D705
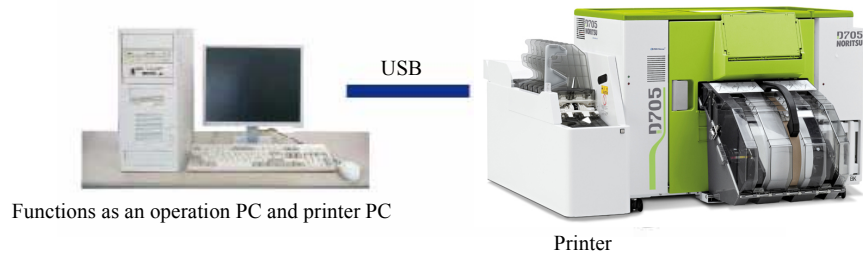
Specifications

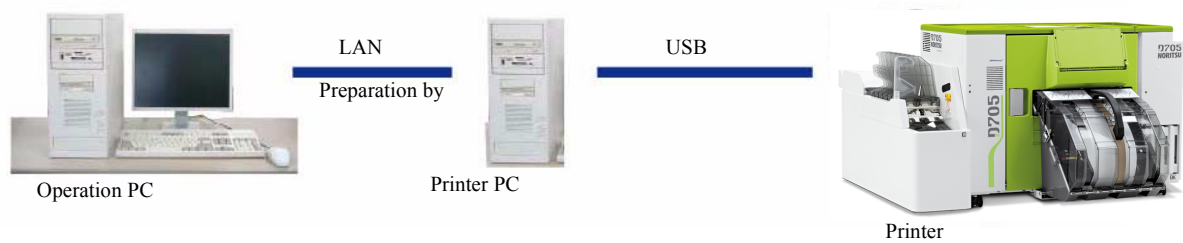# Specifications

Example: If using a PC that functions as both operation PC and printer PC

USB

Functions as an operation PC and printer PC

Printer

G094595

Example: If using an operation PC and a printer PC separately

LAN

Preparation by

USB

Operation PC

Printer PC

Printer

G094104

Example: If using multiple printers

LAN

Preparation

HUB

Preparation by

Printer PC

USB

Operation PC

Printer PC

USB

Printer

G094105

1

	If using a PC that functions as both operation PC and printer PC	If using operation PC and printer PC separately

Operation PC	• Purchase a PC from us or prepare one by yourself.
	The PC must have the same or higher specification which the high spec PC has. Perform printing and image processing by specifying settings for the D705, using our Controller, QSS Printer Driver (option) or Noritsu Quick Access (option).
	The following versions of Controller, QSS Printer Driver (option) or Noritsu Quick Access (option) can be used.
	  • Controller: Ver. 4.10
	  • QSS Printer Driver (option): Ver. 3.01[1]
	  • Noritsu Quick Access (option): Ver. 2.10[1]
	Only the PC that functions as an operation PC and printer PC can process printing directly from the QSS Printer Driver (option) or Noritsu Quick Access (option). Printing cannot be processed from other PCs via the network. To print images from other PC via the network using the QSS Printer Driver (option) and Noritsu Quick Access (option), the Controller is required.
	• The image processing and printing are performed at the same time. Therefore, loading large image files at the same time places a heavy burden on the drive, resulting in paper rewinding during the printing or slow key response on the Judgment Display.
	• The maximum distance between the PC and printer is 3 m. (The length of the available USB cable is 3 m.)
		Purchase a PC from us or prepare one by yourself.
		Perform printing by specifying settings for the D705, using our Controller, QSS Printer Driver (option) or Noritsu Quick Access (option).

Printer PC	Unnecessary	Purchase a PC from us or prepare one by yourself. The printer PC performs image processing.
Connection of multiple printers	Only one printer can be connected. To connect two or more printers, the printer PC must be connected.	Possible
Maximum paper advance length	610 mm (254 mm × 610 mm)	1757 mm (254 mm × 1757 mm)

Overall dimensions	See **Dimensions and required space**.
Required space	For details, see **Dimensions and required space**. Printer footprint: 2.7 m^2
Weight	• Printer gross weight: Approx. 96.0kg (Printer PC, paper, ink cartridges and options are not included.) • Paper magazine (option): Approx. 4.0 kg • Print sorter unit (option): Approx. 30.0 kg
Rated voltage	800 VA or below

Power capacity		AC 100 V (8 A) to AC 240 V (4 A), 50/60 Hz
		IMPORTANT •
• Use a grounding resistance of 100 Ω or less when grounding this product.
• Use a grounding receptacle for the main power supply.
Print system		Piezo inkjet technology
Print resolution		720 dpi × 720 dpi
Print size (Roll paper)		
	Paper width:	102, 127, 152, 203 and 254 mm (Only specified paper can be used.)
	Paper advance length:	If using a PC that functions as both operation PC and printer PC: 89.0 to 610 (mm)
If using an operation PC and a printer PC separately: 89.0 to 1757 (mm)
Print size (Sheet paper)		
	Paper width:	127 to 216 mm (We recommend that you use paper specified or recommended by us.)
	Paper advance length:	200.0 mm to 297.0 mm
Roll paper		Maximum diameter of paper roll: 200 mm, Paper length: 100 m
Accumulation number to the tray		
	Print receiving tray:	When the paper advance length is 102 mm or shorter: 100 sheets
When the paper advance length is 103 mm or longer and 178 mm or shorter: 50 sheets
When the paper advance length is 179 mm or longer and 305 mm or shorter: 30 sheets
When the paper advance length is 306 mm or longer and 457 mm or shorter: 1 sheet
	Long length print guide (option):	When the paper width is 203 mm or 254 mm, and the paper advance length is 485 mm or longer: 1 sheet (If the advance length is 914 mm or more, a print may not fit in the long print stocker.)
Ink		Specified dye ink cartridges (Cyan, Magenta, Yellow and Black), 500 ml per color
Heating capacity		Approx. 437.3 W (Approx. 376.1 kcal/h)

<u>Printer PC</u>

The following PC specifications are recommended.
This is required only when you use an operation PC and a printer PC separately.

Windows XP, Windows Vista

Item		Explanation
Model		IBM PC/AT compatible system (DOS/V)
OS		WindowsXP Professional Japanese or English Version (SP2 or SP3)[1]
		Windows Vista Business x32 Edition Japanese or English version (SP1, SP2)[1]
CPU		Celeron D 3.2 GHz or higher
Memory		512 MB or more, DDR2
Drive	CD-ROM drive[3]	1
	Hard disk	40 GB or more (1.5 GB or more free space in the system drive)
Interface	LAN	Ethernet 1000Base-T[2]
	USB 2.0	Three ports or more (for connecting a printer[4], mouse and keyboard)

Windows 7

Item		Explanation
Model		IBM PC/AT compatible system (DOS/V)
OS		Windows 7 Professional 32-bit Japanese or English Version[*1]
CPU		Pentium Dual-Core E2160 (1.8 GHz) equivalent or higher
Memory		2GB or more DDR2
Drive	CD-ROM drive[*3]	1
	Hard disk	160 GB or more
Interface	LAN	Ethernet 1000Base-T[*2]
	USB 2.0	Three ports or more (for connecting a printer[*4], mouse and keyboard)

*1. The operating system must be installed on drive C.
*2. NIC and motherboard must support **Wakeup On LAN (WOL)**, and it must also be validated in BIOS.
*3. CD-R/RW drive or DVD-ROM drive etc. can also be used.
*4. The following conditions must be satisfied.

- While the printer PC is off, power is not supplied to the USB devices.
- Can supply 5 V±5% of power voltage and 500 mA of power current.

NOTE
- The printer PC mount supplied with this product can support up to 20 kg. If using the printer PC mount, prepare a printer PC whose weight is 20 kg or less.

Operation PC

Install software such as QSS Printer Driver and Controller to the operation PC to print images using this product.

■ Operation PC for the Controller
For details about the PC specifications, see the **Specifications** of the Controller.
However, if using a PC that functions as both operation PC and printer PC, a high-performance PC is required.
Use USB ports that meet the following conditions.

- While the printer PC is off, power is not supplied to the USB devices.
- Can supply 5 V±5% of power voltage and 500 mA of power current.

■ Operation PC for the QSS Printer Driver (Windows XP)
The following PC specifications are recommended.

If using a PC that functions as both operation PC and printer PC

Model	IBM PC/AT compatible system (DOS/V)
OS	Windows XP Professional SP2 or later (Japanese or English Version)[*1]
CPU	Core 2 Duo 1.86 GHz or higher (supporting SSE2)
Memory	2 GB or more

Drive	• One CD-ROM drive[*2]
	 • Two hard disk drives
	   • Drive C
	     Serial ATA specifications, 80 GB or more capacity, 500 MB or more free space for software installation, 7,200 rpm or higher speed, 8 MB or more buffer capacity
	   • Drive D[*3]
	     Serial ATA specifications, 1 GB or more free space (for saving images), 7,200 rpm or higher speed, 8 MB or more buffer capacity

Interface	• PS2 port (for mouse and keyboard) If using USB mouse and keyboard, USB 2.0 ports are required. • USB 2.0 port for connecting to the printer[*4] If other optional USB devices are connected, USB 2.0 ports are separately required. • Network port (100BASE-TX/1000BASE-T) (LAN board can also be used.) • Video port Resolution: 1024×768 pixels Color: 32-bit true color Video memory: 256 MB or more
Display monitor	• Resolution: 1024×768 pixels • Color: 32-bit true color • Color temperature: supporting 6500 K

*1. The operating system must be installed on drive C.
*2. CD-R/RW drive or DVD-ROM drive etc. can also be used.
*3. Used to temporarily store image data received with the QSS Printer Driver.
*4. The following conditions must be satisfied.

  • While the operation PC is off, power is not supplied to USB devices.

  • Can supply 5 V±5% of power voltage and 500 mA of power current.

If using operation PC and printer PC separately

Model	IBM PC/AT compatible system (DOS/V)
OS	Windows XP Professional SP2 or later (Japanese or English Version)[*1]
CPU	Pentium 4, 1.0 GHz or higher
Memory	512 MB or more
Drive	• Hard disk drive (capacity: 30 GB or more) Drive that has enough capacity according to the print size • CD-ROM drive
Interface	Ethernet 1000Base-T

*1. The operating system must be installed on drive C.

■ Operation PC for the QSS Printer Driver (Windows Vista/Windows 7)
The following PC specifications are recommended.

If using a PC that functions as both operation PC and printer PC

Model	IBM PC/AT compatible system (DOS/V)
OS	Windows Vista Business x32 Edition SP1 or later (Japanese or English Version)[*1]
	Windows 7 Professional 32-bit Japanese or English version[*1]
CPU	Core 2 Duo 1.86 GHz or higher (supporting SSE2)
Memory	2 GB or more

Drive	• One CD-ROM drive[*2]
	• Two hard disk drives
	  • Drive C
	    Serial ATA specifications, 80 GB or more capacity, 500 MB or more free space for software installation, 7,200 rpm or higher speed, 8 MB or more buffer capacity
	  • Drive D[*3]
	    Serial ATA specifications, 1 GB or more free space (for saving images), 7,200 rpm or higher speed, 8 MB or more buffer capacity

Interface	• PS2 port (for mouse and keyboard) If using USB mouse and keyboard, USB 2.0 ports are required. • USB 2.0 port for connecting to the printer[4] • Network port (100BASE-TX/1000BASE-T) (LAN board can also be used.) • Video port Resolution: 1024×768 pixels Color: 32-bit true color Video memory: 256 MB or more
Display monitor	• Resolution: 1024×768 pixels • Color: 32-bit true color • Color temperature: supporting 6500 K

*1. The operating system must be installed on drive C.
*2. CD-R/RW drive or DVD-ROM drive etc. can also be used.
*3. Used to temporarily store image data received with the QSS Printer Driver.
*4. The following conditions must be satisfied.

  • While the operation PC is off, power is not supplied to USB devices.
  • Can supply 5 V±5% of power voltage and 500 mA of power current.

If using operation PC and printer PC separately

Model	IBM PC/AT compatible system (DOS/V)
OS	Windows Vista Business x32 Edition SP1 or later (Japanese or English Version)[1]
	Windows 7 Professional 32-bit/64-bit Japanese or English version[1]
CPU	Intel (R) Celeron (R), 2.8 GHz or higher
Memory	1536 MB or more (Windows Vista, Windows 7 32-bit version) 2048 MB or more (Windows 7 64-bit version)
Drive	• Hard disk drive (capacity: 60 GB or more) Drive that has enough capacity according to the print size • CD-ROM drive
Interface	Ethernet 1000Base-T
Graphic board memory	256 MB or more

*1. The operating system must be installed on drive C.

■ Operation PC for the Noritsu Quick Access
The following PC specifications are recommended.

Model		IBM PC/AT compatible system (DOS/V)
OS		Windows 2000 Professional SP4 or later (only Japanese or English)
		Windows XP Professional SP2 or later (only Japanese or English)
CPU		Pentium III 800 MHz or higher
Memory		256 MB or more
Drive	CD-ROM drive[1]	1
	Hard disk	40 GB or more, 7,200 rpm or higher speed
Interface		Ethernet 1000Base-T

*1. CD-R/RW drive or DVD-ROM drive etc. can also be used.

■ Operation PC for the NetOrder Converter
　　The following PC specifications are recommended.

Model	IBM PC/AT compatible system (DOS/V)
OS	Windows XP Professional SP2
CPU	Pentium 4 equivalent or higher, 1.0 GHz or more, supporting SSE2
Memory	512 MB or more
Drive	• Hard disk drive (capacity: 60 GB or more) 　Drive that has enough capacity according to the print size • CD-ROM drive
Interface	Ethernet 1000Base-T

■ Operation PC for Noritsu NetOrder Printer Driver for Mac OS X
　　The following PC specifications are recommended.

Model	Intel Mac or Macintosh
OS	Mac OS X 10.5
CPU	• Intel Mac 　CPU with Intel Core Duo, Intel Core 2 Duo or Intel Xeon installed • Macintosh 　PowerPC G5 or PowerPC G4 (867MHz or more)
Memory	1 GB or more
Drive	• Hard disk drive (capacity: 1 GB or more) • CD-ROM drive (required for software installation)
Interface	Ethernet 1000Base-T

Processing capacity

Approximate processing capacity (when roll paper is used)

Print size (Paper width × paper advance length)	Capacity (prints/hour)[1]		
	Print quality:Standard		Print quality:Smooth
	Printing method:Standard	Printing method:Image quality priority	Printing method[2]
102mm×152mm	510	176	169
127mm×89mm	750	270	260
152mm×102mm	650	222	213
127mm×178mm	420	140	134
203mm×254mm	250	81	78
203mm×102mm	560	195	187
203mm×305mm	220	68	65
254mm×203mm	280	90	86
254mm×305mm	195	60	58
254mm×366mm	165	50	48
254mm×610mm	99	30	29
254mm×914mm	68	20	19
254mm×1757mm	35	10	10

*1. Calculated based on our standards. The actual processing capacities may differ depending on various conditions.
*2. If the Print quality is Smooth, there is no distiction between Standard and Image quality priority of the Printing method.

Approximate processing capacity (when sheet paper is used)

Print size (Paper width × paper advance length)	Capacity (print/hour)[1]			
	Print quality:Standard		Print quality:Smooth	
	Printing method:Standard	Printing method:Image quality priority	Printing method:Standard	Printing method:Image quality priority
210mm×297mm	34	22	33	21
148mm×210mm	42	29	42	29
182mm×257mm	37	25	37	24
203mm×254mm	36	25	36	23
216mm×279mm	34	22	34	21
210mm×307mm	33	21	31	20
203mm×264mm	35	23	34	22

*1. Calculated based on our standards. The actual processing capacities may differ depending on various conditions.

Processing capacity (if the D705 is connected to EZ Controller but no printer PC is connected)

Approximate processing capacity (when roll paper is used)

Print size (Paper width × paper advance length)	Capacity (prints/hour)[1]	
	Printing method:Standard	Printing method:Image quality priority
102 mm × 152 mm	510	176
127 mm × 89 mm	750	269

Print size (Paper width × paper advance length)	Capacity (prints/hour)[1]	
	Printing method:Standard	Printing method:Image quality priority
152 mm × 102 mm	650	221
127 mm × 178 mm	420	139
203 mm × 254 mm	250	81
203 mm × 102 mm	560	194
203 mm × 305 mm	220	67
254 mm × 203 mm	280	89
254 mm × 305 mm	195	60
254 mm × 366 mm	165	50
254 mm × 610 mm	99	29

*1. Calculated based on our standards. The actual processing capacities may differ depending on various conditions.

Approximate processing capacity (when sheet paper is used)

Print size (Paper width × paper advance length)	Capacity (prints/hour)[1]	
	Printing method:Standard	Printing method:Image quality priority
210 mm × 297 mm	34	22
148 mm × 210 mm	42	29
182 mm × 257 mm	37	25
203 mm × 254 mm	36	25
216 mm × 279 mm	34	22
210 mm × 307 mm	33	21
203 mm × 264 mm	35	23

*1. Calculated based on our standards. The actual processing capacities may differ depending on various conditions.

Dimensions and required space

Dimensions

◆ Optional print sorter unit installed
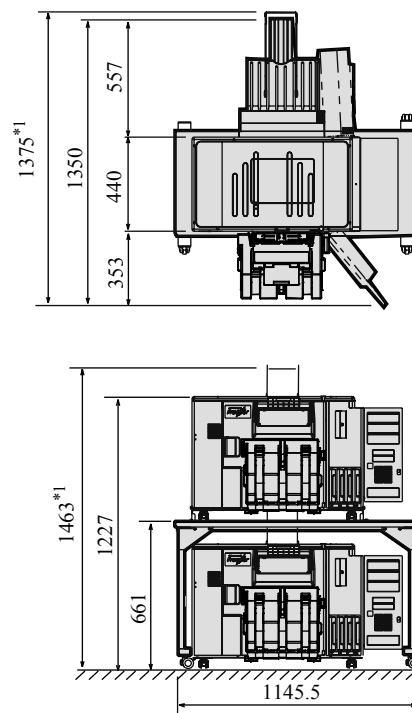■ Equipped with the double-stack cabinet

(Unit: mm)

1686
1284
491
440
353
1227
661
13448
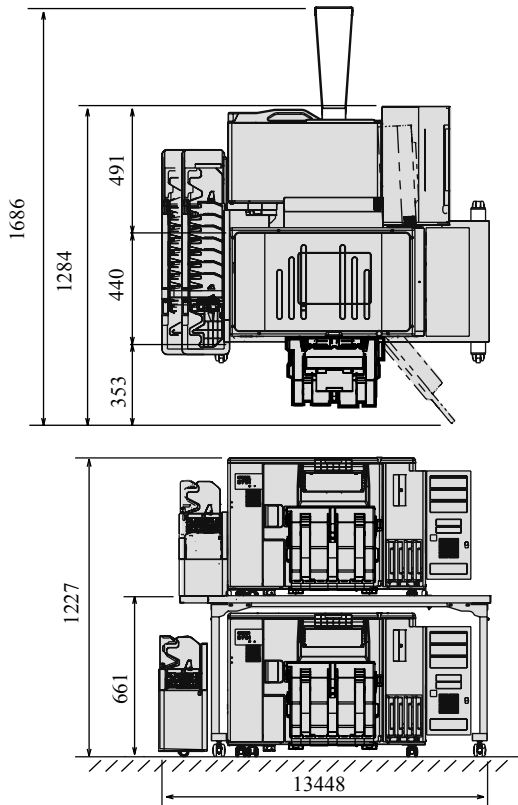
G094597

■ Not equipped with the double-stack cabinet

(Unit: mm)

1686
1284
491
440
353
589
197
800
102
1099
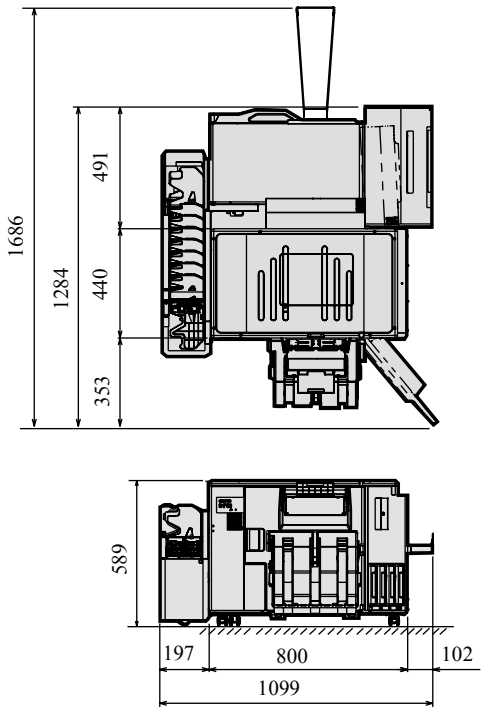
G094100

◆ Optional print sorter unit not installed

■ Equipped with the double-stack cabinet

(Unit: mm)

557
1375*1
1350
440
353
1463*1
1227
661
1145.5

G094598

*1. Equipped with the optional long length print guide

■ Not equipped with the double-stack cabinet

(Unit: mm)

557
1375*1
1350
440
353
824*1
589
800
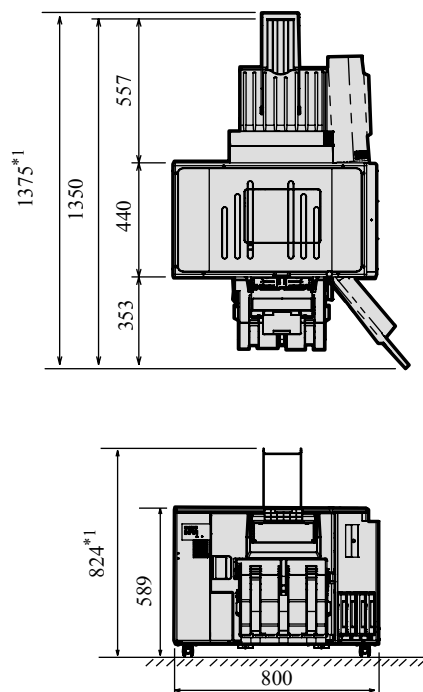
G094099

*1. Equipped with the optional long length print guide

◆ Optional print sorter unit installed
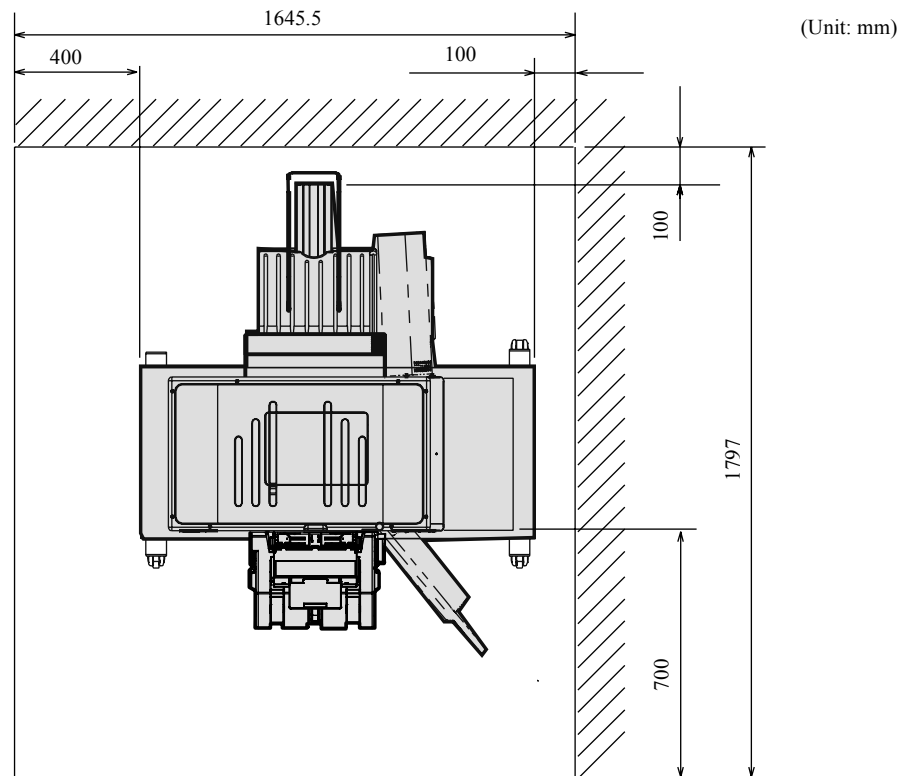
■ Equipped with the double-stack cabinet

1844

(Unit: mm)

400

100

450

2068

700
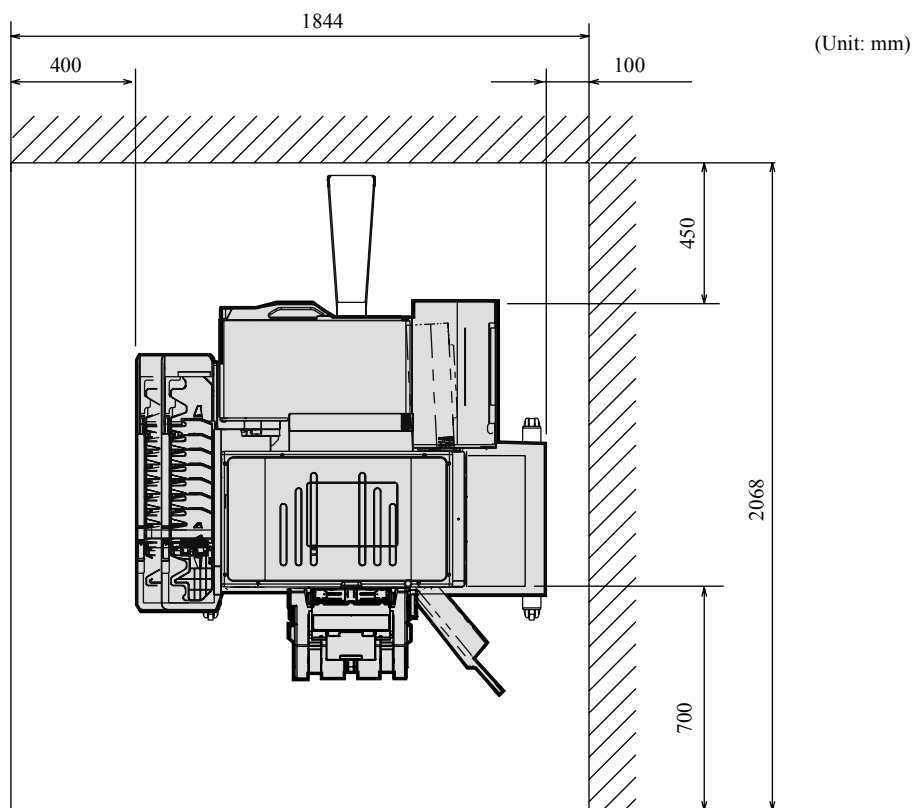
G094599

■ Not equipped with the double-stack cabinet

1681

(Unit: mm)

400

100

450

2068

700
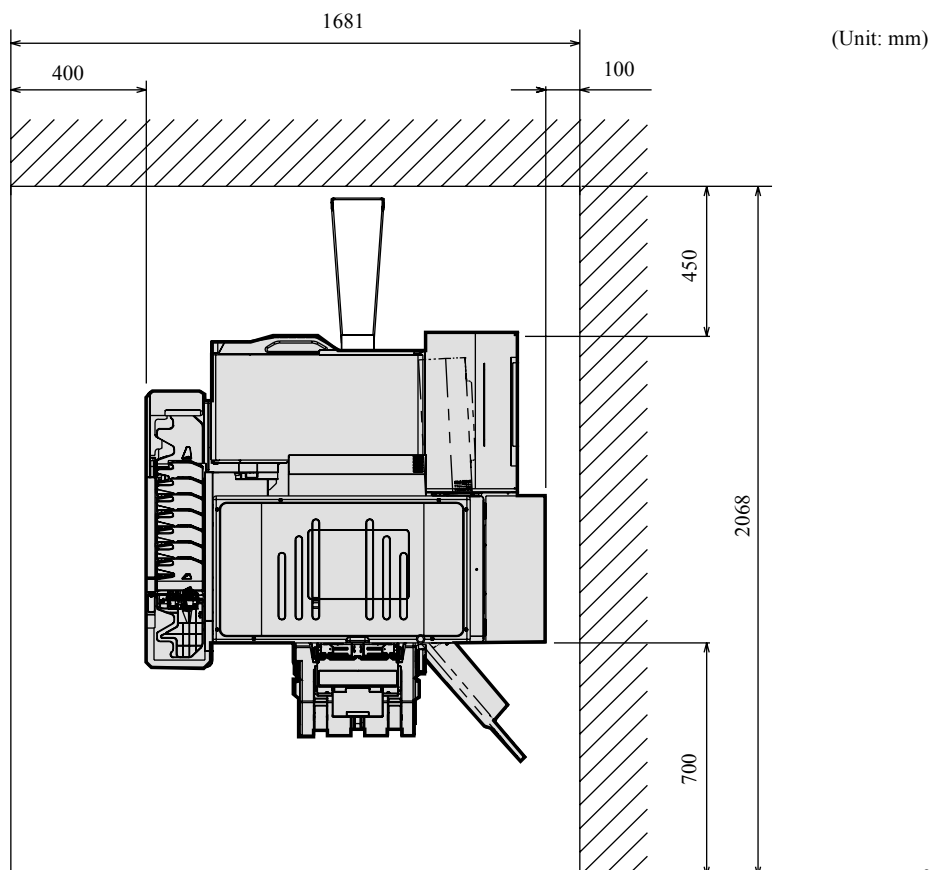
G094102

◆ Optional print sorter unit not installed

■ Equipped with the double-stack cabinet

1645.5

(Unit: mm)

400

100

100

1797

700

G094600

■ Not equipped with the double-stack cabinet

1484

100

(Unit: mm)

400

184

100

1797

700

G094101

13
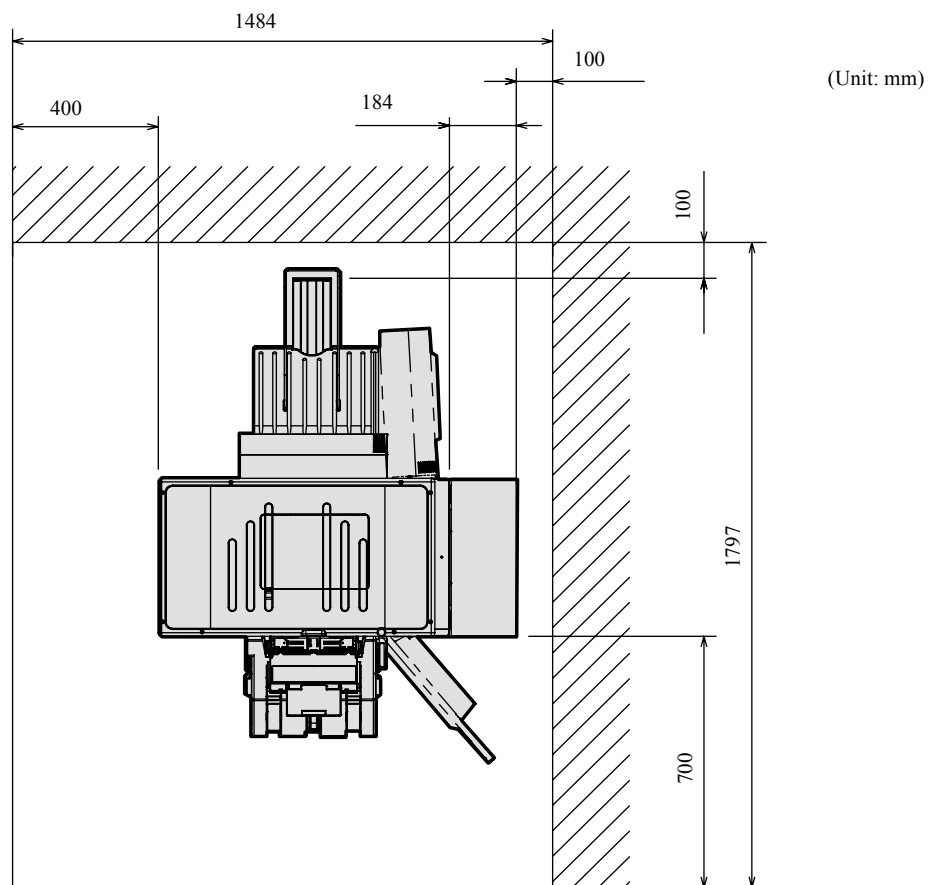
Standard equipment/Standard accessories

◆ Standard equipment

Item	Remarks
Paper cut system	Built-in
Dryer	Built-in
Automatic switcher for roll and sheet paper	Built-in
Casters	Attached
Damp-proof kit	Built-in
Sheet supply device	Built-in
Paper supply tray load detection device	Built-in
Ink cartridge wrong attachment prevention system	Built-in
Interlock system	Built-in
USB port (USB2.0)	Built-in
USB cable	Supplied
Spindle unit	Supplied
Paper magazine attaching unit	Built-in
Expansion memory to support the system which does not use any printer PC.	Built-in

◆ Standard accessories

Item	Quantity	Remarks
Wiper (cleaning cloth) (150 sheets)	1	Used to clean ink smears.
Slow-blow fuse (3.15 A)	2	Spare item
Slow-blow fuse (6.3 A)	2	Spare item
Slow-blow fuse (1 A)	2	Spare item
Spanner (14 mm)	1	Used to adjust the height of casters.
Spanner (17 mm)	1	Used to adjust the height of casters.
Power cable	1	For the printer

Options

Optional items or option numbers are subject to change without notice. For details, contact your place of purchase.

Software

Option No.	Name	Outline
Z810742-01	Noritsu Quick Access (Supporting Windows 2000 and Windows XP)	Software to send image data edited with an external PC to the printer via a network connection and print. For details about the PC specifications, see **Specifications**.
Z811288-01	QSS Printer Driver (Supporting Windows XP, Vista and 7)	Driver software to send image data processed on an external PC to the printer and print it. For details about the PC specifications, see **Specifications**.
Z811289-01	QSS Printer Driver UPV (Supporting Windows XP, Vista and 7)	Required if you already have **QSS Printer Driver (Z809526-01 or Z809605-01)** and are going to use the driver on Windows Vista or 7. For details about the PC specifications, see **Specifications**.
Z811475-01	NetOrder Converter	Software required to print image data edited on external PCs via networks. Allows you to print image data edited using image editing software without EZ Controller. For details about the PC specifications, see **Specifications**.
Z811542-01	Noritsu NetOrder Printer Driver for Mac OS X	Software to process prints by transferring image data from the commercial application software such as Adobe Photoshop installed on the Mac OS X10.5 Intel Mac /Macintosh external computer to the EZ Controller or NetOrder Convertor via the network connection. For details about the PC specifications, see **Specifications**.

Hardware

Option No.	Name	Outline
Z811461-01	Correction value printing unit (CVP)	Prints print data on the back of prints. (2-line imprinting)
Z811342-01	Humidity conditioning kit	Controls the humidity for the loaded paper. Use this for systems in which the printing mount with non-removable absorbers is installed.
Z811774-01	Humidity conditioning kit	Controls the humidity for the loaded paper. Use this for systems in which the printing mount with removable absorbers is installed.
Z811451-01	Double-stack cabinet	Used to stack two printers.
B024782-01	Long print stocker (2)	Attach this stocker when making prints of which paper width is 203 mm or 254 mm, and the paper advance length is longer than 457 mm.
C010627-01	Long print stocker (3)	Attach this stocker to stock swing panorama prints.
Z811750-01	Long print stocker (4)	Attach this stocker to a printer with the print sorter unit, to stock swing panorama prints.
I090854-00	Personal computer	Used as the printer PC. (Printer PC name: PC-NRT-RS18)
I068506-00	Power cord	A cord for connecting the printer PC to the main power supply
Z027529-01	Spindle unit	Used to load roll paper to the printer.

Option No.	Name	Outline
Z811488-01	Spindle unit with semi glossy detection 2	Used to load semigloss roll paper to the printer. A sticker for semigloss paper is attached to the spindle unit and the reel plate. In addition, stickers for glossy paper are supplied. Attach them to your spindle and reel plate to distinguish them from the other. The optional modification kit (semi glossy detection) is required.
Z811487-01	Modification kit (semi glossy detection)	A device that enables detection of the type (paper surface) of the roll paper loaded in the printer An optional spindle unit for semigloss roll paper is required.
H094040-00	Paper case	Used to store paper so that paper is not damaged by humidity. Up to 8 inch-width paper can be stored vertically.
H094036-00	Dampproof case (large)	Used to store paper so that paper is not damaged by humidity. Up to 12 inch-width paper can be stored vertically.
A091134-01	Paper band	Used to fix the leading end of paper that is being used.
Z811506-01	Print sorter unit	Unit to sort the finished prints by order
Z811453-01	Print sorter double-stack unit	Kit required to stack two printers to which the print sorter unit is attached using the double-stack cabinet
Z811567-01	Print sorter unit kit (8-inch feed)	Kit to output prints whose width is 178 mm or narrower and length is 203 mm or shorter to the print sorter unit
Z811445-01	Manual paper decurler	A unit used to weaken curl of finished prints by hands Used when prints with strong curl are made, or when prints longer than 254 mm are made.
Z811544-01	Paper magazine	Includes Magazine spindle unit.
Z811568-01	PC mount	A mount to place a PC on
Z811800-01	High Resolution Print Kit	Kit for printing in 1440 x 1440 dpi resolution (For systems in which the printing mount with removable absorbers is installed)
Z811801-01	High Resolution Print Kit	Kit for printing in 1440 x 1440 dpi resolution (For systems in which the printing mount with non-removable absorbers is installed)

Consumables

Option No.	Name	Outline
H086044-00	Ink ribbon cassette	CVP ink ribbon
H086075-00	Ink cartridge (BK)	Dye ink cartridges
H086076-00	Ink cartridge (C)	Black (BK), Cyan (C), Magenta (M)
H086077-00	Ink cartridge (M)	Yellow (Y), 500 ml per color
H086078-00	Ink cartridge (Y)	
H089017-00	Wiper	Used to clean ink blots (150 sheets).

Use roll paper specified by us.

Option No.	Name	Outline
H073144-00	Roll paper (Glossy)	102 mm × 100 m × 4 rolls (Glossy)
H073128-00	Roll paper (Glossy)	127 mm × 100 m × 4 rolls (Glossy)
H073129-00	Roll paper (Glossy)	152 mm × 100 m × 4 rolls (Glossy)
H073130-00	Roll paper (Glossy)	203 mm × 100 m × 2 rolls (Glossy)
H073131-00	Roll paper (Glossy)	254 mm × 100 m × 2 rolls (Glossy)

Option No.	Name	Outline
H073145-00	Roll paper (Semi-glossy)	102 mm × 100 m × 4 rolls (Semi-glossy)
H073132-00	Roll paper (Semi-glossy)	127 mm × 100 m × 4 rolls (Semi-glossy)
H073133-00	Roll paper (Semi-glossy)	152 mm × 100 m × 4 rolls (Semi-glossy)
H073134-00	Roll paper (Semi-glossy)	203 mm × 100 m × 2 rolls (Semi-glossy)
H073135-00	Roll paper (Semi-glossy)	254 mm × 100 m × 2 rolls (Semi-glossy)
H073140-00	Sheet paper (Glossy)	210 mm × 307 mm 200 sheets (Glossy)
H073141-00	Sheet paper (Glossy)	203 mm × 264 mm 200 sheets (Glossy)
H073142-00	Sheet paper (Semi-glossy)	210 mm × 307 mm 200 sheets (Semi-glossy)
H073143-00	Sheet paper (Semi-glossy)	203 mm × 264 mm 200 sheets (Semi-glossy)

For details of recommended sheet paper, consult your technical representative.

Installation requirements

- Use this product in a place where the relative humidity is from 30% to 75% and the temperature is from 15°C to 30°C (59°F to 86°F).
  If this product is used in a place where the relative humidity is from 20% to 29%, or from 76% to 80%, it is recommended that you use the optional humidity conditioning kit. The humidity conditioning kit controls humidity inside the printer where paper is loaded and in the paper magazine (option) to provide conditioned humidity. However, it cannot provide sheet paper with conditioned humidity.

- Do not install this product in a dusty or shaky place.

- Do not raise or lower the room temperature quickly. Doing so forms dew on this product, causing paper jams and PCB failures, etc.

- Casters are for moving this product. After the product is installed, be sure to lock the casters.

- The floor tilt of the installation place must be 6/1000 or less (1.5 Div or less) to the horizontal surface. The floor is not concave or convexed around the casters. If the product is shaky, place a pad between the floor and caster to adjust the level.

- The floor must have strength to support 400 kg/m^2 of weight.

- Before shipment, standard values have been registered to various modes. However, they have to be changed according to the actual operating environment and conditions. Change them as necessary.

- Equipment complying with EN61000-3-12

- The maximum permissible system inpedance Zmax of this machine is $(0.091 + j0.057)\Omega$, supplied from a power distribution system having a rated voltage of 400/230 V.
  This machine is connected only to a supply of that inpedance or less.
  Determine the connection to a power supply in consultation with the supply power company.

- Be sure to store the ink cartridge and roll paper within the following environment.
  - For the ink cartridges:
    Store unopened ink cartridges from −30°C to 40°C (−22°F to 104°F). If they are stored in a place where the room temperature is near 40°C (104°F), the maximum storage life is one month.

    ☀ **IMPORTANT** ●
    - Before using an ink cartridge, wait until the ink temperature becomes within the operation temperature of this product.

  - Storage environment for roll paper:
    Store roll paper in a place where there is no direct sunlight, with the following condition.
    The storage environment for unopened packs of roll paper and that for opened packs of roll paper are different.

    Unopened roll paper
    Store it in a place where the relative humidity is from 20% to 80% and the room temperature is from 15°C to 25°C.

    Opened roll paper

Storage location		Storage environment	
		Relative humidity	Room temperature
Carton (for storing paper by keeping it in a bag in which the paper was initially kept)		From 20% to 80%	From 15°C to 30°C
Paper case (option)		From 20% to 80%	From 15°C to 30°C
Printer interior	Not equipped with the optional humidity conditioning kit	From 30% to 75%	From 15°C to 30°C
	Equipped with the optional humidity conditioning kit	From 20% to 80%	From 15°C to 30°C

Storage location		Storage environment	
		Relative humidity	Room temperature
Paper magazine (optional)	Removed from the printer	From 30% to 75%	From 15°C to 30°C
	Attached to the printer (Not equipped with the optional humidity conditioning kit)	From 30% to 75%	From 15°C to 30°C
	Attached to the printer (Equipped with the optional humidity conditioning kit)	From 20% to 80%	From 15°C to 30°C

- Once the paper container is opened, we recommend the paper be used within three months. Using it three months after the first opening may adversely affect the print quality.
- Wind unused roll paper tightly, and put it in the bag that originally contained the paper. Then store it in the cardboard box or a paper case (optional).
  If the roll paper is loaded in the printer or optional paper magazine for a certain period of time (generally two or more days), the roll paper quality may deteriorate.
- Keep roll paper dry.

- For sheet paper:
  Store sheet paper in a place where there is no direct sunlight, with the following condition.
  The storage environment is different between unopened sheet paper and opened sheet paper.

  Unopened sheet paper
  Store it in a place where the relative humidity is from 20% to 80% and the room temperature is from 15°C to 25°C.

  Opened sheet paper

Storage location	Storage environment	
	Relative humidity	Room temperature
Bag (with the opening closed)	From 20% to 80%	From 15°C to 30°C
Paper case (option)	From 20% to 80%	From 15°C to 30°C

- Once the paper container is opened, we recommend the paper be used within three months. Using it three months after the first opening may adversely affect the print quality.
- Do not leave the sheet paper loaded on the paper supply tray. Take out only necessary amount of paper from the bag. Keep the unused paper in the bag or an optional paper case to store it.
- Keep sheet paper dry.

Subject to change without notice.

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