



1-800-263-2303

HEAD OFFICE

2500 Bernard-Lefebvre Street
Laval, Qc, H7C 0A5
T.514.351.2303
F.450.665.2605

MANUFACTURING FACILITY

3025 Kunz Street
Drummondville, Qc, J2C 6Y4
T.819.477.3030
F.819.477.3437

CYCLONE SERIES

HIGH EFFICIENCY CENTRIFUGAL
PARTICULATE SEPARATOR

GENERAL INFORMATION

Cyclones are frequently used as product receivers, as pre-cleaners to dust collectors, or as independent collectors for coarse dusts.

Three cyclone designs are offered in order to best meet the application's requirements. The GP series is designed for economical first cost and is currently used for general purposes. The HE series is tuned to obtain a higher efficiency in more critical applications.

THEORY OF OPERATION

As the dirty air enters the cyclone, it is forced into a swirling motion. This results in a centrifugal force acting on the dust particles suspended in the air stream. The particles, denser than the air, are forced to move outwards, and towards the cyclone wall. They then fall downwards, towards the dust bottom outlet. The clean air is eventually directed towards the center of the cyclone and leaves through the top gas exit.



AIREX FIG.01
INDUSTRIES MULTICYCLONIQUE WITH
PRE-SEPARATOR

HERE ARE SOME OF THE FEATURES AND BENEFITS THAT COME WITH THE CYCLONE SERIES DUST COLLECTOR.

- Stable pressure drop for a given gas flow
- Constant efficiency for a given particulate condition
- No moving parts; no replaceable filters
- Robust construction
- Ability to handle extremely high dust concentrations
- High temperature and pressure capability
- Low capital investment and maintenance costs
- Compact

EFFICIENCY

Efficiency is a function of the physical parameters of the application and the design parameters of the cyclone. Cyclone efficiency increases with:

- Coarse particle size distribution
- Higher products specific gravity Lower gas density
- Low gas density

THE CRITERIA FOR SELECTING A CYCLONE SERIES CENTRIFUGAL PARTICULATE SEPARATORS SYSTEM ARE:

- Air flow (cfm)
- Temperature of the application (F)
- Air Speed at Inlet (fpm)
- Dust quantity entering the cyclone (lbs/hr)
- Particle density and granulometry distribution (lbs/ft³)

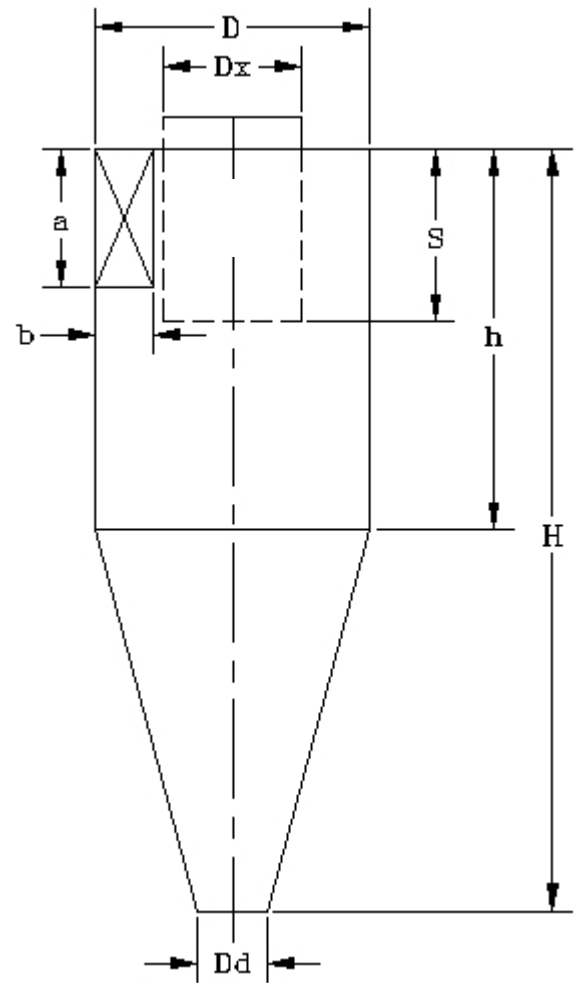
If an overall efficiency is required, a granulometric dust distribution as to be supplied.

INCLUDING THESE OPTIONAL FEATURES, THE CYCLONE SERIES SYSTEM FOR YOUR NEEDS.

- Abrasive wear liners
- Refractory lining
- Baghouse or cartridges dust collectors

TECHNICAL DATA SHEET GP SERIES

MODEL	D	Dx	Dd	H	h	S	a	b
GP-12	12	6	6,0	38	16	7	7	2
GP-14	14	7	7,0	44	19	8	8	3
GP-16	16	8	8,0	51	21	9	9	3
GP-18	18	9	9,0	57	24	10	10	4
GP-20	20	10	10,0	63	27	12	12	4
GP-22	22	11	11,0	70	29	13	13	5
GP-24	24	12	12,0	76	32	14	14	5
GP-26	26	13	13,0	82	35	15	15	5
GP-28	28	14	14,0	89	37	16	16	6
GP-30	30	15	15,0	95	40	17	17	6
GP-32	32	16	16,0	101	43	19	19	7
GP-34	34	17	17,0	108	45	20	20	7
GP-36	36	18	18,0	114	48	21	21	7
GP-38	38	19	19,0	120	51	22	22	8
GP-40	40	20	20,0	127	53	23	23	8
GP-42	42	21	21,0	133	56	24	24	9
GP-44	44	22	22,0	139	59	26	26	9
GP-46	46	23	23,0	146	61	27	27	10
GP-48	48	24	24,0	152	64	28	28	10
GP-50	50	25	25,0	159	67	29	29	10
GP-52	52	26	26,0	165	69	30	30	11
GP-54	54	27	27,0	171	72	31	31	11
GP-56	56	28	28,0	178	74	33	33	12
GP-58	58	29	29,0	184	77	34	34	12
GP-60	60	30	30,0	190	80	35	35	12
GP-62	62	31	31,0	197	82	36	36	13
GP-64	64	32	32,0	203	85	37	37	13
GP-66	66	33	33,0	209	88	38	38	14
GP-68	68	34	34,0	216	90	40	40	14
GP-70	70	35	35,0	222	93	41	41	15
GP-72	72	36	36,0	228	96	42	42	15
GP-74	74	37	37,0	235	98	43	43	15
GP-76	76	38	38,0	241	101	44	44	16
GP-78	78	39	39,0	247	104	45	45	16
GP-80	80	40	40,0	254	106	47	47	17
GP-82	82	41	41,0	260	109	48	48	17
GP-84	84	42	42,0	266	112	49	49	7
GP-86	86	43	43,0	273	114	50	50	18
GP-88	88	44	44,0	279	117	51	51	18
GP-90	90	45	45,0	285	120	52	52	19
GP-92	92	46	46,0	292	122	54	54	19
GP-94	94	47	47,0	298	125	55	55	20
GP-96	96	48	48,0	304	128	56	56	20

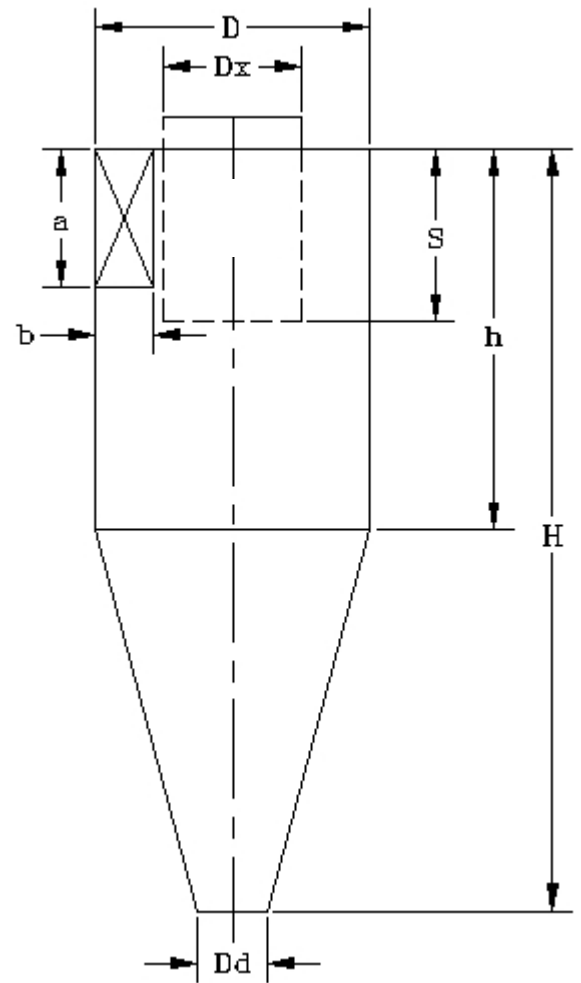


Dimensions in inches

In order to have our product meet the highest technological standards, we reserve the right to modify its specifications without notice.

TECHNICAL DATA SHEET HE SERIES

MODEL	D	Dx	Dd	H	h	S	a	b
HE-12	12	6	4,5	48	18	6	6	2
HE-14	14	7	5,0	56	21	7	7	3
HE-16	16	8	6,0	64	24	8	8	3
HE-18	18	9	7,0	72	27	9	9	4
HE-20	20	10	7,5	80	30	10	10	4
HE-22	22	11	8,0	88	33	11	11	4
HE-24	24	12	9,0	96	36	12	12	5
HE-26	26	13	10,0	104	39	13	13	5
HE-28	28	14	10,5	112	42	14	14	6
HE-30	30	15	11,0	120	45	15	15	6
HE-32	32	16	12,0	128	48	16	16	6
HE-34	34	17	13,0	136	51	17	17	7
HE-36	36	18	13,5	144	54	18	18	7
HE-38	38	19	14,0	152	57	19	19	8
HE-40	40	20	15,0	160	60	20	20	8
HE-42	42	21	16,0	168	63	21	21	8
HE-44	44	22	16,5	176	66	22	22	9
HE-46	46	23	17,0	184	69	23	23	9
HE-48	48	24	18,0	192	72	24	24	10
HE-50	50	25	19,0	200	75	25	25	10
HE-52	52	26	19,5	208	78	26	26	10
HE-54	54	27	20,0	216	81	27	27	11
HE-56	56	28	21,0	224	84	28	28	11
HE-58	58	29	22,0	232	87	29	29	12
HE-60	60	30	22,5	240	90	30	30	12
HE-62	62	31	23,0	248	93	31	31	12
HE-64	64	32	24,0	256	96	32	32	13
HE-66	66	33	25,0	264	99	33	33	13
HE-68	68	34	25,5	272	102	34	34	14
HE-70	70	35	26,0	280	105	35	35	14
HE-72	72	36	27,0	288	108	36	36	14
HE-74	74	37	28,0	296	111	37	37	15
HE-76	76	38	28,5	304	114	38	38	15
HE-78	78	39	29,0	312	117	39	39	16
HE-80	80	40	30,0	320	120	40	40	16
HE-82	82	41	31,0	328	123	41	41	16
HE-84	84	42	31,5	336	126	42	42	17
HE-86	86	43	32,0	344	129	43	43	17
HE-88	88	44	33,0	352	132	44	44	18
HE-90	90	45	34,0	360	135	45	45	18
HE-92	92	46	34,5	368	138	46	46	18
HE-94	94	47	35,0	376	141	47	47	19
HE-96	96	48	36,0	384	144	48	48	19



Dimensions in inches

In order to have our product meet the highest technological standards, we reserve the right to modify its specifications without notice.