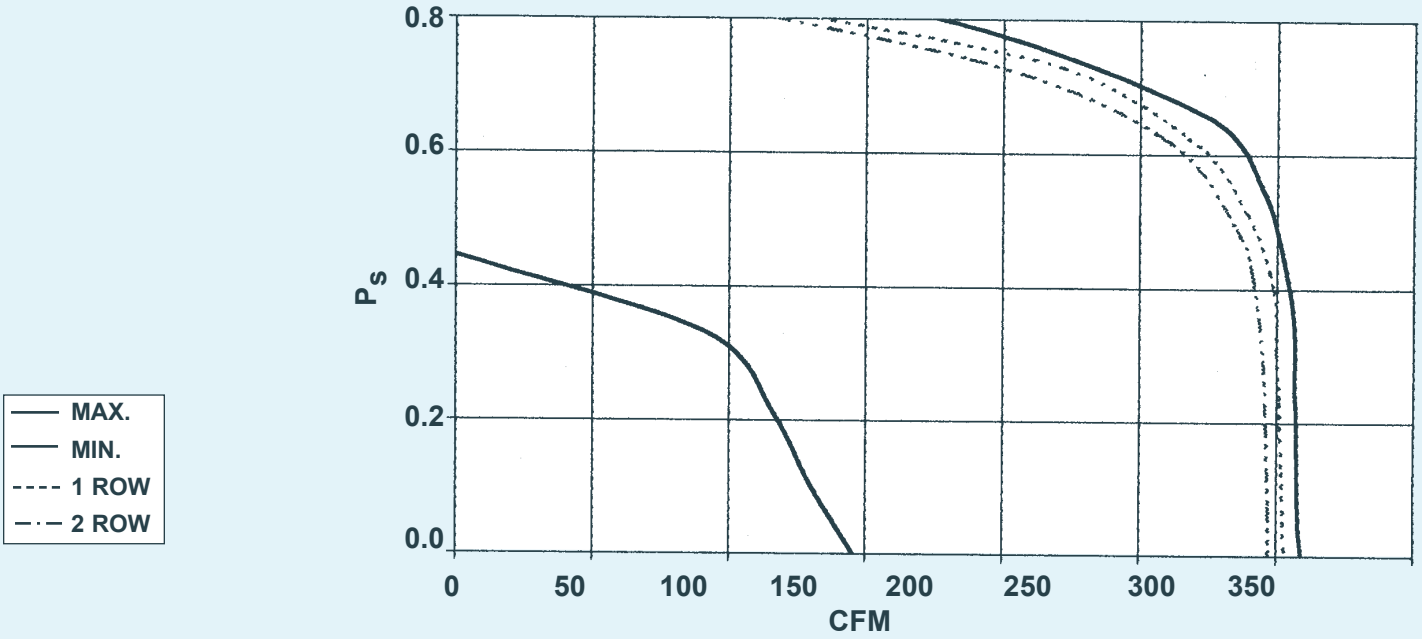
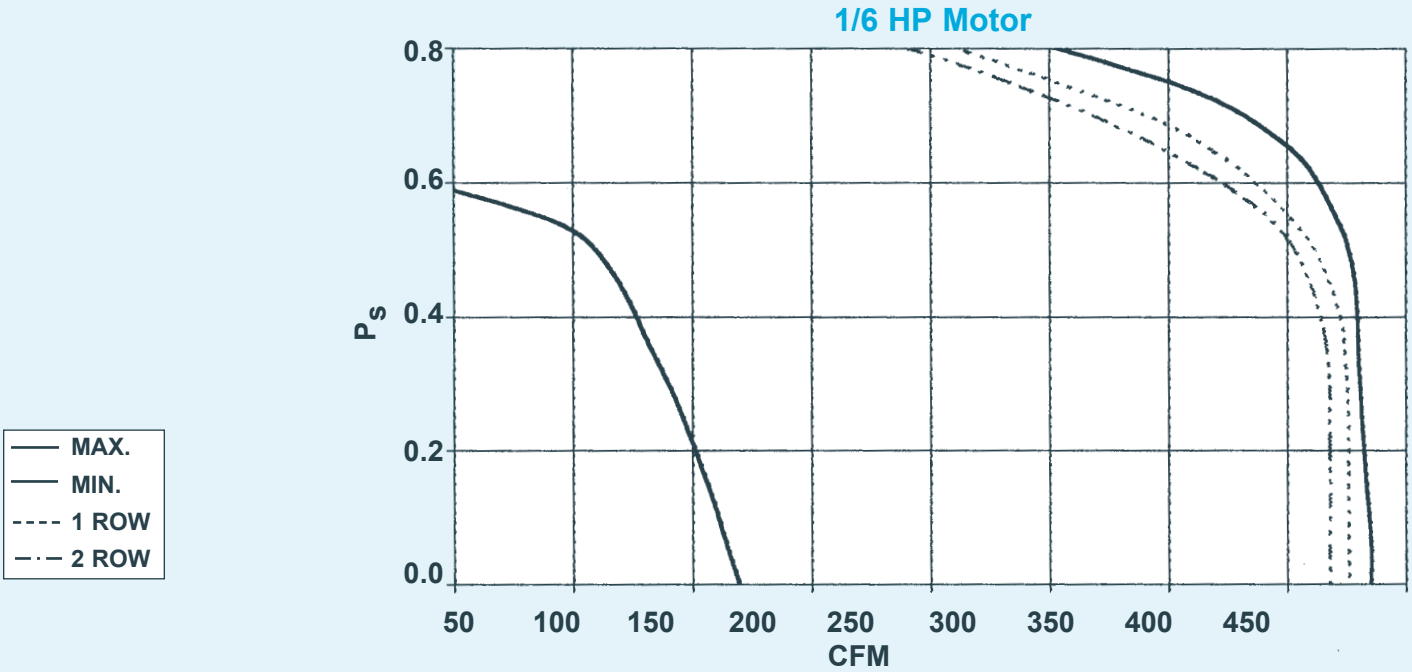
FAN CURVES
CFM vs EXTERNAL STATIC PRESSURE

FAN SIZE A — AC 05
1/6 HP Motor



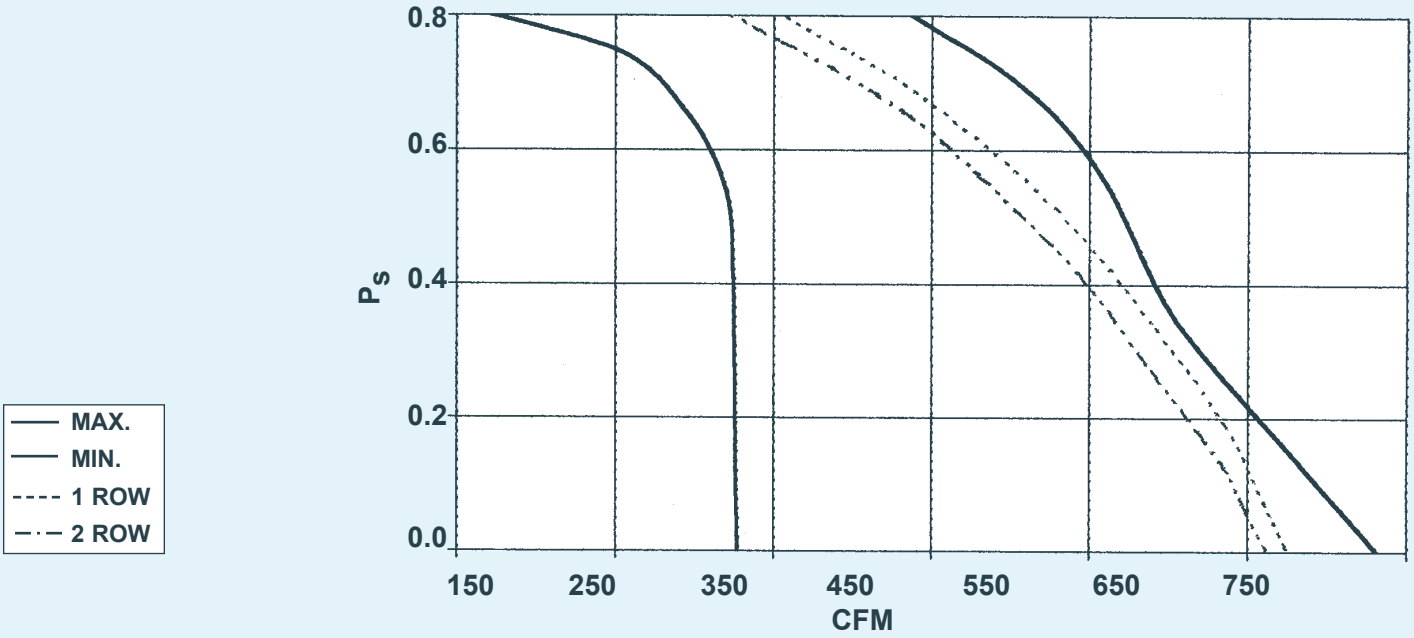
FAN SIZE B — AC 06
1/6 HP Motor



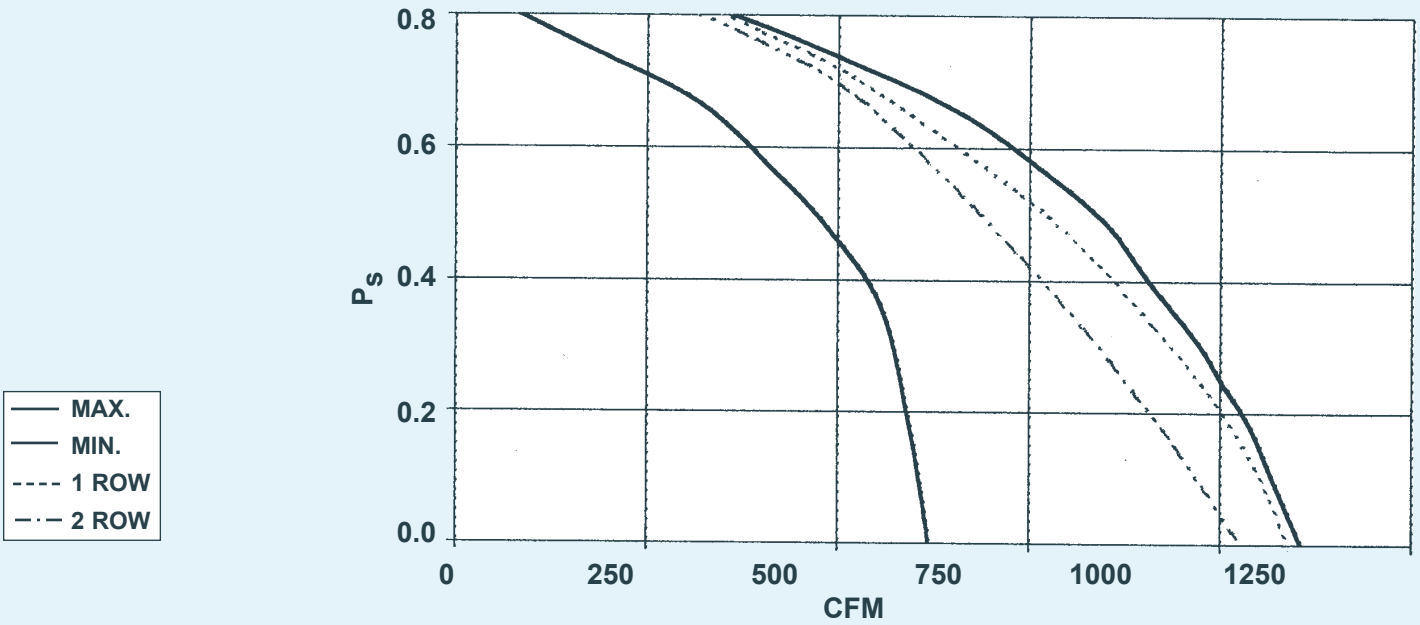
NOTES:
1. External static pressure (ESP) consists of down stream duct work, coils, flex duct, etc.
2. Pressure drop due to heating coils are treated as external static pressure
3. **For proper operation, the downstream ESP must be at least 0.20" W.G.**

FAN CURVES
CFM vs EXTERNAL STATIC PRESSURE

FAN SIZE C — AC 07
1/6 HP Motor



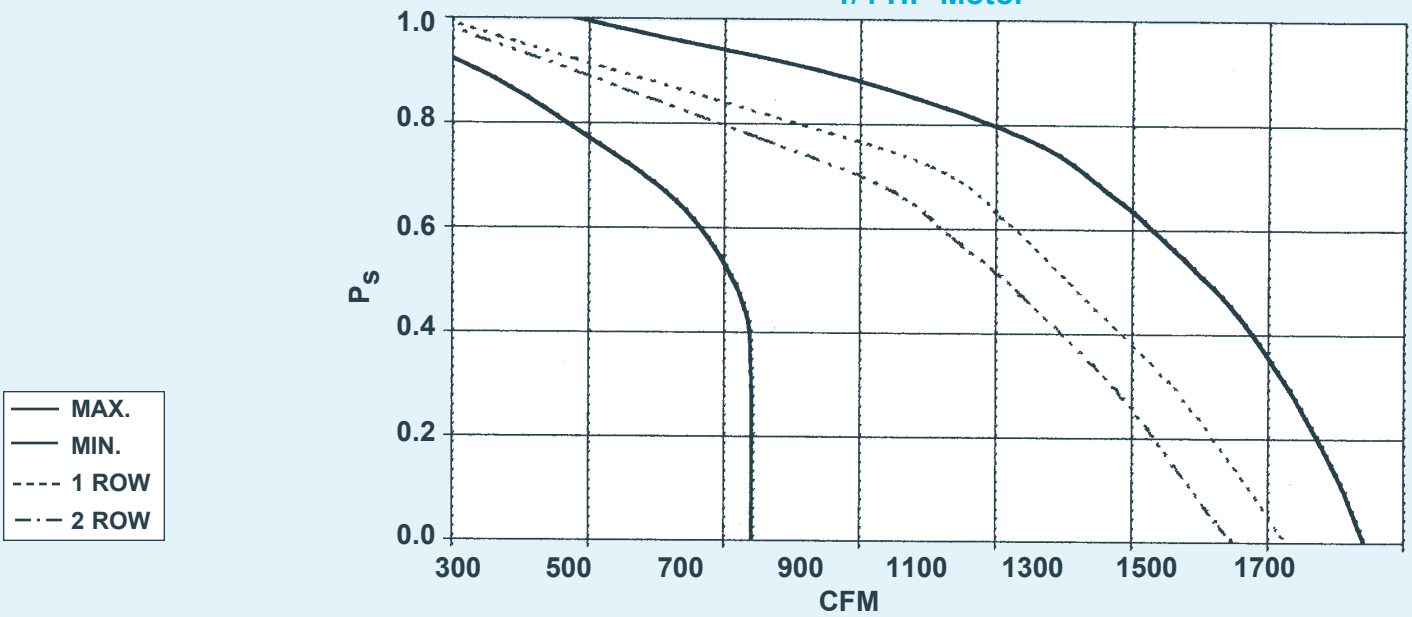
FAN SIZE D — AC 08
1/4 HP Motor



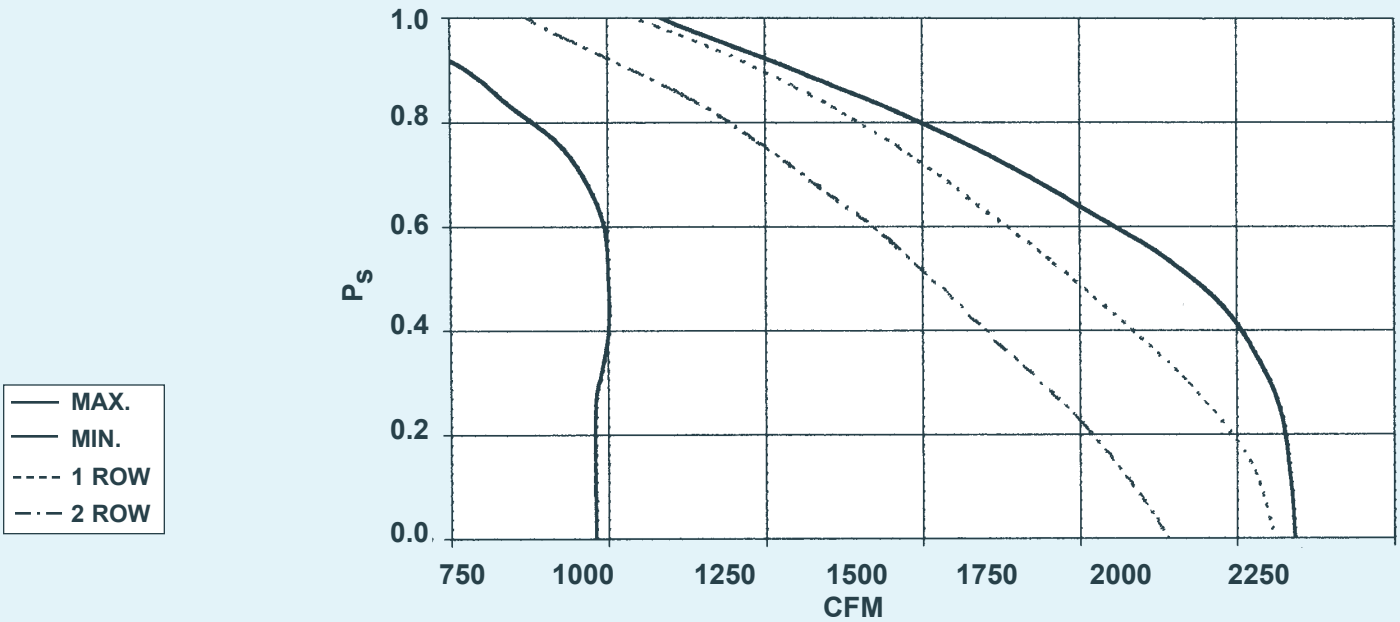
NOTES:
1. External static pressure (ESP) consists of down stream duct work, coils, flex duct, etc.
2. Pressure drop due to heating coils are treated as external static pressure
3. **For proper operation, the downstream ESP must be at least 0.20" W.G.**

FAN CURVES
CFM vs EXTERNAL STATIC PRESSURE

FAN SIZE E — AC 10
1/4 HP Motor

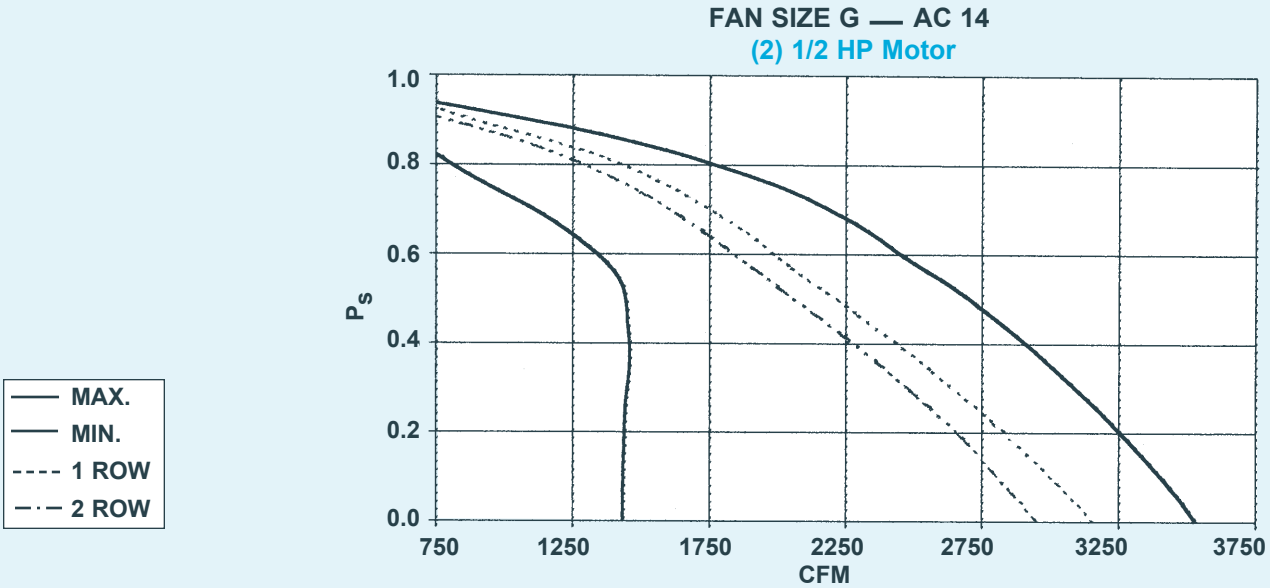


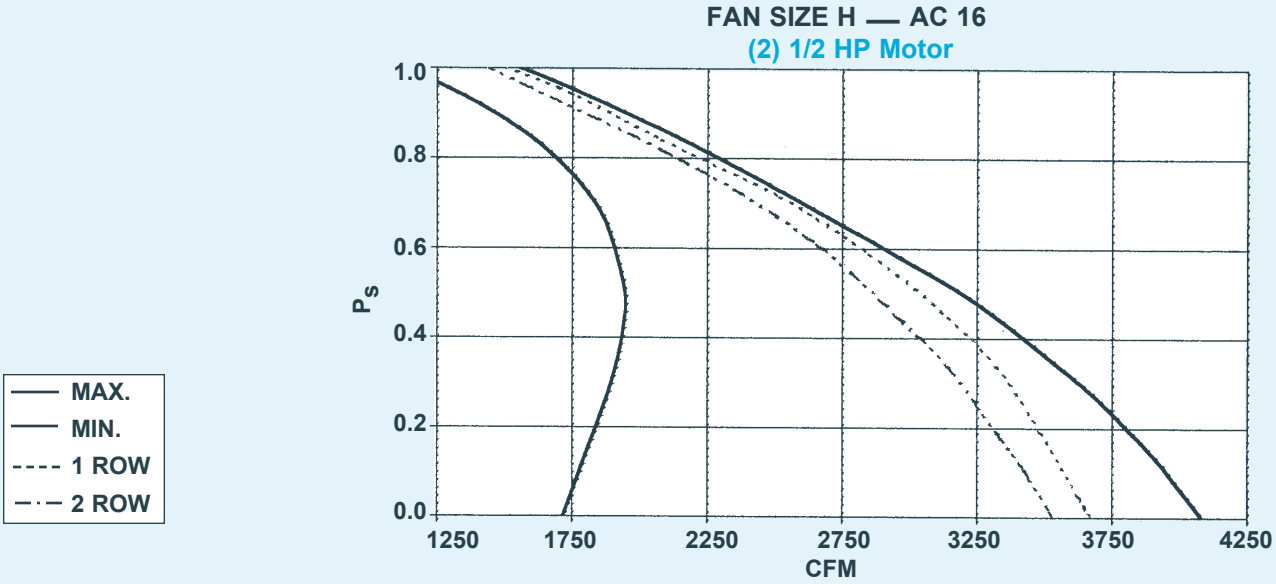
FAN SIZE F — AC 12
1/2 HP Motor



NOTES:
1. External static pressure (ESP) consists of down stream duct work, coils, flex duct, etc.
2. Pressure drop due to heating coils are treated as external static pressure
3. **For proper operation, the downstream ESP must be at least 0.20" W.G.**

FAN CURVES
CFM vs EXTERNAL STATIC PRESSURE





NOTES:
1. External static pressure (ESP) consists of down stream duct work, coils, flex duct, etc.
2. Pressure drop due to heating coils are treated as external static pressure
3. **For proper operation, the downstream ESP must be at least 0.20" W.G.**

PERFORMANCE DATA – Constant Volume (Series Flow), Standard Design

Model AC_H 05A

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air ΔPs	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
300/0	.28	63	56	54	51	47	42	14	60	53	46	41	37	34	22
	.50	63	56	54	51	47	42	14	61	56	47	43	38	35	24
	1.00	64	57	54	52	48	43	15	62	57	48	44	40	37	25
	1.50	66	59	56	53	50	44	18	63	57	50	46	43	40	26
	3.00	68	60	59	55	52	47	20	63	60	53	49	47	44	29
150/150	.50	59	52	52	49	46	42	13	58	50	44	41	36	32	19
	1.00	60	53	53	50	47	43	14	59	51	45	42	39	36	20
	1.50	60	54	53	51	48	43	14	59	52	45	43	41	40	20
	3.00	62	56	55	51	48	43	17	59	53	46	46	46	47	21
0/300	--	59	51	52	46	42	36	--	57	49	42	39	33	29	18
200/0	.07	54	49	47	43	37	31	--	51	44	39	34	25	23	12
	.50	55	49	48	44	38	34	--	56	48	41	37	31	26	17
	1.00	57	51	50	46	40	35	10	56	51	39	40	36	32	18
	1.50	59	52	51	48	41	36	13	56	51	46	42	41	39	20
	3.00	62	55	54	50	45	39	17	57	54	48	46	46	47	22
100/100	.50	51	47	46	41	36	31	--	53	45	40	36	31	26	13
	1.00	52	47	47	42	37	32	--	52	45	41	37	35	32	14
	1.50	53	48	47	43	36	32	--	52	45	42	39	39	38	15
	3.00	54	49	48	43	38	34	--	52	45	43	43	46	46	16
0/200	--	51	45	43	39	34	29	--	50	42	38	33	24	23	11
100/0	.03	43	36	35	29	23	23	--	46	39	36	33	25	23	--
	.50	46	40	39	32	25	25	--	46	40	36	33	28	25	--
	1.00	49	42	42	34	26	25	--	44	41	38	34	34	32	11
	1.50	50	42	42	35	28	26	--	44	42	39	37	38	38	12
	3.00	51	43	45	38	33	29	--	44	43	41	42	46	46	16
. 50/50	.50	45	36	36	30	25	25	--	46	39	36	31	26	25	--
	1.00	45	37	36	30	25	25	--	46	39	36	33	34	32	--
	1.50	45	38	36	30	25	26	--	44	39	37	36	39	39	10
	3.00	45	38	38	31	29	29	--	46	39	37	41	47	53	20
0/100	--	42	35	33	27	23	23	--	46	39	36	33	25	23	--

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
3. *Δ Ps does not include hot water or electric coils.*
4. *(--) indicates NC levels less than 10.*

NC Levels are derived from tests conducted in accordance with ARI Standard 880-98 and are calculated in accordance with ARI Standard 885-98 as application data based on the following:

Discharge NC levels are based on —
- a) 5 foot rectangular 12" x 12" duct lined with 1" fiberglass insulation.
- b) 6 foot lined flex duct (8" diameter).
- c) Maximum of 300 CFM per outlet.
- d) Space effect factor (5000ft^3) at 10 feet from outlet.
- e) End reflection.
- f) Environmental adjustment factor.

Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
- b) Space effect factor (5000ft^3) at 10 feet from source.
- c) Environmental adjustment factor.

ARI PERFORMANCE CERTIFIED™
ARI Standard 880

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CARNES®

Model AC_H 06B

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air ΔPs	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
430/0	.23	69	61	59	56	55	50	22	66	60	49	45	41	38	30
	.50	67	60	58	56	55	51	19	68	62	50	47	43	42	32
	1.00	68	62	59	56	56	52	20	68	63	52	48	43	42	33
	1.50	70	64	61	58	57	53	23	68	64	54	49	45	44	34
	3.00	72	66	63	60	59	56	26	69	65	57	53	50	50	35
215/215	.50	65	59	58	55	54	51	20	61	56	47	44	40	39	24
	1.00	66	59	58	56	55	51	22	62	56	48	45	41	41	24
	1.50	66	59	58	56	55	51	22	62	57	49	46	44	43	25
	3.00	67	61	59	57	57	53	23	63	58	52	50	48	49	27
0/430	--	67	59	58	55	53	49	19	62	55	46	42	37	37	24
270/0	.09	57	50	49	47	42	36	10	56	49	41	38	32	30	17
	.50	59	52	51	48	43	38	13	58	52	43	41	39	37	19
	1.00	60	54	53	50	46	41	14	60	54	46	42	38	37	22
	1.50	62	55	54	51	47	42	17	60	56	49	44	42	41	24
	3.00	63	57	55	52	50	44	18	60	58	53	49	48	49	27
135/135	.50	55	50	51	47	43	38	--	57	49	42	39	34	33	18
	1.00	56	50	51	47	43	39	--	57	50	44	40	37	37	18
	1.50	57	50	51	48	44	39	10	57	50	45	42	40	41	19
	3.00	58	51	52	49	45	40	11	57	51	46	45	46	47	20
0/270	--	56	49	48	44	39	34	--	55	47	41	36	31	30	15
145/0	.03	45	39	38	33	25	25	--	46	39	31	25	22	24	--
	.50	49	42	42	37	29	25	--	48	43	37	33	28	27	10
	1.00	50	44	44	39	32	26	--	49	46	42	37	35	36	15
	1.50	51	46	45	40	32	26	--	49	48	44	40	39	40	18
	3.00	52	48	47	42	35	29	--	49	49	47	45	46	47	21
73/73	.50	45	40	40	33	26	25	--	47	41	37	30	25	27	10
	1.00	45	41	41	34	28	25	--	47	41	39	34	33	33	12
	1.50	46	41	41	35	28	26	--	47	42	39	38	38	39	12
	3.00	48	42	43	36	32	28	--	48	43	42	43	46	50	17
0/145	--	45	39	37	31	28	28	--	47	41	31	26	22	24	--

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
3. *Δ Ps does not include hot water or electric coils.*
4. *(--) indicates NC levels less than 10.*

NC Levels are derived from tests conducted in accordance with ARI Standard 880-98 and are calculated in accordance with ARI Standard 885-98 as application data based on the following:

Discharge NC levels are based on —
- a) 5 foot rectangular 12" x 12" duct lined with 1" fiberglass insulation.
- b) 6 foot lined flex duct (8" diameter).
- c) Maximum of 300 CFM per outlet.
- d) Space effect factor (5000ft^3) at 10 feet from outlet.
- e) End reflection.
- f) Environmental adjustment factor.

Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
- b) Space effect factor (5000ft^3) at 10 feet from source.
- c) Environmental adjustment factor.

ARI Standard 880

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FAN POWERED UNITS

Model AC_H 07C

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air ΔPs	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
630/0	.21	77	71	67	65	65	62	32	73	66	55	53	48	47	39
	.50	77	71	68	65	66	64	32	74	69	57	55	50	48	40
	1.00	79	72	69	66	67	65	35	74	69	59	55	51	49	40
	1.50	80	73	70	67	67	66	36	76	71	60	56	51	50	43
	3.00	81	74	71	68	68	66	37	76	71	62	59	54	53	43
315/315	.50	77	70	67	66	65	63	32	72	66	55	54	49	48	37
	1.00	77	70	67	67	65	63	32	72	66	56	54	49	48	37
	1.50	77	70	67	67	66	64	32	72	67	57	54	50	49	37
	3.00	77	70	67	67	66	65	32	72	68	59	56	52	52	38
0/630	--	79	71	67	66	64	62	35	74	68	56	54	49	48	40
480/0	.11	70	62	60	57	57	53	23	69	61	51	48	43	40	33
	.50	70	63	61	57	57	54	23	69	63	52	49	44	42	33
	1.00	71	65	62	59	58	56	24	68	64	54	49	45	43	34
	1.50	73	66	63	60	60	58	27	70	64	56	52	48	46	35
	3.00	75	68	65	61	61	59	30	69	66	59	56	52	51	36
240/240	.50	69	62	61	58	58	55	26	65	60	50	47	43	41	29
	1.00	69	62	61	58	58	55	26	66	61	51	48	45	43	30
	1.50	69	62	61	58	58	55	26	66	61	53	49	46	45	30
	3.00	69	63	61	58	58	56	26	66	61	55	53	50	50	30
0/480	--	70	62	60	57	56	53	23	67	60	50	46	42	40	31
320/0	.06	59	52	52	48	44	39	--	59	51	45	40	34	30	20
	.50	61	54	53	49	46	44	11	60	53	46	42	38	35	22
	1.00	63	56	55	52	49	45	14	61	55	49	45	41	39	23
	1.50	64	57	56	52	50	47	15	61	58	51	47	44	44	27
	3.00	65	60	57	54	52	48	17	62	60	56	53	50	49	31
160/160	.50	58	52	52	49	46	42	11	58	51	45	41	37	35	19
	1.00	58	53	52	49	46	42	11	59	52	47	43	40	39	21
	1.50	59	53	53	49	47	43	13	59	53	48	45	42	43	22
	3.00	60	53	54	50	48	43	14	59	54	49	48	48	50	23
0/320	--	59	52	52	47	44	39	--	57	50	46	39	34	32	20

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
3. *Δ Ps does not include hot water or electric coils.*
4. *(--) indicates NC levels less than 10.*

NC Levels are derived from tests conducted in accordance with ARI Standard 880-98 and are calculated in accordance with ARI Standard 885-98 as application data based on the following:

Discharge NC levels are based on —
- a) 5 foot rectangular 12" x 12" duct lined with 1" fiberglass insulation.
- b) 6 foot lined flex duct (8" diameter).
- c) Maximum of 300 CFM per outlet.
- d) Space effect factor (5000ft^3) at 10 feet from outlet.
- e) End reflection.
- f) Environmental adjustment factor.

Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
- b) Space effect factor (5000ft^3) at 10 feet from source.
- c) Environmental adjustment factor.

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Model AC_H 08D

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air ΔPs	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
995/0	.20	76	73	71	72	71	69	32	71	69	62	57	51	49	40
	.50	78	75	72	72	71	69	34	74	71	63	58	51	49	42
	1.00	78	75	72	72	71	69	36	75	73	64	58	52	50	44
	1.50	82	77	74	73	72	70	36	75	74	65	59	53	51	46
	3.00	82	78	75	73	72	70	37	77	75	66	61	55	53	47
498/498	.50	73	70	69	69	68	66	30	69	67	59	54	47	46	37
	1.00	74	71	69	70	68	67	30	69	67	59	54	48	47	37
	1.50	76	72	70	70	68	67	31	70	68	60	55	49	48	38
	3.00	77	73	70	70	69	67	33	71	69	62	58	52	52	40
0/995	--	72	69	66	67	66	63	27	67	65	56	52	46	45	35
800/0	.14	69	65	64	65	63	60	24	64	62	57	52	46	43	32
	.50	73	70	67	67	65	62	28	69	66	58	52	46	43	36
	1.00	74	70	67	67	65	62	28	70	68	60	54	47	44	38
	1.50	75	71	68	67	66	63	29	71	69	61	55	49	46	40
	3.00	77	73	69	68	67	65	31	73	71	64	59	52	51	42
400/400	.50	70	65	64	64	62	60	24	65	61	55	49	43	42	30
	1.00	71	66	64	65	63	61	25	65	62	56	50	44	43	31
	1.50	71	66	64	65	63	61	25	65	63	57	51	46	45	33
	3.00	72	67	65	65	63	61	26	67	64	59	55	50	50	34
0/800	--	67	64	63	62	61	58	22	64	59	53	47	42	41	28
600/0	.08	62	57	58	58	55	51	15	58	56	52	46	39	34	26
	.50	68	63	61	60	57	54	21	64	59	53	47	40	36	28
	1.00	69	64	61	61	59	55	22	65	63	55	49	42	39	33
	1.50	70	66	63	62	60	57	24	67	63	57	51	45	42	33
	3.00	72	68	64	63	61	57	27	68	66	61	56	50	49	36
300/300	.50	63	59	58	58	56	53	17	59	56	50	44	38	35	24
	1.00	64	59	59	58	56	53	17	60	57	51	45	40	38	25
	1.50	65	61	59	58	56	53	18	60	57	53	48	43	41	27
	3.00	66	62	60	59	57	54	19	62	60	55	53	49	48	30
0/600	--	62	57	57	56	54	51	15	59	54	49	43	36	34	23

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
3. *Δ Ps does not include hot water or electric coils.*
4. *(--) indicates NC levels less than 10.*

NC Levels are derived from tests conducted in accordance with ARI Standard 880-98 and are calculated in accordance with ARI Standard 885-98 as application data based on the following:

Discharge NC levels are based on —
- a) 5 foot rectangular 12" x 12" duct lined with 1" fiberglass insulation.
- b) 6 foot lined flex duct (8" diameter).
- c) Maximum of 300 CFM per outlet.
- d) Space effect factor (5000ft^3) at 10 feet from outlet.
- e) End reflection.
- f) Environmental adjustment factor.

Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
- b) Space effect factor (5000ft^3) at 10 feet from source.
- c) Environmental adjustment factor.

ARI Standard 880

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FAN POWERED UNITS

Model AC_H 10E

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air Δ Ps	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
1550/0	.17	76	72	72	71	68	68	31	72	70	62	57	54	53	41
	.50	77	73	72	73	70	70	33	74	71	62	59	55	54	42
	1.00	77	73	72	74	71	71	34	75	71	63	59	56	54	42
	1.50	78	73	73	74	72	72	35	76	72	64	60	57	56	43
	3.00	79	75	73	74	73	73	36	79	75	67	63	59	57	47
775/775	.50	75	71	71	72	68	68	31	71	67	60	57	53	52	37
	1.00	75	71	71	72	68	68	31	71	67	60	57	53	52	37
	1.50	75	71	71	72	69	69	32	72	68	61	58	54	53	38
	3.00	75	71	71	72	69	69	32	73	70	54	61	57	55	41
0/1550	--	73	70	70	70	66	66	30	70	68	59	56	53	51	38
1300/0	.12	72	68	68	67	64	64	28	69	65	58	54	50	48	35
	.50	73	69	69	70	66	67	30	71	67	59	56	51	50	37
	1.00	73	69	70	71	67	68	31	72	68	60	57	53	51	38
	1.50	75	70	70	71	68	68	31	73	69	61	58	54	52	40
	3.00	77	71	71	72	69	69	32	76	72	65	61	57	55	43
650/650	.50	71	67	68	68	65	65	29	68	64	57	54	50	48	34
	1.00	71	67	68	68	65	65	29	69	65	58	55	51	49	35
	1.50	71	67	69	68	65	65	29	68	65	59	55	52	49	35
	3.00	72	67	69	68	65	65	29	69	67	63	59	55	52	38
0/1300	--	68	65	67	65	63	62	26	67	64	56	53	50	47	34
1000/0	.07	65	62	63	61	59	57	21	64	59	53	49	45	42	28
	.50	68	63	65	64	61	61	25	66	61	55	51	48	45	30
	1.00	69	64	65	66	62	62	26	67	63	57	53	49	47	33
	1.50	69	64	66	66	63	63	27	68	64	59	55	50	48	34
	3.00	71	67	67	67	64	64	28	72	69	63	59	55	53	40
500/500	.50	66	62	64	63	60	59	23	64	59	54	50	46	43	28
	1.00	66	62	64	63	60	59	23	65	60	55	51	47	44	30
	1.50	66	62	64	63	60	59	23	65	62	57	53	49	46	32
	3.00	66	63	65	64	60	60	24	65	63	61	58	53	50	36
0/1000	--	65	61	62	61	58	56	20	63	58	54	49	45	42	28

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
3. *Δ Ps does not include hot water or electric coils.*
4. *(--) indicates NC levels less than 10.*

NC Levels are derived from tests conducted in accordance with ARI Standard 880-98 and are calculated in accordance with ARI Standard 885-98 as application data based on the following:

Discharge NC levels are based on —
- a) 5 foot rectangular 12" x 12" duct lined with 1" fiberglass insulation.
- b) 6 foot lined flex duct (8" diameter).
- c) Maximum of 300 CFM per outlet.
- d) Space effect factor (5000ft^3) at 10 feet from outlet.
- e) End reflection.
- f) Environmental adjustment factor.

Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
- b) Space effect factor (5000ft^3) at 10 feet from source.
- c) Environmental adjustment factor.

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ARI Standard 880

A participating Member in the ARI 880 Certification Program

Model AC_H 12F

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air Δ Ps	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
2050/0	.15	81	78	76	77	74	75	38	76	75	65	60	57	56	47
	.50	81	78	77	78	76	76	39	76	75	65	61	57	57	47
	1.00	82	78	77	78	76	76	39	76	75	66	62	58	57	47
	1.50	83	79	78	79	78	77	40	78	77	67	66	60	58	49
	3.00	84	81	78	80	78	78	41	81	80	71	67	63	60	53
1025/1025	.50	79	76	75	77	74	74	37	72	73	63	60	56	55	44
	1.00	80	77	75	77	74	75	38	74	73	64	61	56	55	44
	1.50	80	78	76	78	75	75	38	74	74	64	61	57	56	46
	3.00	81	78	76	78	75	75	38	76	76	67	64	59	57	48
0/2050	--	79	77	74	76	73	72	36	74	74	63	59	55	54	46
1500/0	.09	71	67	67	66	62	63	27	67	65	56	52	47	46	35
	.50	72	67	68	68	64	65	29	68	66	58	55	49	47	36
	1.00	75	70	70	71	67	67	30	71	69	61	57	52	50	40
	1.50	77	71	71	71	68	69	32	73	71	63	59	54	51	42
	3.00	78	73	72	72	69	69	32	76	75	68	64	58	55	47
750/750	.50	74	71	71	71	67	68	29	68	66	56	53	48	46	36
	1.00	74	71	71	71	67	68	30	69	67	58	54	49	48	37
	1.50	75	71	71	71	67	68	30	69	68	60	55	51	49	38
	3.00	75	72	72	72	69	69	30	69	69	63	60	55	53	40
0/1500	--	75	72	71	70	68	68	27	69	66	57	52	48	47	36
1100/0	.05	64	60	61	59	56	55	19	62	59	51	46	42	40	28
	.50	67	62	64	64	60	60	24	64	62	54	50	46	44	31
	1.00	70	64	65	64	61	61	25	66	65	57	53	48	46	35
	1.50	71	65	66	65	62	62	26	68	67	59	57	51	48	37
	3.00	74	68	68	67	63	64	28	71	71	65	61	56	53	42
550/550	.50	66	61	62	61	57	57	21	64	62	54	49	44	42	31
	1.00	66	62	62	61	58	58	22	65	63	56	52	47	45	33
	1.50	66	61	62	61	57	57	21	67	65	59	55	50	47	35
	3.00	67	62	64	62	59	59	23	69	69	64	60	55	52	40
0/1100	--	65	61	61	60	56	56	20	63	59	52	46	41	40	28

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
3. *Δ Ps does not include hot water or electric coils.*
4. *(--) indicates NC levels less than 10.*

NC Levels are derived from tests conducted in accordance with ARI Standard 880-98 and are calculated in accordance with ARI Standard 885-98 as application data based on the following:

Discharge NC levels are based on —
- a) 5 foot rectangular 12" x 12" duct lined with 1" fiberglass insulation.
- b) 6 foot lined flex duct (8" diameter).
- c) Maximum of 300 CFM per outlet.
- d) Space effect factor (5000ft^3) at 10 feet from outlet.
- e) End reflection.
- f) Environmental adjustment factor.

Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
- b) Space effect factor (5000ft^3) at 10 feet from source.
- c) Environmental adjustment factor.

ARI Standard 880

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FAN POWERED UNITS

PERFORMANCE DATA – Constant Volume (Series Flow), Standard Design

Model AC_H 14G

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air Δ Ps	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
3150/0	.28	82	80	78	80	77	76	40	82	76	68	66	62	60	50
	.50	84	83	80	82	80	79	43	84	78	70	68	64	63	53
	1.00	86	85	81	82	80	80	46	87	80	71	68	65	63	57
	1.50	87	86	81	83	81	81	47	88	81	72	69	66	64	58
	3.00	89	88	82	84	84	84	49	90	85	76	72	68	67	61
1575/1575	.50	79	79	76	79	76	76	39	80	74	66	64	61	59	48
	1.00	81	80	77	79	77	76	40	81	75	67	65	61	60	49
	1.50	81	80	77	79	78	77	40	82	76	68	66	62	60	50
	3.00	82	81	78	80	79	78	41	83	77	71	67	63	61	52
0/3150	--	77	75	74	76	73	72	35	84	78	70	67	63	62	53
2400/0	.13	82	78	75	76	74	73	37	77	72	64	62	60	57	44
	.50	82	80	77	78	77	76	40	80	76	66	63	61	58	48
	1.00	84	82	78	79	79	77	42	79	76	68	64	61	59	48
	1.50	86	83	78	80	80	79	43	81	77	69	65	62	59	49
	3.00	89	85	79	81	82	80	46	84	79	72	66	63	60	53
1200/1200	.50	79	77	75	76	75	74	37	76	71	64	61	58	56	43
	1.00	79	77	75	77	75	74	37	76	73	64	61	59	57	44
	1.50	80	77	75	77	75	74	37	76	73	65	62	59	57	44
	3.00	81	77	75	77	75	74	37	77	73	68	64	60	58	44
0/2400	--	76	74	72	74	71	70	33	74	70	61	59	58	56	41
1800/0	.19	74	71	71	70	69	67	30	71	66	60	57	55	52	36
	.50	77	75	73	75	73	71	34	76	70	63	59	56	53	43
	1.00	78	77	73	75	74	72	36	77	72	64	60	57	54	44
	1.50	79	77	73	75	74	72	36	78	73	65	61	58	55	45
	3.00	80	77	75	77	75	74	37	80	76	69	64	59	56	48
900/900	.50	73	71	71	72	70	69	32	72	67	60	58	55	52	37
	1.00	77	74	71	72	71	69	33	73	67	62	58	55	52	39
	1.50	77	74	71	72	71	69	33	73	67	62	59	55	52	39
	3.00	78	74	72	73	71	70	33	74	69	64	62	56	53	40
0/1800	--	72	72	70	71	69	67	30	71	65	59	57	55	52	36

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
3. *Δ Ps does not include hot water or electric coils.*
4. *(--) indicates NC levels less than 10.*

NC Levels are derived from tests conducted in accordance with ARI Standard 880-98 and are calculated in accordance with ARI Standard 885-98 as application data based on the following:

Discharge NC levels are based on —
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- b) 6 foot lined flex duct (8" diameter).
- c) Maximum of 300 CFM per outlet.
- d) Space effect factor (5000ft^3) at 10 feet from outlet.
- e) End reflection.
- f) Environmental adjustment factor.

Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
- b) Space effect factor (5000ft^3) at 10 feet from source.
- c) Environmental adjustment factor.

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ARI Standard 880

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CARNES®

Model AC_H 16H

(FAN ON — 100% Primary Air/Mixing/100% Secondary Air)

Primary/ Secondary CFM	Primary Air Δ Ps	Discharge Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC	Radiated Sound Sound Power db Octave Band 2	3	4	5	6	7	Max. NC
3700/0	.40	82	81	79	81	78	77	41	83	78	70	67	64	61	52
	.50	87	85	80	81	79	78	46	83	81	71	68	64	63	54
	1.00	87	86	81	83	80	80	47	86	84	72	68	65	63	58
	1.50	88	86	81	83	80	80	47	87	85	73	69	65	64	59
	3.00	89	88	83	84	82	81	49	90	87	77	72	67	66	61
1850/1850	.50	83	82	79	81	77	77	42	80	78	68	66	62	61	50
	1.00	83	82	79	81	78	77	42	82	78	69	66	62	61	50
	1.50	83	83	79	81	78	77	43	82	79	70	67	63	62	52
	3.00	85	84	80	81	78	78	44	82	80	73	68	64	63	53
0/3700	--	81	79	77	79	76	75	38	78	75	66	64	61	59	47
2800/0	.26	71	76	69	67	64	62	35	75	72	64	59	55	53	43
	.50	76	77	72	71	68	66	36	77	75	66	61	57	55	47
	1.00	78	77	73	73	70	68	36	80	76	68	63	59	56	48
	1.50	80	79	74	74	71	69	38	81	78	70	64	60	57	50
	3.00	85	84	77	77	75	72	44	85	82	74	68	63	60	55
1400/1400	.50	73	73	71	70	67	65	31	74	71	63	59	56	54	42
	1.00	77	74	72	71	68	66	33	76	73	64	60	57	55	44
	1.50	77	75	72	71	68	67	34	77	74	65	61	58	56	46
	3.00	80	76	73	72	70	68	35	78	75	69	65	59	57	47
0/2800	--	71	70	70	70	67	65	29	77	71	62	60	57	55	44
1800/0	.16	69	72	69	67	64	62	30	67	64	60	55	50	49	35
	.50	74	73	72	71	68	67	31	75	70	62	57	53	51	41
	1.00	77	75	73	72	69	68	34	76	72	64	58	54	52	43
	1.50	78	76	74	73	70	69	35	77	73	65	60	55	53	44
	3.00	80	78	75	74	72	70	37	79	76	70	65	58	55	48
900/900	.50	74	70	70	70	66	65	29	71	65	61	55	52	51	36
	1.00	76	71	71	70	66	65	29	72	66	61	56	52	51	37
	1.50	76	72	71	70	67	65	30	72	67	62	57	53	52	37
	3.00	76	73	71	70	67	66	31	73	68	63	59	55	53	39
0/1800	--	75	70	71	70	67	66	30	70	65	59	56	53	51	35

NOTES:
1. *Δ Ps static pressure difference from inlet to discharge.*
2. *The lowest value of Δ Ps is the minimum pressure required to deliver CFM shown with primary damper in wide open position.*
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Radiated NC levels are based on —
- a) Plenum/ceiling effect - 5/8" mineral fiber tile, 35 lb/ft^3 - 3 foot plenum
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