



Global Services North America  
Wilmington MA 01887

# :ANAPURNA M4F AGFA UV INKJET PRINTER SITE PREPARATION GUIDE



**Distribution:**

Customer  
Sales  
Service  
Dealer

03/17/10 Revision 5.0

**Questions? Contact 800-879-2432 and ask for an Anapurna Specialist**



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## Table of Contents

Purpose: -----	3
Scope: -----	3
Major Project Milestones:-----	3
Dock door and hallway access-----	4
System Dimensions and Weight Crated:-----	4
System Dimensions and Weight Uncrated:-----	4
Forklift Requirements: -----	4
Foot print with connections:-----	5
<b>Site Requirements</b>	
Compressed Air Supply:-----	6
RIP Software and PC Platform: -----	7
Power Requirements: -----	8
Buck Boost Transformer wiring: -----	10,11
Site Readiness Checklist:-----	12
Customer Responsibilities: -----	13
General Information: -----	14
Head Wipes Required: -----	14
Environmental Requirements: -----	14



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### **Purpose**

The purpose of this document is to assist the local service representative, who is responsible for configuring and installing the :Anapurna. This document will help to ensure the site will be ready and the customer is informed of their responsibilities. Please go through all the information provided in this document thoroughly with the customer. Have the customer sign the :Anapurna System Site Check List. You should write down any notes on the Note page of the Site Check List that may be necessary for a successful installation. Make a copy for the customer to keep on site, and one for you.

### **Scope**

This document specifies the site requirements for the :Anapurna System and the preparations needed before the installation. It will be the intent of this document to inform the customer of what the requirements are for the :Anapurna System and inform them of their responsibilities. Together this will help in producing a successful installation.

### **General**

The customer is responsible for the preparation of the site to fulfill the requirements of the :Anapurna System as outlined in this document.

## **4 Major Project Elements**

**Dock & building access**

**Compressed Air Supply**

**PC Platform & RIP Software**

**AC Power Requirements**



# Dock & building access

## System Dimensions and Weights

Dimensions Uncrated	Dimensions Crated	Weight:
H = 63 Inches (1600 mm)	H = 71 Inches (1800 mm)	Crated: 3087 lbs (1400 Kg)
W = 141 Inches (3570 mm)	W = 153 Inches (3800 mm)	Uncrated: 2165 lbs (980 Kg)
D = 57 Inches (1450 mm)	D = 61 Inches (1550 mm)	

Accessory Box	Width	Height	Depth	Weight
	76" (192 cm)	47 " (119 cm)	52 " (133 cm)	595 lbs (270 Kg)

## Shipping and Delivery

**No Truck Height Loading Dock:** Due to the width of the Anapurna M4F (153 inches) it is important that the freight vehicle delivering the crated engine have a lift gate. This will allow the forklift to pull the crate length-wise to the lift gate and together with the forklift supporting one end, the crate can be lowered to the ground.

**With Truck Height Loading Dock:** The load dock area must have enough vertical height and space for the forklift to be able to lift the printer off the pallet.

## Forklift Requirements

4409 lbs or 2000 Kg or higher capacity to lift the printer crate.

The forklift blades should be at least 60 inches or 1500 mm in length.

The distance between the fork lift blades should be 41 inches or 1050 mm apart.

## Floor Strength and Flatness

The floor must be level with a maximum incline or waviness of +/- 1.3 cm across the footprint. **Never install the printer on carpet.**

## Doors and Hallway Access

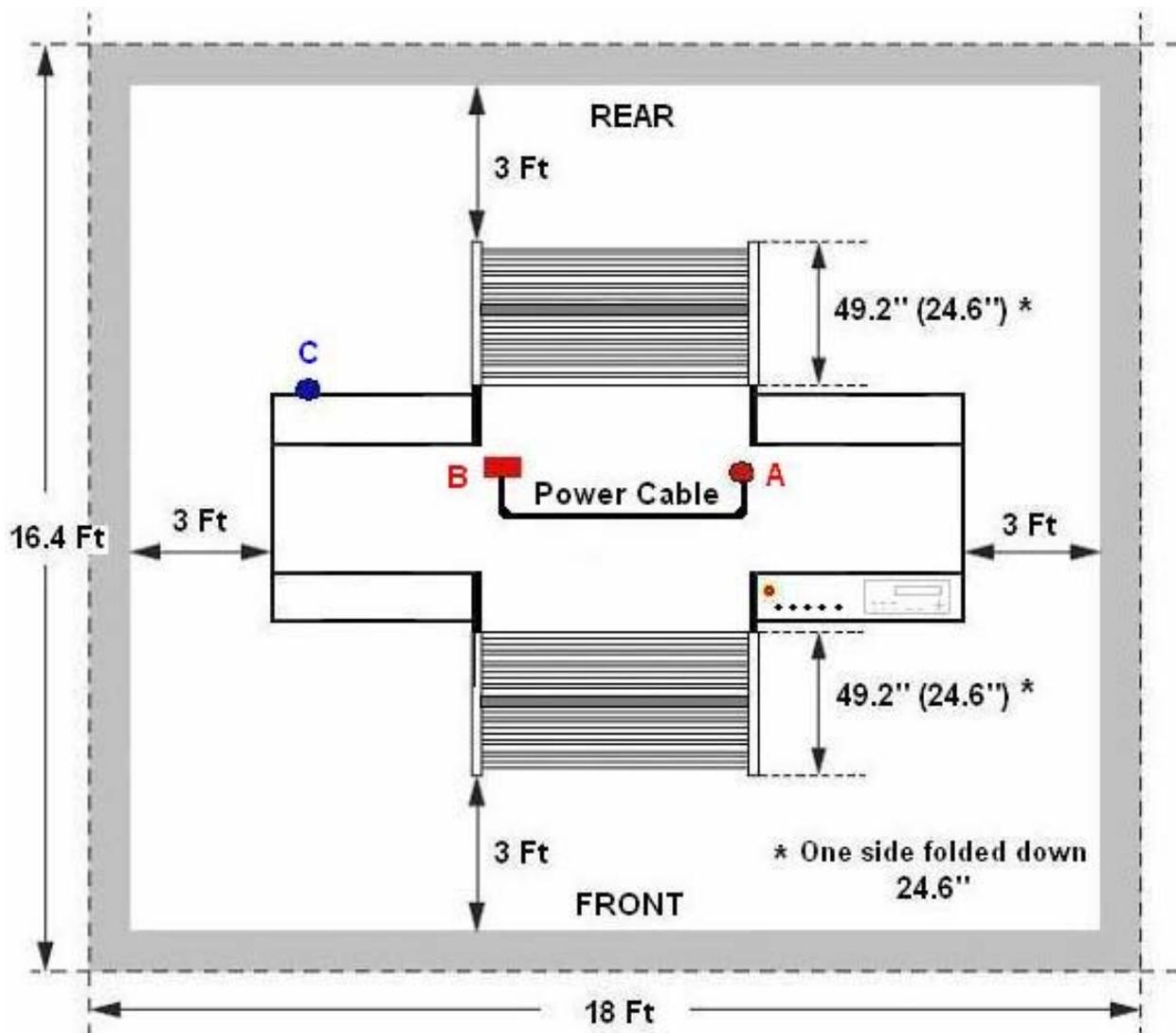
The customer must provide free access through doors and hallways from the entrance to the Anapurna location so that the printer can be rolled to its position. It will be the customer's responsibility to have the system moved to the location of where the Anapurna will be installed. An AGFA Service representative will be present to assist with moving the equipment. Once on its wheels the printer can be rolled to position, make sure to provide ramps as necessary to clear any thresholds.

**Minimum Door Way Width:** 58 (Inches) or 147.3 (CM) Uncrated \*\*  
62 (Inches) or 157.5 (CM) Crated

\*\* Roll to Roll brackets come preinstalled, they can be removed to reduce the door way width requirement to 43.3 inches or 1100mm.

**Minimum Door Way Height:** 7.0 (feet) or 213 (CM) Uncrated  
7.0 (feet) or 213 (CM) Crated

**Foot Print and Working Area:**



**Power and Air Connection Points:**

The power/air connection points are indicated in the diagram above with the letters **A**, **B**, and **C**

**A** – The power cable entry point lower chassis – near the rear left leveling foot.

**B** – Electrical terminal block location inside the printer, where the power cable connects.

NOTE: The distance between point **A** and **B** or power cable length inside the printer is approximately 9 feet. Note: Add enough cable; wall outlet or electrical drop plus the 9 feet.

**C** – Air line connection, outside rear right. A 6 mm OD tube is provided with the printer.

\* Floor space required for standard tables shown above is: 16.4 feet/5m for Depth 18 feet/5.5 m for width.

\* The optional extension tables need a floor space of: 16.4 feet/5 m for depth and 28 feet /8.6m for width

**Engine Air Connection:**

An adapter (shown below) is needed to connect the air hose from the air regulator to the printer. *This should be purchased locally.*

**Compressor:**

**3 - 5 HP, min 60 - 80 gallons** or better tank. The compressor regulator should be set between 105 - 110 PSI for trip OFF and to 85 PSI to trip ON.

**Engine Air Pressure:**

**Air from the compressor, going to the Anapurna must be regulated to 80 PSI. The Air regulator must be supplied by the customer and located near the engine.**

**Engine Air Volume:**

.28 CFM (2 gallons/per minute usage rate)

**Compressor Air Quality:**

Air Filters are required to eliminate moisture (No Water/No Oil)

**Air - Water – Oil filtration must be purchased seperately**



Sample Adapter for the 6 mm air line to the printer. The 6 mm air line comes with the printer, approximate length is 1 meter.

**Recommended:****Compressor, 60 G 5HP**

Compressor Single Stage Compressor, Motor Running HP 5, Free Air CFM @ 90 PSI 16.0, @ Max Pressure 14.2, Volts 208-230, Phase 3, Amp Draw 13.4-13.2/6.6, Tank 60 Gal, Tank Type Vertical, FNPT Outlet 3/4 In, Maximum Pressure 140 PSI, Duty Cycle 80/20, Pump Type Cast Iron, Pump Oil Capacity 17 Oz, Splash Lubrication, Torxter Not Required, Thermal Protection, Stationary, For Shop or Maintenance Facility General Air Tool Operation, Length 23 In, Width 31 In, Height 71 Inches

Source: [www.grainger.com](http://www.grainger.com) item # 4ME98

**Compressor, 3 HP**

High Performance Cast Iron Air Compressor, Motor Running Power 3.0 HP, Free Air Flow @ Maximum Pressure 10.3 CFM, Free Air Flow @ 90 psi 11.3 CFM, Maximum Pressure 135 PSI, Phase Single, Voltage Rating 230 Volts, Current Rating 14.7 Amps, Tank Capacity 60 Gallons, Tank Type Vertical, Height 66 Inches, Length 20 Inches, Width 23 Inches, NPT Outlet (F) 1/2 Inches, 60 Hz

Source: [www.grainger.com](http://www.grainger.com) item # 4YW09

## Wasatch RIP

The Wasatch SoftRip is provided for raster image processing of images. Install the Wasatch SoftRIP on a PC, which meets the following platform specifications.

### Minimum Recommended System requirements for Anapurna M4F

- CPU Type: Core 2 Duo, 3.06 GHz or faster
  - 4 Gigabytes Ram
  - Two Physical hard drives, 120 - 160 gigs size, 10K RPMs, one for the OS, one for the Rip
  - Windows XP, or Server OS, Windows 7, (Vista is not supported)
- 
- **2 NETWORK CARDS**, The RIP Computer requires two network cards, one for the connection between the RIP and the printer. The second network card is needed for the connection between the customer's network and the RIP computer. A **crossover cable** is supplied with the unit and is used to connect the Anapurna directly to the RIP computer. **The Anapurna cannot be connected directly to the customer's network and will not function as a network printer.**
  - **MULTIPLE HARD DRIVES**, by purchasing a PC with **2 physical hard-drives** this will speed up the processing of large image files and improve the reliability of the printer.
  - **CPU SPEED**, The faster the CPU, the faster the software will process your files. Purchase the fastest available computer you can. More RAM will also help speed up the processing; it is the speed of the CPU that directly affects how fast SoftRIP runs. If you are processing large files over 500 MB in size, it is also important to have a minimum of 4 GB of memory.
  - **WASATCH**, Wasatch SoftRIP can process more than one file at a time and takes advantage of multiple CPUs for this purpose. For every additional processor in your computer, it is recommended to purchase the maximum amount of RAM for your CPU. It is important to use multi-gigabyte disk drives on computers that are intended for use in high resolution printing, especially if you plan to keep the Ripped files available in the Wasatch Print Queue.

***Buying a robust PC platform will provide a quick payback  
in faster output speeds and greater reliability!***

**Power Requirements for the Anapurna M4F:**

*The following electrical requirements must be provided to your electrician.*

- Single phase, 208 Y (Wye) power
- 40 Amp, 60Hz, dedicated circuit with ground, no neutral
- The electrician must provide the proper power cord and plug/receptacles (See Note 3)
- Buck boost transformer wiring diagram is on page 10

**Important**

1. **The printer operating voltage range is: 230 – 240 VAC, we need to increase the 208 Voltage to this range for the UV lamps to properly cure the ink. A Buck/Boost transformer will be required to increase the 208 volts to this range. See pages 9, 10, and 11 for transformer data, configuration, and a sample transformer.**
2. **To minimize voltage loss the buck boost transformers should always be located near the printer.**
3. **The length of the power cord should be 9 Feet plus the distance to the outlet or power drop. The plug/receptacle should be a twist lock design in accordance with local electrical codes. Agfa Service will need to be able to disconnect power when required.**

*If your electrician has any questions please contact AGFA at 1 800 879 2432*

**The Buck/Boost Transformer**

The Anapurna M4F UV Printers requires power in the 230 – 240 VAC range for the UV lamps to properly cure the ink. At 208 Volts the customer will have curing problems and the lamps will fail prematurely.

**Buck/Boost Transformer and Specifications:**

- **KVA Rating: 1.5**
- **Primary Volts: 120/240**
- **Secondary Volts: 16/32**
- **Sola Hevi Duty Catalog #: HS20F1.5A**
- **Sola Hevi Duty Website is: [www.solaheviduty.com](http://www.solaheviduty.com)**

Another source for the 1.5 KVA Buck/Boost transformers is Grainger.com, search for Item # “2CL93”.

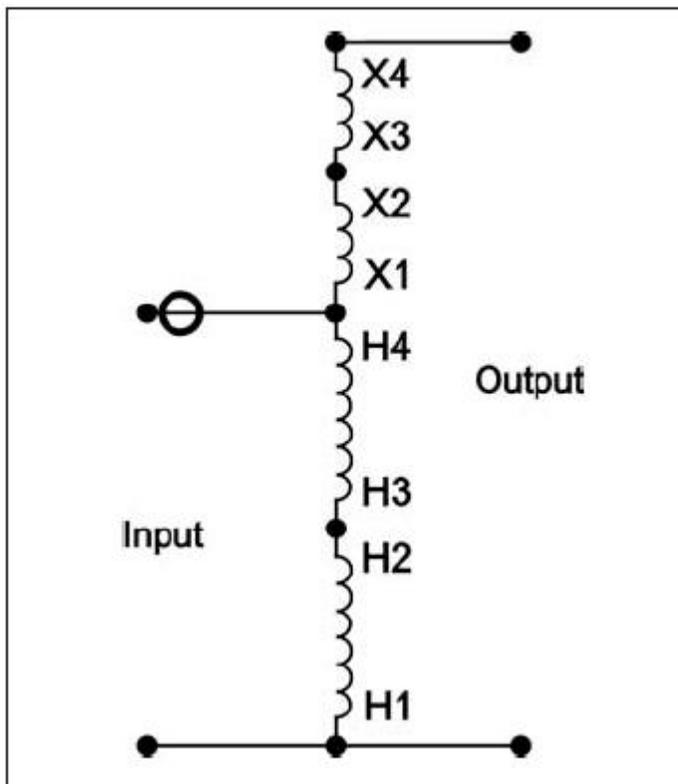
**SPECIAL NOTE FOR CANADIAN CUSTOMERS PLEASE READ CAREFULLY**

**ELECTRICIANS IN CANADA MAY REFER TO A “BUCK BOOST” TRANSFORMER AS AN “AUTO TRANSFORMER”.**

**INSTEAD THE TERM “ISOLATION TRANSFORMER WITH STEP UP” SHOULD BE USED SO THAT THE ELECTRICIAN WILL ORDER THE CORRECT TRANSFORMER FOR THE PRINTER.**

## AC Power Requirements

### Wiring Diagram to Boost Voltage (+32) for Single Phase Power:



Input Voltage = 208 V  
Output Voltage = 236 V

This diagram illustrates how to connect a 1.5 KVA, 16/32 Volt buck boost transformer. This wiring configuration boosts the line voltage from 208 to 236 Volts.

Diagrams such as this one is provided by the Buck Boost transformer manufacturer. It is normally found on the data sheet that ships with each transformer.

**Sample Buck/Boost Transformer:**

This photo is showing a sample Buck Boost Transformer from Sola Hevi-Duty, it is a 1.5 KVA version, catalog # HS20F1.5A and it weights approximately 38 pounds or 17.2 Kgs.



**Site Readiness Check List**

Information to Check		Yes	No
Forklift	Lateral fork movement capability. Proper lifting rating? (Pg.4)		
	Length of forks should be 60 inches (152.4cm) minimum		
Loading Dock	If the customer does not have a loading dock, then the freight truck delivering the Anapurna will need a lift gate to lower the crate to the ground along with the forklift		
Compressed Air Supply	3 - 5 HP, 60 - 80 gallon or better Capacity Compressor?		
	24/7 operation if required. The compressors regulator should be set to 105 - 110 PSI for trip OFF and to 85 PSI to trip ON. See (pg . 6) Engine air volume is .28 CFM		
	Air filtration for moisture and particles?		
	Air regulator for the engine?		
Humidity	Range 35% to 75% RH (non-condensing) Ideal 40% ?		
Air Temperature	Not to exceed 126° F or 52 °C		
Room Temperature	Range 68° F to 80° F (20 – 26.6° C) Ideal 72° F (22° C) ? Room air exchange should be 10 times per hour ? page 14		
RIP Computer Specs Met?	Refer to page 7 for details. Windows Vista operating system can not be used.		
Line voltage for engine	208 Y (Wye), Single Phase, 60 Hz, 40 Amp		
	40 amp breaker circuit?		
	Dedicated Circuit?		
	A Buck/Boost transformer maybe required to bring the voltage up to 230 - 240 VAC Range. See page 9.		
Floor area	Floor should be concrete, flat and stable? <u>No Carpet Allowed</u>		
	156 lbs/ft <sup>2</sup> (70 kg/m <sup>2</sup> ) Per foot load on the floor. Work Space: 500 cm x 550 cm (16.4 feet x 18.1 feet)		
Ceiling Height	Check for clearance (uncrated). No less than 7 foot or 213 cm high. (Pg.4)		
	Check doorways for clearance (height, width)		
	Check path from loading dock to installation location		
System Orientation	Is there room for the removal and replacement of parts for servicing? (Pg. 5)		
	Can all engine doors open fully?		
Head Wipes	Customer informed of proper heads wipes required? (Pg 14)		



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## Customer Responsibilities

The following information has been explained to the customer during the site preparation visit.

### **The Customer and his operator(s) are responsible to be skilled in:**

- Knowledge of PC's and Networking environment
- Knowledge of Windows and Windows Applications
- Knowledge in RIP software
- Knowledge of wide format Inkjet applications

### **The Customer is Responsible to provide:**

- **Compressed air** with the specifications as outlined in this document on page 6.
- **Electrical service** and a power cord to the printer and a twist lock plug and matching receptacle, as outlined in this document see page 8.
- **Proper environmental conditions**, room ventilation, temperature, humidity, and a clean dust free area for the printer as outlined in this document page 14.
- **Suitable RIP computer and RIP software** with the specifications as outlined in this document, page 7.
- **Adequate space** for the Agfa Anapurna, as described in this document, page 5
- **Transportation of the shipping crates** to the installation location in the building.

### **Recommend Customer Supplies:**

1. Denatured Alcohol
2. Spray bottles for Alcohol
3. Head Wipes see bottom of page 14
4. Funnels for loading ink
5. Grease gun for printer bearing lubrication see photo →



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Customer Signature

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AGFA Service Representative Signature

**Indicate your compliance with the terms noted above in an e-mail to:  
reed.boynnton@agfa.com**



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**General Information**

**Environmental Requirements**

**Room Operating Temperature:** Range 68° F to 83° F (20 - 28° C) Ideal 72° F (22° C)  
 (Room air temperature should not to exceed 126° F or 52 °C)

**Humidity:** Range 35% to 75% RH (non-condensing) Ideal 40%

**Room Air Exchange:** 10 times per hour.

The room must be clean and dust free so that no contamination can adversely affect the print heads and print quality.

**Manual Load or Roll feed** Rigid materials loaded by hand, or roll to roll material

**Printer** Resolution: 720 x 720 dpi (4 Pass) and 720 x 1440 dpi (8 Pass)

**Manual unload or Roll feed** Material exits on the table or can be automatically rolled up.

**Air** Internally regulated to control ink flow and pneumatics

**Vacuum** A ring blower is used to generate vacuum for the feed table.

**Ventilation** Room air exchange is required, 10 times per hour.

**Software RIP** Wasatch RIP Includes dongle, software and installation key.

**Heads** Konica Minolta 512 Nozzles, 14 pl

**Ink Curing** Two UV curing lamps

**Inks** UV curable: Anapurna inks, four ink tanks (K, C, M, Y)

**Media** Media Width: up to 160 cm (63 inch) Printable width: up to 158 cm (62 inch) [Borderless 152 cm (60 inch)] Maximum Roll media weight: 50 kg or 110lbs Minimum thickness = 1mm and maximum thickness = 45 mm

**Printing Speed**

4 Pass Bi directional	13.8 m <sup>2</sup> /hr (149 ft <sup>2</sup> /hr)
4 Pass Uni directional	8.1 m <sup>2</sup> /hr (87 ft <sup>2</sup> /hr)
8 Pass Bi directional	7.5 m <sup>2</sup> /hr (81 ft <sup>2</sup> /hr)
8 Pass Uni directional	4.0 m <sup>2</sup> /hr (43 ft <sup>2</sup> /hr)

**Engine AC Voltage** Single phase power 208 Y, 60HZ, with a 230 – 240 Voltage range is required with ground no neutral, 40 Amp dedicated circuit. Buck/Boost transformer may be needed the 208 Y power to the 230 – 240 Volts range.

**Head Wipes** **Do not use cotton, poly or silk material on print heads, Agfa recommends:**

<u>Company:</u>	Harmony Business Supplies (www.harmonycr.com)
<u>Phone Number:</u>	800- 899-1 255
<u>Product Code:</u>	CT 604
<u>Description:</u>	Pre Cut 4" x 4", Hydrosorb 1 Wipes, 1200/Bag
<u>Cost:</u>	Approximately \$30.00