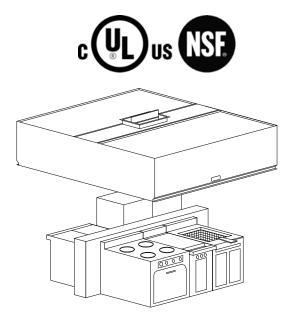


Island Dry Extractor

DD-DB

Double Box Canopy, Dead Weight Fire Damper



General Description The Ventilator is used on all cooking equipment in a

double row island arrangement. The unit is ceiling hung with a recommended mounting height of 6' 6" (1981 mm) from the lower edge of canopy to the floor. The hood has a single grease extractor with double slot and adjustable Variflow baffle and is especially designed for applications with heavy side, such as fryers, hot tops, and broilers, and a light side, such as ovens, kettles, and ranges. The unit is finished on all four sides with No. 4 finish. The double box canopy can be tapered into kitchens with ceilings as low as 7' 6" (2286 mm). The ventilator is available with fluorescent or incandescent lights.

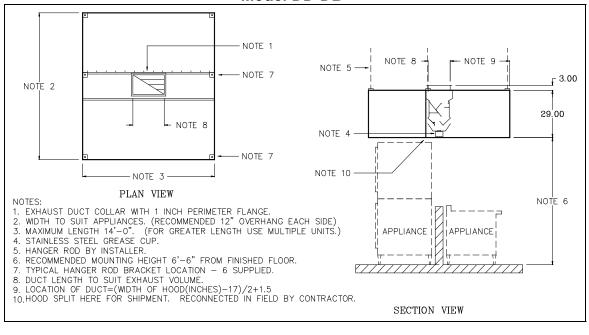
Efficiency

The hood is equipped with a high efficiency type "D" grease extractor. The high efficiency is achieved by applying maximum centrifugal force to the grease, dirt and lint particles through multiple, and abrupt, high velocity exhaust air direction changes.

The grease extractor design incorporates a vortex collection chamber, where the exhaust air accelerates 270 degrees around the vortex baffles and a secondary vortex baffle for adjustable exhaust air flow. The vortex baffle is removable for periodic cleaning.

Exhaust and Supply

The total exhaust required to properly ventilate a commercial kitchen is directly related to the type of cooking equipment under the ventilator. An exhaust flow rate between 300 and 700 CFM/ft (465 and 1085 l/s/m) is satisfactory for most applications. For detailed calculations refer to the *Spring Air Systems Ventilator Engineering Manual.*









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		Exhaust Flow Rate (EFR*)							
Ventilator		Exhaust @				Exhaust @			
Length		400 CFM/ft (620 l/s/m)			500 CFM/ft (776 l/s/m)				
(ft)	(mm)	Exhaust	Exhaus	Exhaust	Exhaust	Exhaus	Exhaust	Exhaust	Exhaust Duct
		volume	t	Duct	Duct	t	volume	Duct	254 in x
		(CFM)	volume (l/s)	10 in x	254 in x	volume (CFM)	(l/s)	10 in x	
3.0	914	1200	569	10	254	1500	711	13.5	343
3.5	1067	1400	664	12.5	318	1750	829	16	406
4.0	1219	1600	758	13.5	343	2000	948	18	457
4.5	1372	1800	853	16	407	2250	1066	20	508
5.0	1524	2000	948	18	457	2500	1185	22.5	572
5.5	1676	2200	1043	19	483	2750	1303	25	635
6.0	1829	2400	1137	21.5	546	3000	1422	27	686
6.5	1981	2600	1232	22.5	572	3250	1540	29	737
7.0	2134	2800	1327	25	635	3500	1659	31.5	800
7.5	2286	3000	1422	27	686	3750	1777	34	864
8.0	2438	3200	1517	28	711	4000	1896	36	914
8.5	2591	3400	1611	30.5	775	4250	2014	38	965
9.0	2743	3600	1706	31.5	800	4500	2133	40.5	1029
9.5	2896	3800	1801	34	864	4750	2251	14 x 30.5	356 x 775
10.0	3048	4000	1896	36	914	5000	2370	14 x 32	356 x 813
10.5	3200	4200	1991	37	940	5250	2488	14 x 33.5	356 x 851
11.0	3353	4400	2085	39	991	5500	2607	14 x 35.5	356 x 902
11.5	3505	4600	2180	40.5	1029	5750	2725	14 x 37	356 x 940
12.0	3658	4800	2275	14 x 30.5	356 x 775	6000	2844	14 x 38.5	356 x 978
12.5	3810	5000	2370	14 x 32	356 x 813	6250	2962	14 x 40	356 x 1016
13.0	3962	5200	2464	14 x 33	356 x 838	6500	3081	16 x 36.5	406 x 927
13.5	4115	5400	2559	14 x 34.5	356 x 876	6750	3199	16 x 38	406 x 965
14.0	4267	5600	2654	14 x 35.5	356 x 902	7000	3318	16 x 39.5	406 x 1003
14.5	4420	5800	2749	14 x 37	356 x 940	7250	3436	16 x 41	406 x1041
15.0	4572	6000	2844	14 x 38.5	356 x 978	7500	3555	16 x 42	406 x1067

Engineering Data

* Refer to the Ventilator Engineering Manual for Exhaust Volumes and Flow Rates not shown above.

Exhaust	Flow Rate	Static Pressure at Duct Collar		
CFM/ft	l/s/m	in W.C.	kpa	
300	465	1.13	0.283	
350	544	1.43	0.358	
400	620	1.13	0.283	
500	776	1.23	0.308	
600	930	1.46	0.365	
700	1085	1.740	0.435	

Notes:

Spring Air Systems Model No. DD-DB Hood Specification

The dry hood shall be a Spring Air Systems model no. DD-DB, double box canopy, island arrangement, high efficiency, dry extractor, UL/ULC listed, and built in accordance with NFPA-96.

The double island canopy shall be constructed of a minimum 18 GA. stainless steel on all exposed surfaces. The hood shall be shipped in a minimum of two pieces, each piece UL/ULC listed, to be re-connected on site with stainless steel bolts, retainers and caps.

The ventilator shall have two full lengths, high velocity slots, and a vortex and secondary extraction chamber and a vortex baffle. The vortex chamber shall provide a full 270 degree turn. Both chambers, the vortex baffle, and the fire damper blades, bushings and edge seals shall be fully accessible through removable doors within the hood OF the canopy.

The exhaust fire damper shall be an arrangement "D", butterfly type, constructed of stainless steel with blade and edge seals. The fire damper shall be activated by a fusible link and dead weight arrangement.

The hood shall have incandescent/fluorescent lights evenly spaced along the length of the hood.

Engineering Data

Item Number:	
Model Number:	
Number of Sections:	
Hood Length:	
Hood Width:	
Exhaust Volume:	
No. of Duct Collars:	
Size of Duct Collar:	
Static Pressure:	





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Exhaust duct can be located anywhere along length of ventilator, discharge out of the top, back or front.