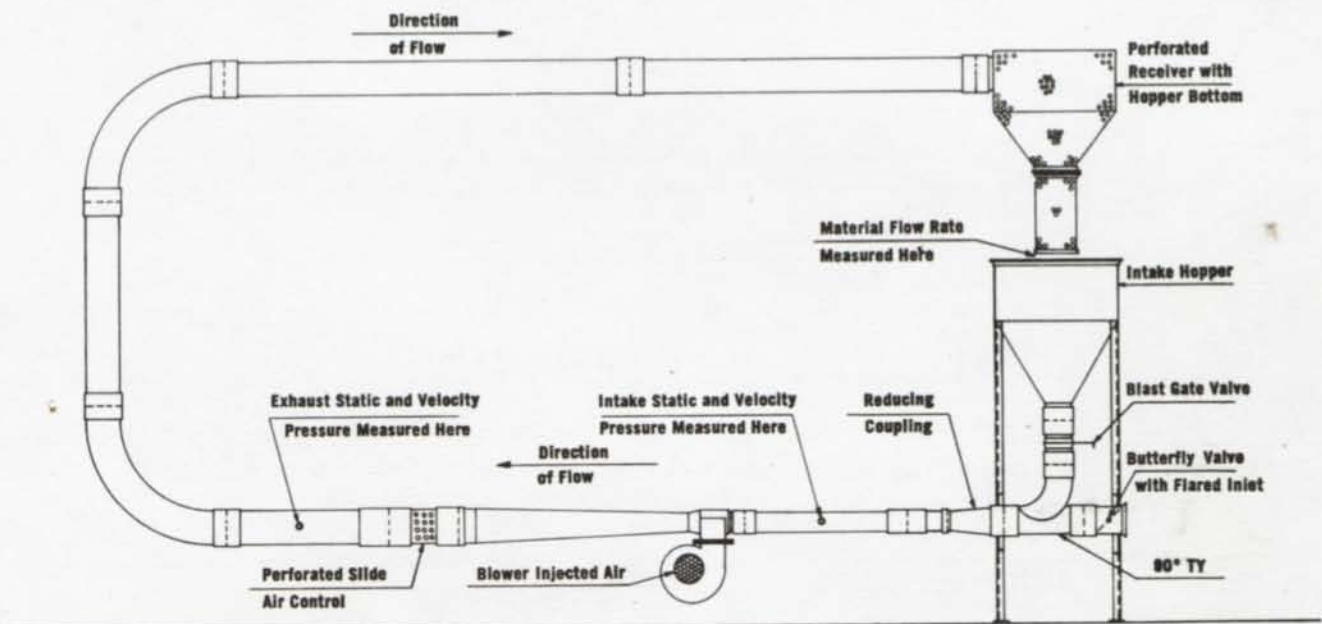


QUICKDRAFT LOOSE FILL PACKAGING AND EPS BEAD UNITS CAPACITY DATA

The performance charts are the result of analysis of the physical data accumulated using the test setup as shown in the sketch.



Both the static and velocity pressures were measured in the inlet and exhaust ducts. The material flow was collected for an increment of time at the receiver discharge and weighed to determine the material flow rate.

Both inlet and exhaust air flow velocities were varied, using control valves to find the air velocity required to sustain a specific material flow rate. These results, along with the power capacities of the individual units, were combined to formulate the performance charts.

LOOSE FILL PACKAGING MATERIAL UNIT SELECTION

The easy flow capability of loose fill packaging material can be a detriment to air conveying if the duct diameter or the eductor is too small. A too-high material flow rate in a too-small diameter duct and/or eductor will have a tendency to plug from too much material trying to enter the duct. To avoid this condition, the chart below lists the material flow limitations for a specific eductor and duct size.

EDUCTOR	DUCT DIAMETER (Inches)		MAXIMUM MATERIAL FLOW RATE CU. FT./HR.
	INLET	OUTLET	
QP5CA	5	7	500
QP6CA	6	8	1000
MH-559	5	9	2000
MH-6510	6	10	3000
MH-7512	7	12	4000

NOTE: Consult factory when flow rate exceeds 4000 cu. ft. per hour.

EPS BEAD UNIT SELECTION

The relatively high bulk density of bead-type material compared to loose fill packaging material requires a high air-to-material flow ratio to allow conveyance of significant material volume. To provide this ratio, specific eductors and duct diameters are required, as listed in the chart below.

EDUCTOR	DUCT DIAMETER (Inches)		BULK DENSITY LBS./CU. FT.	MAX. MATERIAL FLOW RATE CU. FT./HR.	BULK DENSITY LBS./CU. FT.	MAX. MATERIAL FLOW RATE CU. FT./HR.
	INLET	OUTLET				
MH-458	4	8	1 to 3	750	3 to 5	375
MH-559	5	9	1 to 3	1200	3 to 5	550
MH-6510	6	10	1 to 3	1700	3 to 5	750
MH-7512	7	12	1 to 3	2500	3 to 5	1000

NOTE: For higher flow rates or bulk densities contact the factory.

LOOSE FILL PACKAGING MATERIAL

UNIT	HORSEPOWER (HP)	MAXIMUM MATERIAL FLOW	INLET EQUIVALENT LENGTH = 20 FEET EXHAUST EQUIVALENT LENGTH*	INLET EQUIVALENT LENGTH = 40 FEET EXHAUST EQUIVALENT LENGTH*
★QP4CA Inlet Duct Dia. = 5 in. Exhaust Duct Dia. = 6 in. 5 x 4 in. Reducer Required	3/4	Up to 200 Cubic Feet per Hour	5	N/A
	1		20	N/A
	2		40	20
	3		60	40
★QP5CA Inlet Duct Dia. = 5 in. Exhaust Duct Dia. = 7 in.	3/4	Up to 500 Cubic Feet per Hour	50	25
	1		125	75
	2		225	175
	3		300	250
★QP6CA Inlet Duct Dia. = 6 in. Exhaust Duct Dia. = 8 in.	1	500 to 1000 Cubic Feet per Hour	25	0
	2		150	100
	3		200	175
	5		250	225
★QP7CA Inlet Duct Dia. = 7 in. Exhaust Duct Dia. = 9 in.	2	1000 to 1500 Cubic Feet per Hour	50	30
	3		75	50
	5		150	125
MH-559 Inlet Duct Dia. = 5 in. Exhaust Duct Dia. = 9 in.	1 1/2	1500 to 2000 Cubic Feet per Hour	150	125
	2		200	175
	3		275	250
MH-6510 Inlet Duct Dia. = 6 in. Exhaust Duct Dia. = 10 in.	2	2000 to 3000 Cubic Feet per Hour	200	175
	3		250	225
	5		325	300
MH-7512 Inlet Duct Dia. = 7 in. Exhaust Duct Dia. = 12 in.	3	3000 to 4000 Cubic Feet per Hour	200	175
	5		300	275

★ QP Units require a perforated slide air control on exhaust end.

N/A Not Applicable (not capable of conveying material through 40 equivalent feet on inlet side).

* Each 90° elbow adds 10 feet to the equivalent length.

EXPANDABLE POLYSTYRENE BEADS AND OTHERS

BULK DENSITY: 1 TO 3 LBS. PER CUBIC FOOT

UNIT	HORSEPOWER (HP)	MAXIMUM MATERIAL FLOW	INLET EQUIVALENT LENGTH = 20 FEET EXHAUST EQUIVALENT LENGTH*	INLET EQUIVALENT LENGTH = 40 FEET EXHAUST EQUIVALENT LENGTH*
MH-458 Inlet Duct Dia. = 4 in. Exhaust Duct Dia. = 8 in.	1	Up to 500 Cubic Feet per Hour	115	10
	1½		150	70
	2		185	115
	3		200	130
MH-559 Inlet Duct Dia. = 5 in. Exhaust Duct Dia. = 9 in.	1½	Up to 1000 Cubic Feet per Hour	85	10
	2		105	40
	3		170	105
MH-6510 Inlet Duct Dia. = 6 in. Exhaust Duct Dia. = 10 in.	2	Up to 1500 Cubic Feet per Hour	120	60
	3		155	100
	5		165	115
MH-7512 Inlet Duct Dia. = 7 in. Exhaust Duct Dia. = 12 in.	3	Up to 2000 Cubic Feet per Hour	130	55
	5		210	155

* Each 90° elbow adds 10 feet to the equivalent length.

EXPANDABLE POLYSTYRENE BEADS AND OTHERS

BULK DENSITY: 3 TO 5 LBS. PER CUBIC FOOT

UNIT	HORSEPOWER (HP)	MAXIMUM MATERIAL FLOW	INLET EQUIVALENT LENGTH = 20 FEET EXHAUST EQUIVALENT LENGTH*	INLET EQUIVALENT LENGTH = 40 FEET EXHAUST EQUIVALENT LENGTH*
MH-458 Inlet Duct Dia. = 4 in. Exhaust Duct Dia. = 8 in.	1	Up to 375 Cubic Feet per Hour	20	N/A
	1½		55	N/A
	2		90	0
	3		105	10
MH-559 Inlet Duct Dia. = 5 in. Exhaust Duct Dia. = 9 in.	1½	Up to 550 Cubic Feet per Hour	10	N/A
	2		35	N/A
	3		85	10
MH-6510 Inlet Duct Dia. = 6 in. Exhaust Duct Dia. = 10 in.	2	Up to 750 Cubic Feet per Hour	55	N/A
	3		85	20
	5		100	40
MH-7512 Inlet Duct Dia. = 7 in. Exhaust Duct Dia. = 12 in.	3	Up to 1000 Cubic Feet per Hour	75	0
	5		145	80

* Each 90° elbow adds 10 feet to the equivalent length.

N/A Not Applicable (not capable of conveying material through 40 equivalent feet on inlet side).