

DRYING HOPPERS**CH Series Insulated Hoppers**

EFFICIENT DRYING WITH MINIMUM DOWNTIME

CH series drying hoppers save you time, energy and money by delivering consistent, efficient drying and fast, easy clean outs.

Conair hoppers are designed to promote even heat distribution and mass material flow to ensure adequate drying throughout the hopper. Large access doors, smooth interior surfaces and drain ports keep downtime for material changes to a minimum.

We offer a wide range of hopper sizes, with capacities from 18 to 17,000 lb/ft³.

Improve product quality, lower operating costs

All hoppers may look the same, but they're not. Hopper design can influence three critical parameters that affect overall drying performance: air flow, drying temperature and drying time.

The shallow cone angles and perforated material spreaders found in some hopper designs can cause surface friction that holds dry material in the hopper while wet material flows into the process.

Conair hoppers have steep cone angles and smooth interior surfaces that promote mass material flow. This ensures that all material has dried at the same rate before it leaves the hopper.

Our insulated side walls prevent the heat loss that can drive up energy costs and keep material along the outer walls of the hopper from attaining the required drying temperature.

■ QUICK-CLEAN DESIGN

Large hinged doors, smooth walls, material drain ports and removable spreader cones make cleaning fast and easy.

■ CONSISTENT DRYING TIME

Don't let your material leave the drying hopper before its time. Conair's air inlet design, smooth material/air spreaders and steep cone angles promote uniform mass material flow. This means material at every level has been exposed to drying air for the same amount of time before leaving the hopper.

■ UNIFORM AIR/HEAT DISTRIBUTION

Conair hoppers introduce heated drying air low in the cone of the hopper, ensuring that material at all levels in the hopper will be dry when you're ready to process it.

■ PREVENTS ENERGY LOSS

Insulated side walls prevent the heat loss that occurs with uninsulated hoppers. This means consistent temperature levels throughout the hopper, better overall drying performance, and energy savings for you.

FEATURES / OPTIONS

DRYING HOPPERS
CH Series Insulated Hoppers

Compare designs and discover the Conair advantage

Hopper design can determine whether your material is dry when it enters the process, as well as how easy the hopper is to clean between material changes.

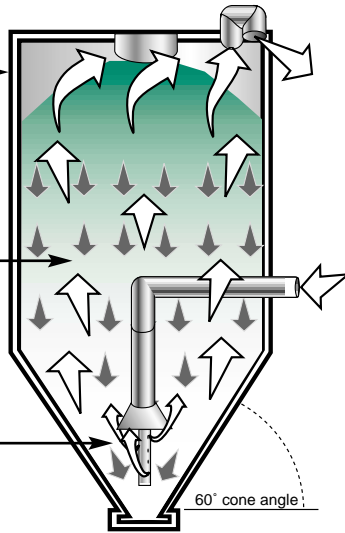
Insulated side walls
maintain temperature at desired level, prevent heat loss and protect workers from hot surfaces.

Mass material flow
Smooth surfaces and steep cone angles ensure that each pellet is exposed to heated drying air for the specified drying time.

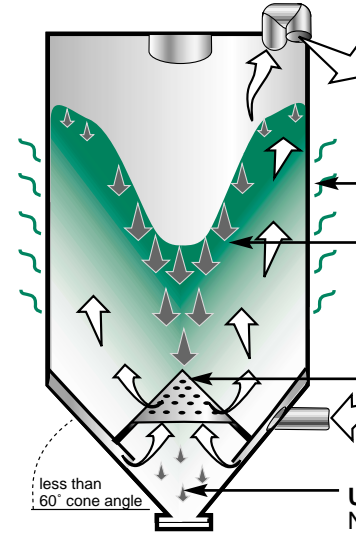
Even air/heat distribution
throughout the hopper. The air spreader has a drop tube that forces drying air to material at the bottom of the hopper.

A large access door, easily removable spreader cone and smooth interior walls minimize downtime for clean-out and material changes.

CONAIR DRYING HOPPER



OTHER HOPPER DESIGNS



Heat loss through uninsulated side walls

Center "funnel" flow induced by a shallow cone angle allows wet material to enter the process.

Perforated metal inhibits mass material flow and can be difficult to clean.

Uneven heat distribution. No drying air is forced into the bottom of the hopper.

OPTIONS / ACCESSORIES

ALL MODELS



Floor Stands
(standard on CH39 and CH44 hoppers)
Stands can be bolted to the floor or fitted with casters. Stands designed to fit over a gaylord are available for larger hopper models.



The Drying Monitor
Our patented technology monitors resin drying conditions where it counts — inside the drying hopper. The Drying Monitor tells you when material is ready to process and helps determine the source of any drying problems.

■ **Carbon or stainless steel construction**

ALL MODELS, EXCEPT CH54 - CH74

- **Thermometer**
for the inlet or outlet of the drying hopper.
- **Material level sensor and bracket**
for mounting on strip sight glasses.



Hopper Loaders
Conair vacuum loaders and receivers mount easily to the top of the hopper. Select from a wide range of capacities to accommodate your throughput.

MODELS CH10 THROUGH CH24

- **Dryer/hopper support frame**
for mounting a hopper and SC model dryers on the throat of a processing machine.
- **Hand fill lid**
for hand filling batches or hopper storage.

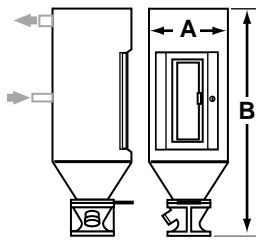
■ **Distribution Boxes**
that mount beneath the hopper to help convey the dried material to the processing machine.

■ **PowerMiser 2 Energy Saver**
minimizes power consumption by regulating the air flow and process heaters when drying at less than rated capacity.



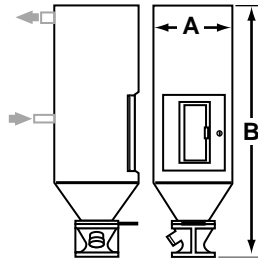
SPECIFICATIONS

DRYING HOPPERS
CH Series Insulated Hoppers



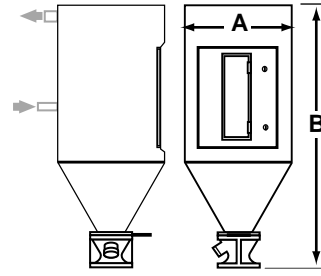
CH10-0.5
CH10-1
CH10-1.5

FIGURE 1



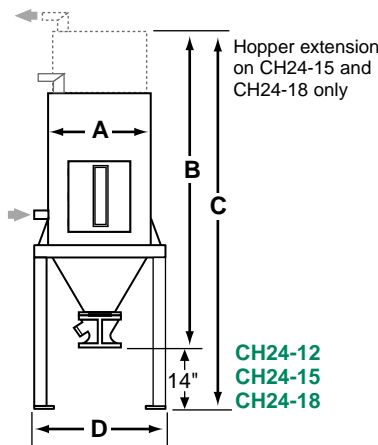
CH14-2
CH14-3
CH14-4

FIGURE 2



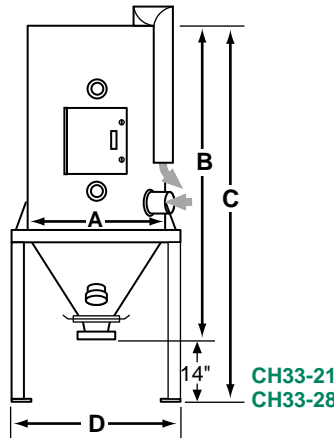
CH18-4
CH18-6
CH24-8

FIGURE 3



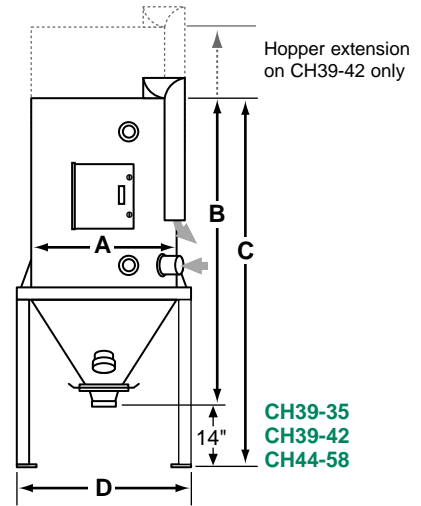
CH24-12
CH24-15
CH24-18

FIGURE 4



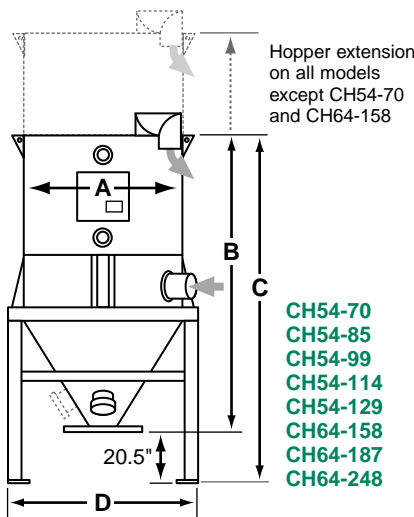
CH33-21
CH33-28

FIGURE 5



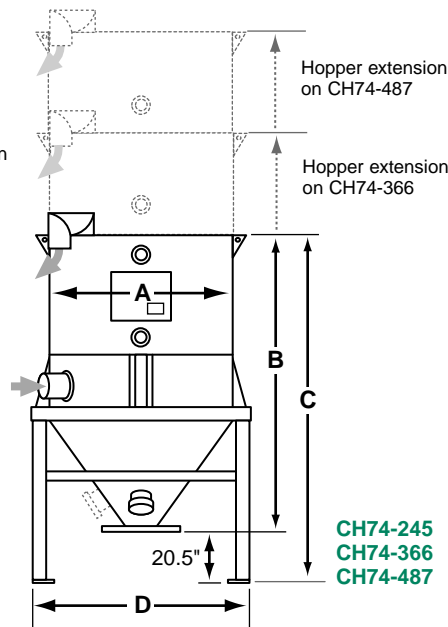
CH39-35
CH39-42
CH44-58

FIGURE 6



CH54-70
CH54-85
CH54-99
CH54-114
CH54-129
CH64-158
CH64-187
CH64-248

FIGURE 7



CH74-245
CH74-366
CH74-487

FIGURE 8

KEY	
⊙	Sightglass
←	Air inlet/outlet
MOUNTING INTERFACES	
TOP for hopper loaders	BOTTOM at discharge
<p>IT06 3 equally spaced mounting clips on a 10.5 in. {267 mm} diameter bolt circle</p>	<p>IB02 5 x 5 in. {127 x 127 mm} bolt pattern; 4 bolt holes, 7/16" {11 mm}</p> <p>IB03 7 x 7 in. {178 x 178 mm} bolt pattern; 4 bolt holes, 9/16" {14 mm}</p> <p>IB09 16 bolt holes, 7/16" {11 mm}, on a 16.25 in. {413 mm} square plate</p>
<p>IT07 4 equally spaced mounting clips on a 16.375 in. {416 mm} diameter bolt circle</p>	

SPECIFICATIONS

DRYING HOPPERS CH Series Insulated Hoppers

MODEL	CH10-0.5	CH10-1	CH10-1.5	CH14-2	CH14-3	CH14-4	CH18-4	CH18-6	CH24-8	CH24-12
FIGURE NUMBER	Fig. 1	Fig. 1	Fig. 1	Fig. 2	Fig. 2	Fig. 2	Fig. 3	Fig. 3	Fig. 3	Fig. 4
Performance characteristics										
Capacity ft ³ {liter}	0.5 {14}	1.0 {28}	1.5 {42}	2 {57}	3 {85}	4 {113}	4 {113}	6 {170}	8 {227}	12 {340}
Capacity @ 35 lb/ft ³	18	35	53	70	105	140	140	210	280	420
Dimensions inches {cm}										
A - Inside diameter	10 {25}	10 {25}	10 {25}	14 {36}	14 {36}	14 {36}	18 {46}	18 {46}	24 {61}	24 {61}
B - Hopper height	25 {64}	39 {99}	50 {127}	41 {104}	52 {132}	58 {147}	44 {112}	64 {163}	60 {152}	73 {185}
C - Height with stand*	54 {137}	68 {173}	79 {201}	70 {178}	81 {206}	98 {249}	79 {201}	93 {236}	89 {226}	93 {236}
D - Footprint w/stand in {cm} sq.	31 {79}	31 {79}	31 {79}	31 {79}	31 {79}	31 {79}	31 {79}	31 {79}	31 {79}	31 {79}
Air inlet (OD)	1.75 {4.4}			2 {5.1}			2.5 {6.4}		2.5 {6.4}	
Air outlet (OD)	2 {5.1}			2.5 {6.4}			3 {7.6}		3 {7.6}	
Material discharge (ID)	2 {5.1}			2 {5.1}			2 {5.1}		2.5 {6.4}	
Weights lb {kg}										
Installed weight (hopper only)	40 {18}	50 {23}	70 {32}	80 {36}	95 {43}	110 {50}	145 {66}	170 {77}	210 {95}	230 {104}
Mounting interfaces										
Hopper loader (Top)	IT06	IT06	IT06	IT06	IT06	IT06	IT07	IT07	IT07	IT07
Material discharge (Bottom)	IB02	IB02	IB02	IB02	IB02	IB02	IB02	IB02	IB02	IB02

MODEL	CH24-15	CH24-18	CH33-21	CH33-28	CH39-35	CH39-42	CH44-58	CH54-70	CH54-85	CH54-99
FIGURE NUMBER	Fig. 4	Fig. 4	Fig. 5	Fig. 5	Fig. 6	Fig. 6	Fig. 6	Fig. 7	Fig. 7	Fig. 7
Performance characteristics										
Capacity ft ³ {liter}	15 {425}	18 {509}	21 {595}	28 {793}	35 {991}	42 {1189}	58 {1643}	70 {1982}	85 {2407}	99 {2804}
Capacity @ 35 lb/ft ³	525	630	735	980	1225	1470	2030	2450	2975	3465
Dimensions inches {cm}										
A - Inside diameter	24 {61}	24 {61}	33 {84}	33 {84}	39 {99}	39 {99}	44 {112}	54 {137}	54 {137}	54 {137}
B - Hopper height	85 {216}	100 {254}	88 {224}	102 {259}	103 {262}	113 {287}	124 {315}	113 {287}	125 {318}	136 {345}
C - Height with stand*	105 {267}	120 {305}	106 {269}	120 {305}	117 {297}	127 {323}	138 {351}	134 {340}	146 {371}	157 {399}
D - Footprint w/stand in {cm} sq.	34 {86}	34 {87}	43 {109}	43 {109}	49 {125}	49 {125}	53 {135}	65 {165}	65 {165}	65 {165}
Air inlet (OD)	2.5 {6.4}		5 {12.7}			5 {12.7} or 8 {20.3}				
Air outlet (OD)	3 {7.6}		5 {12.7}			5 {12.7} or 8 {20.3}				
Material discharge (ID)	2.5 {6.4}		3 {7.6}			6 {15.2}				
Weights lb {kg}										
Installed weight (hopper only)	240 {109}	250 {113}	450 {204}	700 {318}	800 {363}	900 {408}	950 {431}	1100 {499}	1250 {567}	1450 {658}
Mounting interfaces										
Hopper loader (Top)	IT07	IT07	IT07	IT07	IT07	IT07	IT07	IT07	IT07	IT07
Material discharge (Bottom)	IB02	IB02	IB03	IB03	IB03	IB03	IB03	IB03	IB09	IB09

MODEL	CH54-114	CH54-129	CH64-158	CH64-187	CH64-215	CH64-248	CH74-245	CH74-366	CH74-487	
FIGURE NUMBER	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 8	Fig. 8	Fig. 8	
Performance characteristics										
Capacity ft ³ {liter}	114 {3228}	129 {3653}	158 {4475}	187 {5296}	215 {6089}	248 {7023}	245 {6938}	366 {10365}	487 {13792}	
Capacity @ 35 lb/ft ³	3990	4515	5530	6545	7525	8680	8575	12810	17045	
Dimensions inches {cm}										
A - Inside diameter	54 {137}	54 {137}	64 {163}	64 {162}	64 {162}	64 {163}	74 {188}	74 {188}	74 {188}	
B - Hopper height	147 {373}	158 {401}	155 {394}	171 {434}	186 {472}	204 {518}	182 {462}	230 {584}	279 {709}	
C - Height with stand*	168 {427}	179 {455}	176 {447}	192 {488}	207 {526}	225 {572}	202 {513}	250 {635}	299 {760}	
D - Footprint w/stand in {cm} sq.	65 {165}	65 {165}	75 {191}	75 {191}	75 {191}	75 {191}	85 {216}	85 {216}	85 {216}	
Air inlet (OD)	5 {12.7} or 8 {20.3}			8 {20.3}			12 {30.5}			
Air outlet (OD)	5 {12.7} or 8 {20.3}			8 {20.3}			12 {30.5}			
Material discharge (ID)	6 {15.2}			6 {15.2}			8 {20.3}			
Weights lb {kg}										
Installed weight (hopper only)	1550 {703}	1650 {748}	1850 {839}	2050 {930}	2150 {975}	2250 {1021}	3230 {1465}	3830 {1737}	5030 {2282}	
Mounting interfaces										
Hopper loader (Top)	IT07	IT07	IT07	IT07	IT07	IT07	IT07	IT07	IT07	
Material discharge (Bottom)	IB09	IB09	IB09	IB09	IB09	IB09	IB09	IB09	IB09	

SPECIFICATION NOTE:

* Add 5 inches {12.7 cm} to the height, if you order optional casters.
Specifications can change without notice. Contact a Conair representative for the most current information.