Kodak

ThermoFlex Narrow Hybrid

Platesetter

Site Preparation Guide

English

707-00522K-EN Rev A

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ThermoFlex Narrow Site Preparation Guide

Introduction

Please take a few moments to read through this document. It provides guidelines for preparing your site for the Kodak® ThemoFlex® Narrow installation.

Note: This document applies to the ThermoFlex Narrow Hybrid platesetter, the ThermoFlex Narrow Hybrid platesetter with Magnetic Drum option, and the ThermoFlex Narrow Hybrid platesetter with Offset option. Throughout this document, ThermoFlex Narrow applies to all the ThermoFlex Narrow Hybrid platesetters, unless otherwise specified.

Your service engineer will help you to ensure that your site meets all the requirements. Proper preparation will help to prevent unnecessary problems and delays when installing the output device.

The following topics are discussed:

- Device configuration
- Floor space requirements
- Device dimensions
- Weight requirements
- Electrical requirements
- Universal debris removal system requirements
- Environmental conditions
- UV light
- Ventilation requirements
- Network/modem requirements
- Processor specifications

With your service engineer, complete the *Site Inspection Checklist* in Appendix B.

Tools Needed

- For devices that do not have Omron interlocks (devices that are not a metallic-gray color): Air supply gauge (part number 92-0373A): to check the pressure and flow of the site's compressed air supply. See *Air Supply Qualification* on page 11.

  Note: ThermoFlex Narrow Hybrid devices with Omron interlocks have electrical balance and do not require the air supply unit.

- Dotmeter: X-RiteDot® CCDot, BetaFlex 330 or equivalent
- Floor level gauge: To check that the floor is level. See *Floors* on page 8.
- Measuring tape: 15 m (50 ft.)

Equipment Overview



The output device consists of the following standard components:

- Plate recording output device
- Debris removal system[1]

1. The debris removal system consists of a vacuum pump and filtration system for removing debris from exposed media. See the UDRC Site Preparation and Requirements document (725-00089A).

Options

- ❒ Magnetic drum
- ❒ Offset
- ❒ V-speed
- ❒ External venting for debris removal

Size and Weight

Table 1 shows the maximum dimensions and weight of the ThemoFlex Narrow components. The measurements are taken facing the ThemoFlex Narrow system, with the panels installed. Width is in the x-axis direction. Depth is in the y-axis direction.

For measurements of the crates as shipped, see Table 4 on page 18.

Table 1: Size and weight of ThemoFlex Narrow output device

Device	Width	Depth	Height	Weight
Base unit	1760 mm (69 in.)	900 mm (36 in.)	Max: 1800 mm (71 in.) Min: 1340 mm (53 in.)	750 kg (1650 lb.)
Debris removal cabinet	See the UDRC Site Preparation and Requirements document (725-00089A).			
Workstation	Varies with configuration			
Optional equipment				
UDRC external venting	See the External Venting Upgrade for UDRC document (709-00211A-B-PR01)			

Cables, Connectors, and Receptacles

Table 2 lists the supplied and required cables and connectors for the output device. Table 3 lists the air and network connections.

Table 2: Cables and Interconnects—North America, Europe, Australia, S.E. Asia, and Japan

Cables	Supplied by Kodak	Supplied by Customer[a]
Output device main power	IEC309, type C20 appliance inlet	Dedicated 20 A, 200-240 V branch circuit Japan: Dedicated 20 A, 200 V branch circuit
Workstation power	See the *Kodak TIFF Front End* or *Prinergy* site preparation guide.	
Debris removal cabinet power	See the UDRC Site Preparation and Requirements document (725-00089A).	

a. The tolerances for input voltages are –6%/+10%. The specification for the frequency is 50/60 Hz 1.5%. Branch circuits should have time-delay-type circuit breakers to avoid nuisance tripping caused by inrush currents. For details, see *Electrical Requirements* on page 8.

Table 3: Air and network connections

Other connections	Supplied by Kodak	Supplied by Customer[a]
Network connection (For connecting to the workflow)	Ethernet: 100 Base-T (RJ-45)	Network connection and cable long enough to reach workstation.
	FDDI: Duplex SC	
For devices that do not have Omron interlocks:		
Shop air supply (dedicated branch recommended—see *Air Supply on page 10*)	0.5-in. national pipe thread (NPT) female fitting on the device	A flexible airline, 0.75 in. ID min., with 0.5 in. NPT fitting at the end for connecting to the ThemoFlex Narrow. The air line must be capable of delivering 20 SCFM @ 90 psi. Keep the airline as short as possible and free from restrictions. If the air line is longer than 6.1 m (20 ft.), use a larger ID airline.

a. For the location of the air supply, see *Footprint and Working Area* on page 6. For further details, see *Air Supply* on page 10 and *Network* on page 15.

Site Requirements

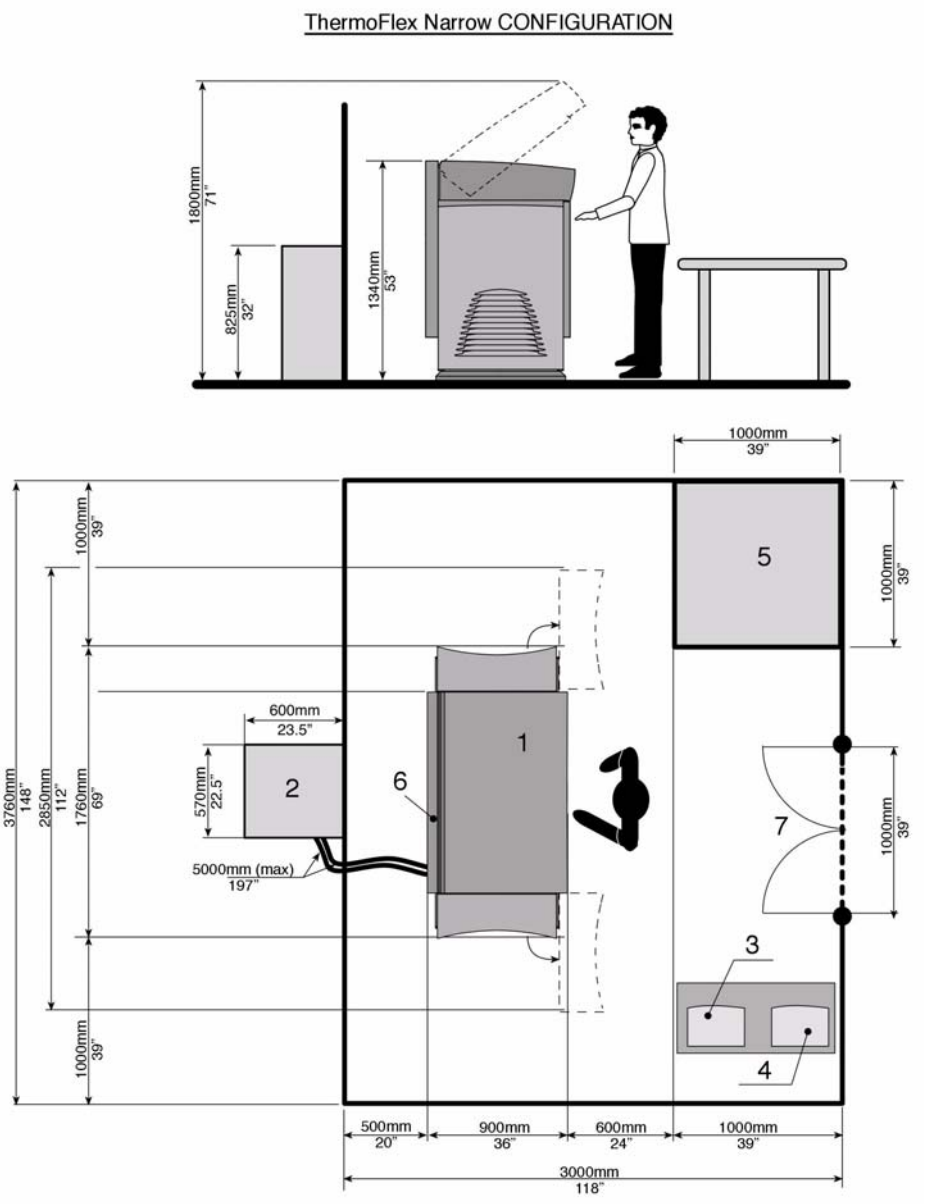
Footprint and Working Area

Ask your service representative for the recommended work area and dimensions of your specific ThermoFlex Narrow configuration.

Allow a recommended minimum 1800 mm (70.87 in.) at the front of output device, and 1000 mm (39 in.) at the sides of output device for operator access.

Provide an area close to the output device for storing media (for immediate use), disks, paperwork, and so on.

1 ThermoFlex Narrow
2 Debris removal system
3 Workflow workstation
4 Operation monitor
5 Table
6 Power cord
7 Door



The dimensions listed in the figure are for reference only.

Debris Removal Cabinet

Certain printing media (plates or film) may release airborne emissions during the imaging process. Kodak output devices are supplied with—or may be able to be upgraded to—a debris removal system containing a collection nozzle located on the head and a filtration unit, such as the Universal Debris Removal Cabinet (UDRC).



WARNING: Emissions, either particulate or gaseous, that are not properly filtered can endanger your health. For a list of airborne emissions that pertain to the media you are using, see the media Material Safety Data Sheet (MSDS) or contact the media manufacturer or distributor directly.

The debris removal system is designed to extract and filter the airborne emissions, thus contributing to a healthier working environment, consistent image quality, and general reliability and cleanliness of the imaging device. Some types of media typically release both particulate and gaseous emissions. Other types of media, under certain imaging conditions, may release largely particulate emissions.



WARNING: Filtration of airborne emissions is not 100% efficient and must be complemented by adequate outdoor air room ventilation. Failure to ensure adequate ventilation may result in exposure to airborne emissions in excess of applicable regulatory limits and in possible discomfort, illness, injury, and/or disability.

The UDRC configuration may include various filter options tailored to suit specific qualified media types. The configuration for a particular customer site is typically specified in a Kodak proposal, sales agreement, order form, product specification, or equivalent document.

The cabinet must be located within the cable and hose limitations.

For more information on the debris removal cabinet, please see the UDRC Site Preparation and Requirements document (725-00089A).

Environmental Conditions

Install the system in a clean prepress area wherever possible. It is not advisable to install the output device in a pressroom environment.

The operating environment for the ThemoFlex Narrow output device must be:

Temperature	21°—25°C (68°–77°F)
Humidity	55%—±5% RH, non-condensing

Note: Some media types may restrict the operating environment of the ThemoFlex Narrow system. Consult the media manufacturer for their recommended temperature and humidity ranges for plate operation and storage.

For the UDRC operating environment, please see the UDRC Site Preparation and Requirements document (725-00089A).

Floors

The floor must be level and not subject to high levels of vibration. If the customer site is close to heavy car or rail traffic routes, or is near an industrial site, the output device may be exposed to high levels of vibration through the floor.

Electrical Requirements

Note: All power connections should be performed by a certified electrician.

The dedicated branch circuit for the main power of the following components must be supplied from the same AC supply panel to ensure that both branch circuits are at the same ground potential:

- Output device
- Workstation
- Debris removal
- External venting

Power Line Voltage/Frequency

There are two configurations available for the ThermoFlex Narrow platesetter:

- **60 Hz power output:** Rated voltage must be 208 V AC (-6%/+10%) 60 Hz 1.5%
- **50 Hz power output:** Rated voltage must be 230 V AC (±10%) 50 Hz 1.5%

Power Quality

If there are concerns about power quality (for example, blackouts or brownouts) at the customer site, order one of the following from a local supplier:

- **Online uninterruptible power supply (UPS) device:** A UPS allows the correct and complete shutdown of the device.
- **Line conditioner:** A line conditioner allows the device to function for extended periods of time where the power conditions may be outside of the ThermoFlex specifications.

Note: To select a UPS or line condition, see *Power Consumption* and *Inrush Current* on page 9.

Kodak America has a contract with Rx Monitoring Services in Manchester, NH to provide power and environmental site surveys for the NAFTA region. The monitoring service includes voltage, current, temperature, humidity, dust, and air pressure. Rx Monitoring Services will provide the equipment to be installed at the customer site for a maximum of 10 days. They will then monitor it and send a report via e-mail. Outside North America, contact your local product support specialist.

Circuit Breaker

The circuit breaker on the wall outlet should be 20 A.

Plug

The plug on the power cord of the ThermoFlex Narrow output device (supplied with the device) is a 2 pole, 3-wire, 250 V, 32 A, 6 o'clock (6 o'clock orientation of the ground connection) plug.

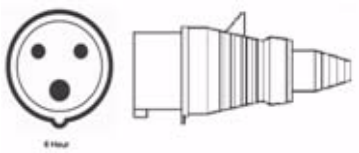


Figure 1: IEC-309, 2 pole, 3-wire, 250 V, 32 A, 6 o'clock connector



Figure 2: IEC-309, 2 pole, 3-wire, 250 V, 32 A, 6 o'clock connector

Power Consumption

The maximum power consumption when the platesetter is in standby and expose modes is approximately:

- **Standby:** 0.8 kW/hr
- **Expose:** 2.5 kW/hr

Inrush Current

Inrush current occurs when the machine or one of the machine's sub-systems is turned on. Inrush current appears as higher than average current consumption and lasts for a very short time.

The inrush current is 45 A for three seconds.

Power Line Disturbances

The reliable operation of computer systems depends on the availability of relatively noise-free AC power. Lightning, line faults, or power switching commonly found in machinery, office equipment, and factory environments, can generate line transients that far exceed the peak value of the applied voltage. If not attenuated, these microsecond pulses can disrupt system operation. The power line to the machine should be run away from electrically noisy power cables. If power line disturbances are affecting the operation of the machine, the use of a power stabilizer is highly recommended.

Dips in power should not exceed 30% of nominal voltage, having maximal duration of 10 ms. Fast transient disturbances on the power line should not exceed 1.0 kV.

Debris Removal Cabinet Power

For the UDRC electrical requirements, please see the UDRC Site Preparation and Requirements document (725-00089A).

Heat Output

The nominal heat output of the output device itself is:

- 50 Hz: 7755 BTU/hr
- 60 Hz: 8376 BTU/hr

The UDRC dissipates heat at a maximum rate of 1500 W (5125 BTU/hr).

The heating, ventilation, and air-conditioning (HVAC) system serving the room in which the UDRC is installed must be able to accommodate the additional heat load.

Air Supply

Note: ThermoFlex Narrow Hybrid devices with Omron interlocks (serial number FN300 and later) have electrical balance and do not require the air supply unit.

The ThemoFlex Narrow output device requires a clean, dry, oil-free, dust-free, and moisture-free air supply of shop air. Average air consumption: 10 SLPM (0.35 SCFM); Compressor air supply: 70 SLPM (2.47 SCFM).

A standard 0.25-in. BSP port female outlet connector is required. It should be mounted on the wall up to 5 m from the device.

The air supply should conform to ISO class 4.

- Maximum particle size 15 μ (0.006 in.)
- Concentration of solid contaminants: 8 mg/m^3 (0.000216 oz./$yd.^3$)
- Maximum pressure dew point 3° C @ 8 bar (37.4° F @120 psi)
- Maximum oil content 5 mg/m^3 (0.000135 oz./$yd.^3$)

Note: Do not add lubricant.

Note: The temperature of the air line going from the drying device to the machine must be kept above 3° C.

Examples of typical compressed air systems that you may use:

Manufacturer	Compressor Type	Compressor Model	Air Receiver (Liter)	Dryer (230 V Ac)	Automatic Water Drainer
Kaeser	Piston	Premium-silent 130/10	10	TAH-4	According to air receiver
Atlas Copco	Piston	LFx-1.0-T20	50	FX1	According to air receiver

Air Supply Qualification

This procedure helps determine whether the customer's air supply is adequate for satisfactorily running the output device. It requires a measurement tool (92-0373A) made specifically to test the output device's air supply.

1. Mount the device to the end of the air hose or pipe that would normally be connected to the output device. A few extra adapter fittings and a roll of Teflon® tape have been included for this purpose.
2. Turn on the valve on the tool.
3. Record the results in the table on page 29.
4. Repeat this test two more times during the day at well-spaced intervals to confirm that the air supply is not being compromised by other machines, and so on.

The gauge must never fall below 90 psi at any time during the tests. If the air supply fails to maintain this pressure at a minimum, it is below specifications for the output device.

Cleanliness

- According to BS 5295
- Not including gases, vapors, aerosols, microorganisms
- Regular atmospheric air contains 3 X 10^8 particles/M^3 (characteristic value)

Class M Workspace				
Maximum quantity (per cubic meter)	2000000+	450000	500000	(0)
Particles size (micron)	5	10	25	(>25)

Static Electricity

- Humidity must be 55% ±5% to reduce the static electricity with the plates. See *Humidity* following.
- Use of floor carpeting is not recommended in the ThermoFlex Narrow platesetter area. If carpets are used, only antistatic carpets should be installed at the site. Carpet thickness should be up to 12 mm (.5 in.).

Humidity

The platesetter requires relative humidity of 55% ±5%.
An industrial steam humidifier can be used to meet specified humidity.

UV Light

Note: Applies only to ThermoFlex Narrow platesetters with Offset option.

Some plates, such as Kodak DITP, are sensitive to UV light. When such plates are used or when the ThermoFlex Narrow platesetter is directly connected to a plate stacker, you need an appropriate safe light.

Air Conditioning

Sufficient air conditioning should be present to provide heat dissipation for the platesetter, plus all additional equipment residing in the system room, and an additional minimum 25% safety margin. Ensure that the ventilation system can circulate the entire volume of air in the room 16 times per hour.

The platesetter requires a constant temperature of 21°–25°C (68°–77°F).

The calculated air conditioning requirements for the platesetter (in BTU/hour) are shown in the following table.

Platesetter	12,000–16,000 BTU/hour
Host	2,500 BTU/hour
Debris removal system	4,800 BTU/hour
Other miscellaneous	1,500 BTU/hour
Safety margin (25% of above)	6,250 BTU/hour
Total	**27,050–31,050 BTU/hour**

Please note the following guidelines:

- The positive pressure in the system room should be maintained above normal air pressure, to prevent dust from entering the room.
- The system room should ideally contain both a thermometer and a hygrometer, permanently mounted in a central location.
- It is highly recommended that you have a humidity and temperature recorder.
- When the platesetter is shut down, the air temperature in the room may be between 0°–30°C (32°–85°F). However, some media types may require a more moderate temperature range.

Ventilation

No filtration can be 100% efficient (for example, carbon monoxide is not captured by Kodak filters). That is why outdoor air ventilation is required with the debris removal system. Air exhaust vents (where air is drawn out of the room) should be located as close to the debris removal cabinet and output device as possible.

The ThermoFlex Narrow output device requires a minimum of 340 m^3/min (200 cfm)[1] outdoor air ventilation. This air ventilation prevents the accumulation of airborne emissions that may be released when certain media are imaged.[2]

Outdoor air ventilation must not be confused with air circulation in the room that results from temperature control or humidity control. Outdoor air ventilation may be roughly estimated to be 10% to 30% of the air circulation rate in the room. To achieve adequate air mixing, Kodak recommends at least 3 ACH (air changes per hour).

These recommendations apply to a single device with no other equipment in the room. Other imaging equipment, processors, ovens, HVAC systems, and so on, may contribute additional emissions to the work environment, increasing the amount of outdoor air ventilation required.

The customer is responsible for assessing the level of airborne emissions in the room to ensure that, upon installation of the ThermoFlex Narrow, the requirements of local, state, provincial, regional, and national regulations for occupational health and safety are satisfied. In the event of any uncertainty about the levels of airborne emissions, the customer should arrange for a qualified industrial hygienist to conduct an indoor air quality assessment.

1. This is a default value. Certain media may require higher ventilation; to check the recommended value for specific media, please see the CTP Media Imaging Performance Database (available from your Kodak representative), where it will be specified if different from default.
2. Information on the hazardous compounds released by a particular media during imaging should be available from the media manufacturer's MSDS or equivalent document.

External Venting for UDRC

If the external venting option is chosen for the debris removal system, the piping connected to the end of the debris cabinet hose must be one of the following sizes:

- 2-in. pipe (maximum Schedule 40)
  - ❒ Maximum length = 45 meter (150 ft.)
  - ❒ Maximum number of 90° bends/elbows = 1 per 3 meter (10 ft.)
- 2.5-in. pipe (maximum Schedule 40)
  - ❒ Maximum length = 105 meter (350 ft.)
  - ❒ Maximum number of 90° bends/elbows = 1 per 3 meter (10 ft.)
- 3-in. diameter or larger ducting
  - ❒ Maximum length = 240 meter (800 ft.)
  - ❒ Maximum number of 90° bends/elbows = 1 per 3 meter (10 ft.)

Note: The third option (3-in. diameter or larger ducting) is not recommended due to sealing issues. It may be used if there is an exhaust fan installed that ensures a vacuum within the ductwork at all times (the minimum flow of the exhaust fan must be greater than 35 SCFM).

The piping material may be galvanized steel, painted carbon steel, PVC, or a similar suitable material.

All joints and unions from the hose coupling to the exhaust/exit of the external venting piping must be properly sealed along their length to prevent ingress or egress or any gas or liquid. Before initial startup, it is recommended that a pressure test be performed to ensure that this requirement is met.

The exhaust/exit of the external venting piping will be free to the exterior of the building, without any restrictions. Adequate nonrestrictive weather protection shall be installed as required. The exit of the external venting piping must be regulated to ensure that no flow occurs when the debris cabinet is not in operation (that is, back-flow prevention).

The customer must supply a coupling to connect the external venting piping with the 1.5-in. ID hose from the debris cabinet. This coupling should install by simply slipping the hose over a braided section of it and securing it with a hose clamp.

Note: Nylprint plates require the UDRC BP with external venting.

Connecting to an Existing Ventilation System

If the customer already has a ventilation system that exhausts to the exterior of the building (such as a processor exhaust system), the venting piping for the debris system may be joined to it. The end of the debris system venting pipe should be mated to the exhaust vent upstream of the ventilation fan.

The limitations on pipe length described above apply.

WARNING: The exhaust fan for processor ventilation must be *on* at the same as the debris removal system is *on* (in other words, whenever the imaging device is operating). Failure to ensure this may result in air that has not been chemically treated entering the facility.

See the UDRC Site Preparation and Requirements document (725-00089A).

Telephone Link

The customer must maintain a direct-dial analog telephone line that is dedicated to the workstation (no other devices sharing this line) for use with Kodak dial-in support. The customer should also provide a separate voice phone line to the output device location for communication with Kodak service representatives during dial-in support.

Note: Remote dial-in support to the output device is dependent upon a dedicated, direct dial-in telephone line. Kodak can only offer remote support to machines that do not share telephone lines with other equipment.

Network

A total of four TCP/IP addresses must be provided for each ThermoFlex Narrow output device:

- One Local Area Network (LAN) connection to the output device for supplying files from the workstation
- Two consecutive static TCP/IP addresses for the output device to workstation computer connection:
  - One for the workstation
  - One for the platesetter

Important: The customer must ensure that these two addresses are removed from the available addresses in the DHCP pool.

Media and Processor(s)

Note: Applies only to ThermoFlex Narrow platesetters with Offset option.

The processor specifications may vary and depend on the specific processor used at the customer's site. The processor vendor should provide the relevant information.

Plates

Note: Applies only to *ThermoFlex* Narrow platesetters with Offset option.

- The ThermoFlex Narrow platesetter supports thermal plates that are sensitive to IR 830-nm wavelength.
- Storage room for plates; please consult the plate vendor for the recommended humidity and temperature ranges in which the plates should be stored.
- Consult your vendor regarding a plate densitometer that is adequate for thermal media.

Plate Registration

Note: Applies only to ThermoFlex Narrow platesetters with Offset option.

For optimal registration, the reference points used by the output device should also be used by plate bending and punching equipment.

The customer is responsible for satisfying the requirements for achieving optimal plate registration on press.

For further assistance with specifying punches and benders to be used with the ThemoFlex Narrow output device, contact a Kodak customer service representative.

Shipment and Delivery

Responsibilities

The customer is responsible for providing Kodak with delivery instructions. The customer is also responsible for transporting all the shipping crates to the installation location and for unloading the shipping crates, but must not unpack them. Kodak recommends that the customer use professional riggers to unload the crates. Dock level is required (a vertical distance from ground to dock of 1.2 meter (4 ft.), and the ability to handle a 15.9 meter (53 ft.) trailer.

Kodak engineers will unpack the shipping crates and install the output device.

Forklift

The customer must provide a forklift or crane with a minimum 1,365 kg (3,000 lb) capacity for unloading of the equipment. The width of the forks must not exceed 15 cm (6 in.) and the span should be 51 cm (20 in.).

Doors and Hallways

The customer must provide free access through doors and hallways from the entrance to the ThemoFlex Narrow location so that the whole pallets can be transported to the installation location. Kodak recommends that the customer furnish a drawing of the route. See *Shipping Crates* on page 18 for maximum crate dimensions.

Once the components are uncrated, they may be moved through smaller doorways. See Table 1 on page 4 for dimensions of individual components.

Note: The service engineer should walk the entire route from the loading dock to the installation area. Measure all doorways, openings and aisles to ensure that there is adequate space to move all of the components safely.

Shipping Crates

The output device is normally shipped in four to five crates, depending on the options ordered. Table 4 lists the individual dimensions (L x W x H) and weights of air-shipped crates.

Table 4: Dimensions and weights of crates

Crate Contents	Length	Width	Height	Weight
ThemoFlex Narrow output device	2060 mm (81.1 in.)	1150 mm (45.28 in.)	1610 mm (63.39 in.)	830 kg (1830 lb.)
Workstation	Varies with configuration			
Debris removal cabinet	See the UDRC Site Preparation and Requirements document (725-00089A).			

Appendix A: Notice

The imaging of some media may result in airborne emissions. This notice is intended to provide general information relating to these emissions only. For information specific to particular media, please refer to the media manufacturer's MSDS or other documentation.

The by-products of the imaging of printing media may include one or more of: aldehydes (formaldehyde, acetaldehyde); oxides (nitrogen dioxide, nitric oxide, carbon monoxide); volatile organic compounds and olefins (benzene, 1,3-butadiene); other gaseous compounds (hydrogen cyanide, and so on); and particulate matter (dust). This list is not comprehensive, and other compounds may be present in the emissions, depending on particular media.

To help prevent contamination and to improve reliability of imaging, the Kodak output device may include a debris removal system containing a filtration unit, either internal or external (for example, a universal debris removal cabinet), corresponding to qualified media used at a particular site. Depending on the configuration of the filtration unit, the unit may trap dust only (for example, UDRC-BP), or it may trap dust and a number of gaseous by-products of the imaging process (for example, UDRC-LC). It is critical to change the filters in the filtration unit on a regular basis.

Not all emissions can be efficiently captured by filtration. Sufficient outdoor air ventilation must be provided in rooms where Kodak output devices and filtration units are located. The requirements for the ventilation rate are contained in either the output device Site Preparation document or another applicable document.

Kodak cannot assure occupational safety under all operational conditions because of factors that are outside the control or knowledge of Kodak. These factors include, but are not limited to:

- Inadequate air ventilation or poor air mixing in the imaging room, which may cause higher than expected emissions concentrations in all or parts of the room
- Imaging of media that were not qualified or pre-approved by Kodak; in particular, media not qualified for use with a debris removal system or a filtration unit specified in the Kodak Sales Agreement, Customer Agreement, Order Form, Service Agreement, Output Device Configuration, or similar applicable document
- Changes to the qualified printing media formulation or manufacturing process made by the media manufacturer after qualification, resulting in emissions changes (this may cause different or greater emissions than expected)
- Incorrect or incomplete specification of potential emissions to Kodak by the media manufacturer, which may cause different or greater emissions than expected
- Combined action of airborne emissions from multiple compounds, which may—through cumulative or synergistic effects—cause greater than expected effects on human health
- Airborne emissions from other sources combining with the imaging system's emissions to exceed occupational health regulations or having cumulative effects on human health greater than those expected for individual emissions
- Variation in individual sensitivity to airborne emissions that may cause greater effects in susceptible individuals
- Tampering with, misuse of, or incorrect maintenance of imaging equipment or emissions safety systems, which may cause additional emissions to occur
- Non-compliance with instructions in user guides, warning labels, site preparation, or other Kodak documents, which may cause excessive emissions levels
- Changes in occupational health regulations or industrial hygiene practices that may result in a system that is considered safe upon original installation, but is found to be unsafe at a later date.

Because of variables such as those listed above, many of which are in the control of the end user or the media manufacturers, Kodak cannot warrant that, under all imaging system installations and operating conditions, including the use of a filtration unit, and with all media types, media will not release emissions while being imaged that an operator or other persons may find objectionable or may claim to be injurious. KODAK'S ONLY WARRANTY AND LIABILITY, IF ANY, SHALL BE AS PROVIDED UNDER ITS STANDARD TERMS OF SALE OR CUSTOMER AGREEMENT, AS APPLICABLE. Neither this notice nor the Site Preparation document or other similar document is a promise or guarantee of a particular level of performance, and neither this notice nor the Site Preparation document or other similar document is a warranty of any kind whatsoever. It is the end user's responsibility to ensure continuing compliance with all Occupational Health and Safety regulations and guidelines in its work environment.

Appendix B: Site Inspection Checklist

Full completion of this checklist will greatly assist in building, delivering, and installing the ThermoFlex Narrow Hybrid and all its accessories.

Site Information

Company name: _____

Site address:

Shipping address:

Directions to site:

Nearest airport:

Local hotels:

Local restaurants:

Contact Information

Contact name: _____

Position: _____

Telephone/fax: _____

E-mail: _____

Prepress manager: _____

Maintenance manager: _____

Network manager: _____

Device operators: _____

_____

_____

_____

General background and computer skills of operators:

Note: All operators must be capable of running a personal computer with a *Microsoft Windows* operating system. If more than four operators are to be trained, an extra day will be required after the installation.

Machine Usage

Number of shifts per day: _____

Shift 1 hours: _____

Shift 2 hours: _____

Shift 3 hours: _____

Shift 4 hours: _____

Media Supported

List all plate types and sizes to be used for each device.

Measurements are in:

☐ mm ☐ in.

Media Type[a, b]	Plate Size	Average # of Plates Per Day	Average Length of Press Run	Type of Work (4-color; Spot Color; Halftones; Text Only)

a. Kodak-approved media only. Imaging speed can be affected if media sensitivity or processing is inconsistent with Kodak's qualification testing. See your Kodak representative for specific media information.

b. Some plates may restrict the operating environment of the system. Consult the plate manufacturer for their recommended temperature and humidity ranges for plate operation and storage.

Is a plate punch to be used?

☐ Yes ☐ No

Punch name and model: _____

Installation date: _____

Comments on punch condition:

Press(es) Supported

Press name and model: _____

Processor Supported

Processor name and model: _____

Delivery date: _____

Has the customer met the power and plumbing requirements for the processor?

☐ Yes ☐ No

Comments:

Other Kodak Equipment On Site

Are any other Kodak products already installed?

☐ Yes ☐ No

Comments:

Will Kodak be installing other new equipment during the installation of the ThermoFlex Narrow?

☐ Yes ☐ No

If yes, what will be installed?	When?	Who at Kodak is doing the install?

Other Non-Kodak Equipment in Prepress Room

Are any other non-Kodak products already installed in the prepress room?

☐ Yes ☐ No

Comments:

Planned Installations Nearby

Will any other new equipment be installed in the vicinity of the device (for example, a processing line)?

☐ Yes ☐ No

If yes, what will be installed?	When?	Who is doing the install?

Type of workstation ordered: _____

Type of workflow ordered: _____

Configuration

Which options were ordered?

☐ Magnetic drum

☐ External venting

☐ V-speed

☐ Offset

Site Requirements

Note: Install the device in a clean prepress area.

1. Is sufficient area available for the device? Measure the available space at the site location.

   ☐ Yes ☐ No

   Comments:

2. Is the working area free from support beams or other obstacles?

   ☐ Yes ☐ No

   Comments:

3. Does the customer know that they are responsible for transporting shipping crates from their shipping dock to the installation area?

   ☐ Yes ☐ No

4. Does the forklift to be used meet requirements? (See *Forklift* on page 17.)

   ☐ Yes ☐ No

5. Do the doors and hallways between the shipping dock and the installation have sufficient area to allow passage of the shipping crates? (See *Doors and Hallways* on page 17.)

   ☐ Yes ☐ No

Comments:

6. Can the receiving area accommodate a typical air ride truck—that is, does it have dock level? (See *Shipment and Delivery* on page 17.)

☐ Yes ☐ No

Comments:

7. What is the expected range of temperature that the device will be used in?

Temperature range: _____

8. Will the room's temperature control system be able to handle the heat load generated by the device and the processor line? (See *Heat Output* on page 10.)

☐ Yes ☐ No

Comments:

9. What is the expected range of humidity that the device will be used in?

Humidity range: _____

10. Will the room's humidity control system be able to handle the moisture load generated by the processor line?

☐ Yes ☐ No

Comments:

11. Is the installation area flat to the required specification? (See *Floors* on page 8.)

☐ Yes ☐ No

Comments:

12. Is there large machinery or a forklift throughway inside the site, or any traffic or industry near the site that may transmit vibration to the device?

☐ Yes ☐ No

Comments:

13. What are the AC mains voltages?

AC mains voltage for workstation: _____

AC mains voltage for device: _____

14. Is power conditioning required?

☐ Yes ☐ No

If yes, has a line conditioner been ordered?

☐ Yes ☐ No

15. Is UPS required?

    ☐ Yes ☐ No

    If yes, has the UPS been ordered?

    ☐ Yes ☐ No

16. Is a 20 A service (16 A in Europe) with a slow-blow fuse or breaker installed, and a dedicated ground for the device?

    ☐ Yes ☐ No

    Comments:

17. Is the AC service for the workstation installed and originating from the same supply panel as the device AC service?

    ☐ Yes ☐ No

    Comments:

18. Does the air supply flow meet specifications? (See the *Air Supply Qualification* on page 11.)

    ☐ Yes ☐ No

    Record the test results in the tables that follow.

Air supply qualification test results

Part number of measurement tool: _____

First Test	
Time on	**Pressure**
10 Sec	
20 Sec	
30 Sec	

Second Test	
Time on	**Pressure**
10 Sec	
20 Sec	
30 Sec	

Third Test	
Time on	**Pressure**
10 Sec	
20 Sec	
30 Sec	

40 Sec	
50 Sec	
60 Sec	

40 Sec	
50 Sec	
60 Sec	

40 Sec	
50 Sec	
60 Sec	

19. Is the air supply filtered and dried as per specification? (See *Air Supply* on page 10).)

☐ Yes ☐ No ☐ Prefilter ordered

Comments:

20. Are the voice and data telephone lines installed?

☐ Yes ☐ No Modem number: _____

Comments:

21. What type of network connection is used?

_____

Follow Up

Is follow-up required?

☐ No — The location described in this document meets all criteria for a timely and successful installation of the ThermoFlex Narrow platesetter.

☐ Yes — Some follow-up is required to ensure that the site requirements are met prior to the installation of the device.

The outstanding items from the Site Requirements list are:

Name of customer contact: _____

Telephone/fax: _____

E-mail: _____

Date of next follow-up contact: _____

Site Inspection Completed

The presite inspection was performed on _____ by a representative of Kodak and witnessed by at least one representative of the customer.

Kodak representative: _____

Signature: _____

☐ The customer understands and hereby agrees to the requirements outlined in the UDRC Site Preparations and Requirements document (725-00089A), including any appendix attached thereto, as acknowledged by the customer's signature herein or, alternatively, by the customer's signature on a Kodak Sales Agreement, Customer Agreement, Service Agreement, Order Form, or similar applicable document.

Customer representative: _____

Signature: _____