-----|-----------------------|-----|-----------------------|
| | | | A | B | D | E | F | G | S | W | H | M | N | P | BL | BM | BP | BX | R | U | FB | FD | FL | WL1 | WL2 | |
| 50 | 50SCU-6.75-C | 0.75 | 539 | 120 | 317 | 207 | 84 | 220 | 75 | 382 | 20 | 51 | 275 | Rp1 | 170 | 115 | 130 | 160 | 304 | 25A | 55 | M12 | 250 | 230 | 440 | 38.5 |
| | 50SCU-61.5-C | 1.5 | 566 | 120 | 369 | 232 | 84 | 275 | 75 | 430 | 20 | 51 | 275 | Rp1 | 170 | 115 | 130 | 160 | 304 | 25A | 55 | M12 | 250 | 230 | 469 | 50 |
| | 50SCU-62.2-C | 2.2 | 583 | 120 | 369 | 232 | 84 | 275 | 75 | 430 | 20 | 51 | 275 | Rp1 | 170 | 115 | 130 | 160 | 304 | 25A | 55 | M12 | 250 | 230 | 472 | 56 |
| 65 | 65SCU-61.5-C | 1.5 | 574 | 120 | 323 | 218 | 88 | 220 | 85 | 398 | 25 | 53 | 280 | Rp1½ | 195 | 125 | 170 | 200 | 314 | 32A | 55 | M12 | 250 | 240 | 479 | 48 |
| | 65SCU-62.2-C | 2.2 | 590 | 120 | 380 | 243 | 88 | 275 | 85 | 450 | 25 | 53 | 280 | Rp1½ | 195 | 125 | 170 | 200 | 314 | 32A | 55 | M12 | 250 | 240 | 482 | 59 |
| | 65SCU-63.7-C | 3.7 | 625 | 120 | 380 | 243 | 88 | 275 | 85 | 450 | 25 | 53 | 280 | Rp1½ | 195 | 125 | 170 | 200 | 314 | 32A | 55 | M12 | 250 | 240 | 517 | 65 |
| | 65SCU-65.5-C | 5.5 | 703 | 120 | 430 | 274 | 88 | 312 | 85 | 496 | 25 | 53 | 280 | Rp1½ | 195 | 125 | 170 | 200 | 314 | 32A | 55 | M12 | 250 | 340 | 680 | 132 |
| | 65SCU-67.5-C | 7.5 | 703 | 120 | 430 | 274 | 88 | 312 | 85 | 496 | 25 | 53 | 280 | Rp1½ | 195 | 125 | 170 | 200 | 314 | 32A | 55 | M12 | 250 | 340 | 680 | 145 |
| 80 | *80SCU-62.2-C | 2.2 | 658 | 170 | 404 | 266 | 104 | 281 | 95 | 476 | 25 | 59 | 290 | Rp1½ | 245 | 155 | 200 | 240 | 314 | 40A | 70 | M16 | 315 | 300 | 552 | 65 |
| | *80SCU-63.7-C | 3.7 | 693 | 170 | 404 | 266 | 104 | 281 | 95 | 476 | 25 | 59 | 290 | Rp1½ | 245 | 155 | 200 | 240 | 314 | 40A | 70 | M16 | 315 | 300 | 587 | 71 |
| | *80SCU-65.5-C | 5.5 | 800 | 170 | 460 | 297 | 104 | 324 | 95 | 526 | 25 | 59 | 290 | Rp1½ | 245 | 155 | 200 | 240 | 314 | 40A | 70 | M16 | 315 | 400 | 750 | 138 |
| | *80SCU-67.5-C | 7.5 | 800 | 170 | 460 | 297 | 104 | 324 | 95 | 526 | 25 | 59 | 290 | Rp1½ | 245 | 155 | 200 | 240 | 314 | 40A | 70 | M16 | 315 | 400 | 750 | 151 |
| 100 | 100SCU-63.7-C | 3.7 | 703 | 170 | 404 | 266 | 104 | 279 | 95 | 476 | 25 | 59 | 290 | Rp1½ | 245 | 155 | 200 | 240 | 314 | 40A | 70 | M16 | 315 | 310 | 597 | 74 |
| | 100SCU-65.5-C | 5.5 | 810 | 170 | 454 | 297 | 104 | 313 | 95 | 522 | 25 | 59 | 290 | Rp1½ | 245 | 155 | 200 | 240 | 314 | 40A | 70 | M16 | 315 | 410 | 760 | 141 |
| | 100SCU-67.5-C | 7.5 | 810 | 170 | 454 | 297 | 104 | 313 | 95 | 522 | 25 | 59 | 290 | Rp1½ | 245 | 155 | 200 | 240 | 314 | 40A | 70 | M16 | 315 | 410 | 760 | 155 |

*Special flange is used.

Assembly drawing

Non-automatic SCU +SEC-type detachable device

Flange dimensions: JIS 10K thin type or equivalent



Dimensions

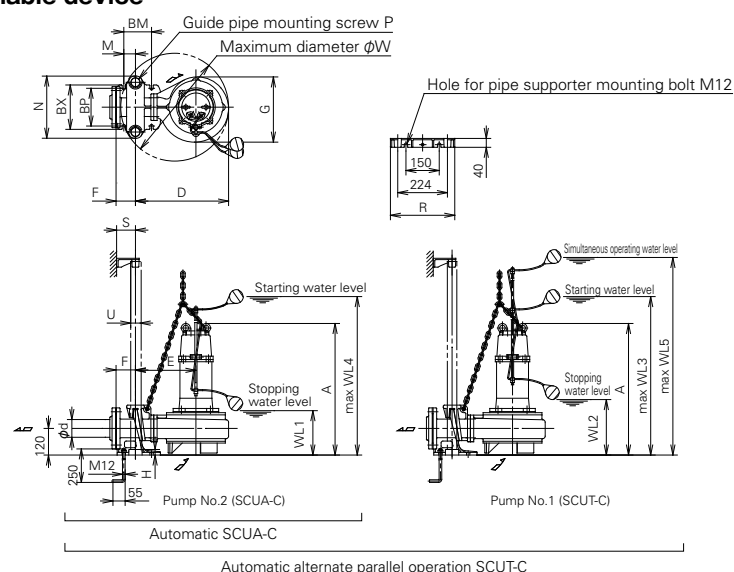
(Unit: mm)

| Bore diameter d | Type | Output kW | Pump | | | Detachable device | Operating water level | | Maximum diameter φW | Lifting mass kg |
|--------------------|--------------|--------------|------|-----|-----|-------------------|-----------------------|------|------------------------|--------------------|
| | | | A | D | E | | WL1 | WL2 | | |
| 80 | 80SCU-611-S | 11 | 946 | 572 | 376 | 155 | 470 | 890 | 668 | 276 |
| | 80SCU-615-S | 15 | 1017 | 572 | 376 | 155 | 480 | 960 | 668 | 300 |
| | 80SCU-618-S | 18.5 | 1067 | 572 | 376 | 155 | 480 | 1010 | 668 | 287 |
| 100 | 100SCU-611-S | 11 | 956 | 596 | 396 | 175 | 480 | 900 | 684 | 285 |
| | 100SCU-615-S | 15 | 1027 | 596 | 396 | 175 | 490 | 970 | 684 | 307 |
| | 100SCU-618-S | 18.5 | 1077 | 596 | 396 | 175 | 490 | 1020 | 684 | 295 |
| | 100SCU-622-S | 22 | 1077 | 596 | 396 | 175 | 490 | 1020 | 684 | 319 |

Assembly drawing

Automatic type (automatic alternate parallel operation) SCUA (T) +C-type detachable device

Flange dimensions: JIS 10K thin type or equivalent



Dimensions

* If you require upper discharge, a bend pipe is necessary as a special accessory.

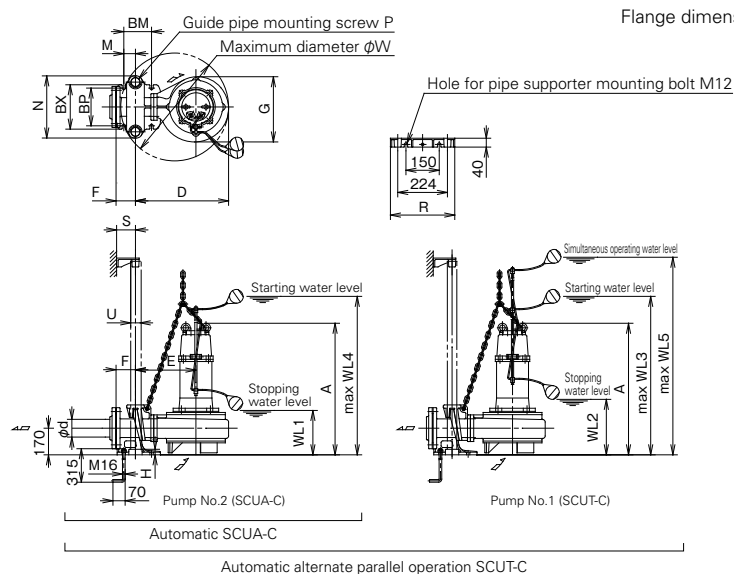
(Unit: mm)

| Bore diameter d | Type | Output kW | Pump | | | | | | | | Detachable device | | | | | | Pipe supporter | | Operating water level | | | | | Lifting mass kg |
|--------------------|------------------|--------------|------|-----|-----|----|-----|----|-----|----|-------------------|-----|------|-----|-----|-----|----------------|-----|-----------------------|-----|------|------|------|--------------------|
| | | | A | D | E | F | G | S | W | H | M | N | P | BM | BP | BX | R | U | WL1 | WL2 | WL3 | WL4 | WL5 | |
| 50 | 50SCUA(T)-6.75-C | 0.75 | 604 | 317 | 207 | 84 | 220 | 75 | 382 | 20 | 51 | 275 | Rø1 | 115 | 130 | 160 | 304 | 25A | 230 | 280 | 1403 | 1503 | 1803 | 39 |
| | 50SCUA(T)-61.5-C | 1.5 | 643 | 369 | 232 | 84 | 275 | 75 | 430 | 20 | 51 | 275 | Rø1 | 115 | 130 | 160 | 304 | 25A | 230 | 280 | 1443 | 1543 | 1843 | 50.5 |
| | 50SCUA(T)-62.2-C | 2.2 | 655 | 369 | 232 | 84 | 275 | 75 | 340 | 20 | 51 | 275 | Rø1 | 115 | 130 | 160 | 304 | 25A | 230 | 280 | 1460 | 1560 | 1860 | 56.5 |
| 65 | 65SCUA(T)-61.5-C | 1.5 | 651 | 323 | 218 | 88 | 220 | 85 | 398 | 25 | 53 | 280 | Rø1½ | 125 | 170 | 200 | 314 | 32A | 240 | 290 | 1443 | 1543 | 1843 | 48.5 |
| | 65SCUA(T)-62.2-C | 2.2 | 662 | 380 | 243 | 88 | 275 | 85 | 450 | 25 | 53 | 280 | Rø1½ | 125 | 170 | 200 | 314 | 32A | 240 | 290 | 1470 | 1570 | 1870 | 59.5 |
| | 65SCUA(T)-63.7-C | 3.7 | 697 | 380 | 243 | 88 | 275 | 85 | 450 | 25 | 53 | 280 | Rø1½ | 125 | 170 | 200 | 314 | 32A | 240 | 290 | 1503 | 1603 | 1903 | 65.5 |

Note) Set the operating water level for SCUT model to WL1<WL2<WL3<WL4<WL5 and make the difference in water level of each float 50mm or more.

Approximate mass is for one unit.

Note 1) In case of SCUT type, the required power supply capacity is equal to the motor output of 2 pumps.



Flange dimensions: JIS 10K thin type or equivalent

Dimensions

* If you require upper discharge, a bend pipe is necessary as a special accessory.

(Unit: mm)

| Bore diameter d | Type | Output kW | Pump | | | | | | | | Detachable device | | | | | | Pipe supporter | | Operating water level | | | | | Lifting mass kg |
|--------------------|-------------------|--------------|------|-----|-----|-----|-----|----|-----|----|-------------------|-----|------|-----|-----|-----|----------------|-----|-----------------------|-----|------|------|------|--------------------|
| | | | A | D | E | F | G | S | W | H | M | N | P | BM | BP | BX | R | U | WL1 | WL2 | WL3 | WL4 | WL5 | |
| 80 | 80SCUA(T)-62.2-C | 2.2 | 730 | 404 | 266 | 104 | 281 | 95 | 476 | 25 | 59 | 290 | Rø1½ | 155 | 200 | 240 | 314 | 40A | 300 | 350 | 1530 | 1630 | 1930 | 65.5 |
| | 80SCUA(T)-63.7-C | 3.7 | 765 | 404 | 266 | 104 | 281 | 95 | 476 | 25 | 59 | 290 | Rø1½ | 155 | 200 | 240 | 314 | 40A | 300 | 350 | 1573 | 1673 | 1973 | 71.5 |
| 100 | 100SCUA(T)-63.7-C | 3.7 | 775 | 404 | 266 | 104 | 279 | 95 | 476 | 25 | 59 | 290 | Rø1½ | 155 | 200 | 240 | 314 | 40A | 310 | 360 | 1583 | 1683 | 1983 | 74.5 |

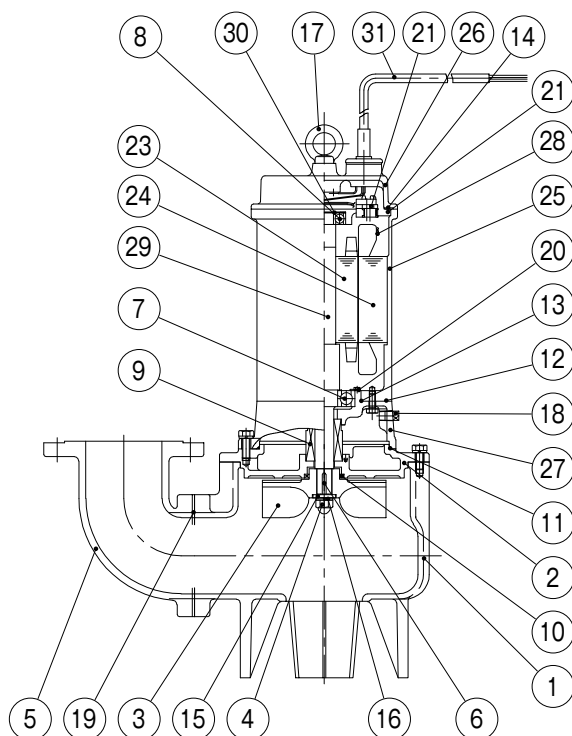
Note) Set the operating water level for SCUT model to WL1<WL2<WL3<WL4<WL5 and make the difference in water level of each float 50mm or more.

Approximate mass is for one unit.

Note 1) In case of SCUT type, the required power supply capacity is equal to the motor output of 2 pumps.

Sectional drawing

●Non-automatic SCU 0.75~3.7kW

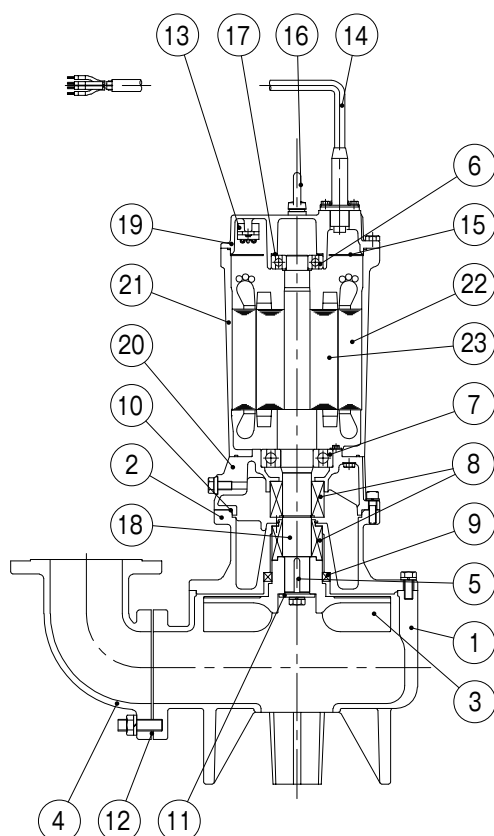


Parts list

| No. | Part name | Qty | Material |
|-----|-----------------|-----|-------------------------------|
| 1 | Casing | 1 | FC200 |
| 2 | Seal cover | 1 | FC200 |
| 3 | Impeller | 1 | FC200 |
| 4 | Impeller nut | 1 | SUS304 |
| 5 | Discharge elbow | 1 | FC200 |
| 6 | Key | 1 | SUS304 |
| 7 | Ball bearing | 1 | SUJ |
| 8 | Ball bearing | 1 | SUJ |
| 9 | Mechanical seal | 1 | SiC~SiC/ Ceramic vs Carbon |
| 10 | Oil seal | 1 | NBR |
| 11 | O-ring | 1 | NBR |
| 12 | O-ring | 1 | NBR |
| 13 | O-ring | 1 | NBR |
| 14 | Synthetic paper | 1 | NBR |
| 15 | Washer | 1 | SUS403 |
| 16 | Spring washer | 1 | SUS304 |
| 17 | Eye bolt | 2 | SS400 |
| 18 | Plug | 1 | SUS304 |
| 19 | Gasket | 1 | Joint sheet |
| 20 | Lock plate | 1 | SPCC |
| 21 | Upper bracket | 1 | FC200 |
| 22 | Protector | 1 | — |
| 23 | Rotor | 1 | S40 |
| 24 | Stator | 1 | S40 |
| 25 | Motor frame | 1 | FC200 |
| 26 | Protector | 1 | — |
| 27 | Lower bracket | 1 | FC200 |
| 28 | Stator winding | 1 | Cu |
| 29 | Motor shaft | 1 | SUS403 |
| 30 | Wave washer | 1 | Carbon steel |
| 31 | Lead wire | 1 | VCT222 |

Applicable model : 50SCU-6.75 / 50SCU-61.5 /
50SCU-62.2 / 65SCU-61.5 /
65SCU-62.2 / 65SCU-63.7 /
80SCU-62.2 / 80SCU-63.7 /
100SCU-63.7

●Non-automatic SCU 5.5-7.5kW

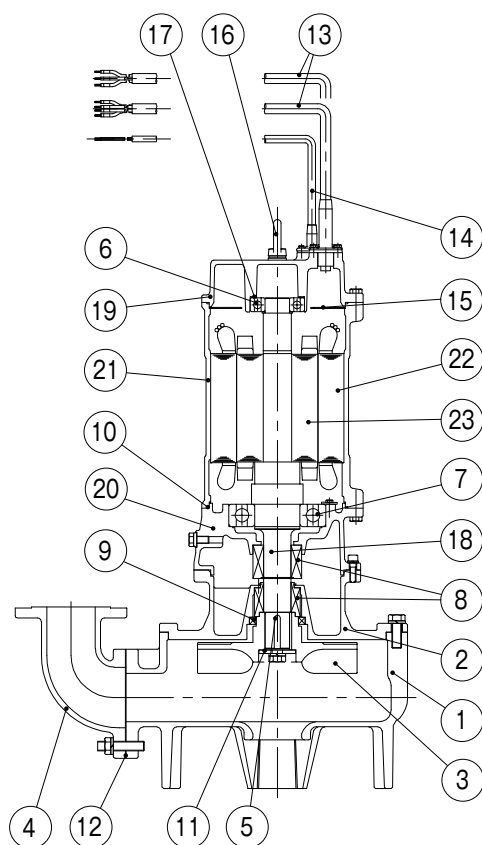


| No. | Part name | Qty | Material |
|-----|-----------------|-----|------------------------------|
| 1 | Casing | 1 | FC200 |
| 2 | Seal cover | 1 | FC200 |
| 3 | Impeller | 1 | FC200 |
| 4 | Discharge elbow | 1 | FC200 |
| 5 | Key | 1 | SUS304 |
| 6 | Ball bearing | 1 | SUJ |
| 7 | Ball bearing | 1 | SUJ |
| 8 | Mechanical seal | 1 | SiC~SiC Ceramic vs Carbon |
| 9 | Oil seal | 1 | NBR |
| 10 | O-ring | 1 | NBR |
| 11 | Washer | 1 | SUS304 |
| 12 | Sheet packing | 1 | Synthetic paper |
| 13 | Protector | 1 | — |
| 14 | Lead wire | 1 | VCT |
| 15 | Baffle | 1 | Bakelite |
| 16 | Eye bolt | 2 | S25C |
| 17 | Wave washer | 1 | S58C |
| 18 | Motor shaft | 1 | SUS420J1 |
| 19 | Upper bracket | 1 | FC200 |
| 20 | Lower bracket | 1 | FC200 |
| 21 | Motor frame | 1 | FC200 |
| 22 | Stator | 1 | — |
| 23 | Rotor | 1 | — |

Applicable model : 65SCU-65.5 / 65SCU-67.5 /
80SCU-65.5 / 80SCU-67.5 /
100SCU-65.5 / 100SCU-67.5

Sectional drawing

●Non-automatic SCU 11-22kW



Parts list

| No. | Part name | Qty | Material |
|-----|---------------------------------|-----|------------------------------|
| 1 | Casing | 1 | FC200 |
| 2 | Seal cover | 1 | FC200 |
| 3 | Impeller | 1 | FC200 |
| 4 | Discharge elbow | 1 | FC200 |
| 5 | Key | 1 | SUS304 |
| 6 | Ball bearing | 1 | SUJ |
| 7 | Ball bearing | 1 | SUJ |
| 8 | Mechanical seal | 1 | SiC~SiC Ceramic vs Carbon |
| 9 | Oil seal | 1 | NBR |
| 10 | O-ring | 1 | NBR |
| 11 | Washer | 1 | SUS304 |
| 12 | Sheet packing | 1 | Synthetic paper |
| 13 | Lead wire (for power supply) | 2 | VCT/2PNCT |
| 14 | Lead wire (for signal) | 1 | VCT |
| 15 | Baffle | 1 | Bakelite |
| 16 | Eye bolt | 2 | S25C |
| 17 | Wave washer | 1 | S58C |
| 18 | Motor shaft | 1 | SUS420J1 |
| 19 | Upper bracket | 1 | FC200 |
| 20 | Lower bracket | 1 | FC200 |
| 21 | Motor frame | 1 | FC200 |
| 22 | Stator | 1 | |
| 23 | Rotor | 1 | |

Applicable model : 80SCU-611 / 80SCU-615 /
80SCU-618 / 100SCU-611 /
100SCU-615 / 100SCU-618 /
100SCU-622

MEMO

This image shows a full page of handwriting practice paper. It features multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no margins or additional markings.

MEMO



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