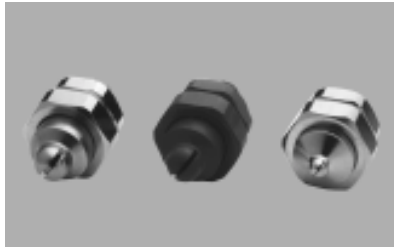
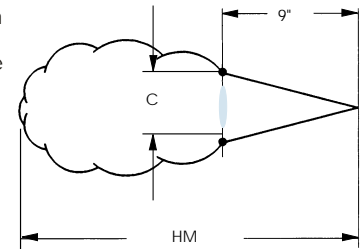


**INTERNAL MIX SET-UPS — FLAT JET PRESSURE**



These set-ups produce a flat, fan-shaped spray pattern. Details are given in the illustration at the right. The maximum spray length is HM. The distance over which the spray remains well-defined is approximately 9 inches. Beyond that the spray becomes turbulent. The width of the spray at 9 inches is C.



The entries on the right-hand part of the table below show how HM and C vary as a function of selected values of liquid and air pressure (PL and PA) for the various set-ups.

Materials: Nickel-plated brass (T8) PVC (D1)  
303 stainless steel (B1) Lucite (E6)  
316 stainless steel (B3)

LF = LIQUID FLOW RATE (gph)  
A = AIR FLOW RATE (scfm)  
PL = LIQUID PRESSURE (psi)  
PA = AIR PRESSURE (psi)

SET-UP CODE	AIR PRESSURE (psi)														PA	PL	C	HM	
	10		20		30		40		50		60		LF	A					
SUU 2101	10	1.4	0.9	18	2.2	1.1	28	2.5	1.5	38	2.8	1.8	55	3.4	2.4	16	10	14"	8 1/2'
	12	1.2	1.0	22	1.8	1.3	32	2.2	1.7	42	2.5	2.0	65	2.8	2.9	30	20	19"	10'
	14	1.1	1.1	26	1.5	1.5	36	1.9	1.8	46	2.2	2.2	75	2.3	3.3	40	30	21"	10 1/2'
	16	0.9	1.2	30	1.2	1.7	40	1.6	2.0	50	1.9	2.4	85	1.7	3.7	50	40	24"	11'
	18	0.8	1.3	34	0.9	1.9	44	1.3	2.2	60	1.3	2.8	90	1.4	3.9	85	60	29"	13'
	20	0.7	1.4	38	0.7	2.1	48	1.0	2.4	65	0.9	3.0	95	1.2	4.1	-	-	-	-
	22	0.5	1.6	40	0.6	2.2	55	0.7	2.7	70	0.7	3.3	100	0.9	4.3	-	-	-	-
Ln XMW 5001 An XMW 4020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUU 2160	18	1.1	1.1	30	1.6	1.4	42	2.1	1.8	55	2.2	2.2	75	3.2	2.7	22	10	13"	6'
	20	0.8	1.2	34	1.1	1.6	44	1.8	1.9	60	1.6	2.4	80	2.7	2.9	38	20	20"	6 1/2'
	22	0.6	1.3	36	0.9	1.7	46	1.6	2.0	65	1.2	2.6	85	2.2	3.1	46	30	29"	6 1/2'
	24	0.5	1.3	38	0.8	1.8	48	1.4	2.1	70	0.8	2.9	90	1.8	3.4	60	40	29"	7'
	26	0.4	1.5	40	0.6	1.9	50	1.1	2.1	-	-	-	-	-	-	80	60	30"	7 1/2'
	28	0.3	1.6	42	0.5	2.0	55	0.7	2.4	-	-	-	-	-	-	-	-	-	-
	-	-	-	44	0.4	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ln XMW 5002 An XMW 4022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUM 2167	14	2.5	0.9	22	3.3	1.1	34	3.5	1.6	40	4.4	1.8	60	5.1	2.5	20	10	5"	10'
	16	2.2	1.1	26	2.9	1.4	38	2.8	1.9	44	3.8	2.0	65	4.5	2.7	34	20	6"	12'
	18	1.8	1.2	30	2.2	1.6	42	2.4	2.1	48	3.3	2.2	70	3.8	3.0	46	30	7"	13'
	20	1.5	1.3	34	1.6	1.9	46	1.9	2.4	54	2.6	2.6	75	3.3	3.2	54	40	9"	14'
	24	0.8	1.6	38	1.3	2.1	50	1.5	2.6	60	1.9	3.0	80	3.1	3.6	75	60	10"	16'
	28	0.6	1.8	42	0.7	2.4	60	0.6	3.2	70	1.1	3.5	90	2.3	4.1	-	-	-	-
	32	0.3	2.0	48	0.4	2.7	70	0.3	3.7	85	0.4	4.3	100	2.1	4.6	-	-	-	-
Ln XMW 5002 An XMW 4021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUU 2171	12	2.2	0.7	20	3.4	1.0	30	4.0	1.3	38	4.7	1.5	65	4.9	2.4	16	10	18"	7'
	14	1.8	0.8	24	2.7	1.2	34	3.4	1.5	42	4.1	1.7	70	4.2	2.6	30	20	24"	8'
	16	1.5	1.0	28	2.1	1.4	38	2.9	1.7	46	3.6	1.9	75	3.6	2.9	42	30	28"	8 1/2'
	18	1.1	1.1	30	1.8	1.5	42	2.3	1.9	50	3.1	2.1	80	3.1	3.1	50	40	30"	9'
	20	0.8	1.2	32	1.5	1.6	46	1.7	2.1	60	1.8	2.6	85	2.5	3.4	80	60	30"	10 1/2'
	-	-	-	34	1.2	1.7	48	1.4	2.2	65	1.2	2.8	90	2.0	3.6	-	-	-	-
	-	-	-	36	1.0	1.8	50	1.2	2.3	70	0.8	3.1	95	1.6	3.9	-	-	-	-
Ln XMW 5002 An XMW 4020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUM 2320	16	3.0	1.9	28	4.5	2.7	38	5.6	3.2	46	7.5	3.7	65	9.7	4.8	20	10	7"	10'
	18	2.3	2.1	30	3.9	2.9	40	5.4	3.4	50	6.5	4.0	70	8.6	5.2	32	20	11"	10 1/2'
	20	1.7	2.3	32	3.3	3.0	42	4.9	3.6	52	5.9	4.2	75	7.5	5.6	42	30	13"	11'
	22	1.3	2.5	34	2.8	3.2	44	4.3	3.7	54	5.4	4.3	80	6.4	6.0	54	40	15"	11 1/2'
	24	1.0	2.7	36	2.3	3.4	46	3.8	3.9	56	4.9	4.5	85	5.3	6.5	75	60	16"	13'
	-	-	-	-	-	-	48	3.2	4.1	58	4.3	4.7	90	4.3	7.0	-	-	-	-
	-	-	-	-	-	-	-	-	-	60	3.8	4.9	-	-	-	-	-	-	-
Ln XMW 5003 An XMW 4024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUM 2600	14	4.6	0.8	24	7.6	1.3	34	9.6	1.7	44	11.1	2.2	56	19.9	2.6	16	10	5"	8'
	16	3.0	1.0	26	6.1	1.4	36	7.9	2.0	46	9.7	2.5	60	16.8	3.0	30	20	5"	10'
	18	2.1	1.2	28	4.6	1.7	38	6.6	2.2	48	8.4	2.7	65	13.6	3.5	40	30	7"	11'
	20	0.9	1.4	30	3.5	1.8	40	5.3	2.5	52	5.7	3.3	70	9.8	4.3	52	40	8"	12'
	-	-	-	32	2.5	2.1	42	4.2	2.7	56	3.9	3.8	80	4.9	5.7	70	60	10"	13'
	-	-	-	34	1.4	2.3	46	2.7	3.2	60	2.4	4.4	90	1.9	7.4	-	-	-	-
	-	-	-	36	0.8	2.6	50	1.2	3.7	65	1.1	5.0	95	0.7	8.4	-	-	-	-
Ln XMW 5004 An XMW 4023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUQ 2700	12	7.1	1.2	22	11.6	1.7	34	12.5	2.2	46	13.7	2.8	65	18.4	3.6	16	10	9"	11'
	14	5.5	1.4	26	8.4	2.0	38	9.9	2.6	50	10.9	3.1	75	12.7	4.5	32	20	12"	11 1/2'
	16	4.3	1.6	30	6.1	2.4	42	7.9	3.0	54	8.7	3.5	80	10.7	5.0	46	30	13"	12'
	18	3.4	1.7	32	5.2	2.6	46	6.0	3.4	56	7.8	3.7	85	8.8	5.4	56	40	15"	12 1/2'
	20	2.8	2.0	34	4.4	2.8	48	5.1	3.5	60	6.4	4.0	90	7.0	5.9	85	60	16"	14 1/2'
	22	2.1	2.2	36	3.7	3.0	50	4.4	3.7	65	4.6	4.5	95	5.6	6.3	-	-	-	-
	-	-	-	38	3.1	3.2	52	3.8	3.9	70	3.3	5.0	100	4.5	6.8	-	-	-	-
Ln XMW 5004 An XMW 4024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUQ 3126	14	7.8	3.2	26	10.6	4.6	34	20.9	4.8	42	29.4	5.2	58	44.8	6.1	14	10	8"	11'
	16	5.1	3.8	28	7.1	5.2	36	16.7	5.3	44	25.1	5.6	60	41.1	6.4	26	20	12"	12 1/2'
	-	-	-	-	-	-	38	12.8	5.8	46	20.8	6.1	65	31.5	7.5	38	30	12"	14'
	-	-	-	-	-	-	40	9.6	6.4	48	16.7	6.6	70	22.6	8.8	48	40	16"	15'
	-	-	-	-	-	-	42	6.8	6.9	50	13.1	7.2	75	15.1	10.2	70	60	17"	17'
	-	-	-	-	-	-	-	-	-	52	10.0	7.8	80	8.8	11.5	-	-	-	-
	-	-	-	-	-	-	-	-	-	54	7.3	8.3	-	-	-	-	-	-	-
Ln XMW 5005 An XMW 4025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



AIR-ATOMIZING NOZZLES