

# FLEXI-LINER®

## FLEXI-LINER® SIZER

Corrugated Chimney Liner for Gas Fired Appliances

### SINGLE APPLIANCE

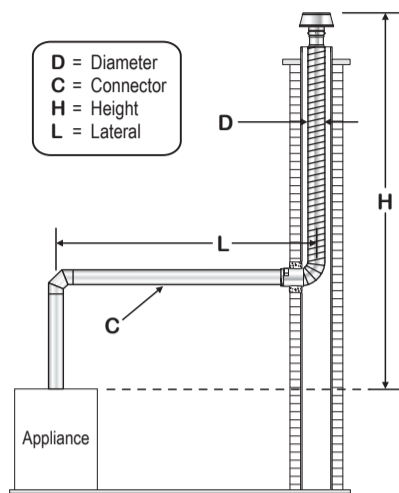
Height, Ft "H"	Connector Type: Double or Single Wall "C"	Lateral Offset "L"	FLEXI-LINER Diameter "D" (inches)																				
			3"		4"		5"		5.5"		6"		7"		8"								
			Appliance Input Rating Limits (x1000 BTU/h) Reduced 20% from Type B Vent Tables																				
			FAN	NAT	FAN	NAT	FAN	NAT	FAN	NAT	FAN	NAT	FAN	NAT	FAN	NAT							
Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max										
15'	Double	2' 5' 10'	11 22 29	55 52 47	38 36 33	15 30 40	109 104 97	74 70 66	20 39 51	181 175 165	120 114 108	21 44 58	226 220 208	150 144 137	22 49 64	271 264 252	180 174 166	38 64 84	380 370 356	253 240 230	45 76 99	506 496 480	331 322 309
	Single	2' 5' 10'	38 51 NA	55 50 NA	38 35 31	57 75 95	109 102 93	74 69 63	80 102 128	180 173 161	119 112 105	98 123 155	225 217 204	149 143 134	115 144 182	270 261 246	179 174 162	148 182 228	378 367 350	251 238 227	187 231 284	505 493 474	330 320 305
25'	Double	2' 5' 10'	10 21 28	62 59 54	43 41 38	14 29 38	126 21 113	85 82 76	16 37 49	213 207 196	140 134 128	18 42 55	268 261 249	176 170 162	19 46 61	324 315 302	212 206 196	30 60 79	458 448 432	296 289 277	37 71 93	615 603 585	402 394 380
	Single	2' 5' 10'	37 50 NA	62 57 NA	42 40 NA	56 73 92	125 119 109	84 80 74	77 99 124	212 204 191	139 132 126	94 119 149	267 258 244	175 168 159	111 139 174	322 312 296	211 204 192	142 175 218	455 444 424	294 286 273	179 220 271	612 599 577	400 391 375
30'	Double	2' 5' 10'	9 21 27	65 62 56	45 43 40	13 28 37	133 128 120	90 86 82	14 36 48	226 220 210	148 141 137	16 41 54	286 278 267	186 180 173	18 45 59	346 337 324	224 218 209	27 58 77	490 480 464	315 308 297	33 69 91	661 649 630	428 419 406
	Single	2' 5' 10'	37 49 NA	64 59 NA	45 42 NA	55 72 91	131 126 115	89 85 78	76 98 122	225 217 204	146 138 134	93 117 147	284 275 261	185 178 170	109 136 171	343 334 318	223 217 206	139 171 213	488 476 456	314 306 294	175 215 265	658 645 622	426 417 401
35'	Double	2' 5' 10'	9 21 27	66 63 57	46 NA NA	13 28 37	136 131 124	92 89 84	14 36 47	234 227 217	152 146 141	16 40 53	296 289 277	192 186 178	17 45 58	359 350 337	231 225 216	26 57 76	511 500 484	325 319 308	31 68 90	691 679 660	444 435 422
	Single	2' 5' 10'	37 49 NA	65 60 NA	46 NA NA	55 72 91	135 129 118	91 87 NA	75 97 121	232 224 211	151 143 138	92 116 145	294 285 271	190 184 175	108 135 169	356 347 330	230 224 213	138 169 211	508 496 476	324 316 304	173 212 262	688 674 651	442 433 417
45'	Double	2' 5' 10'	8 20 26	68 65 60	48 NA NA	12 27 36	143 138 131	96 93 89	14 35 46	249 242 232	161 155 148	15 39 51	317 309 298	203 197 190	16 44 57	385 376 364	244 239 231	23 56 74	552 541 525	346 340 330	28 66 87	750 738 719	476 468 455
	Single	2' 5' 10'	36 48 NA	66 63 NA	48 NA NA	54 71 90	141 136 125	95 91 NA	74 95 119	247 239 226	160 153 145	90 114 142	315 306 291	201 195 186	105 132 164	383 373 356	243 237 227	135 166 206	549 537 517	344 337 325	170 207 256	747 733 709	474 465 450

### MULTIPLE APPLIANCES

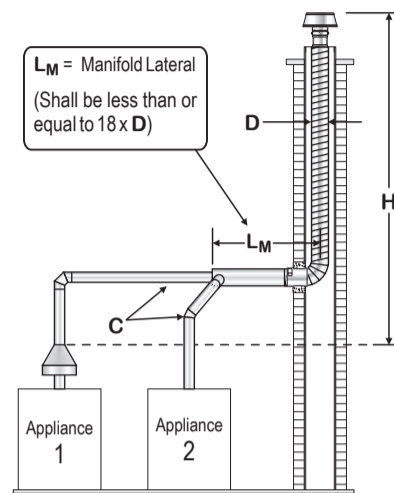
Height, Ft "H"	Connector Type: Double or Single Wall "C"	FLEXI-LINER Diameter "D" (inches)																	
		4"		5"		5.5"		6"		7"		8"							
		Combined Appliance Input Rating Limits (x1000 BTU/h) Reduced 20% from Vertical Common Vent																	
		FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only	FAN Only	FAN & NAT Only	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

Please refer to the Installation Instructions for information regarding Rigid Connection to Multiple Appliances.

### SINGLE APPLIANCE



### MULTIPLE APPLIANCES



## 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 within liner and connector 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.
- A5. Do not use these tables if the vent system contains any device (such as a vent damper, draft regulator or heat reclaim, 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).

## 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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