

MARK: \_\_\_\_\_

PROJECT: \_\_\_\_\_

DATE: \_\_\_\_\_



**Vari-Plume®**  
**Laboratory Exhaust**  
**Mixed-Flow Inline**  
**Bifurcated Belt Drive**  
**With 1x3 Mixing Box**  
**Parallel Bypass**

**DIMENSION DATA**

Size	A	B	C	D	E	F	G Height	H	J Width	K	L	M	Unit Weight	
													STD	HP
90	92	28	27 3/16	23	36 11/16	38	10 9/16	8	19 3/4	99 1/2	100	36 1/2	2257	2272
120	100	28	27 3/16	28	40 7/16	39	12 13/16	8	19 3/4	99 1/2	100	36 1/2	2549	2558
135	108	28	27 1/8	28	41 5/8	40	14 13/16	8	18 9/16	99 1/2	100	36 9/16	3151	3010
150	120	30	29 1/8	36	44 1/8	43	16 9/16	8	20 9/16	105 1/2	106	38 9/16	3486	3519
165	125	32	31 1/8	36	45 1/2	46	18 5/16	8	22 9/16	111 1/2	112	40 9/16	3892	3967
180	133	34	33 1/8	43	48	48	19 1/16	8	24 9/16	133 1/2	134	50 9/16	4601	4661
202	143	38	36 15/16	50	51 7/8	54	22 9/16	8	28 9/16	141 1/4	142	52 9/16	5510	5576
225	154	42	40 15/16	50	58	59	22 9/16	9	30 9/16	143 1/4	144	51 9/16	6182	6320
245	165	44	42 15/16	61	60 5/8	62	24 13/16	9	32 9/16	171 5/16	172	64 9/16	7177	7300
270	175	48	46 15/16	61	64 5/8	67	26 9/16	9	36 9/16	175 5/16	176	64 9/16	7946	8054
300	197	52	50 15/16	74	69 7/16	72	29 13/16	9	40 9/16	211 5/16	212	80 9/16	10225	10345
330	206	56	54 13/16	74	75 15/16	78	33 1/16	9	44 9/16	215 5/16	216	80 9/16	10797	10977
365	233	62	60 3/4	89	81 5/8	86	35 1/16	11	46 7/16	255 1/4	257	97 3/4	15283	15823
402	247	67	65 5/8	89	89 5/16	94	41 5/16	11	50 3/8	260 3/8	262	97 3/4	17598	17907
445	276	74	72 5/8	89	96 1/8	106	47 1/16	13	55 3/8	267 3/8	269	97 3/4	20337	20637
490	305	80	78 1/2	101	104 1/16	117	57 5/16	13	59 3/16	303 1/2	305	112 7/8	32252	32642
540	336	87	85 3/8	101	111 3/8	130	66 1/16	15	62 3/16	316 3/8	318	115 3/4	37105	37525
600	376	96	94 3/8	101	120 5/16	148	81 9/16	15	69 3/16	329 3/8	331	117 3/4	43921	44302

ALL DIMENSIONS IN INCHES. WEIGHTS IN LBS., LESS MOTOR.  
 \* RECOMMENDED CURB OUTSIDE SQUARE DIMENSION.  
 \*\* MIXING BOX INSIDE SQUARE DIMENSION.  
 \*\*\* DIMENSION IS FROM THE BOTTOM OF THE CURB CAP TO THE TOP OF THE CURB.

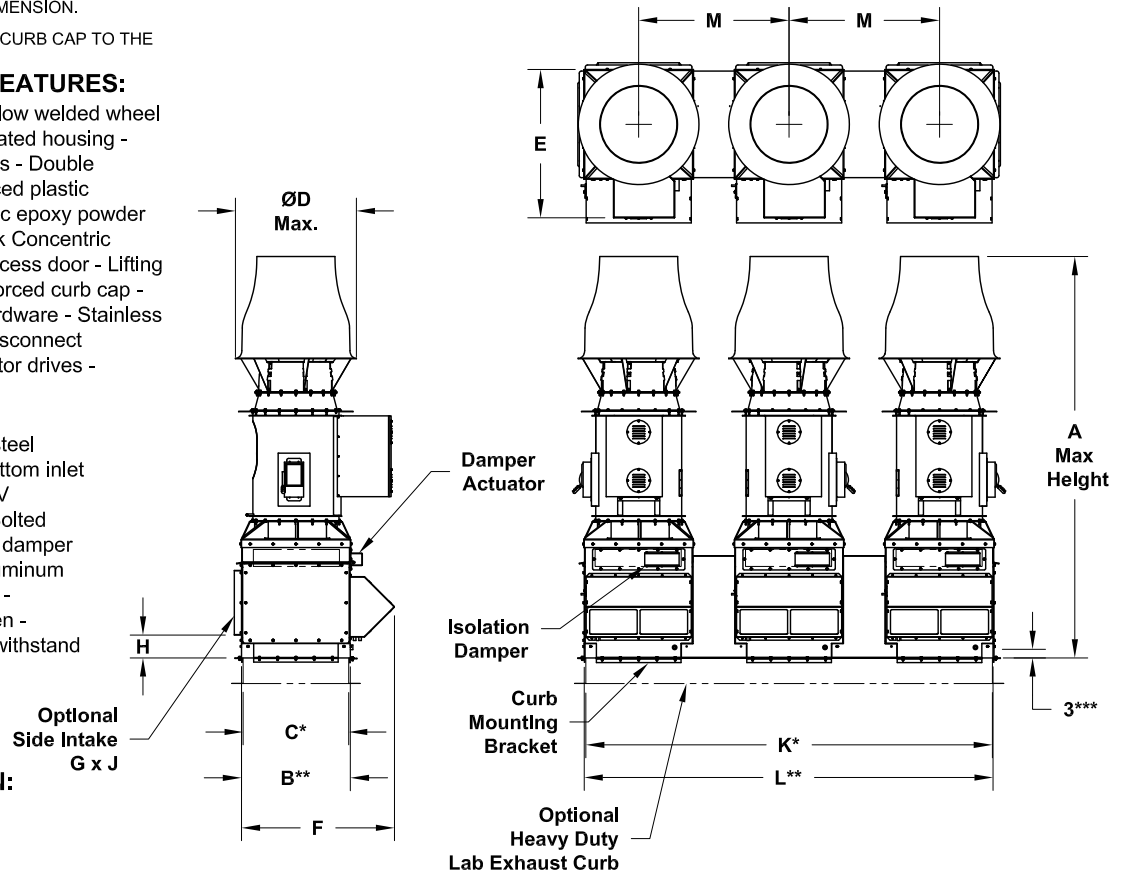
**STANDARD CONSTRUCTION FEATURES:**

High efficiency, non-overloading mixed-flow welded wheel  
 - Minimum 14 gauge steel welded bifurcated housing -  
 Welded aerodynamic straightening vanes - Double  
 concentric accelerator fiberglass reinforced plastic  
 induction nozzle and windband - Phenolic epoxy powder  
 with UV protection (Light Gray) - L10/40k Concentric  
 locking regreasable bearings - Bolted access door - Lifting  
 lugs - Fan drain - Weather cover - Reinforced curb cap -  
 Stainless Steel shaft -Stainless Steel hardware - Stainless  
 Steel extended lube lines - NEMA 3R disconnect  
 mounted and pre-wired - 1.5 Service factor drives -  
 Designed to withstand 125 mph wind\*\*\*\*

**BYPASS PLENUM:** Single wall welded steel  
 construction with inner angle frame - Bottom inlet  
 location - Phenolic epoxy powder with UV  
 protection (Light Gray) - Plenum drain -Bolted  
 access door - Painted aluminum bypass damper  
 with manual hand quadrant - Painted aluminum  
 isolation damper with 2 position actuator -  
 Weather hood - Stainless steel birdscreen -  
 Stainless Steel hardware - Designed to withstand  
 125 mph wind\*\*\*\*

**OPTIONAL FEATURES SHOWN:**

Heavy Duty Lab Exhaust Curb  
 Side Intake Opening  
 Damper Actuator



NOT INTENDED TO BE  
 SUPPORTED BY TRADITIONAL SHEETMETAL  
 ROOF CURB, BUT BY INTEGRAL  
 MEMBERS OF ROOF STRUCTURE.  
 \*\*\*\* WINDLOAD RATING DEPENDANT ON ADEQUATE  
 ATTACHMENT TO ROOF STRUCTURE.