

TYPE EH FABRICATED GAS-LIQUID EXHAUST HEADS

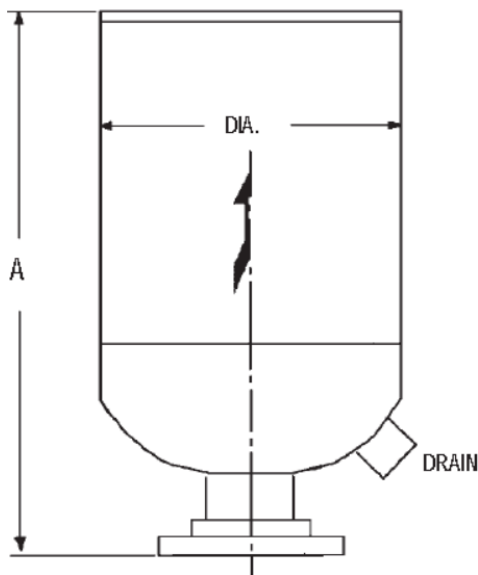
An exhaust head is a type of gas/liquid separator designed to be installed at the end of a vent pipe, mixer, vessel or oven. It differs from a gas/liquid separator as it is NOT A PRESSURE VESSEL. The separated liquid is prevented from carry-out and contaminating the surrounding environment. The outlet of an exhaust head is always to atmospheric pressure and thus it cannot be code stamped. Likewise, many welding specifications/procedures, corrosion allowance and similar design and fabrication criteria related to pressure vessels does not apply to exhaust heads.

Often confused with "silencers", exhaust heads are not designed to reduce the sound of vented air/steam/gasses, rather such noise reduction is attributed to the indirect pathway within the exhaust head. Exhaust heads are specifically designed for one purpose, which is separating entrained particles and droplets larger than 10 microns with 99% efficiency while having a maximum separation capacity of 10% of its maximum rated flow capacity. A properly sized exhaust head will have a pressure drop of ≤ 0.9 PSI.

An advantage of custom fabricated designs is that the exhaust head body can be "oversized" to handle high velocity exhaust pipelines whereas our cast iron exhaust heads cannot be customized.

Exhaust heads have no serviceable/moving components, require zero maintenance.

Typically manufactured from pipe, they can be fabricated from rolled plate; standard materials include carbon steel, 304L SS and 316L SS although they can be fabricated in other alloys when required. We also offer 1" through 10" sizes in cast iron, typically less costly than fabricated exhaust heads and a lead time from stock to 2 weeks. Customizations include support legs, lifting lugs and non-flanged connections.



DIMENSIONS AND WEIGHTS (INCHES/LBS)						
NOZZLE SIZE	A	DIA.	DRAIN (NPT)	MAXIMUM CAPACITY		WEIGHT
				LBS/HR STEAM	SCFM AIR	
2½	16	8⅝	1	1,000	280	55
3	19	10¾	1	1,600	410	65
4	24	14	1½	2,700	700	100
5	26	16	1½	4,000	100	130
6	30	18	1½	6,000	1,700	140
8	36	20	2	10,500	2,900	240
10	42	24	2	16,000	4,500	390
12	48	30	2½	24,000	6,500	550
14	54	36	2½	34,000	8,800	700
16	60	40	3	44,000	11,500	850
18	66	42	3	52,000	14,500	1,175
20	72	48	3	66,000	17,000	1,500
24	84	54	4†	145,000	40,000	1,850
30	102	72	4†	210,000	55,000	2,100
36	112	78	4†	290,000	76,000	4,500
42	130	96	4†	375,000	99,000	6,100

†4" drains are flanged

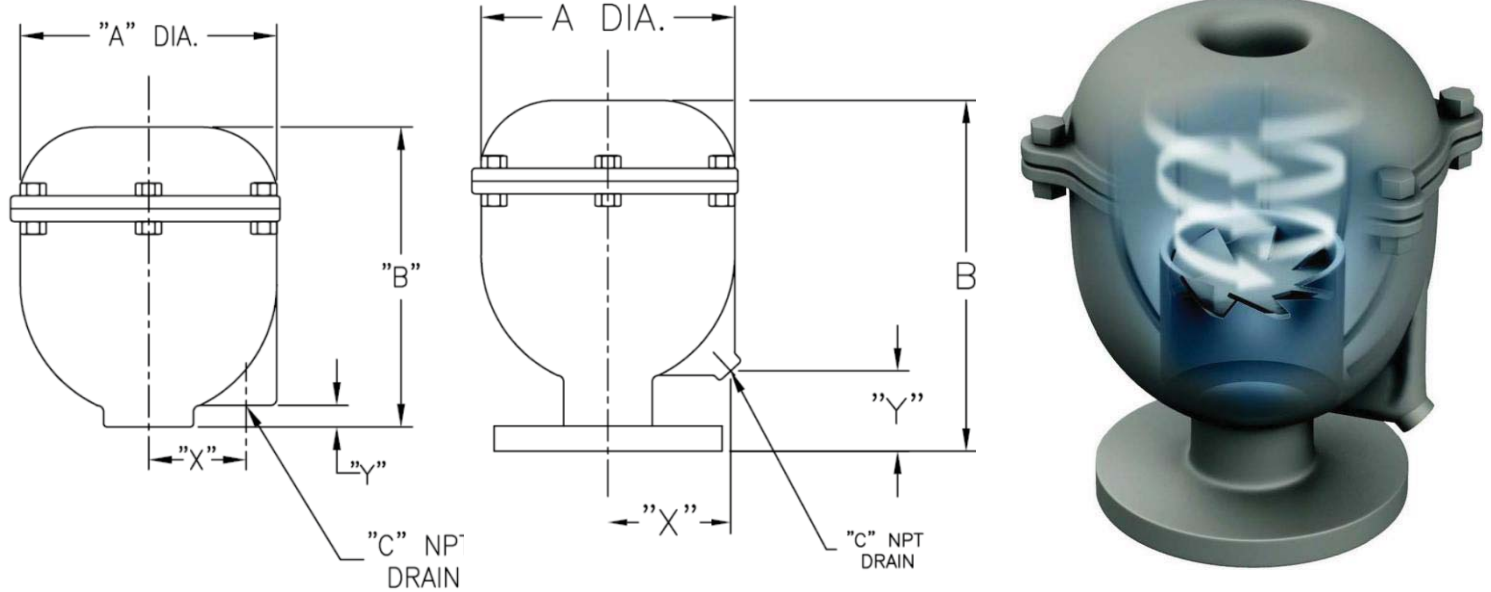
TYPE EH CAST IRON GAS-LIQUID EXHAUST HEADS

An exhaust head is a type of gas/liquid separator designed to be installed at the end of a vent pipe, mixer, vessel or oven. It differs from a gas/liquid separator as it is NOT A PRESSURE VESSEL. The separated liquid is prevented from carry-out and contaminating the surrounding environment. The outlet of an exhaust head is always to atmospheric pressure and thus it cannot be code stamped. Likewise welding specifications/procedures, corrosion allowance and similar design and fabrication criteria related to fabricated pressure vessels does not apply to cast iron exhaust heads.

Often confused with "silencers", exhaust heads are not designed to reduce the sound of vented air/steam/gasses, rather such noise reduction is attributed to the indirect pathway within the exhaust head. Exhaust heads are specifically designed for one purpose, which is separating entrained particles and droplets larger than 10 microns with 99% efficiency while having a maximum separation capacity of 10% of its maximum rated flow capacity. Exhaust heads have a pressure drop of ≤ 0.9 PSI.

Cast iron exhaust heads cannot be customized in any manner.

Exhaust heads have no serviceable/moving components, require zero maintenance.



DIMENSIONS AND WEIGHTS (INCHES/LBS)								
NOZZLE SIZE	A	B	C	X	Y	MAXIMUM CAPACITY		WEIGHT
						LBS/HR STEAM	SCFM AIR	
1	5¼	6⅞	½	1 ¹⁵ / ₁₆	3/16	160	45	11
1½	5¼	6⅞	½	1 ¹⁵ / ₁₆	3/16	370	100	11
2-2½	7½	8⅞	¾	2 ¹³ / ₁₆	3/8	1,000	280	25
3	8¾	11¼	¾	3 ³ / ₁₆	1	2,100	500	40
3 [†]	8¾	14¾	¾	4	4 ¹³ / ₁₆	2,100	500	40
4	10	11⅞	1	3⅞	1	2,700	700	50
4 [†]	10	15	1	4 ³ / ₁₆	4¼	2,700	700	68
5	13	14	1½	6 ⁷ / ₁₆	2½	4,000	1,100	90
6	14¾	18¾	1½	7 ¹ / ₁₆	3 ⁷ / ₁₆	6,000	1,700	115
8	18	20	2	8¼	3⅞	10,500	2,900	190
10	23	24	2	9 ⁹ / ₁₆	4½	16,000	4,500	335

[†] Flanged dimensions