Heat at the Hopper
Controlled by the Dryer

Conair's new Heater Pack provides direct heat at the bottom of the hopper, where you need it most, but is conveniently controlled by the Conair's dryer control. It's no longer necessary to make adjustments at the dryer, followed by moving to a separate control to make adjustments at the hopper. Now all adjustments to your drying process are convenient and quick, at one location.

Another significant convenience and cost savings of the new Heater Pack is that only a single power drop is required which powers the dryer and the Heater Pack.

Heater Pack Model HP
(shown with DC-T Dryer Control)

Energy Efficient Heat at the Hopper Inlet

Conair's HTC Heat Boosters have been a success for years. The new Heater Pack is an improvement on that design. Engineered with new tube heaters that are not only energy efficient, but also heat quickly, the Heater Pack has taken all the aspects that you loved about the HTC (Hopper Temperature Controller) and improved them.

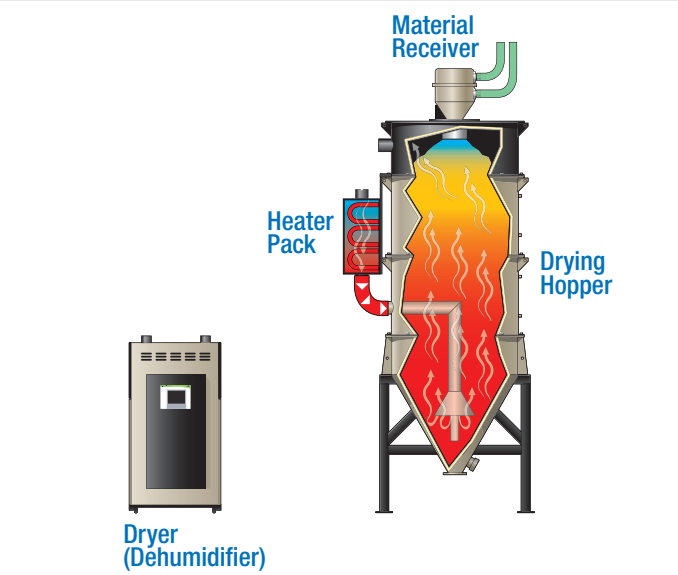
Now instead of a seperate power drop and a seperate control for the hopper temperature, all control and power comes direct from your Conair dryer DC-T control.

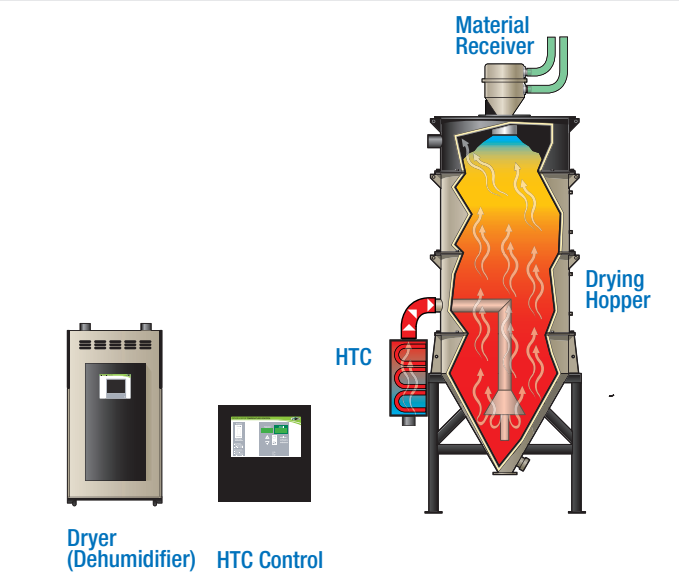
With a temperature range up to 350°F {178°C} and a full complement of safety devices, a Conair Heater Pack is exceptional for providing safe, precise drying temperatures inside the hopper.

Available in a variety of sizes based on your dryer size, hopper size, and application, the Heater Pack can be chosen to perfectly suit your needs.

- **Full-color touchscreen available**
  In addition to operating the Heater Pack, the TouchView Control has intuitive screen navigation which allows you to easily view critical drying parameters such as dewpoint and temperature.
- **Reduced energy costs**
  Heating the process air at the hopper inlet prevents heat loss and wasted energy. Conair has engineered the Heater Pack to be the most energy efficient method for hopper heating.
- **Installation savings**
  Now you only need one power drop - at the dryer. The dryer will not only control the Heater Pack, it will also power it.
- **Optimized airflow**
  Heater Packs have been designed to accept the dehumidified air at the top, heat the air, and let it exit out the bottom of the heater, directly into the bottom of the hopper, where it naturally works its way up through your material for the most efficient material drying possible.

Heater Pack Advantage





Heater Pack setup

Conair's HTC Hopper Temperature Controllers have a history of being an efficient and reliable source of heat direct at the hopper inlet. The HP Heater Pack takes the best of the traditional HTC and improves upon that technology.

Originally designed for use with Conair DH Series Hoppers and applications where high-efficiency is a must, the Heater Pack is now available for both DH Series and CH Series Hoppers. The HP has been engineered with several significant advantages over the HTC models.

HTC setup

Installation and routing of both hard pipe and flexible hose is easier and more efficient since the inlet of the Heater Pack is at the top.

- Floor space is open since hoses are no longer routed along the floor.
- No separate control - the HP is controlled at the dryer control interface (DC-1, DC-2, DC-T, Allen-Bradley and Siemens).
- Single electrical drop - the HP gets all it's power from the dryer, making seperate power drops unnecessary.
- The HP mounts higher on the hopper than the HTC, which mounted to the hopper stand. This opens up the area around the hopper stand.

Process Heater Information

	Process Motor (Hp)	Regeneration Motor (Hp)	Process Heater (kW)	Regeneration Heater (kW)
W600	7.5	0.5	38	15
W800	7.5	0.5	38, 19	15
W1000	7.5	0.5	38, 19	15
W1300	10	0.5	38, 38	19
W1600	15	0.5	38, 38	19
W2000	20	0.5	38, 38, 19	19
W2400	20	0.5	38, 38, 38	19
W3200	25	1	38, 38, 38, 19	38
W4000	30	1	38, 38, 38, 38	38
W5000	30	1	38, 38, 38, 38, 38	38

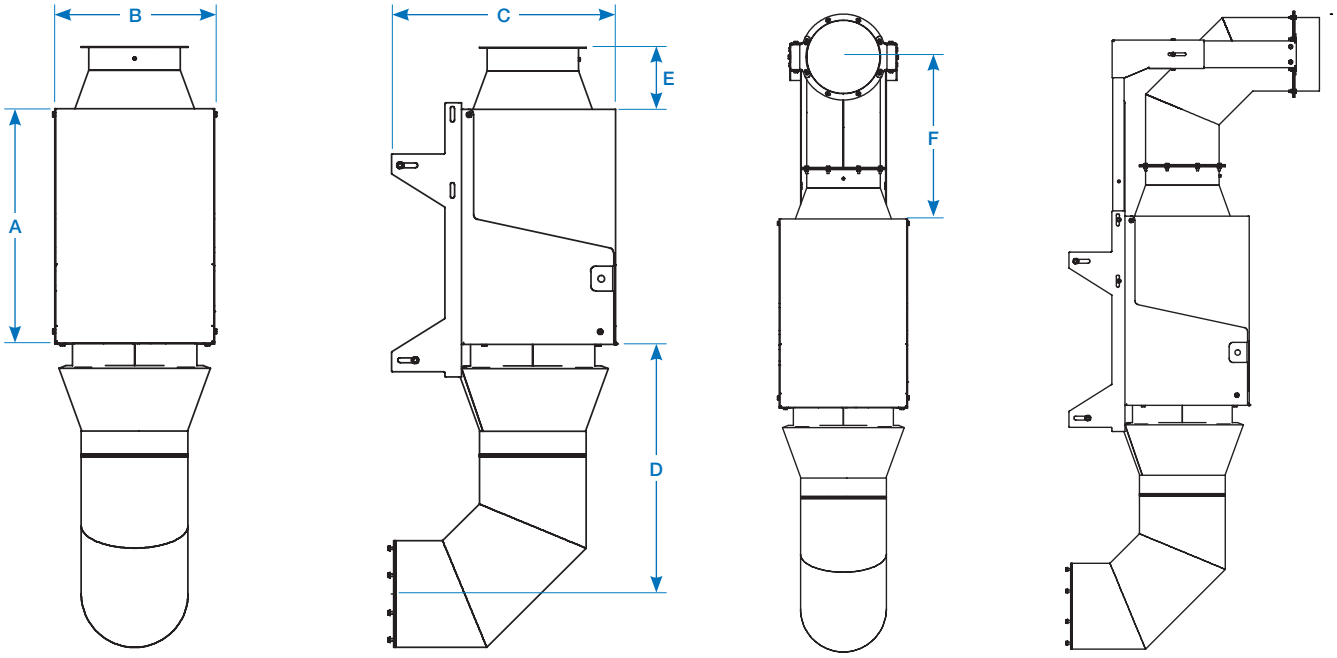
Heater Pack Sizing

Hopper Models	CH44	CH54 and DH54	CH64 and DH64	CH74 and DH74	CH100
Appropriate Heater Pack model for W-Series Dryer					
W600	HP38		N/A		
W800	HP57		N/A		
W1000	HP57			N/A	
W1300	N/A	HP76			N/A
W1600	N/A	HP76			N/A
W2000	N/A		HP95		
W2400	N/A		HP114		
W3200	N/A			HP134	
W4000	N/A			HP190	
W5000	N/A			HP190	

Cable and Conduit Sizing Requirements

Hopper Models	Voltage	Size of American Wire Guage (AWG)	Conduit Size	Quantity of Conduit
W600	400 VAC	6	1.5	1
	460 VAC	6	1.5	1
	575 VAC	8	1.5	1
W800	400 VAC	6	1.5	1
	460 VAC	6	1.5	1
	575 VAC	8	1.5	1
W1000	400 VAC	4	1.5	1
	460 VAC	6	1.5	1
	575 VAC	8	1.5	1
W1300	400 VAC	4	1.5	1
	460 VAC	6	1.5	1
	575 VAC	8	1.5	1
W1600	400 VAC	4	1.5	1
	460 VAC	6	1.5	1
	575 VAC	8	1.5	1
W2000	400 VAC	6	1.5	2
	460 VAC	6	1.5	2
	575 VAC	8	1.5	2
W2400	400 VAC	6	1.5	2
	460 VAC	6	1.5	2
	575 VAC	8	1.5	2
W3200	400 VAC	4	1.5	2
	460 VAC	6	1.5	2
	575 VAC	8	1.5	2
W4000	400 VAC	4	1.5	2
	460 VAC	6	1.5	2
	575 VAC	8	1.5	2
W5000	400 VAC	4	1.5	2
	460 VAC	6	1.5	2
	575 VAC	8	1.5	2

Specifications



Hard Pipe Connection

Flexible Tube Connection

Installation Notes

Wiring between process air heater, Heater Pack, and dryer where control for this heater is located is not included. Maximum wire length between dryer and heat source is 100 feet {30 meters}. Consult Conair or a qualified electrician to determine gauge of wire required for distance. Maximum physical distance between dryer and hopper is 20 feet {6 meters}.

Model	HP38*	HP57*	HP76*	HP95*	HP114*	HP134*	HP190*
Carousel Plus dryer model	W600	W800 & W1000	W1300 & W1600	W2000	W2400	W3200	W4000 & W5000
Performance characteristics							
Temperature range	150°- 375°F {66°-191°C}						
Control type	DC-1, DC-2, DC-T, TouchView Allen-Bradley and Siemens						
Dimensions inches {cm} and weight lb {kg}							
Inlet size (OD)	8.0 {20.3}		12.0 {30.5}				
Outlet size (OD)	5.0 {12.7}	8.0 {20.3}	5.0 {12.7}	8.0 {20.3}	12.0 {30.5}	8.0 {20.3}	12.0 {30.5}	8.0 {20.3}	12.0 {30.5}	12.0 {30.5}	
A - Height	24.4 {62.1}	30.9 {78.5}									
B - Width	10.2 {25.8}	17.7 {44.9}	17.8 {45.1}			21.0 {53.3}					28.3 {71.8}
C - Depth	16.5 {41.9}	12.8 {32.5}	16.9 {42.8}	22.1 {56.2}	24.7 {62.7}	26.6 {67.6}	31.0 {78.8}	26.6 {6}	31.0 {78.8}	29.4 {74.7}	32.8 {83.2}
D - Height of discharge (below the heater box)	9.3 {23.6}	22.2 {56.4}	10.3 {26.3}	21.4 {54.5}	31.9 {81}	26.7 {67.9}	32.8 {83.2}	26.7 {67.9}	32.8 {83.2}		
E - Height of flanged inlet (above the heater box)	4.3 {11}	3.6 {9.1}	2.9 {7.5}	7.5 {19.1}		8.1 {20.6}					7.6 {19.4}
F - Height of slip inlet (above the heater box)	16.6 {42.1}	15.8 {40.1}	15.2 {38.6}	25.7 {65.4}		26.4 {67}					25.9 {65.7}
Approximate weight lb {kg}											
Installed	100 {45.4}	175 {79.4}	170 {77.1}	205 {93}	230 {104.3}	260 {117.9}	295 {133.8}	310 {140.6}	295 {133.8}	310 {140.6}	320 {145.2}	365 {165.6}

Specification Notes

* The HP model number reflects the kilowatts of each unit. For example, HP57 has a 57 kilowatt heater.

Specifications may change without notice. Consult a Conair representative for the most current information.