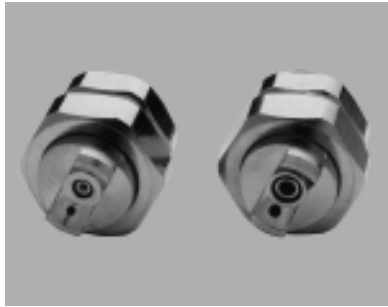
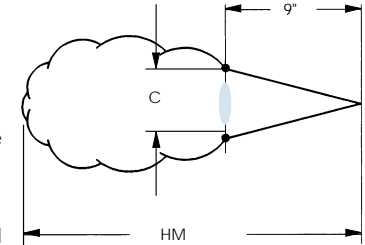


**EXTERNAL MIX SET-UPS — FLAT JET PRESSURE**



These set-ups produce a flat pattern. Mixing occurs outside of the set-up. External mix set-ups are ideal for viscous liquids or liquids that might tend to harden when mixed with air within an internal mix chamber.

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 9". Beyond this distance the spray becomes turbulent. The width of the spray at 9" is designated by C.

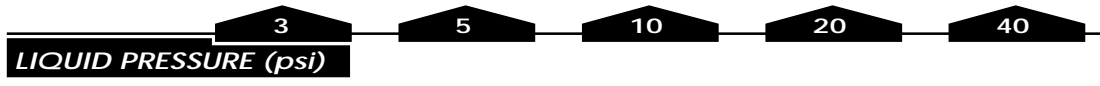


The entries on the right-hand part of the table below show how HM, HR, and C vary as a function of selected values of liquid and air pressure (PL and PA) for the various set-ups.

Materials: Nickel-plated brass (T8)  
303 stainless steel (B1)  
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)																			
	3		5		10		20		40		50		60		70		PA	PL	C	HM
	LF	A	LF	A	LF	A	LF	A	LF	A	LF	A	LF	A	LF	A				
<b>SUL 2110</b>  Ln XMW 5006 An XMW 4030	3	0.9		5	1.0		10	1.2		20	1.7		40	2.6		3	3	6"	3'	
	5	0.9		10	1.2		15	1.4		25	1.9		50	3.0		15	3	6"	4'	
	10	1.2		15	1.5		20	1.6		30	2.1		60	3.6		20	5	6"	4'	
	15	1.5	0.8	20	1.7	1.1	25	1.8	1.5	40	2.7	2.1	70	4.2	2.8	20	20	7"	5'	
	20	1.7		25	2.0		30	2.1		50	3.0		75	4.5		25	10	6"	5'	
	25	1.9		30	2.2		40	2.7		60	3.7		80	4.9		40	20	7"	6'	
	30	2.2		40	2.6		50	3.0		80	5.0		90	5.6		70	40	7"	8'	
<b>SUT 2111</b>  Ln XMW 5006 An XMW 4031	5	0.8		5	0.8		6	0.9		8	1.1		10	1.2		6	5	11"	4'	
	6	0.9		6	0.9		8	1.1		10	1.3		15	1.6		8	10	12"	6'	
			0.8			1.1			1.4			2.1			2.8	15	20	14"	6'	
	7	1.0		8	1.1		10	1.2		15	1.6		25	2.2		20	20	13"	8'	
	8	1.0		10	1.2		12	1.4		20	1.9		35	2.8		20	20	12"	9'	
																15	30	14"	8 1/2'	
																20	40	15"	9'	
<b>SUR 2166</b>  Ln XMW 5001 An XMW 4030	5	0.9		10	1.2		15	1.5		25	1.9		45	2.9		5	3	5 1/2"	3 1/2'	
	10	1.2		15	1.5		20	1.7		30	2.2		50	3.0		20	3	6"	5 1/2'	
	15	1.5		20	1.6		25	1.9		40	2.5		60	3.6		25	5	6 1/2"	6'	
	20	1.7	1.3	25	1.9	1.7	30	2.2	2.3	50	3.1	3.2	70	4.2	4.4	25	20	7 1/2"	7'	
	25	2.0		30	2.2		40	2.6		60	3.7		75	4.5		30	10	7"	6'	
	30	2.1		40	2.7		50	3.0		70	4.1		90	5.6		50	20	8 1/2"	8'	
	40	2.7		50	3.1		60	3.7		90	5.5		95	5.8		75	40	7 1/2"	10'	
<b>SUV 2172</b>  Ln XMW 5001 An XMW 4031	5	0.8		5	0.8		8	1.1		10	1.3		15	1.6		10	5	13"	5'	
	8	1.1		10	1.3		10	1.3		20	3.0		20	1.9		15	10	15"	7'	
			2.3			1.7			2.3			3.2			4.4	10	20	18"	6'	
	10	1.3		15	1.6		20	1.9		30	2.6		30	2.5		20	20	17"	8'	
	15	1.6		20	1.9		30	2.6		35	2.9		35	2.8		35	20	16"	10'	
																25	30	18"	9'	
															25	40	19"	9 1/2'		
<b>SUS 2330</b>  Ln XMW 5002 An XMW 4030	10	1.2		15	1.5		20	1.7		35	2.5		50	3.0		10	3	6 1/2"	4'	
	15	1.5		20	1.7		25	1.9		40	2.7		60	3.6		25	3	6 1/2"	6'	
	20	1.7		25	1.9		30	2.2		50	3.1		70	4.2		30	5	7"	6'	
	25	1.9	2.3	30	2.2	3.1	40	2.6	4.3	60	3.7	6.1	75	4.5	8.4	35	20	8"	6'	
	30	2.1		40	2.6		50	3.1		70	4.3		80	4.9		40	10	7 1/2"	7 1/2'	
	40	2.6		50	3.0		60	3.7		80	4.9		90	5.6		60	20	8"	10'	
	50	3.1		60	3.7		70	4.3		90	5.5		100	6.2		75	40	8"	13'	
<b>SUV 2331</b>  Ln XMW 5002 An XMW 4031	6	0.9		6	0.9		6	0.9		10	1.2		20	1.9		8	5	19"	6'	
	7	1.0		8	1.1		8	1.1		12	1.5		25	2.2		8	10	19"	5'	
			2.4			3.1			4.3			6.0			8.4	10	20	19"	6'	
	8	1.1		9	1.2		10	1.3		15	1.7		30	2.5		15	20	20"	7'	
	10	1.3		10	1.3		12	1.5		20	1.9		35	2.8		20	20	21"	8'	
																25	30	20"	9'	
															30	40	20"	9 1/2'		



EXTERNAL MIX SET-UPS — FLAT JET  
PRESSURE

SET-UP CODE	AIR PRESSURE (psi)																PA	PL	C	HM
	3		5		10		20		40		50		75		100					
	LF	A	LF	A	LF	A	LF	A	LF	A	LF	A	LF	A	LF	A				
SUQ 2520  Ln XMW 5007 An XMW 4032	10	3.1		15	3.7		20	4.2		35	6.4		45	7.5		10	3	7 1/2"	5 1/2"	
	15	3.7		20	4.2		25	4.8		40	6.8		50	8.2		25	3	7 1/2"	9"	
	20	4.2		25	4.9		30	5.6		50	8.1		55	9.0		30	5	7 1/2"	10'	
	25	4.9	3.7	30	5.6	4.8	35	6.4	6.7	60	9.5	9.5	60	9.7	13.2	35	10	8 1/2"	11 1/2"	
	30	5.6		40	7.0		40	7.0		70	11.1		70	11.1		35	20	9"	12"	
	40	7.0		50	8.1		50	8.1		80	12.6		80	12.7		60	20	9"	14"	
	50	8.1		60	9.4		60	9.5		90	14.6		90	14.5		70	40	8 1/2"	16'	
SUV 2521  Ln XMW 5007 An XMW 4033	8	3.3		10	3.7		20	5.6		30	7.5		45	10.0		20	5	15"	12 1/2"	
	10	3.7		15	4.7		30	7.3		40	9.0		60	12.6		30	10	16"	14"	
			3.7						6.7				9.5			45	20	18"	13'	
	15	4.7		25	6.6		35	8.4		50	11.0		75	15.2		45	20	19"	15'	
	20	5.6		30	7.3		40	9.2		60	12.7		80	16.0		60	20	19"	17"	
SUT 2680  Ln XMW 5003 An XMW 4032	10	3.1		20	4.2		25	5.0		40	6.9		50	8.2		10	3	7 1/2"	7"	
	15	3.7		25	4.9		30	5.6		45	7.6		60	9.7		25	3	7 1/2"	10'	
	20	4.2		30	5.6		35	6.3		50	8.1		70	11.1		35	5	8 1/2"	11'	
	25	4.9	4.9	35	6.4	6.2	40	6.9	8.8	60	9.5	12.4	75	12.0	17.5	40	10	8 1/2"	12 1/2"	
	30	5.6		40	7.0		50	8.1		70	11.1		80	12.7		40	20	10"	13'	
	40	6.9		50	8.1		60	9.5		80	12.8		90	14.5		60	20	10"	16'	
	50	8.0		60	9.5		70	11.1		90	14.6		95	15.1		75	40	20"	19'	
SUV 2681  Ln XMW 5003 An XMW 4033	8	3.3		10	3.7		15	4.7		35	8.4		50	10.9		15	3	15"	11 1/2"	
	15	4.7		20	5.6		25	6.6		45	10.1		65	13.5		25	10	19"	10'	
			4.9						8.8				12.4			35	20	18"	12 1/2"	
	20	5.6		25	6.5		35	8.4		55	11.8		85	16.8		45	20	17"	14"	
	25	6.6		30	7.3		40	9.1		60	12.7		95	18.5		60	20	17"	16'	
SUN 3101  Ln XMW 5004 An XMW 4032	15	3.7		25	5.0		35	6.4		45	7.6		55	9.0		15	3	8"	9"	
	20	4.2		30	5.5		40	6.9		50	8.1		60	9.7		30	3	8 1/2"	10'	
	25	4.9		35	6.4		45	7.6		55	8.7		65	10.5		40	5	9 1/2"	11 1/2"	
	30	5.6	9.8	40	6.9	12.6	50	8.1	18.1	60	9.5	25.6	70	11.1	36.0	45	20	11"	12"	
	35	6.4		45	7.6		60	9.4		70	11.1		80	12.7		50	10	10 1/2"	13'	
	40	6.9		50	8.1		70	11.1		80	12.8		90	14.5		60	20	11"	14'	
	50	8.0		60	9.5		80	12.8		90	14.6		100	16.0		80	40	9 1/2"	19 1/2"	
SUN 3102  Ln XMW 5008 An XMW 4034	25	8.2		25	8.4		35	10.6		55	14.6					25	3	8"	10'	
	30	9.3		30	9.3		40	11.7		60	15.8					40	3	8"	11'	
	35	10.6		35	10.6		45	12.6		65	17.1					40	5	8"	13'	
	40	11.5	10.1	40	11.5	12.8	50	13.5	18.1	70	18.5	25.6				50	10	8 1/2"	14'	
	45	12.6		45	12.6		55	14.6		75	20.1					55	20	8 1/2"	15'	
	50	13.5		50	13.5		60	15.8		80	21.2					60	15	9"	15 1/2"	
	60	15.6		60	15.6		70	18.5		90	24.3					70	20	9"	18'	
SUW 3141  Ln XMW 5004 An XMW 4033	10	3.6		15	4.5		25	6.6		45	10.1		75	15.2		30	5	22"	12'	
	15	4.7		20	5.6		30	7.5		50	11.0		85	16.8		40	10	23"	13'	
			9.8						18.1				25.6			45	20	23"	14'	
	20	5.6		30	7.4	12.6	40	9.2		70	14.4		95	18.5	36.0	65	20	21"	16'	
	25	6.6		35	8.4		45	10.1		80	16.1		100	19.4		80	20	20"	19'	
																55	30	25"	14'	
SUN 3175  Ln XMW 5009 An XMW 4034	30	9.3		40	11.7		55	14.4		70	18.5					30	3	9 1/2"	11 1/2"	
	35	10.6		45	12.6		60	15.6		75	20.1					45	3	9 1/2"	14"	
	40	11.7		50	13.5		65	17.1		80	21.1					55	5	10"	16'	
	45	12.6	17.5	55	14.6	22.6	70	18.5	31.6	85	22.4	44.8				70	10	10"	18'	
	50	13.5		60	15.6		75	20.1		90	24.2					70	20	10"	18'	
	60	15.6		70	18.5		80	21.3								75	15	10"	19'	
	70	18.5		80	21.3		90	24.3								80	20	10"	20'	
SUN 3280  Ln XMW 5005 An XMW 4034	40	11.7		50	13.5		65	17.1		80	21.3					40	3	10"	15'	
	45	12.6		55	14.6		70	18.5		85	22.5					55	3	10"	16'	
	50	13.5		60	15.6		75	20.1		90	24.3					65	5	10"	17'	
	55	14.6	27.8	65	17.1	36.1	80	20.1	50.5				72.1			75	10	10 1/2"	18'	
	60	15.8		70	18.5		85	22.4								80	15	10 1/2"	18'	
	65	17.1		75	20.1		90	24.2								80	20	10 1/2"	19'	
	70	18.5		80	21.3											85	20	10 1/2"	20'	

AIR-ATOMIZING NOZZLES