



-20 to +60°C / 5 to 80%RH

| NAME                           | VL series   |                |                |                |
|--------------------------------|---|----------------|----------------|----------------|
| MODEL                          | SE-23VLKT   | SE-24VLKT      | SE-25VLKT      | SE-27VLKT      |
| POWER SUPPLY                   | AC 200V ±10% 3φ 50 / 60Hz   |                |                |                |
| ELB                            | 30A   | 40A            | 40A            | 50A            |
| CONTROL SYSTEM                 | Balanced Temperature and Humidity Control system (BTHC system)  |                |                |                |
| OPERATING CONDITIONS           | Ambient: ±0 to +35°C, 20 to 80%RH   |                |                |                |
| PERFORMANCE                    |   |                |                |                |
| Temp. / Humid. range           | -20 to +60°C / 5 to 80%RH   |                |                |                |
| Fluctuation                    | ±0.3°C / ±2.5 %RH   |                |                |                |
| Variation in space             | 2.0°C / 5.0 %RH   |                |                |                |
| Temperature rise time          | -20 to +60°C within 45 min. at refrigerator OFF   |                |                |                |
| Temperature fall time          | +20 to -20°C within 60 min.   |                |                |                |
| Lowest temperature             | -20°C   |                |                |                |
| CONFIGURATION                  |   |                |                |                |
| Controller                     | KATO KT instrumentation   |                |                |                |
| Internal material              | 18Cr-8Ni stainless steel plate, grinding finished   |                |                |                |
| External material              | 18Cr stainless steel plate, line finished   |                |                |                |
| Insulating material            | Glass wool / Silicone packing   |                |                |                |
| REFRIGERATING SYSTEM           | Single condensing refrigerating system : Air cooling or Water cooling   |                |                |                |
| Refrigerator                   | Complete closed type compressor   |                |                |                |
| Out put                        | 0.75 kW   | 0.75 kW        | 1.1 kW         | 1.1 kW         |
| Power ability changing         | Multi step automatic switching system by micro computer control   |                |                |                |
| Cooling coil                   | Plate fin cooler : Corrosion prevention coating finishes  |                |                |                |
| DRY HEATER                     | stainless steel sheath heater   |                |                |                |
| WET HEATER                     | stainless steel plug heater   |                |                |                |
| BLOWER FAN                     | Sirocco fan   |                |                |                |
| DEHUMIDIFIER                   | Desiccant rotor   |                |                |                |
| ACCESSORIES                    | Observation window : W250×H350mm with Heating wire, Cable hole 30φ ×1pc, Adjustable shelf ×2 sets, Halogen room lamp, Caster, Adjuster  |                |                |                |
| SAFETY UNITS                   | Earth leakage circuit breaker, Boiling without water prevention unit, Mixing motor overload relay, Overload and short circuit protector for SSR, Overload and short circuit protecting fuse for operating circuit, Phase reverse relay, Water pressure switch for water cooling type, Refrigerator overload relay, Alarm of temperature limit error, Overheat prevention unit, Refrigerator pressure switch |                |                |                |
| WATER SUPPLYING SYSTEM         | Water pump-up with natural gravitation method or Supply from waterworks   |                |                |                |
| Water tank                     | fixed tank on the chamber 1 set   |                |                |                |
| OPTIONS                        | Recorder, Cable hole 30, 50, 100φ , Shelf, Operation holes, Interface RS-232C, Excessive cooling preventive unit, Deionizer for humidifying water, Gauze wick, Tank with automatic pump-up function, See-through door, Time signal unit, Defroster  |                |                |                |
| INTERNAL CAPACITY (L)          | 175   | 288            | 441            | 800            |
| INTERNAL DIMENSIONS : W.H.D.mm | 500× 700× 500   | 600× 800× 600  | 700× 900× 700  | 1000×1000× 800 |
| EXTERNAL DIMENSIONS : W.H.D.mm | 1780×1650× 950  | 1880×1650×1050 | 1980×1750×1150 | 2280×1910×1250 |
| WEIGHT (kg)                    | 380   | 440            | 470            | 670            |

- \*The performance values are based on JTM K-09, IEC60068-3-6:2001, and no specimen inside the test area.
- \*The rising and falling performances are given at an ambient temperature of +20°C, or with a cooling water temperature of +25°C.
- \*Humidifying water quality should be PH 6.0 to 7.2, electrical conducting rate is less than 0.02mS/cm.
- \*External dimensions shown are for the dehumidifier placed horizontally type.
- \*The above specifications may be changed for any improvement of product without giving any preliminary notification.

Temperature & Humidity Control Range (VL-Type)

