

## How To Determine Your Air Hoist Requirements

### Hoist Capacity

Determine the maximum load to be lifted. If the load falls between standard rated capacities, always select the higher capacity (i.e., for 4,300 lb. maximum load, use 6,000 lb., or 3-ton capacity hoist).

### Hoist Lift

To determine the total lift required, measure the distance from the bottom of the beam to the lowest point on the floor to be reached and subtract the hoist headroom dimension shown in the specifications. The remaining distance is the lift required on the hoist. Always select a standard lift equal to or greater than the distance.

### Duty Cycle

Air motors inherently are self-cooling during operations. Unlike an electric motor which heats during operation, air motors are suitable for unlimited “on-time” and unlimited “number of starts”. Coffing® CAH model air hoists are desirable for duty cycles demanding 100% “on-time”.

### Explosive Atmosphere

Since air hoists operate on compressed air, there is no electrical arcing hazard to cause explosions in such areas as paint spraying and petrochemical facilities. For those hazardous atmosphere applications where resistance to friction sparks is vitally important, spark resistant models are available. Spark resistant features include: bronze alloy hooks, stainless steel hook latches, non-magnetic, stainless steel load chain; modified load sprocket, guide and stripper arrangement; and stainless steel or anodized aluminum lower blocks. Since stainless steel load chain is of lower strength than standard, CAH spark resistant models are de-rated in capacity.

### Control

Normally, air hoists lift loads at a faster rate of speed than electric hoists. Additionally, air hoists have variable speed control to lift loads from creep speed to full speed. Applications requiring variable speed lifting for precise load spotting and smooth starting action should employ an air hoist. Also to be considered are pull cord or pendant throttle as the means for operator control of the hoist and load.

### Hoist Suspension

Coffing® CAH model air hoists can be offered in a wide variety of suspension options. Hook type suspension offer maximum versatility and portability in most environments. Lug suspensions save headroom and can be used with rigid mount trolleys or in permanently mounted locations.

### Trolley Type

There are three standard trolley types that can be used to suspend Coffing® CAH model air hoists.

**Push Trolley** — Recommended for light capacities up to 2-tons and lifts below 20 feet. Most economical.

**Hand Geared Trolley** — Offers precise control for load spotting. Most favorable for higher capacities, short monorails, and where lifts exceed 20 feet.

**Air Motor Driven Trolley** — Most widely used method of suspension, particularly 2-ton capacity and above. Often a necessity where long monorails are used.

### Special Note

The installation of every air hoist must include a filter and lubricator in the air line. An air regulator is also recommended.



## FILTER-LUBRICATOR UNITS

Air hoists must have a supply of clean, lubricated air for their operation. A filter and lubricator must be installed in the air supply line, as close as practical to the hoist. The recommended operating air pressure for all capacities of COFFING® air hoists is 90 PSI. When air line pressure exceeds 115 PSI, it is required that a pressure regulator be provided in the supply line to maintain proper pressure.

### Filter-Lubricator Units

Model Number	Inlet / Outlet Size (in.)	Bowl Size	Shipping Weight (lb.)
C902960	3/8	11 oz.	8
C902961	1/2	11 oz.	8
C902962	3/4	24 oz.	12
C902963	1	24 oz.	12

### Filter-Regulator-Lubricator Units

Model Number	Inlet / Outlet Size (in.)	Bowl Size	Shipping Weight (lb.)
C902966	3/8	11 oz.	14
C902967	1/2	11 oz.	14
C902968	3/4	24 oz.	18
C902969	1	24 oz.	18



## CHAIN CONTAINERS

Chain containers provide an ideal means for eliminating hanging tail chains. They are easily installed and accept the chain in such a way that chains tend not to kink or twist. State codes often specify the use of a chain container with each hoist.

### Chain Containers for CAH-Small Frame Air Hoists

Model Number	Chain Type	Max. Lift (ft.)		Shipping Weight (lb.)
		1/4, 3/8, 1/2 Ton	3/4, 1 Ton	
C902631	Link Chain	25	12	4 1/2
C902635	Link Chain	45	22	9
C902634	Link Chain	25	12	5
C902636	Spark Resistant	45	22	10
C902632	Roller Chain	15	—	6 1/2
C902633	Roller Chain	30	15	11

### Chain Containers for CAH-Large Frame Air Hoists

Model Number		Max. Lift (ft.)			Shipping Weight (lb.)
Standard Models	Spark Resistant Models	1 Ton	2 Ton	3 Ton	
C905434	C905444	15	do not use	do not use	4
C905435	C905445	30	15	10	8
C905436	C905446	45	22	15	10
C905437	C905447	60	30	20	14
C905438	C905448	75	37	25	15
C905439	C905449	90	45	30	16



## AIR HOSE ASSEMBLY

Complete Air Hose Assembly requires ordering Air Supply Hose and Fittings.

### Air Supply Hose

Model Number	I.D. (in.)	O.D. (in.)	Braid	Max. PSI	Width (ft.)
C901610	1/2	15/16	1	200	0.33
C901611	3/4	1 1/4	2	225	0.52
C901612	1	1 1/2	3	200	0.65

### Fittings\*

Male Swivel at One End-Standard Male at Opposite End

Model Number	Hose I.D. in.	Thread Size M-NPT
C901614	1/2	3/8
C901615	3/4	3/4
C901616	1	3/4

\* Fittings installed on adjacent hose

### Fittings w/ Quick Disconnect\*

Quick Disconnect on One End-Standard Male at opposite end

Model Number	Hose I.D. in.	Thread Size M-NPT
C901618	1/2	3/8
C901619	3/4	3/4
C901620	1	3/4

\* Fittings installed on adjacent hose

## AIR HOSE TROLLEYS

### Model No. C254

These trolleys are used to support air hose and are installed on the same track as a hoist. Hose clamp swivels and will fit 5/8 to 1 1/2 inch diameter hoses.





# ACCESSORIES

AIR POWERED HOISTS

## RECOIL AIR HOSE With Fittings

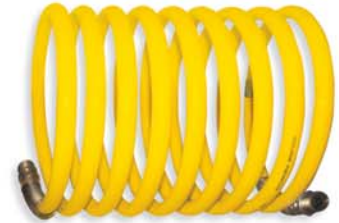
For application where air hose trolleys with looped hose is impractical: coil type self-storing hose is recommended.

### Self Storing Air Hose With Fittings

Model Number	Hose Size (I.D. in.)	x	Working Length (ft.)	Fittings Each End
C901621	1/2"	x	15'	3/8 NPTF Male Swivel Fittings
C901622	1/2"	x	25'	3/8 NPTF Male Swivel Fittings
C901624	3/4"	x	15'	3/4 NPTF Male Swivel Fittings
C901625	3/4"	x	25'	3/4 NPTF Male Swivel Fittings
C901626	3/4"	x	50'	3/4 NPTF Male Swivel Fittings

### Nylon Coated Cable w/ Eyebolt Fittings Each End For Supporting Recoil Air Hose (Supports by Others)

Model Number	Length (ft.)
C901629	25'
C901630	50'



## AIR HOSE REELS

Whichever hose-use problem you may have – on the production line, in the shipping area or in maintenance – these automatic retracting reels can provide the solution. Easy-set mounting lugs and adjustable 4-roller guides allow variable mounting for ceiling, wall, bench or trucks. An instant-action ratchet lock engages when hose travel stops, disengages with a slight pull. Other features include the “Safe-to-Change” spring motor which is self-contained for safe handling and all-steel construction for maximum reliability. Hose and ball stop are included. Pivot Base is optional.

Hose Data			Reel Model Number	NPTF Fittings E* & F	Weight Complete (lb.)	340° Base (OPT)
I.D. (in.)	Length (ft.)	Max PSI				
3/8	25	200	C913207	0.38 - 18	36	913083
3/8	35	200	C913208	0.38 - 18	40	913083
3/8	50	200	C913209	0.38 - 18	72	913098
1/2	25	200	C913210	0.50 - 14	70	913098
1/2	35	200	C913211	0.50 - 14	74	913098
1/2	50	200	C913212	0.50 - 14	79	913098
3/4	20	300	C913201	0.75 - 0.75	144	913206
3/4	30	300	C913202	0.75 - 0.75	149	913206
1	20	300	C913203	1.00 - 1.00	148	913206
1	30	300	C913204	1.00 - 1.00	159	913206

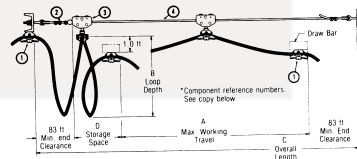


## FESTOONING SYSTEMS FOR AIR SUPPLY HOSE

Systems include (note numerical key in illustration below): **(1)** 2 End Clamp Assemblies; **(2)** 1 Hardware Kit consisting of 2 eye-bolts, 5 clamps and 1 ball stop; **(3)** Intermediate Carriers—see specified quantity in last column of chart below; **(4)** Nylon Covered Wire Rope per required length.

### Hose Systems (from 0.91" to 1.25" O.D.)

Model System Number	A Working Travel (ft.)	B Loop Depth (ft.)	C Overall Length (ft.)	Max. Combined Cable Weight (lb. / ft.)	D Storage Space (ft.)	Clamp Distance (ft.)	No. of Carriers (Item 3)
C901601	16	3	18.5	1.31	0.84	6.87	2
	21	4	23.5	1.01	0.84	8.87	2
C901602	28	3	31.1	1.31	1.40	8.87	4
	37	4	40.1	1.01	1.40	8.87	4
C901603	40	3	43.6	1.31	1.97	8.87	6
	52	4	55.6	1.01	1.97	8.87	6



## OTHER AVAILABLE AIR HOIST ACCESSORIES

**Bullard Hooks** - All hoists are furnished as standard with hooks equipped with hook latches. Bullard Hooks with a rugged cast swing gate locking member that provides greater assurance of load containment are available at additional cost.

**Redundant Support** - Hoist suspension redundant support for the CAH-Small Frame hoist is available for additional cost. This redundant support features a cable that inserts through the hoist frame and around initial support.

**Pendant Throttle Conversion Kit** - Kit for converting the pull cord CAH-Small Frame COFFING® Air Hoist to pendant throttle operation has a standard 6-foot pendant hose assembly. Longer hose assemblies available. Order Model No. C2269. Shipping weight is 8 pounds.