

# OPERATOR'S MANUAL

LINKIT® Series LKS400 Portable Conveyor  
(10' | 13' | 16' | 20')



DISTRIBUTED BY:

InterQuip USA LLC

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## IMPORTANT

Read, understand and obey these safety rules and operating instructions before operating this machine.

Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, please contact InterQuip USA LLC.

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# SAFETY RULES

LINKIT® LKS400 Series Portable Conveyor



## DANGER

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**Failure to obey the instructions and safety rules in this manual will result in death or serious injury.**

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Do Not Operate Unless:

You learn and practice the principles of safe machine operation contained in this operator's manual.

You read, understand and obey the manufacturer's instructions and safety rules—safety and operator's manuals and machine decals employer's safety rules and worksite regulations applicable governmental regulations.

You are properly trained to safely operate the machine.

1. **Avoid hazardous situations. Know and understand the safety rules before going on to the next section.**
2. Always perform a pre-operation inspection.
3. Always perform function tests prior to use.
4. Inspect the workplace.
5. Only use the machine as it was intended.

## ELECTROCUTION HAZARDS

This machine is not electrically insulated and will not provide protection from contact with or proximity to electrical current.

Do not operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

Ensure safe routing of power cable to minimize risk of electrocution.



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## EXPLOSION AND FIRE HAZARDS

Do not operate the machine in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.



## SETUP HAZARDS

Check work area for overhead obstructions or other possible hazards.

Do not use the machine whilst under the influence of alcohol or drugs.

Ensure machine is securely fastened at the top and brakes are on before use.

Do not alter or disable machine components that in any way affect safety and stability.

Do not replace items critical to machine stability with items of different weight or specification.

Be aware of ground surface prior to installation.

Do not use the machine on a moving or mobile surface or vehicle.

Ensure all tires are in good condition and cotter pins are properly installed.

Do not ride on machine.

Do not alter or disable limit switches or remote handset.

Do not operate the machine in strong or gusty winds.

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## FALL HAZARDS

Always erect a safety barrier to prevent access through underside of machine. Failure to do so could result in serious injury.



Do not lean over machine while belt is moving.

Do not ride on machine.

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## BODILY INJURY HAZARD

Use common sense and planning when installing and operating the machine.

Keep hands and limbs away from moving belt.

Always wear correct PPE.



## COMPONENT DAMAGE HAZARDS

When using a generator, ensure it is fitted with a voltage regulator before use.

Do not over load the machine 440 LBS **MAX** belt load.

Do not use machine as a ground for welding.

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## DAMAGED MACHINE HAZARD

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

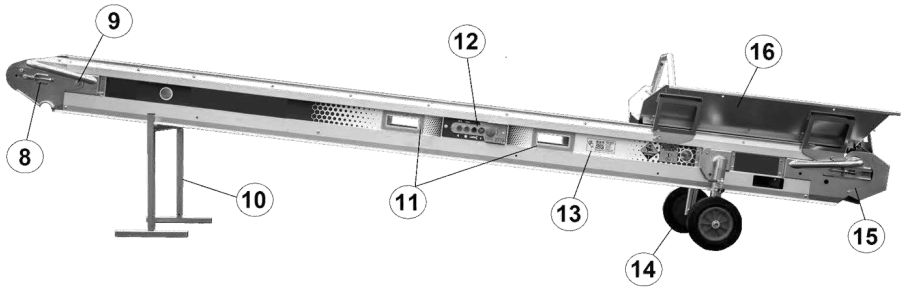
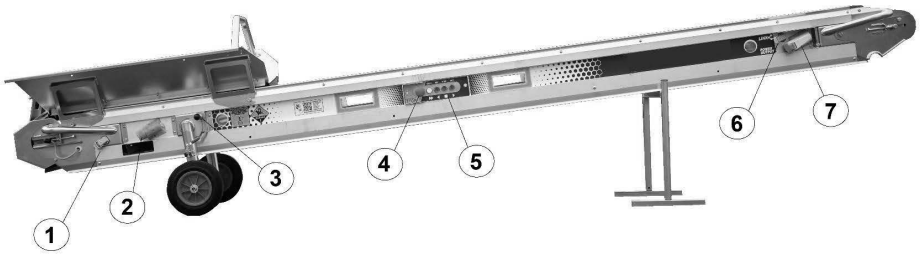
Be sure all maintenance has been performed as specified in this manual.

Be sure all decals are in place and legible.



# LEGEND

LINKIT® LKS400 Series Portable Conveyor



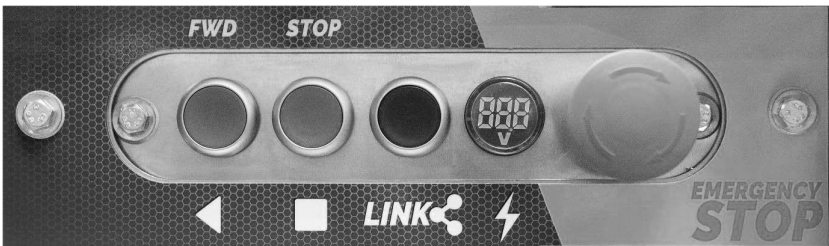
1: Comms link INPUT	9: Adjuster pivot bolt
2: Power INPUT	10: Conveyor trestle
3: Bogey locking pin	11: Forklift holes
4: Emergency stop	12: Forward/ Stop/ Link/ Voltage indicator
5: Forward/ Stop/ Reverse/ Twin Speed	13: Operator manual QR Code
6: Comms link OUTPUT	14: Wheels
7: Power OUTPUT	15: Drive drum
8: Top adjuster	16: Hopper

# CONTROLS

LINKIT® LKS400 Series Portable Conveyor



CONTROL	DESCRIPTION
Emergency Stop	Emergency Stop
Speed	Two-Speed Control (Fast/ Slow)
Rev	Conveyor Reverse
Stop	Conveyor Stop
Fwd	Conveyor Forward



CONTROL	DESCRIPTION
Fwd	Conveyor Forward
Stop	Conveyor Stop
Link	Conveyor Link activate
Pwr	Conveyor Input power
Emergency Stop	Emergency Stop

# PRE-OPERATION INSPECTION



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## DO NOT OPERATE UNLESS:

You learn and practice the principles of safe machine operation contained in this operator's manual.

1. Avoid hazardous situations.
2. **Always perform a pre-operation inspection. Know and understand the pre-operation inspection before going on to the next section.**
3. Always perform function tests prior to use.
4. Inspect the workplace.
5. Only use the machine as it was intended.

## FUNDAMENTALS:

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance.

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift.

The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items and locations for modifications, damage or loose or missing parts.

A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications.



## PRE-OPERATION INSPECTION:

Be sure that all decals are legible and in place.

Be sure the main belt is properly tensioned and in good condition.

Be sure the correct accessories are present. See parts list.

Check the following components or areas for damage, modifications and improperly installed or missing parts:

- Electrical components
- Wiring
- Power sockets
- Linking sockets
- Belt rollers
- Drive motor
- Tires and wheels
- Brakes
- Power on lights
- Nuts, bolts and other fasteners

Check entire machine for:

- Cracks in welds or structural components
  - Dents or damage to the machine
  - Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
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# MAINTENANCE



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## OBSERVE AND OBEY:

Only routine maintenance items specified in this manual shall be performed by the operator.

Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturer's specifications and the requirements specified in the responsibilities manual.

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## Maintenance Symbols Legend:

### NOTICE

The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.



Indicates tools will be needed to carry out this operation.

## CHECK MAIN BELT TENSION AND TRACKING:



Maintaining the proper belt tension is essential to good machine performance and service life. Operating the machine with an improper belt tension can damage machine components.

### NOTICE

#### Check belt tension when power is off.

1. The main belt will only need to be tensioned if it is slipping under load.
2. At the head of machine. Loosen the left M12 thru bolt holding the return roller.
3. Once the M12 thru bolt is loosened, use a 17mm socket or spanner to turn the M10 bolt. Rotate two full turns. Then retighten the M12 thru bolt.
4. Repeat step 3 to the right side.
5. Turn on conveyor and run belt forwards.
6. Observe the belt tracking.
7. If the belt is drifting to the right, loosen the right hand M12 thru bolt and turn the M10 tensioning bolt clockwise. Rotate two full turns. Then retighten the M12 thru bolt.
8. Repeat left or right as needed.
9. Tighten all bolts and check.

## CHECK WHEEL BRAKES:

Maintaining the brakes is an essential aspect of machine maintenance. Whilst erecting a machine the operator depends on the brakes functioning.

### NOTICE

#### Check brake function while machine is flat on the ground.

1. Move the brake arm back and forth to its extent of travel. Ensure it moves freely. If brake won't move or is stiff, grease and retry.
  2. Ensure wheel cannot be moved whilst brake is operated.
- 

## CHECK BELT ROLLER CONDITION:

Ensuring no muck or debris is built up on or around the rollers is essential to ensure good performance and service life.

### NOTICE

#### Check belt rollers when power is off.

1. Lift belt at base and top of machine.
2. Inspect the condition of steel pitching rollers.
3. Move along the machine checking the rollers are free moving and free of debris or build up.
4. If a roller is seized, replace straight away as this can damage the belt and cause tracking issues.

## SCHEDULED MAINTENANCE:

Maintenance performed quarterly and annually must be completed by a person trained and qualified to perform maintenance on this machine according to the procedures found in the service manual for this machine.

Machines that have been out of service for more than three months must receive the quarterly inspection before they are put back into service.

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# FUNCTION TESTS



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## DO NOT OPERATE UNLESS:

You learn and practice the principles of safe machine operation contained in this operator's manual.

1. Avoid hazardous situations.
2. **Always perform function tests prior to operation. Know and understand the function tests before going on to the next section.**
3. Always perform function tests prior to use.
4. Inspect the workplace.
5. Only use the machine as it was intended.

## FUNDAMENTALS:

The function tests are designed to discover any malfunctions before the machine is put into service.

The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

## FUNCTION TESTS:

Select an area that is firm level and free of obstruction.

1. Plug 110v power into input socket.
  - Observe the center red button on control box. The button should be illuminated.
  - The voltage indicator on the left-hand side of the conveyor will display the input voltage.

## AT THE CONTROLS:

2. Press the emergency stop button.
  - The center red button should flash indicating a stop circuit function.
3. Press forward and reverse buttons.
  - Belt should not move.
4. Release emergency stop by rotating it clockwise until it releases and clicks.
  - Red light should return to being permanently illuminated.
5. Press the emergency stop button on the left-hand side.
  - The center red button should flash indicating a stop circuit function.
6. Press forward and reverse buttons.
  - Belt should not move.
7. Release emergency stop by rotating it clockwise until it releases and clicks out.
  - Red light should return to being permanently illuminated.

## TEST THE FORWARD AND REVERSE FUNCTIONS:

8. Press the forward button.
  - Buzzer will sound for 2 seconds.
  - The belt should move forwards.
9. Press the fast/ slow button.
  - Belt will speed up.
10. Wait 5 sec then press the fast/ slow button.
  - Belt will slow down.
11. Press the center stop button.
  - Belt should stop.
12. Press and hold the reverse button.
  - Belt should move in reverse after 2 seconds.
13. Release reverse button.
  - Belt will stop.

**If the machine fails any of these function tests, it should be removed from service and repaired.**

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# WORKPLACE INSPECTION



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## DO NOT OPERATE UNLESS:

You learn and practice the principles of safe machine operation contained in this operator's manual.

1. Avoid hazardous situations.
2. Always perform function tests prior to operation.
3. Always perform function tests prior to use.
4. **Inspect the workplace. Know and understand the function tests before going on to the next section.**
5. Only use the machine as it was intended.

## FUNDAMENTALS:

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

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## WORKPLACE INSPECTION:

Be aware of and avoid the following hazardous situations:

- Bumps, floor obstructions or debris
- Slopes
- Unstable or slippery surfaces
- Overhead obstructions
- Hazardous locations
- Inadequate surface support to withstand all load forces imposed by the machine
- Wind and weather conditions
- The presence of unauthorized personnel
- Other possible unsafe conditions

# OPERATING INSTRUCTIONS



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## DO NOT OPERATE UNLESS:

You learn and practice the principles of safe machine operation contained in this operator's manual.

1. Avoid hazardous situations.
2. Always perform function tests prior to operation.
3. Always perform function tests prior to use.
4. Inspect the workplace.
5. **Only use the machine as it was intended.**

## FUNDAMENTALS:

The Operating Instructions section provides instructions for each aspect of machine operation. It is the operator's responsibility to follow all the safety rules and instructions in the operator's, safety and responsibilities manuals.

This conveyor was designed to transport solid (non-liquid/ non-dangerous) material such as stone, sand, rubble and soil. The material must be loaded responsibly and with skill by the operator as to not cause damage by overloading the conveyor.

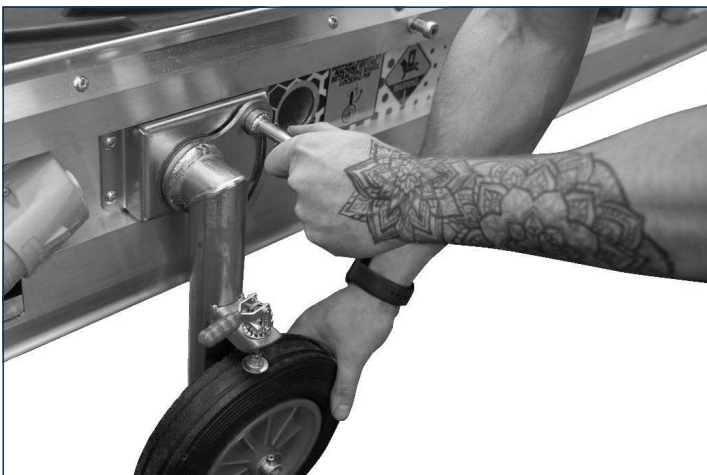
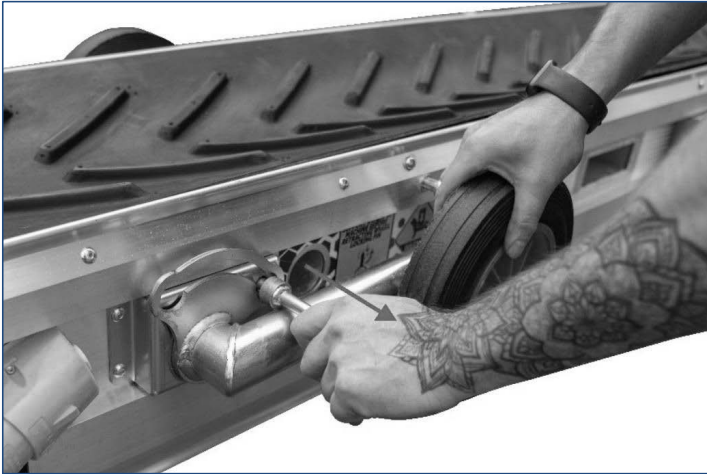
Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

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## OPERATING INSTRUCTIONS:

1. Before installing the conveyor, plan your route. Ensure you have adequate man power to complete the set tasks.

2. Fold wheels down from transport position. Lift base of machine, pull black locking pin. Rotate wheels into position and let go of pin. The pin should engage into locking plate. Lower machine safely onto the ground. **Do not drop machine.**





3. Maneuve the conveyor into position using correct manual handling techniques. Utilise the handles at the top and base of the conveyor to maximise grip when moving. When in position locate the conveyor onto the supplied trestle. This will allow the transported material to drop directly into the next conveyors hopper. Ensure that the brakes are applied at this point.



4. When in position, fit the hopper to base of machine. Align the slots both sides so they line up with the mounting pins. Pins are shown in red. Push hopper toward top of machine until the front mounting pin stops at the base of the slot. Then push down to lock hopper in place.



5. Once machine is in place. Plug in power supply at the base of the conveyor and start pre-operation checks



6. Once power is applied to the conveyor, the stop button will illuminate. The voltage indicator will also display the supply voltage. This indicates that the conveyor is ready to run.



7. The conveyor is now ready to use. Press FWD to run the conveyor. The buzzer will sound for 2 seconds, then the belt will move. If loading with a digger or skid steer, take care not to overload the hopper.



8. If only a single conveyor is to be used. Setup is complete.

When linking additional units, place the first conveyor in the line and work forwards from this unit. Repeat steps 1-6 of this manual for each conveyor. Take care to ensure the previous conveyor is discharging into the centre of the hopper of the next conveyor in the line. This will help minimise overspill.



9. When linking multiple units, start with the power supply. Connect the power to the first conveyor.



Then using the power linking lead supplied, plug the linking lead into the power output socket on the end of the conveyor then into the power input socket of the next conveyor. **Up to 4 conveyors can be powered off a single 5kVA supply.**



**Ensure the power lead cannot get tangled in the moving belt.**

**Do not connect the power linking leads whilst the conveyor is in use.**

10. Once the power is linked, begin the process of linking the controls.



Using the control linking lead supplied, plug the linking lead into the control output socket at the end of the conveyor then into the control input socket of the next conveyor.

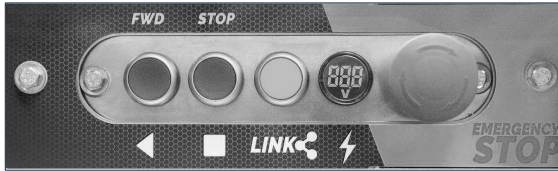


**Ensure the control lead cannot get tangled in the moving belt.**

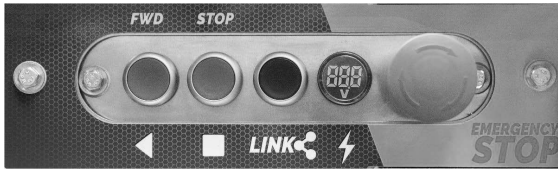
**Do not connect the control linking leads whilst the conveyor is in use.**

11. Once the conveyor controls are linked, begin the process of switching the conveyors into LINK mode.

Every conveyor must have the LINK button pressed in and illuminated. **Except the last conveyor in the run.** The last conveyor in a chain must have the LINK button in the out position and not illuminated.



**Start and mid conveyors in the run have illuminated LINK button**



**End conveyor of ANY run to have the LINK button out and not illuminated**

**Example:**

If 4 conveyors have the controls linked. The first 3 conveyors will have the LINK button pressed and illuminated. The last conveyor will have the LINK button out and not illuminated.

**This is the same if linking 2 or 20 conveyors.**

12. The conveyor system will now be able to start and stop from any conveyor along the line. The only functions that are not linked are the FAST/ SLOW function and the REVERSE function.

The FAST/ SLOW function is not included in the control link due to varying angles being deployed. The steeper conveyors will generally run at a faster speed than the flat conveyors. This is to minimize any build up accumulating in the hopper.

13. When disassembling the run of conveyors after a project. Plan the routes for each conveyor and use correct manual handling techniques. Clean each conveyor before transporting.

**Disconnect power before attempting to move any LINKIT conveyor**

14. When the conveyors are stored. Fold the wheel bogey up into the locked position and stack the units to maximize space.



# TRANSPORT INSTRUCTIONS



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## OBSERVE AND OBEY:

Common sense and planning must be applied to control the movement of the machine when moving it with a forklift.

The transport vehicle must be parked on a level surface.

The machines brakes must remain on while being transported.

## SECURING TO TRUCK OR TRAILER FOR TRANSIT:

Always check the machine wheel brakes are on in preparation for transport.

Inspect the entire machine for loose or unsecured items.

Where possible fold up the wheel kit and stack the conveyors.

## DO NOT OVER TIGHTEN STRAPS.

Excessive tension of the straps will cause damage to the machine.





# SPECIFICATIONS

## LINKIT® LKS400 Series Portable Conveyor

MODEL	LKS400-3	LKS400-4	LKS400-5	LKS400-6
DIMENSIONS	10' L x 16" W (122" L x 24" W x 29" H)	13' L x 16" W (162" L x 24" W x 29" H)	16' L x 16" W (201" L x 24" W x 29" H)	20' L x 16" W (233" L x 24" W x 29" H)
WEIGHT	271 lbs.	305 lbs.	338 lbs.	371 lbs.
RATED CAPACITY**	110 metric Tph	110 metric Tph	110 metric Tph	110 metric Tph
RUBBER BELT	Vulcanized 2-ply poly reinforced w/ multi-chevron	Vulcanized 2-ply poly reinforced w/ multi-chevron	Vulcanized 2-ply poly reinforced w/ multi-chevron	Vulcanized 2-ply poly reinforced w/ multi-chevron
BELT CAPACITY	440 lbs.	440 lbs.	440 lbs.	440 lbs.
BELT SPEED	Fast: 90 ft/min Slow: 65 ft/min	Fast: 90 ft/min Slow: 65 ft/min	Fast: 90 ft/min Slow: 65 ft/min	Fast: 90 ft/min Slow: 65 ft/min
MAX / REC ANGLE	55° / 35°	55° / 35°	55° / 35°	55° / 35°
TEMP RATING	-13° F - 185° F (max)	-13° F - 185° F (max)	-13° F - 185° F (max)	-13° F - 185° F (max)
DRUM MOTOR	1.0kW / 1.5HP	1.0kW / 1.5HP	1.0kW / 1.5HP	1.0kW / 1.5HP
INVERTER	Eaton DB1 110V 1-phase input / 220V 3-phase output	Eaton DB1 110V 1-phase input / 220V 3-phase output	Eaton DB1 110V 1-phase input / 220V 3-phase output	Eaton DB1 110V 1-phase input / 220V 3-phase output
AMP DRAW	1.4 run / 5.0 peak	1.4 run / 5.0 peak	1.4 run / 5.0 peak	1.4 run / 5.0 peak
NOISE EMISSIONS	>75dB	>75dB	>75dB	>75dB

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