Chapter 1 Specifications

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1-1. Outline

This device is a compact desktop copier, which functions as an electrophotographic copy machine with the mirror zoom enlargement/reduction function, document table fixed type optical section and front loading paper feed method.

1-2. Guaranteed working conditions

1) Standard No. of printed copies per month : 1,000 copies
2) Max. No. of printed copies per month : 5,000 copies
3) Machine service life: 150,000 copies or 5 years
4) Continuous copies : 1 ~ 99 copies
5) Machine operating environment
   Temperature:10~30ºC, Humidity: 30~80%RH
   * With no dew condensation.
6) Storage conditions (storage place)
   When storing the packaged part for a long time, store the unit indoors. As a principle, maintain a constant temperature and constant humidity, and take special care to prevent water, dust and wind. Avoid installing the unit in the places can be exposed to the direct rays or vigorous vibration. (The storage conditions required in this item also apply to transportation.)

Main unit storage conditions

Temperature: Normal (9/10 of total storage period) 0~35ºC Severe (1/10 of total storage period) High temperature : 35~45ºC Low temperature : -10~0ºC
Tolerable temperature fluctuation (3 min. or more): 45ºC→15ºC -10ºC→25ºC
Humidity: Normal (9/10 of total storage period) 20~80% Severe (1/10 of total storage period) High humidity : 80~95% Low humidity : 5~20%
Atmospheric pressure: 613~1013hPa
Storage period: One year

* Excluding developing unit and drum unit
  Humidity: With no dew condensation

Developing unit and drum unit

* When packed:
  Store under conditions shown in the table below.
* When unpacked:
  Basically, the units should be installed in the main unit.
  When storing as a single part after opening the package, the normal temperature and humidity conditions given below must be applied. Also, note that it must be shielded from the light.

Temperature: Normal (9/10 of total storage period) 0~35ºC Severe (1/10 of total storage period) High temperature : 35~40ºC Low temperature : -10~0ºC
Tolerable temperature fluctuation (3 min. or more): 40ºC→15ºC -10ºC→25ºC
Humidity: Normal (9/10 of total storage period) 20~80% Severe (1/10 of total storage period) High humidity : 80~95% Low humidity : 5~20%
Atmospheric pressure: 613~1013hPa
Storage period: One year

* Humidity: With no dew condensation

7) Working power supply
   (Power supply range): 120V± 10%
   230V + 10.6% / -14%
   (Voltage fluctuation range)
   When the device is at the max. load, the voltage drop must be within 3% in respect to the no-load state.
   (Frequency range)
   Waveform: Sine wave, distortion 5% or less
   Frequency: 60Hz±2Hz (USA)
   50/60Hz±2Hz (EU)
8) Installation conditions
   1. Avoid high temperature/high humidity places, or low temperature/low humidity places.
   2. Avoid installing the units in the place where they can be exposed to the direct rays, or near heat sources such as stoves or heaters.
   3. Avoid installing the units in the places having high dust levels.
   4. Avoid installing the units in the places where the temperature changes suddenly.

5. Do not install in the places where the unit can be exposed to the direct blow-off from air-conditioners, heating appliances or ventilation ports.
6. Leave at least 20cm or more between the unit and wall so that the intake to the unit and exhaust from the unit is not obstructed.
7. Avoid installing the units in the places exposed to vigorous vibration.
8. Do not install on a place where the floor or foundation is unstable or not level. The inclination angle must be within 1 degree, and the flatness within 2mm.

9) Designated consumable parts Always use the designated consumable parts.

10) Copy paper characteristics

Weight range: 60 ~ 80g/m^2
Dimensional error: ±1mm (when using cassette)
±2mm (when using manual feed)
Angle: 90º±0.2º

(Caution) The paper other than the standard designated one will not be subject to the reliability evaluation.

⚠1 (Double-sided copying)
* Use the manual feed tray.
* Use the standard designated paper.
* Make sure that the paper is not warped, torn, wrinkled or cut.
* Paper that has been exposed to a highly humid environment cannot be used.

1-3. General specifications

1) Type : Desktop type, front loading
2) Copying system : Indirect electrostatic method
3) Photoconductor : Organic Photoconductor
4) Charging system : DC negative corona with scorotron system
5) Development system : Dry type two-element magnetic brush development method
6) Toner control system : Magnetic flux density detection system
7) Toner collection system: Recycle system
8) Image traceability : Corresponding to 15% or less of document B/W ratio
9) Transfer system : DC transfer roller system
10) Paper sperating system : Curvature separation
11) Fusing system : Heat roller fusing system
512) Cleaning system : Blade cleaning system
13) Platen : Stationary
14) Copy document : Sheet, book (Max. B4/LG size)
15) Copy size : Max. A4/LG size
16) Paper feed :
(Paper feed system)
1-step cassette: Claw separation U-turn paper feed system
Manual paper feed system: Slip roller feed system

⚠1 (Copy paper size)
Cassette: LG, LT, A4, B5, A5
F:8 x13"(203 x 330mm)
8 1/2 x 13"(216x330mm)
8 1/4 x 13"(210x330mm)
206 x 337mm
Manual feed: LG to A6
(Min. paper passing length: 140mm,
Min.paper passing width: 95mm)

(Copy paper capacity)
Standard: 250 sheets x 1 cassette + 1 manual feed sheet
Option: 250 sheets x 1 cassette

⚠1 (Copy paper weight)
Cassette: 60 ~ 80g/m^2
Manual feed: 60 ~ 128g/m^2,

⚠1 17) Paper exit tray
Paper exit capacity: 50 sheets(80g/m^2)
Paper exit surface: Face up

18) Warm up time: Approx. 20 sec. (ambient environment 23ºC)
19) Power consumption: Max. 1.3KW

⚠1 20) Outline dimensions
(Including manual feed guide):
583(w) x 536(D) x 343(H)mm
(Package dimensions): 768(w) x 694(D) x 480(H)mm

⚠1 21) Weight: Approx. 29.2Kg(Including toner, developer and drum)
Packed: Approx. 37.2Kg, excluding developer and toner)

1-4. Copy specifications

1) Copy speed: LT/A4 12 sheets/min.
LG 10 sheets/min.
2) First copy time: A4/LT 7.9 sec.
3) Exposure system: Mirror scanning, slit exposure.
4) Zoom:
Fixed zoom: Enlargement
129%(USA)
141%(EU)
Reduction
77%(USA)
82%,71%(EU)
Random zoom: 70% ~ 141%, 1 % increments

5) Light source: Halogen lamp
6) Platen: Stationary
7) Document type: Sheet, book
8) Document weight: Max. 2Kg
9) Copy size: Max. A4/LG size
10) Density selection: Manual selection
11) Continuous copies: 1~ 99 copies

SDH(Single document handler)
This service handbook includes Konica 1312F information that will be commercialized with SDH function.

Note:These specifications are subject to change without notice.

1-5. Consumable parts specifications

1) Toner cartridge
Life: 5,000 sheets(B/W 6%, A4/LT size)
(Cautions for handling)
* Store in a cool, dark place with low humidity.
* Shake well before use.
* Always follow the instruction manual
2) Developing unit and drum unit
Life: 25,000 sheets

1-6. Option specifications

Cassette feeder (PF-105 / 105H)
1) Paper size: LG, LT, A4, B5, A5
F: 8 x13"(203 x 330mm)
8 1/2 x 13"(216x330mm)
8 1/4 x 13"(210x330mm)
206 x 337mm
2) Paper weight: 60 ~ 80g/m^2
3) Cassette capacity: 250 sheets
4) Outline dimensions: 501(w) x 508(D) x 96(H)mm
* Excluding projections
5) Weight: 4.6Kg
* Excluding packing materials
6) Power supply: Supplied from main unit
24VDC 400mA(Max)
5VDC 100mA(Max)

1-7. Factory installed options specifications

Cassette heater
1) Heater type: PTC element (Posi-star thermistor)
2) Power supply: 100 ~ 240VAC 50/60Hz Max. 15W
3) Power ON method: Power ON constantly including when main power switch is OFF
△1 4) Layout: Below main unit cassette (Other than Europe, America and Oceania distination) and cassette feeder. (Only for PF-105H)