

UNIT SIZE - U1
Inlet Size - 5"

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

Primary/ Secondary CFM	Primary Air Δ Ps	Discharge Sound							Max. NC	Radiated Sound							Max. NC
		Sound Power db Octave Band								Sound Power db Octave Band							
		2	3	4	5	6	7	2		3	4	5	6	7			
295/0	.286	57	54	54	51	45	39	11	58	54	50	45	36	29	24		
	.50	61	55	56	54	47	40	15	60	54	52	49	39	30	26		
	1.00	60	56	58	56	49	41	14	60	56	55	51	42	35	30		
	1.50	62	57	59	57	50	41	17	63	57	57	52	46	40	32		
	3.00	64	59	60	59	51	43	19	63	58	59	51	49	45	34		
150/150	.50	53	50	52	50	43	36	--	54	47	45	43	35	24	19		
	1.00	53	50	52	50	44	37	--	54	48	47	44	39	34	21		
	1.50	53	51	53	51	45	38	--	54	50	48	46	42	40	22		
	3.00	54	52	54	52	46	39	--	55	51	51	49	48	48	25		
0/295	--	51	48	52	50	42	35	--	53	45	44	44	32	21	18		
150/0	.069	47	43	44	40	31	22	--	52	45	41	38	27	20	14		
	.50	51	46	48	43	33	23	--	52	46	43	41	32	24	16		
	1.00	51	47	49	44	34	24	--	52	47	46	43	39	34	20		
	1.50	52	48	50	45	35	24	--	53	48	47	45	42	39	21		
	3.00	53	50	52	48	37	29	--	53	49	50	49	48	48	24		
75/75	.50	45	42	43	39	29	21	--	51	44	41	39	31	24	14		
	1.00	47	43	44	39	30	22	--	51	44	43	41	36	34	16		
	1.50	47	44	45	40	31	22	--	52	45	44	42	40	41	18		
	3.00	48	45	47	42	34	27	--	52	45	45	45	46	48	19		
0/150	--	42	42	45	39	27	21	--	53	45	41	38	27	20	14		
75/0	.018	42	39	40	33	22	20	--	48	39	35	31	19	20	8		
	.50	44	41	41	35	23	20	--	48	41	39	35	29	23	12		
	1.00	44	42	42	37	26	20	--	49	42	41	39	36	34	14		
	1.50	45	43	43	38	27	21	--	49	42	42	40	40	40	15		
	3.00	47	45	46	41	32	24	--	49	43	45	44	46	49	19		
38/38	.50	42	39	40	34	22	20	--	49	41	39	34	28	22	12		
	1.00	42	40	41	35	24	20	--	48	40	39	37	36	36	12		
	1.50	42	41	42	36	26	21	--	49	40	39	38	39	42	12		
	3.00	42	41	42	36	27	24	--	49	41	40	41	43	43	13		
0/75	--	41	40	42	34	22	20	--	48	39	35	31	19	20	--		

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

NC level are derived from tests conducted in accordance with AHRI Standard 880-2008 and are calculated in accordance with Appendix E of AHRI Standard 885-2008 as application data based on the following:

Discharge NC levels are based on -

- a) 5 foot rectangular duct lined with 1" fiberglass insulation.
- b) 5 foot lined flex duct (8" diameter).
- c) Flow division.
- d) Space effect factor (2400 ft³) at 5 feet from outlet.
- e) End reflection.
- f) Environment adjustment factor.

Radiated NC levels are based on -

- a) Plenum/ceiling effect - mineral fiber tile
- b) Environment adjustment factor.

NC is not part of the AHRI 880 Certification Program.

Fan Powered Units

UNIT SIZE - U2
Inlet Size - 6"

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

Primary/ Secondary CFM	Primary Air ΔP_s	Discharge Sound							Max. NC	Radiated Sound							Max. NC
		Sound Power db Octave Band								Sound Power db Octave Band							
		2	3	4	5	6	7	2		3	4	5	6	7			
420/0	.229	59	58	58	56	53	48	15	61	56	53	49	39	29	27		
	.50	60	58	59	59	55	49	15	61	56	55	55	42	32	30		
	1.00	61	58	60	59	55	49	15	61	58	57	56	44	37	32		
	1.50	62	59	60	59	56	49	16	63	59	59	57	47	42	34		
	3.00	64	61	61	60	57	50	18	64	60	60	60	52	49	35		
210/210	.50	57	55	57	56	53	48	12	57	51	50	49	39	29	24		
	1.00	57	55	57	56	53	48	12	57	52	51	50	41	35	25		
	1.50	57	56	57	57	54	49	14	58	53	52	50	44	41	26		
	3.00	58	57	58	57	54	49	15	58	54	56	54	50	49	31		
0/420	--	54	54	56	55	52	47	11	56	49	49	48	38	26	23		
300/0	.117	51	50	51	47	41	35	--	53	48	45	42	30	20	19		
	.50	54	52	55	52	44	36	--	55	50	49	48	35	27	23		
	1.00	55	53	55	52	45	36	10	56	52	52	51	40	35	26		
	1.50	55	54	55	53	45	37	11	57	53	54	52	43	41	28		
	3.00	58	56	58	56	49	39	14	59	56	58	56	50	49	33		
150/150	.50	50	48	50	47	41	33	--	51	46	45	43	32	24	19		
	1.00	50	48	51	48	41	34	--	52	47	47	45	37	35	21		
	1.50	51	49	52	49	42	34	--	53	48	49	46	41	39	23		
	3.00	52	50	53	50	42	34	--	53	50	52	50	48	48	26		
0/300	--	48	46	49	46	40	32	--	52	45	44	43	31	20	18		
200/0	.05	47	46	47	43	36	29	--	51	45	42	40	28	20	15		
	.50	49	48	52	47	38	30	--	51	46	45	45	32	24	19		
	1.00	50	49	53	49	39	31	--	52	48	49	47	38	34	23		
	1.50	51	50	55	49	40	31	--	53	49	51	49	42	40	25		
	3.00	54	53	57	53	43	34	11	54	52	55	53	49	48	30		
100/100	.50	46	45	47	43	35	26	--	51	45	43	41	31	24	16		
	1.00	47	46	47	44	36	27	--	51	45	45	42	36	34	19		
	1.50	48	46	48	44	36	27	--	51	46	46	44	40	40	20		
	3.00	48	48	50	45	38	30	--	52	47	49	48	47	48	23		
0/200	--	46	44	47	42	34	24	--	51	44	44	41	30	20	18		

- NOTES:**
1. ΔP_s static pressure difference from inlet to discharge.
 2. ΔP_s is the minimum required to deliver CFM shown the primary damper in open position.
 3. ΔP does not include hot water or electric coils.
 4. Dash (--) indicates NC level less than 10.

NC level are derived from tests conducted in accordance with AHRI Standard 880-2008 and are calculated in accordance with Appendix E of AHRI Standard 885-2008 as application data based on the following:

Discharge NC levels are based on -

- a) 5 foot rectangular duct lined with 1" fiberglass insulation.
- b) 5 foot lined flex duct (8" diameter).
- c) Flow division.
- d) Space effect factor (2400 ft³) at 5 feet from outlet.
- e) End reflection.
- f) Environment adjustment factor.

Radiated NC levels are based on -

- a) Plenum/ceiling effect - mineral fiber tile
- b) Environment adjustment factor.

NC is not part of the AHRI 880 Certification Program.

UNIT SIZE - U3
Inlet Size - 7"

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

Primary/ Secondary CFM	Primary Air Δ Ps	Discharge Sound							Radiated Sound								
		Sound Power db Octave Band							Max. NC	Sound Power db Octave Band							Max. NC
		2	3	4	5	6	7	2		3	4	5	6	7			
680/0	.244	68	67	66	66	64	62	26	70	63	59	58	49	40	35		
	.50	70	69	68	67	66	63	28	70	63	60	59	51	41	35		
	1.00	71	69	68	67	66	63	28	71	64	62	61	52	43	37		
	1.50	71	69	67	67	66	63	28	71	65	63	61	53	45	38		
	3.00	72	70	68	68	67	64	29	74	67	64	64	55	51	40		
340/340	.50	67	65	66	65	64	62	26	68	60	57	56	48	39	32		
	1.00	67	66	66	65	64	62	26	68	60	58	57	49	41	33		
	1.50	67	66	66	65	64	62	26	68	61	59	57	50	43	34		
	3.00	67	66	66	65	64	62	26	68	62	61	60	53	50	36		
0/680	--	66	64	65	65	63	62	26	68	59	55	56	48	39	32		
450/0	.105	57	57	59	57	54	50	14	59	53	52	52	40	28	26		
	.50	59	57	60	59	56	51	15	61	55	53	55	42	32	27		
	1.00	60	58	60	60	56	52	16	62	56	56	56	44	37	31		
	1.50	61	59	61	60	57	52	16	63	57	57	57	46	41	32		
	3.00	63	61	62	61	57	52	18	64	59	61	61	52	50	36		
225/225	.50	58	56	59	57	55	51	14	59	52	51	51	40	31	25		
	1.00	58	57	59	57	55	51	15	59	53	53	51	42	37	27		
	1.50	58	57	59	57	55	51	15	60	53	54	53	44	41	28		
	3.00	59	57	59	58	55	51	15	60	55	56	55	50	48	31		
0/450	--	57	55	57	57	54	50	14	60	51	50	50	40	28	24		
300/0	.047	51	50	52	49	44	38	--	54	47	45	46	33	22	19		
	.50	52	51	54	52	46	39	--	55	50	48	49	36	27	22		
	1.00	54	53	55	53	47	40	10	57	51	51	50	39	36	25		
	1.50	54	53	55	53	47	40	10	57	52	54	53	43	41	28		
	3.00	56	55	57	55	48	41	12	58	55	58	57	50	49	33		
150/150	.50	51	50	52	50	45	38	--	55	47	46	46	34	27	20		
	1.00	52	50	52	50	45	38	--	55	48	48	47	38	35	22		
	1.50	52	50	53	51	45	38	--	55	48	49	48	41	39	23		
	3.00	53	51	53	51	45	38	--	57	50	51	51	48	48	25		
0/300	--	50	50	52	50	45	38	--	56	46	45	47	33	21	19		

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

NC level are derived from tests conducted in accordance with AHRI Standard 880-2008 and are calculated in accordance with Appendix E of AHRI Standard 885-2008 as application data based on the following:

Discharge NC levels are based on -

- a) 5 foot rectangular duct lined with 1" fiberglass insulation.
- b) 5 foot lined flex duct (8" diameter).
- c) Flow division.
- d) Space effect factor (2400 ft³) at 5 feet from outlet.
- e) End reflection.
- f) Environment adjustment factor.

Radiated NC levels are based on -

- a) Plenum/ceiling effect - mineral fiber tile
- b) Environment adjustment factor.

NC is not part of the AHRI 880 Certification Program.

Fan Powered Units

UNIT SIZE - U4
Inlet Size - 8"

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

Primary/ Secondary CFM	Primary Air ΔP_s	Discharge Sound							Radiated Sound								
		Sound Power db Octave Band							Max. NC	Sound Power db Octave Band							Max. NC
		2	3	4	5	6	7	2		3	4	5	6	7			
1000/0	.268	75	73	72	71	69	69	32	74	67	63	62	54	45	40		
	.50	77	75	73	72	71	70	34	76	70	65	65	56	47	43		
	1.00	77	76	73	72	71	70	35	76	70	65	65	57	48	43		
	1.50	78	76	73	72	71	70	35	77	71	67	66	57	50	44		
	3.00	79	78	74	73	72	71	37	79	73	69	68	60	55	46		
500/500	.50	77	75	73	72	71	70	35	75	67	62	62	54	46	41		
	1.00	77	75	73	72	71	70	35	75	67	62	62	54	47	41		
	1.50	77	75	73	72	71	70	35	76	67	63	62	55	48	43		
	3.00	77	76	73	73	71	70	36	75	68	65	65	57	53	41		
0/1000	--	75	73	71	71	69	69	32	75	65	61	61	54	46	41		
750/0	.148	68	65	65	65	61	60	24	68	60	58	57	46	36	33		
	.50	70	68	67	66	64	62	26	71	63	59	61	50	40	36		
	1.00	70	68	67	67	64	62	26	71	64	61	61	50	43	36		
	1.50	71	68	67	67	64	62	26	71	65	63	63	52	46	38		
	3.00	72	69	68	67	65	62	27	72	67	66	66	56	53	42		
375/375	.50	69	67	66	66	63	62	26	71	60	57	58	49	40	36		
	1.00	70	67	66	66	63	62	26	71	61	58	58	50	42	36		
	1.50	70	67	66	66	63	62	26	71	62	60	59	51	45	36		
	3.00	70	67	67	66	63	62	26	71	63	62	63	54	51	37		
0/750	--	69	66	66	66	64	63	27	72	60	57	57	51	44	37		
500/0	.066	59	58	59	58	53	50	15	63	54	51	51	39	26	26		
	.50	61	60	61	60	56	52	17	65	56	55	55	43	33	30		
	1.00	63	60	61	60	56	52	17	65	58	56	56	45	39	31		
	1.50	63	61	61	61	56	52	18	65	59	59	58	48	44	34		
	3.00	63	62	62	61	56	52	19	66	62	64	63	53	52	39		
250/250	.50	61	59	59	59	55	53	17	65	54	52	52	41	32	28		
	1.00	62	59	59	59	55	53	17	66	55	54	54	44	38	30		
	1.50	62	59	59	59	55	53	17	66	56	55	55	46	43	30		
	3.00	62	60	60	60	55	53	18	66	58	58	59	51	50	33		
0/500	--	60	59	59	59	55	52	16	69	55	52	53	45	35	33		

- NOTES:** 1. ΔP_s static pressure difference from inlet to discharge.
 2. ΔP_s is the minimum required to deliver CFM shown the primary damper in open position.
 3. ΔP does not include hot water or electric coils.
 4. Dash (--) indicates NC level less than 10.

NC level are derived from tests conducted in accordance with AHRI Standard 880-2008 and are calculated in accordance with Appendix E of AHRI Standard 885-2008 as application data based on the following:

Discharge NC levels are based on -

- a) 5 foot rectangular duct lined with 1" fiberglass insulation.
- b) 5 foot lined flex duct (8" diameter).
- c) Flow division.
- d) Space effect factor (2400 ft³) at 5 feet from outlet.
- e) End reflection.
- f) Environment adjustment factor.

Radiated NC levels are based on -

- a) Plenum/ceiling effect - mineral fiber tile
- b) Environment adjustment factor.

NC is not part of the AHRI 880 Certification Program.

UNIT SIZE - U5
Inlet Size - 10"

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

Primary/ Secondary CFM	Primary Air Δ Ps	Discharge Sound							Max. NC	Radiated Sound							Max. NC
		Sound Power db Octave Band								Sound Power db Octave Band							
		2	3	4	5	6	7	2		3	4	5	6	7			
1525/0	.236	82	79	77	77	74	74	38	80	73	66	66	59	50	48		
	.50	84	79	77	77	75	74	39	82	74	67	67	60	51	50		
	1.00	84	81	78	78	76	74	41	82	75	69	69	62	53	50		
	1.50	85	81	79	78	77	75	41	83	77	70	70	62	54	52		
	3.00	86	81	79	79	77	75	41	85	79	43	73	64	58	54		
763/763	.50	81	78	76	76	74	73	37	77	71	65	66	59	51	44		
	1.00	81	78	76	76	74	73	37	77	71	66	66	60	51	44		
	1.50	81	78	76	76	74	74	37	77	71	66	67	60	51	44		
	3.00	81	78	77	77	76	75	38	79	72	68	69	61	55	46		
0/1525	--	80	77	75	75	73	72	36	77	70	63	64	58	49	44		
1200/0	.125	78	74	73	72	70	69	33	75	68	61	61	54	46	41		
	.50	78	75	74	73	71	69	34	76	69	63	64	56	47	43		
	1.00	78	75	74	73	71	69	34	78	71	65	65	57	48	45		
	1.50	78	75	74	73	71	69	34	79	72	66	67	58	50	46		
	3.00	81	77	75	74	72	70	36	80	74	70	70	61	56	48		
600/600	.50	78	74	72	72	69	69	34	73	67	61	62	54	46	39		
	1.00	78	74	72	72	69	69	34	73	67	62	63	55	47	39		
	1.50	78	74	73	72	69	69	34	73	67	63	64	55	49	39		
	3.00	78	74	73	73	70	69	34	76	69	65	67	58	53	43		
0/1200	--	78	72	72	72	69	68	31	73	64	60	60	54	45	39		
900/0	.078	70	65	66	65	62	60	24	66	59	56	55	48	38	31		
	.50	71	66	67	66	62	61	25	69	63	59	59	49	40	34		
	1.00	72	68	68	68	64	62	26	73	66	61	61	52	43	39		
	1.50	74	69	69	68	64	62	27	73	67	63	63	54	47	39		
	3.00	76	71	70	69	66	63	29	75	70	67	68	58	54	43		
450/450	.50	72	66	66	66	63	62	26	66	60	57	57	48	39	32		
	1.00	70	66	67	66	63	61	25	67	61	58	58	49	42	33		
	1.50	69	65	67	67	63	61	25	68	62	60	60	51	45	35		
	3.00	71	66	68	67	64	62	26	71	64	61	64	55	51	37		
0/900	--	69	64	66	65	62	61	25	67	58	55	56	48	38	31		

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

NC level are derived from tests conducted in accordance with AHRI Standard 880-2008 and are calculated in accordance with Appendix E of AHRI Standard 885-2008 as application data based on the following:

Discharge NC levels are based on -

- a) 5 foot rectangular duct lined with 1" fiberglass insulation.
- b) 5 foot lined flex duct (8" diameter).
- c) Flow division.
- d) Space effect factor (2400 ft³) at 5 feet from outlet.
- e) End reflection.
- f) Environment adjustment factor.

Radiated NC levels are based on -

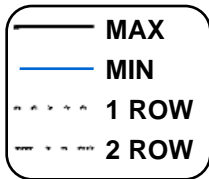
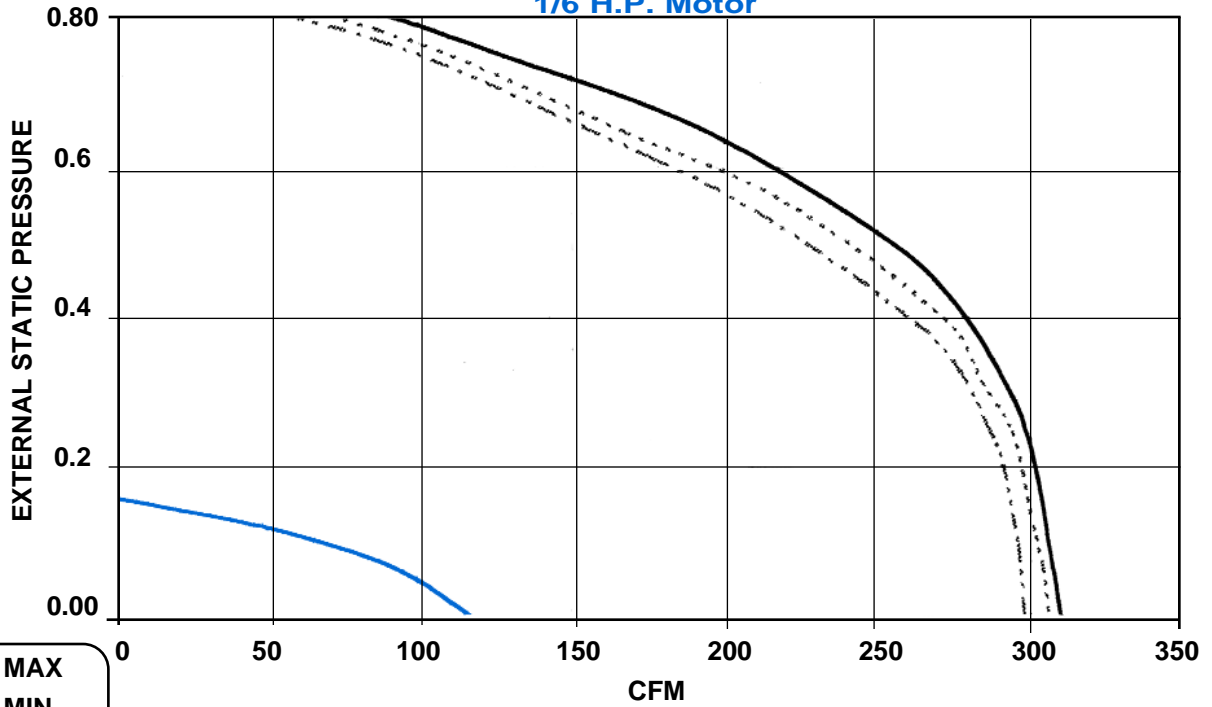
- a) Plenum/ceiling effect - mineral fiber tile
- b) Environment adjustment factor.

NC is not part of the AHRI 880 Certification Program.

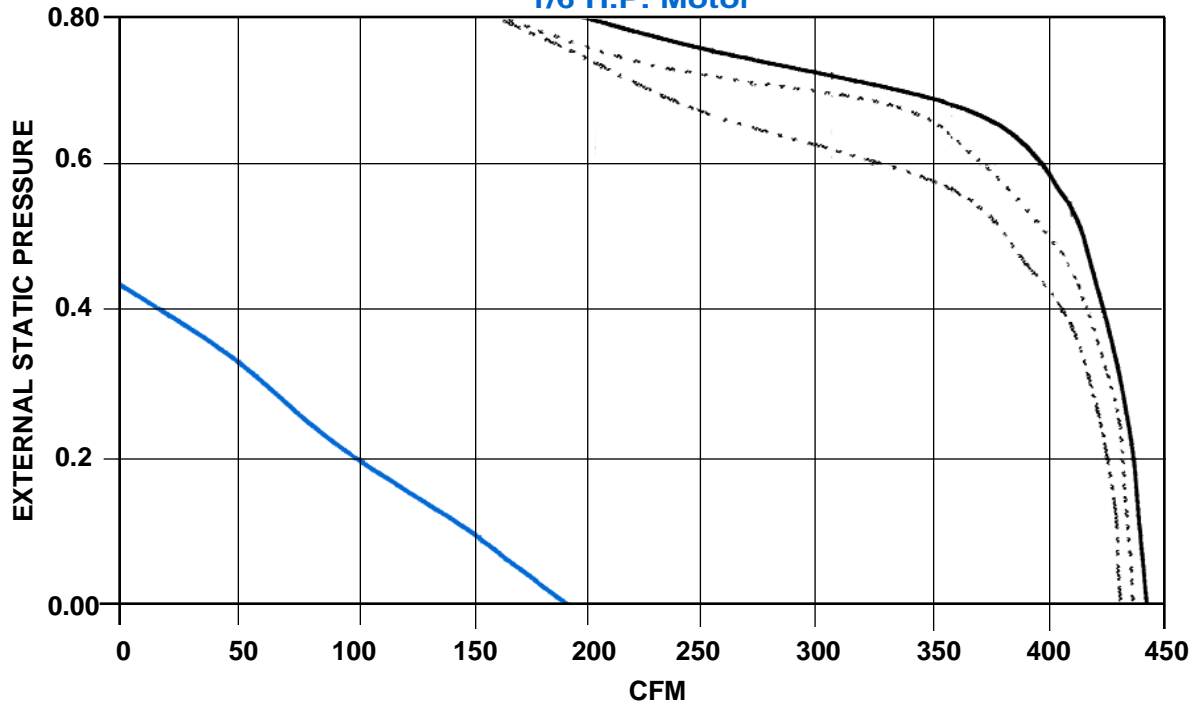
Fan Powered Units

FAN CURVES CFM vs EXTERNAL STATIC PRESSURE

FAN SIZE A - UNDERFLOOR AC U1
1/6 H.P. Motor



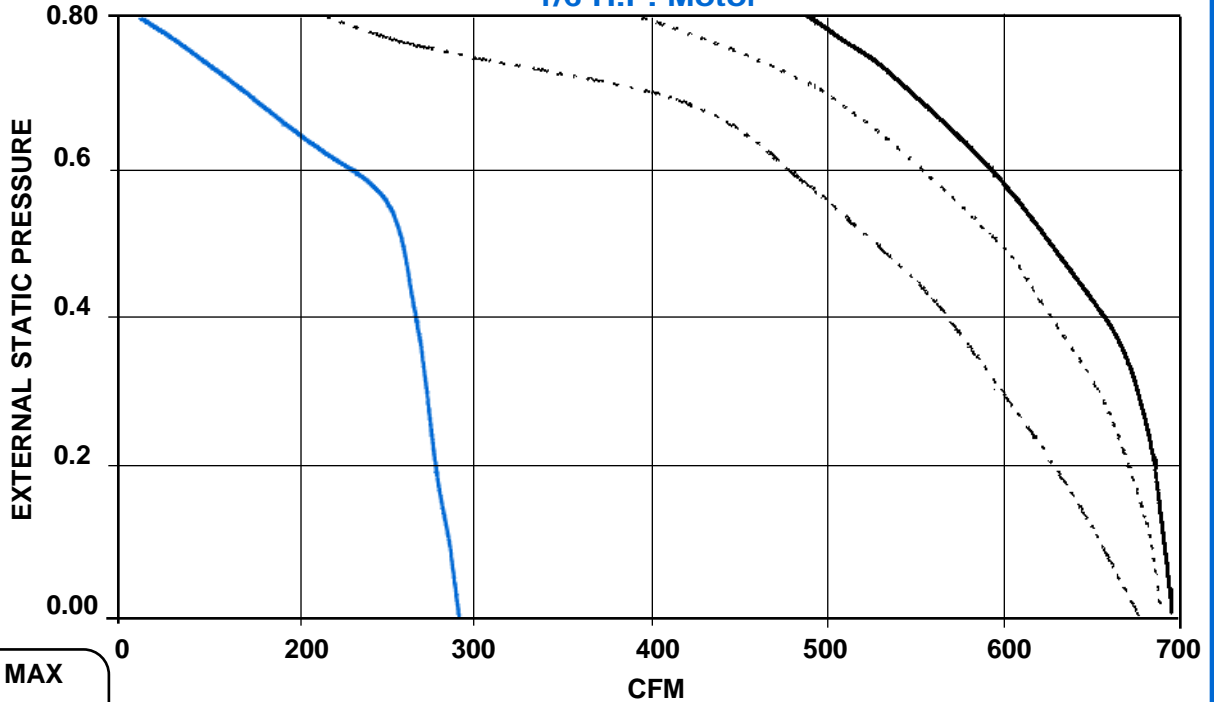
FAN SIZE B - UNDERFLOOR AC U2
1/6 H.P. Motor



- NOTES:
1. External Static Pressure (ESP) consists of down stream ductwork, 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.

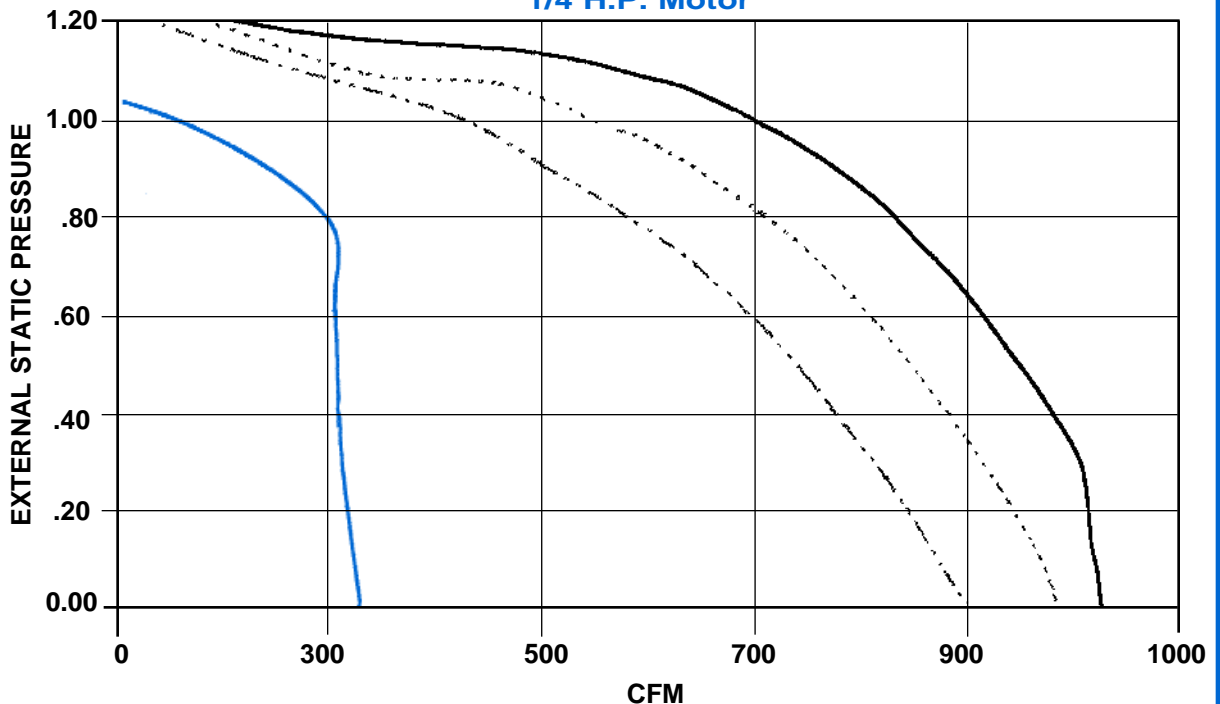
FAN CURVES CFM vs EXTERNAL STATIC PRESSURE

FAN SIZE C - UNDERFLOOR AC U3
1/6 H.P. Motor



- MAX
- MIN
- 1 ROW
- · - · 2 ROW

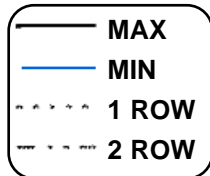
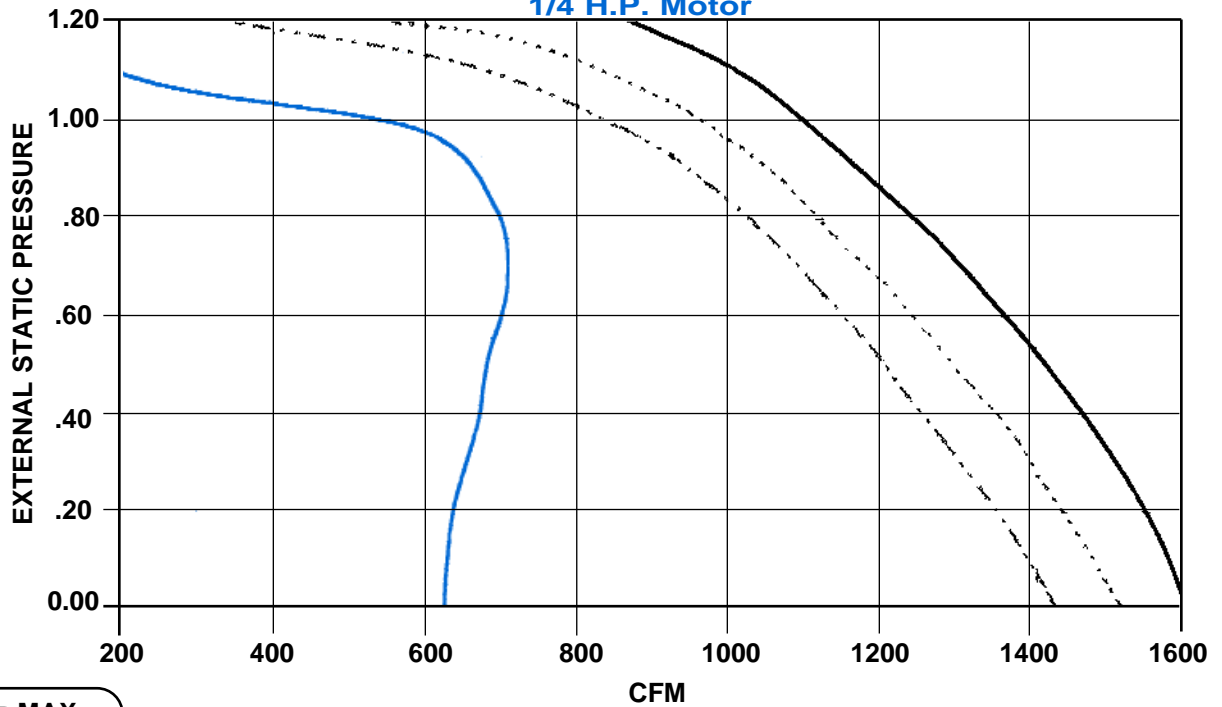
FAN SIZE D - UNDERFLOOR AC U4
1/4 H.P. Motor



- NOTES:
1. External Static Pressure (ESP) consists of down stream ductwork, 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 - UNDERFLOOR AC U5
1/4 H.P. Motor



- NOTES:**
1. External Static Pressure (ESP) consists of down stream ductwork, 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.