

# AH Mini-Cat Air Powered Hoists with Pendant and Cord Controls and Hook Suspension

The AH Mini-Cat Series of air hoists was designed with exceptionally low headroom and will easily handle many construction, assembly line and workstation applications.

| Features and Benefits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Standard Hoist Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Unlimited Duty Cycle</b><br/>For continuous operation</p> <p><b>Extremely Compact &amp; Lightweight Body</b><br/>Allows for easy operation,<br/>transportation and storage</p> <p><b>Airtight Hoist</b><br/>Results in efficient use of air</p> <p><b>High Speed Lifting</b><br/>Maximum speed gets jobs done quickly</p> <p><b>Vane Motor Design</b><br/>Permits very fine feathering control</p> <p><b>Aluminum Valve Section</b><br/>Reduces effects of corrosion</p> <p><b>Low Noise Levels</b><br/>Adds to operator comfort</p> <p><b>Disc Motor Brake System</b><br/>For reliable load support</p> <p><b>Nickel Plated Load Chain</b><br/>Resistant to corrosion, abrasion and wear</p> | <p><b>Capacity Range</b><br/>250 – 500 lb.</p> <p><b>Standard Lift</b><br/>10'<br/>(longer lifts available)</p> <p><b>Standard Pendant or Cord Length</b><br/>4' less than lift<br/>(longer lengths available)</p> <p><b>Air Supply Requirement</b><br/>19 – 34 cfm at 60 – 90 psi</p> <p><b>Air Lubrication</b><br/>Minimum 10 to 15 drops of oil<br/>per minute (0.2 – 0.3 cc/min.)</p> <p><b>Air Filtration</b><br/>Maximum 5 micron air filter or finer required</p> <p><b>Air Inlet Port</b><br/>3/8" NPT</p> <p><b>Air Supply Hose Minimum Size</b><br/>3/8"</p> <p><b>Operating Conditions</b><br/>Temperature range +14° to 140°F<br/>Humidity 85% or less</p> <p><b>Chain Containers</b><br/>Optional<br/>Plastic</p> |



# AH Mini-Cat Air Powered Hoists with Pendant and Cord Controls and Hook Suspension

## PENDANT MODEL—SPECIFICATIONS

| Capacity (lbs) | Product Code | Headroom (in) | Standard Lift (ft) | Load Chain Dia. (mm) x Chain Fall Lines | Net Weight with Standard Lift (lbs) | Weight for Additional One Foot of Lift (lbs) |
|----------------|--------------|---------------|--------------------|-----------------------------------------|-------------------------------------|----------------------------------------------|
| 250            | AH250P       | 12.0          | 10                 | 4 x 1                                   | 19                                  | 0.49                                         |
| 500            | AH500P       | 12.0          | 10                 | 4 x 1                                   | 19                                  | 0.49                                         |

Speeds—ft/min at 90 psi:

| Capacity (lbs) | Product Code | Up        |         | Down      |         |
|----------------|--------------|-----------|---------|-----------|---------|
|                |              | Full Load | No Load | Full Load | No Load |
| 250            | AH250P       | 42 (33)   | 55 (48) | 48 (45)   | 43 (38) |
| 500            | AH500P       | 29 (18)   | 55 (48) | 53 (51)   | 43 (38) |

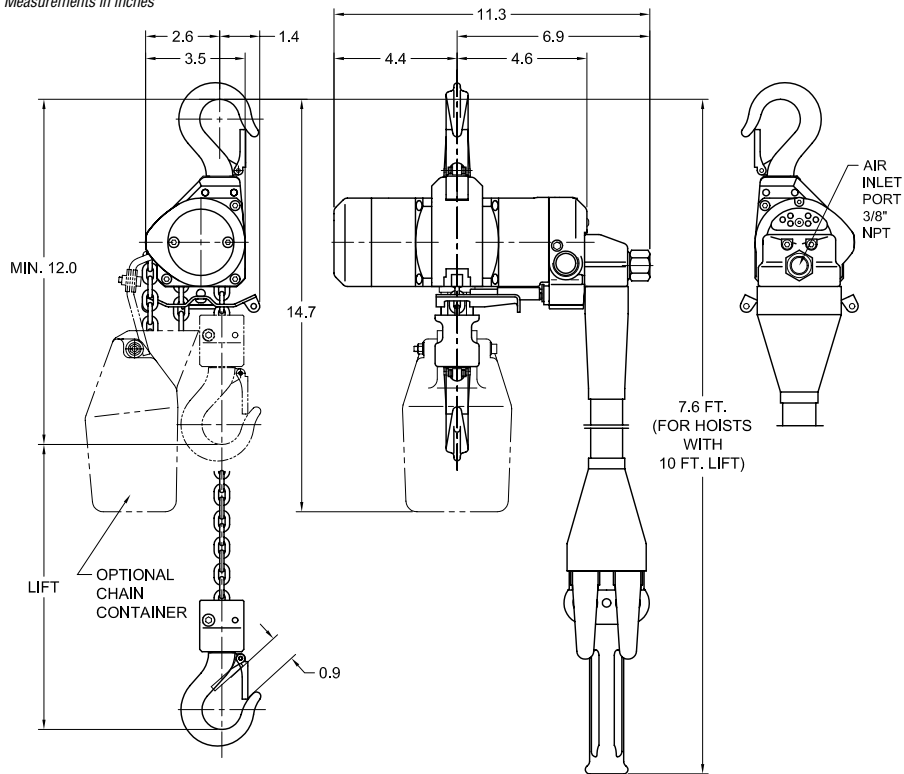
Air Consumption—cfm at 90 psi:

| Capacity (lbs) | Product Code | Up        |         | Down      |         |
|----------------|--------------|-----------|---------|-----------|---------|
|                |              | Full Load | No Load | Full Load | No Load |
| 250            | AH250P       | 28 (21)   | 31 (24) | 27 (21)   | 26 (20) |
| 500            | AH500P       | 26 (19)   | 31 (24) | 28 (22)   | 26 (20) |

Values in parentheses for air supply at 60 psi.

## PENDANT MODEL—DIMENSIONS

Measurements in inches



AH500P

CORD MODEL—SPECIFICATIONS

| Capacity<br>(lbs) | Product<br>Code | Headroom<br>(in) | Standard<br>Lift<br>(ft) | Load Chain<br>Dia. (mm)<br>x<br>Chain<br>Fall Lines | Net Weight<br>with<br>Standard<br>Lift<br>(lbs) | Weight for<br>Additional<br>One Foot<br>of Lift<br>(lbs) |
|-------------------|-----------------|------------------|--------------------------|-----------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|
| 250               | AH250C          | 12.0             | 10                       | 4 x 1                                               | 15                                              | 0.26                                                     |
| 500               | AH500C          | 12.0             | 10                       | 4 x 1                                               | 15                                              | 0.26                                                     |

Speeds—ft/min at 90 psi:

| Capacity<br>(lbs) | Product<br>Code | Up        |         | Down      |         |
|-------------------|-----------------|-----------|---------|-----------|---------|
|                   |                 | Full Load | No Load | Full Load | No Load |
| 250               | AH250C          | 47 (37)   | 61 (53) | 51 (47)   | 45 (40) |
| 500               | AH500C          | 32 (20)   | 61 (53) | 56 (54)   | 45 (40) |

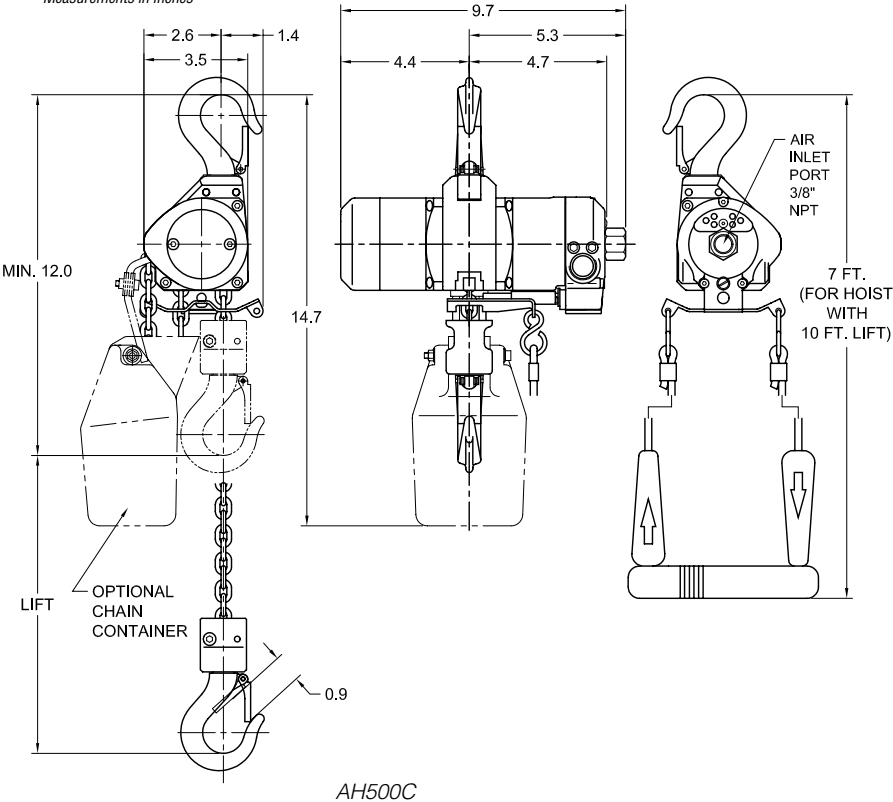
Air Consumption—cfm at 90 psi:

| Capacity<br>(lbs) | Product<br>Code | Up        |         | Down      |         |
|-------------------|-----------------|-----------|---------|-----------|---------|
|                   |                 | Full Load | No Load | Full Load | No Load |
| 250               | AH250C          | 32 (24)   | 34 (27) | 30 (24)   | 28 (23) |
| 500               | AH500C          | 29 (21)   | 34 (27) | 32 (26)   | 28 (23) |

Values in parentheses for air supply at 60 psi.

CORD MODEL—DIMENSIONS

Measurements in inches



## AH Mini-Cat Air Powered Hoists with Manipulator Control and Hook Suspension

Harrington's AH Mini-Cat Series air hoists also offer a unique ergonomic manipulator control feature designed to support the special repetitive working practices of assembly line and workstation areas in a wide variety of industries.

*Refer to page 4 for standard hoist specifications.*

### Unique Features and Benefits

#### Manipulator Control

Unique one-handed control replaces standard pendant or cord.

This design is adjustable for either left- or right-handed operation.

Permits the operator to have a free hand to easily position the load.

### Unique Hoist Specifications

#### Standard Lengths

6.5' Lift—9' reach (approx.)

13' lift—17' reach (approx.)  
(reach equals lift plus headroom)

#### Chain Containers

Standard  
Plastic



MANIPULATOR MODEL—SPECIFICATIONS

| Capacity<br>(lbs) | Product<br>Code | Headroom<br>(in) | Standard<br>Lift<br>(ft) | Load Chain<br>Dia. (mm)<br>x<br>Chain<br>Fall Lines | Net Weight<br>with<br>Standard<br>Lift<br>(lbs) | Weight for<br>Additional<br>One Foot<br>of Lift<br>(lbs) |
|-------------------|-----------------|------------------|--------------------------|-----------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|
| 250               | AH250M          | 33.0             | 6.5                      | 4 x 1                                               | 24                                              | 0.47                                                     |
| 500               | AH500M          | 33.0             | 6.5                      | 4 x 1                                               | 24                                              | 0.47                                                     |

Speeds—ft/min at 90 psi:

| Capacity<br>(lbs) | Product<br>Code | Up        |         | Down      |         |
|-------------------|-----------------|-----------|---------|-----------|---------|
|                   |                 | Full Load | No Load | Full Load | No Load |
| 250               | AH250M          | 41 (32)   | 54 (47) | 47 (44)   | 42 (37) |
| 500               | AH500M          | 29 (18)   | 54 (47) | 53 (50)   | 42 (37) |

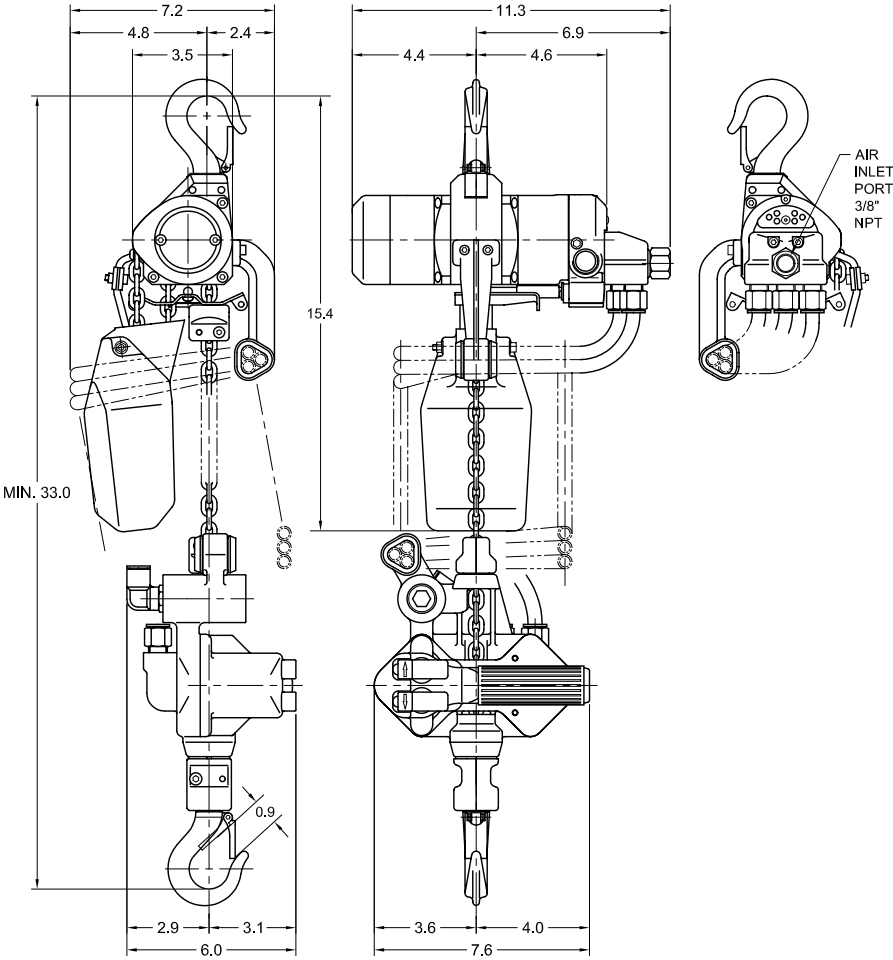
Air Consumption—cfm at 90 psi:

| Capacity<br>(lbs) | Product<br>Code | Up        |         | Down      |         |
|-------------------|-----------------|-----------|---------|-----------|---------|
|                   |                 | Full Load | No Load | Full Load | No Load |
| 250               | AH250M          | 28 (21)   | 31 (24) | 27 (21)   | 26 (20) |
| 500               | AH500M          | 26 (19)   | 31 (24) | 28 (22)   | 26 (20) |

Values in parentheses for air supply at 60 psi.

MANIPULATOR MODEL—DIMENSIONS

Measurements in inches



AH500M

# AH Mini-Cat Air Powered Hoists with Lug Suspension

## MINI TROLLEY—SPECIFICATIONS

| Maximum Capacity (lbs) | Product Code | Adjustable Beam Width B (in) | Minimum* Radius for Curve (in) | Net Weight (lbs) | Approximate Shipping Weight (lbs) |
|------------------------|--------------|------------------------------|--------------------------------|------------------|-----------------------------------|
| 525                    | ET525        | 1.97 – 3.94                  | 23.6                           | 4.0              | 5.0                               |

Lug mount only.

\*For larger flanges, hook mount AH air hoists to PTF2/GTF2 1/2 or 1 Ton trolleys.

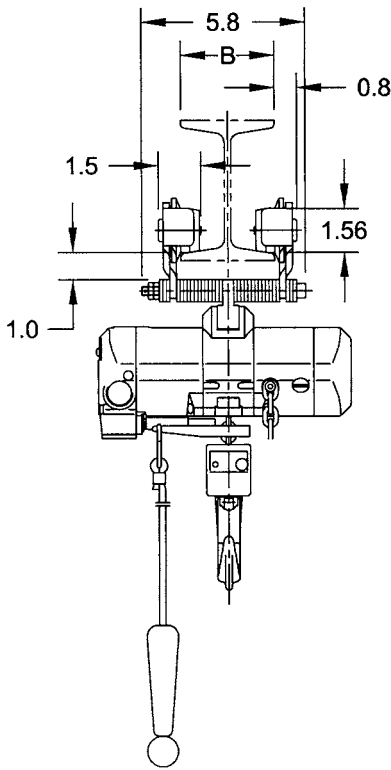


ET525

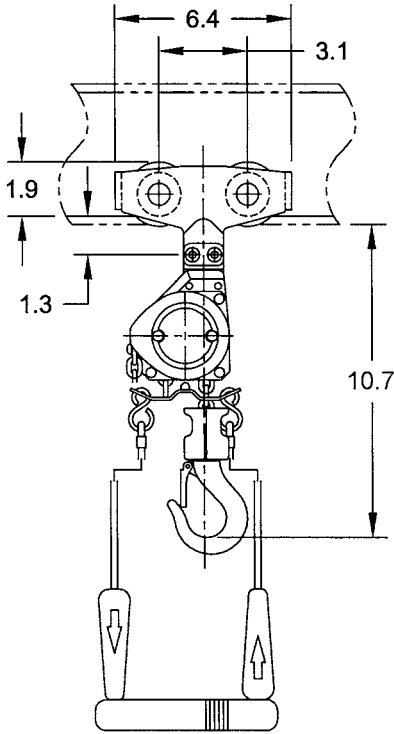
## MINI TROLLEY—DIMENSIONS

Measurements in inches

Dimensions for pendant and cord controls are identical.



AH500C



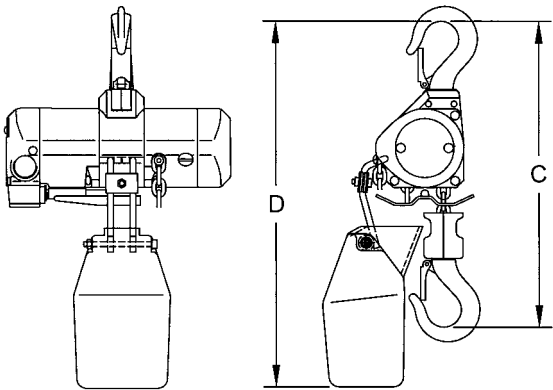
AH500C

# AH Mini-Cat Air Powered Hoists with Options

## HOISTS WITH PLASTIC CHAIN CONTAINERS—DIMENSIONS

| Hoist Product Code | Max. Lift (ft) | Container Headroom D (in) | Hoist Headroom C (in) |
|--------------------|----------------|---------------------------|-----------------------|
| AH250C/P           | 10             | 14.7                      | 12.0                  |
| AH500C/P           | 20             | 16.1                      |                       |

Chain containers are easily installed.

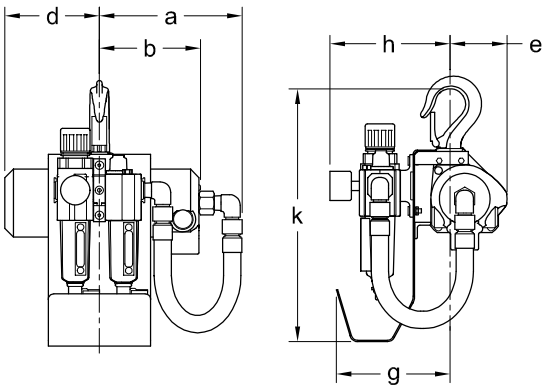


AH with Chain Container

## HOISTS WITH L, FL AND FRL—DIMENSIONS

| Cap. (lbs) | Product Code | a (in) |       | b (in) | d (in) | e (in) | g (in) | h (in) |     | k (in) |
|------------|--------------|--------|-------|--------|--------|--------|--------|--------|-----|--------|
|            |              | C      | P & M |        |        |        |        | L & FL | FRL |        |
| 250        | AH250C/P/M   | 6.6    | 8.2   | 4.7    | 4.4    | 2.6    | 5.3    | 4.2    | 5.5 | 11.7   |
| 500        | AH500C/P/M   | 6.6    | 8.2   | 4.7    | 4.4    | 2.6    | 5.3    | 4.2    | 5.5 | 11.7   |

L = Lubricator  
FL = Filter and Lubricator  
FRL = Filter, Regulator and Lubricator



AH with L, FL and FRL