

FLEXI-LINER®

FLEXI-LINER® SIZER

Corrugated Chimney Liner for Gas Fired Appliances

SINGLE APPLIANCE

Height, Ft "H"	Connector Type: Double or Single Wall "C"	Lateral Offset "L"	FLEXI-LINER Diameter "D" (inches)																				
			Appliance Input Rating Limits (x1000 BTU/h)																				
			Reduced 20% from Type B Vent Tables																				
			FAN	NAT	FAN	NAT	FAN	NAT	FAN	NAT	FAN	NAT											
Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max												
15'	Double	2"	11	55	38	15	109	74	20	181	120	21	226	150	22	271	180	38	380	253	45	506	331
		5"	22	52	36	30	104	70	39	175	114	44	220	144	49	264	174	64	370	240	76	496	322
	10'	29	47	33	40	97	66	51	165	108	58	208	137	64	252	166	84	356	230	99	480	309	
	Single	2"	38	55	38	57	109	74	80	180	119	98	225	149	115	270	179	148	378	251	187	505	330
5"		51	50	35	75	102	69	102	173	112	123	217	143	144	261	174	182	367	238	231	493	320	
10'	NA	NA	31	95	93	63	128	161	105	155	204	134	182	246	162	228	350	227	284	474	305		
25'	Double	2"	10	62	43	14	126	85	16	213	140	18	268	176	19	324	212	30	458	296	37	615	402
		5"	21	59	41	29	21	62	37	207	134	42	261	170	46	315	206	60	448	289	71	603	394
	10'	28	54	38	38	113	76	49	196	128	55	249	162	61	302	196	79	432	277	93	585	380	
	Single	2"	37	62	42	56	125	84	77	212	139	94	267	175	111	322	211	142	455	294	179	612	400
5"		50	57	40	73	119	80	99	204	132	119	258	168	139	312	204	175	444	286	220	599	391	
10'	NA	NA	NA	92	109	74	124	191	126	149	244	159	174	296	192	218	424	273	271	577	375		
30'	Double	2"	9	65	45	13	133	90	14	228	148	16	286	186	18	346	224	27	490	315	33	661	428
		5"	21	62	43	28	128	86	36	220	141	41	278	180	45	337	218	58	480	308	69	649	419
	10'	27	56	40	37	120	82	48	210	137	54	267	173	59	324	209	77	464	297	91	630	406	
	Single	2"	37	64	45	55	131	89	76	225	146	93	284	185	109	343	223	139	488	314	175	658	426
5"		49	59	42	72	126	85	98	217	138	117	275	178	136	334	217	171	476	306	215	645	417	
10'	NA	NA	NA	91	115	78	122	204	134	147	261	170	171	318	206	213	456	294	265	622	401		
35'	Double	2"	9	66	46	13	136	92	14	234	152	16	296	192	17	359	231	26	511	325	31	691	444
		5"	21	63	43	28	131	89	36	227	146	40	289	186	45	350	225	57	500	319	68	679	435
	10'	27	57	NA	37	124	84	47	217	141	53	277	178	58	337	216	76	484	308	90	660	422	
	Single	2"	37	65	46	55	135	91	75	232	151	92	294	190	108	356	230	138	508	324	173	688	442
5"		49	60	NA	72	129	87	97	224	143	116	285	184	135	347	224	169	496	316	212	674	433	
10'	NA	NA	NA	91	118	NA	121	211	138	145	271	175	169	330	213	211	476	304	262	651	417		
45'	Double	2"	8	68	48	12	143	96	14	249	161	15	317	203	16	385	244	23	552	346	28	750	476
		5"	20	65	NA	27	138	93	35	242	155	39	309	197	44	376	239	56	541	340	66	738	468
	10'	26	60	NA	36	131	89	46	232	148	51	298	190	57	364	231	74	525	330	87	719	455	
	Single	2"	36	66	48	54	141	95	74	247	160	90	315	201	105	383	243	135	549	344	170	747	474
5"		48	63	NA	71	136	91	95	239	153	114	306	195	132	373	237	166	537	337	207	733	465	
10'	NA	NA	NA	90	125	NA	119	226	145	142	291	186	164	356	227	206	517	325	256	709	450		

MULTIPLE APPLIANCES

Height, Ft "H"	Connector Type: Double or Single Wall "C"	FLEXI-LINER Diameter "D" (inches)																	
		Combined Appliance Input Rating Limits (x1000 BTU/h)																	
		Reduced 20% from Vertical Common Vent																	
		FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only								
15'	Double	100	90	73	156	131	115	191	157	140	226	182	165	342	282	224	445	355	292
	Single	97	86	70	151	127	112	186	152	136	220	177	160	333	274	219	435	347	286
25'	Double	116	104	88	184	157	138	227	189	168	270	221	198	409	341	268	537	434	350
	Single	111	100	84	178	152	135	220	183	163	262	214	192	398	332	261	524	423	342
30'	Double	122	110	94	195	168	148	242	203	181	289	238	213	438	367	288	576	468	376
	Single	116	106	90	189	162	144	235	196	175	280	229	206	426	357	279	562	456	367
35'	Double	125	113	97	202	175	154	252	212	188	301	249	222	457	385	301	603	492	392
	Single	119	109	93	195	168	150	243	204	182	291	239	214	444	374	291	588	479	382
45'	Double	131	119	104	216	188	165	271	230	202	325	271	239	494	420	326	656	541	424
	Single	124	114	99	208	180	161	261	220	195	314	260	229	480	407	316	640	526	413

See Rigid Connector Sizing Table below for Multiple Appliance Systems

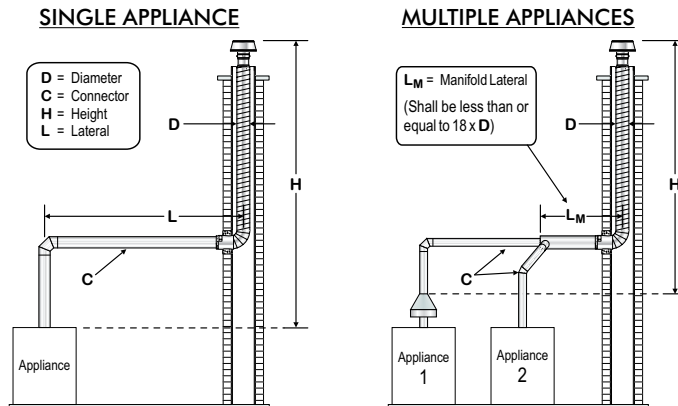
RIGID CONNECTOR - SIZING INFORMATION

VENT CONNECTOR CAPACITIES

FOR MULTIPLE CATEGORY 1 APPLIANCES CONNECTED TO A COMMON VENT

System Height, Ft	Connector Type: Double or Single Wall	Connector Rise, Ft	3"			4"			5"			6"		
			Fan		Nat	Fan		Nat	Fan		Nat	Fan		Nat
			Min	Max	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max
15	Double	1	21	50	30	33	89	53	47	142	83	64	220	120
		2	22	53	35	35	96	63	49	153	99	66	235	142
		3	24	55	40	36	102	71	51	163	111	68	248	160
	Single	1	NA	NA	29	79	87	52	116	138	81	177	214	116
		2	NA	NA	34	83	94	62	121	150	97	185	230	138
		3	NA	NA	39	87	100	70	127	160	109	193	243	157
25	Double	1	21	58	32	32	106	58	46	169	90	61	267	130
		2	22	61	38	34	112	68	48	179	107	63	279	154
		3	23	63	43	35	117	77	49	187	120	65	290	173
	Single	1	48	58	31	78	104	56	114	164	87	172	258	125
		2	52	61	37	82	109	66	119	174	104	180	271	148
		3	55	63	41	86	113	74	124	183	117	188	282	168
30	Double	1	20	62	33	31	113	59	45	181	93	60	288	134
		2	21	64	39	33	118	70	47	190	110	62	299	158
		3	22	66	44	34	123	79	48	198	124	64	309	178
	Single	1	47	60	31	77	110	57	112	175	89	169	278	129
		2	51	62	37	81	115	67	117	185	106	177	290	152
		3	54	64	42	85	119	76	122	193	120	185	300	172
35	Double	1	20	64	34	31	118	60	45	190	95	59	303	137
		2	21	66	40	33	123	72	47	198	112	61	314	162
		3	22	68	45	34	128	81	48	206	127	63	323	182
	Single	1	47	62	32	77	115	58	111	183	91	167	293	131
		2	51	64	38	81	119	68	116	193	108	175	304	155
		3	54	66	43	85	123	78	121	200	121	183	313	176
45	Double	1	19	69	35	30	128	63	44	207	99	58	334	142
		2	21	71	42	32	132	75	46	215	117	60	343	169
		3	22	73	47	33	137	84	47	221	132	62	352	190
	Single	1	46	67	33	76	124	59	110	199	94	164	322	135
		2	50	69	39	80	128	71	115	208	111	172	331	161
		3	53	70	44	84	132	81	120	214	122	180	340	183

NA means "Not Allowed"



GENERAL VENTING REQUIREMENTS

- A1. The air space around an installed Flexi-Liner System must not be used to vent other appliances.
- A2. A Flexi-Liner System venting more than one appliance shall not be smaller in diameter than the outlet of the largest appliance being served.
- A3. For single appliance installations, the Flexi-Liner System may be smaller in diameter than the outlet of the appliance being served, providing:
- the vent height is at least 10ft.
 - the liner size is not more than one size smaller.
 - the "FAN MAX" is reduced by 10% if the appliance is "fan assisted".
 - the outlet is larger than 4" if the appliance is "natural draft".
- A4. Reduce Flexi-Liner capacity for elbows (turns) as follows:
- A4.1. Single Appliance (two 90° elbows for total vent system are factored into chart)
- In USA - for each additional elbow up to 45°, reduce capacity by 5%.
- for each additional elbow 45°-90°, reduce capacity by 10%.
 - In CDA - for each additional elbow 90° reduce capacity by 10% for NAT and 15% for FAN.
- A4.2. Multiple Appliances (90° turn at the bottom of liner is factored into chart)
- In USA - for each elbow in the common vent up to 45°, reduce capacity by 5%.
- for each elbow 45°-90°, reduce capacity by 10%.
 - In CDA - for each 90° elbow in the common vent, reduce capacity by 10% for NAT and 15% for FAN.
- Common Vent manifold fitting is part of the connector sizing coming to it.
- A5. Do not use these tables if the vent system contains any device (such as a vent damper, draft regulator or heat reclaimers, etc.), which retards the flow of vent gases. Refer to instructions provided by the manufacturer of the device for vent instructions.
- A6. Interpolation between the table entries is permitted, extrapolation beyond the table entries is not permitted.
- A7. Vent connector sizes for multiple appliances are derived from tables included in the following national gas codes: NFPA 54 (USA) and B149.1 (CDA).
- A8. These tables are derived from the National Fuel Gas Code (NFPA 54 & CSA-B149). Current code data and information will supercede these sizing instructions if there is any discrepancy between them.

ADDITIONAL COMMENTS

- B1. Flexi-Liner System is UL/ULC Listed for relining existing masonry or factory-built chimneys and vents serving Category I natural gas or propane fired appliances.
- B2. Insulating of Flexi-Liner System is a benefit to the installation but not always essential to effective operation of this venting system. Consult the Flexi-Sleeve installation instructions for application guidelines.
- B3. The use of a "Y" fitting rather than a "T" fitting is recommended when common venting into a manifold system.
- B4. AVOID CONDENSATION and/or SPILLAGE OF FLUE GASES:
- Install Flexi-Liner as per installation instructions.
 - Set up appliances as per appliance installation instructions.
- B5. Contact local authorities for restrictions and regulations in your area.
- B6. Venting gas fired appliances into masonry chimneys is prohibited, unless a Listed liner such as Flexi-Liner, or a tile liner conforming to Code is utilized. Oversized, misaligned and/or cracked tiles DO NOT constitute a Code liner.

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