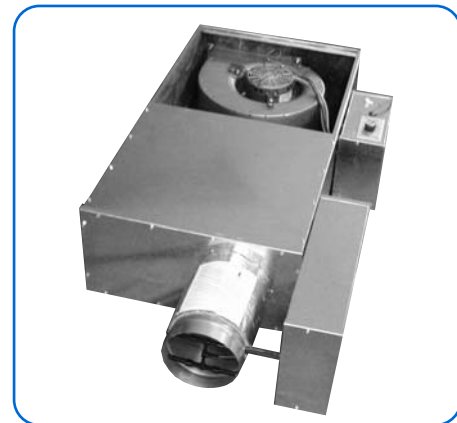


**Models**    **ACF w/o Reheat**  
                  **ACW w/ Hot Water Reheat**  
                  **ACE w/ Electric Reheat**

The **Carnes** underfloor constant volume fan terminal unit provides constant air volume to the space while retaining the advantages of a variable air volume system.

The primary air control assembly operates in the same manner as a standard throttling control valve when cooling loads are high. As cooling loads diminish the integral blower induces warm ceiling plenum air to maintain constant air volume.



**Features Include:**

- Air flow capacities to 1500 CFM.
- Durable 22 gauge galvanized steel casing construction.
- Access panel for internal components.
- Standard inlet sizes and flange or slip and drive discharge connections.
- Forward curved centrifugal type fan assemblies with 120 or 277 volt, single phase, fractional horsepower PSC motors.
- Low leakage primary air damper design.
- Secondary air filter rack.
- Performance data based on tests conducted in accordance with AHRI Standard 880-2008.
- Pressure independent pneumatic or electronic controls available.
- Field adjustable P/E switch with pneumatic controls.
- Tri-Averaging type velocity sensor and calibration chart for measuring air flow through the primary air damper.
- Insulation is 1/2" thick, 2.0 lb. dual density fiberglass with surface treated to prevent air erosion, UL listed and meets NFPA 90A requirements.
- Optional primary air controls enclosure.
- Optional one to four row hot water coils (Model ACW). Coil is factory attached to the unit discharge.
- Optional one or two stage electric reheat coils (Model ACE). Coil is factory attached to unit discharge.
- Optional secondary air filters, Class I (re-usable) or Class II (throw away).
- Optional foil coated insulation.
- Optional fiber-free liner.
- Optional ETL listing.

**Available Modules:**

- Basic control unit — **Model ACF.**
- Basic control unit with hot water coil — **Model ACW.**
- Basic control unit with electric coil — **Model ACE.**



A Participating Member  
in the AHRI 880  
Certification Program

**UNIT SIZE - U1**  
**Inlet Size - 5"**

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

Primary/ Secondary CFM	Primary Air $\Delta P_s$	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			
<b>295/0</b>	.286	57	54	54	51	45	39	<b>11</b>	58	54	50	45	36	29	<b>24</b>		
	.50	61	55	56	54	47	40	<b>15</b>	60	54	52	49	39	30	<b>26</b>		
	1.00	60	56	58	56	49	41	<b>14</b>	60	56	55	51	42	35	<b>30</b>		
	1.50	62	57	59	57	50	41	<b>17</b>	63	57	57	52	46	40	<b>32</b>		
	3.00	64	59	60	59	51	43	<b>19</b>	63	58	59	51	49	45	<b>34</b>		
<b>150/150</b>	.50	53	50	52	50	43	36	--	54	47	45	43	35	24	<b>19</b>		
	1.00	53	50	52	50	44	37	--	54	48	47	44	39	34	<b>21</b>		
	1.50	53	51	53	51	45	38	--	54	50	48	46	42	40	<b>22</b>		
	3.00	54	52	54	52	46	39	--	55	51	51	49	48	48	<b>25</b>		
<b>0/295</b>	--	51	48	52	50	42	35	--	53	45	44	44	32	21	<b>18</b>		
<b>150/0</b>	.069	47	43	44	40	31	22	--	52	45	41	38	27	20	<b>14</b>		
	.50	51	46	48	43	33	23	--	52	46	43	41	32	24	<b>16</b>		
	1.00	51	47	49	44	34	24	--	52	47	46	43	39	34	<b>20</b>		
	1.50	52	48	50	45	35	24	--	53	48	47	45	42	39	<b>21</b>		
	3.00	53	50	52	48	37	29	--	53	49	50	49	48	48	<b>24</b>		
<b>75/75</b>	.50	45	42	43	39	29	21	--	51	44	41	39	31	24	<b>14</b>		
	1.00	47	43	44	39	30	22	--	51	44	43	41	36	34	<b>16</b>		
	1.50	47	44	45	40	31	22	--	52	45	44	42	40	41	<b>18</b>		
	3.00	48	45	47	42	34	27	--	52	45	45	45	46	48	<b>19</b>		
<b>0/150</b>	--	42	42	45	39	27	21	--	53	45	41	38	27	20	<b>14</b>		
<b>75/0</b>	.018	42	39	40	33	22	20	--	48	39	35	31	19	20	<b>8</b>		
	.50	44	41	41	35	23	20	--	48	41	39	35	29	23	<b>12</b>		
	1.00	44	42	42	37	26	20	--	49	42	41	39	36	34	<b>14</b>		
	1.50	45	43	43	38	27	21	--	49	42	42	40	40	40	<b>15</b>		
	3.00	47	45	46	41	32	24	--	49	43	45	44	46	49	<b>19</b>		
<b>38/38</b>	.50	42	39	40	34	22	20	--	49	41	39	34	28	22	<b>12</b>		
	1.00	42	40	41	35	24	20	--	48	40	39	37	36	36	<b>12</b>		
	1.50	42	41	42	36	26	21	--	49	40	39	38	39	42	<b>12</b>		
	3.00	42	41	42	36	27	24	--	49	41	40	41	43	43	<b>13</b>		
<b>0/75</b>	--	41	40	42	34	22	20	--	48	39	35	31	19	20	--		

- NOTES:**
1.  $\Delta P_s$  static pressure difference from inlet to discharge.
  2.  $\Delta P_s$  is the minimum required to deliver CFM shown the primary damper in open position.
  3.  $\Delta P$  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 ft<sup>3</sup>) 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 $\Delta P_s$	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.  $\Delta P_s$  static pressure difference from inlet to discharge.  
 2.  $\Delta P_s$  is the minimum required to deliver CFM shown the primary damper in open position.  
 3.  $\Delta P$  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.

**UNIT SIZE - U3**  
**Inlet Size - 7"**

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

Primary/ Secondary CFM	Primary Air $\Delta$ 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			
<b>680/0</b>	.244	68	67	66	66	64	62	<b>26</b>	70	63	59	58	49	40	<b>35</b>		
	.50	70	69	68	67	66	63	<b>28</b>	70	63	60	59	51	41	<b>35</b>		
	1.00	71	69	68	67	66	63	<b>28</b>	71	64	62	61	52	43	<b>37</b>		
	1.50	71	69	67	67	66	63	<b>28</b>	71	65	63	61	53	45	<b>38</b>		
	3.00	72	70	68	68	67	64	<b>29</b>	74	67	64	64	55	51	<b>40</b>		
<b>340/340</b>	.50	67	65	66	65	64	62	<b>26</b>	68	60	57	56	48	39	<b>32</b>		
	1.00	67	66	66	65	64	62	<b>26</b>	68	60	58	57	49	41	<b>33</b>		
	1.50	67	66	66	65	64	62	<b>26</b>	68	61	59	57	50	43	<b>34</b>		
	3.00	67	66	66	65	64	62	<b>26</b>	68	62	61	60	53	50	<b>36</b>		
<b>0/680</b>	--	66	64	65	65	63	62	<b>26</b>	68	59	55	56	48	39	<b>32</b>		
<b>450/0</b>	.105	57	57	59	57	54	50	<b>14</b>	59	53	52	52	40	28	<b>26</b>		
	.50	59	57	60	59	56	51	<b>15</b>	61	55	53	55	42	32	<b>27</b>		
	1.00	60	58	60	60	56	52	<b>16</b>	62	56	56	56	44	37	<b>31</b>		
	1.50	61	59	61	60	57	52	<b>16</b>	63	57	57	57	46	41	<b>32</b>		
	3.00	63	61	62	61	57	52	<b>18</b>	64	59	61	61	52	50	<b>36</b>		
<b>225/225</b>	.50	58	56	59	57	55	51	<b>14</b>	59	52	51	51	40	31	<b>25</b>		
	1.00	58	57	59	57	55	51	<b>15</b>	59	53	53	51	42	37	<b>27</b>		
	1.50	58	57	59	57	55	51	<b>15</b>	60	53	54	53	44	41	<b>28</b>		
	3.00	59	57	59	58	55	51	<b>15</b>	60	55	56	55	50	48	<b>31</b>		
<b>0/450</b>	--	57	55	57	57	54	50	<b>14</b>	60	51	50	50	40	28	<b>24</b>		
<b>300/0</b>	.047	51	50	52	49	44	38	--	54	47	45	46	33	22	<b>19</b>		
	.50	52	51	54	52	46	39	--	55	50	48	49	36	27	<b>22</b>		
	1.00	54	53	55	53	47	40	<b>10</b>	57	51	51	50	39	36	<b>25</b>		
	1.50	54	53	55	53	47	40	<b>10</b>	57	52	54	53	43	41	<b>28</b>		
	3.00	56	55	57	55	48	41	<b>12</b>	58	55	58	57	50	49	<b>33</b>		
<b>150/150</b>	.50	51	50	52	50	45	38	--	55	47	46	46	34	27	<b>20</b>		
	1.00	52	50	52	50	45	38	--	55	48	48	47	38	35	<b>22</b>		
	1.50	52	50	53	51	45	38	--	55	48	49	48	41	39	<b>23</b>		
	3.00	53	51	53	51	45	38	--	57	50	51	51	48	48	<b>25</b>		
<b>0/300</b>	--	50	50	52	50	45	38	--	56	46	45	47	33	21	<b>19</b>		

- NOTES:** 1.  $\Delta$ Ps static pressure difference from inlet to discharge.  
 2.  $\Delta$ Ps is the minimum required to deliver CFM shown the primary damper in open position.  
 3.  $\Delta$ 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 ft<sup>3</sup>) 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 $\Delta P_s$	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			
<b>1000/0</b>	.268	75	73	72	71	69	69	<b>32</b>	74	67	63	62	54	45	<b>40</b>		
	.50	77	75	73	72	71	70	<b>34</b>	76	70	65	65	56	47	<b>43</b>		
	1.00	77	76	73	72	71	70	<b>35</b>	76	70	65	65	57	48	<b>43</b>		
	1.50	78	76	73	72	71	70	<b>35</b>	77	71	67	66	57	50	<b>44</b>		
	3.00	79	78	74	73	72	71	<b>37</b>	79	73	69	68	60	55	<b>46</b>		
<b>500/500</b>	.50	77	75	73	72	71	70	<b>35</b>	75	67	62	62	54	46	<b>41</b>		
	1.00	77	75	73	72	71	70	<b>35</b>	75	67	62	62	54	47	<b>41</b>		
	1.50	77	75	73	72	71	70	<b>35</b>	76	67	63	62	55	48	<b>43</b>		
	3.00	77	76	73	73	71	70	<b>36</b>	75	68	65	65	57	53	<b>41</b>		
<b>0/1000</b>	--	75	73	71	71	69	69	<b>32</b>	75	65	61	61	54	46	<b>41</b>		
<b>750/0</b>	.148	68	65	65	65	61	60	<b>24</b>	68	60	58	57	46	36	<b>33</b>		
	.50	70	68	67	66	64	62	<b>26</b>	71	63	59	61	50	40	<b>36</b>		
	1.00	70	68	67	67	64	62	<b>26</b>	71	64	61	61	50	43	<b>36</b>		
	1.50	71	68	67	67	64	62	<b>26</b>	71	65	63	63	52	46	<b>38</b>		
	3.00	72	69	68	67	65	62	<b>27</b>	72	67	66	66	56	53	<b>42</b>		
<b>375/375</b>	.50	69	67	66	66	63	62	<b>26</b>	71	60	57	58	49	40	<b>36</b>		
	1.00	70	67	66	66	63	62	<b>26</b>	71	61	58	58	50	42	<b>36</b>		
	1.50	70	67	66	66	63	62	<b>26</b>	71	62	60	59	51	45	<b>36</b>		
	3.00	70	67	67	66	63	62	<b>26</b>	71	63	62	63	54	51	<b>37</b>		
<b>0/750</b>	--	69	66	66	66	64	63	<b>27</b>	72	60	57	57	51	44	<b>37</b>		
<b>500/0</b>	.066	59	58	59	58	53	50	<b>15</b>	63	54	51	51	39	26	<b>26</b>		
	.50	61	60	61	60	56	52	<b>17</b>	65	56	55	55	43	33	<b>30</b>		
	1.00	63	60	61	60	56	52	<b>17</b>	65	58	56	56	45	39	<b>31</b>		
	1.50	63	61	61	61	56	52	<b>18</b>	65	59	59	58	48	44	<b>34</b>		
	3.00	63	62	62	61	56	52	<b>19</b>	66	62	64	63	53	52	<b>39</b>		
<b>250/250</b>	.50	61	59	59	59	55	53	<b>17</b>	65	54	52	52	41	32	<b>28</b>		
	1.00	62	59	59	59	55	53	<b>17</b>	66	55	54	54	44	38	<b>30</b>		
	1.50	62	59	59	59	55	53	<b>17</b>	66	56	55	55	46	43	<b>30</b>		
	3.00	62	60	60	60	55	53	<b>18</b>	66	58	58	59	51	50	<b>33</b>		
<b>0/500</b>	--	60	59	59	59	55	52	<b>16</b>	69	55	52	53	45	35	<b>33</b>		

- NOTES:** 1.  $\Delta P_s$  static pressure difference from inlet to discharge.  
 2.  $\Delta P_s$  is the minimum required to deliver CFM shown the primary damper in open position.  
 3.  $\Delta P$  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 ft<sup>3</sup>) 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 $\Delta P_s$	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			
<b>1525/0</b>	.236	82	79	77	77	74	74	<b>38</b>	80	73	66	66	59	50	<b>48</b>		
	.50	84	79	77	77	75	74	<b>39</b>	82	74	67	67	60	51	<b>50</b>		
	1.00	84	81	78	78	76	74	<b>41</b>	82	75	69	69	62	53	<b>50</b>		
	1.50	85	81	79	78	77	75	<b>41</b>	83	77	70	70	62	54	<b>52</b>		
	3.00	86	81	79	79	77	75	<b>41</b>	85	79	43	73	64	58	<b>54</b>		
<b>763/763</b>	.50	81	78	76	76	74	73	<b>37</b>	77	71	65	66	59	51	<b>44</b>		
	1.00	81	78	76	76	74	73	<b>37</b>	77	71	66	66	60	51	<b>44</b>		
	1.50	81	78	76	76	74	74	<b>37</b>	77	71	66	67	60	51	<b>44</b>		
	3.00	81	78	77	77	76	75	<b>38</b>	79	72	68	69	61	55	<b>46</b>		
<b>0/1525</b>	--	80	77	75	75	73	72	<b>36</b>	77	70	63	64	58	49	<b>44</b>		
<b>1200/0</b>	.125	78	74	73	72	70	69	<b>33</b>	75	68	61	61	54	46	<b>41</b>		
	.50	78	75	74	73	71	69	<b>34</b>	76	69	63	64	56	47	<b>43</b>		
	1.00	78	75	74	73	71	69	<b>34</b>	78	71	65	65	57	48	<b>45</b>		
	1.50	78	75	74	73	71	69	<b>34</b>	79	72	66	67	58	50	<b>46</b>		
	3.00	81	77	75	74	72	70	<b>36</b>	80	74	70	70	61	56	<b>48</b>		
<b>600/600</b>	.50	78	74	72	72	69	69	<b>34</b>	73	67	61	62	54	46	<b>39</b>		
	1.00	78	74	72	72	69	69	<b>34</b>	73	67	62	63	55	47	<b>39</b>		
	1.50	78	74	73	72	69	69	<b>34</b>	73	67	63	64	55	49	<b>39</b>		
	3.00	78	74	73	73	70	69	<b>34</b>	76	69	65	67	58	53	<b>43</b>		
<b>0/1200</b>	--	78	72	72	72	69	68	<b>31</b>	73	64	60	60	54	45	<b>39</b>		
<b>900/0</b>	.078	70	65	66	65	62	60	<b>24</b>	66	59	56	55	48	38	<b>31</b>		
	.50	71	66	67	66	62	61	<b>25</b>	69	63	59	59	49	40	<b>34</b>		
	1.00	72	68	68	68	64	62	<b>26</b>	73	66	61	61	52	43	<b>39</b>		
	1.50	74	69	69	68	64	62	<b>27</b>	73	67	63	63	54	47	<b>39</b>		
	3.00	76	71	70	69	66	63	<b>29</b>	75	70	67	68	58	54	<b>43</b>		
<b>450/450</b>	.50	72	66	66	66	63	62	<b>26</b>	66	60	57	57	48	39	<b>32</b>		
	1.00	70	66	67	66	63	61	<b>25</b>	67	61	58	58	49	42	<b>33</b>		
	1.50	69	65	67	67	63	61	<b>25</b>	68	62	60	60	51	45	<b>35</b>		
	3.00	71	66	68	67	64	62	<b>26</b>	71	64	61	64	55	51	<b>37</b>		
<b>0/900</b>	--	69	64	66	65	62	61	<b>25</b>	67	58	55	56	48	38	<b>31</b>		

- NOTES:** 1.  $\Delta P_s$  static pressure difference from inlet to discharge.  
 2.  $\Delta P_s$  is the minimum required to deliver CFM shown the primary damper in open position.  
 3.  $\Delta P$  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 ft<sup>3</sup>) at 5 feet from outlet.
- e) End reflection.
- f) Environment adjustment factor.

**Radiated NC levels are based on -**

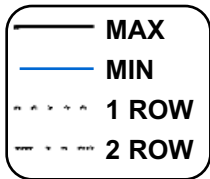
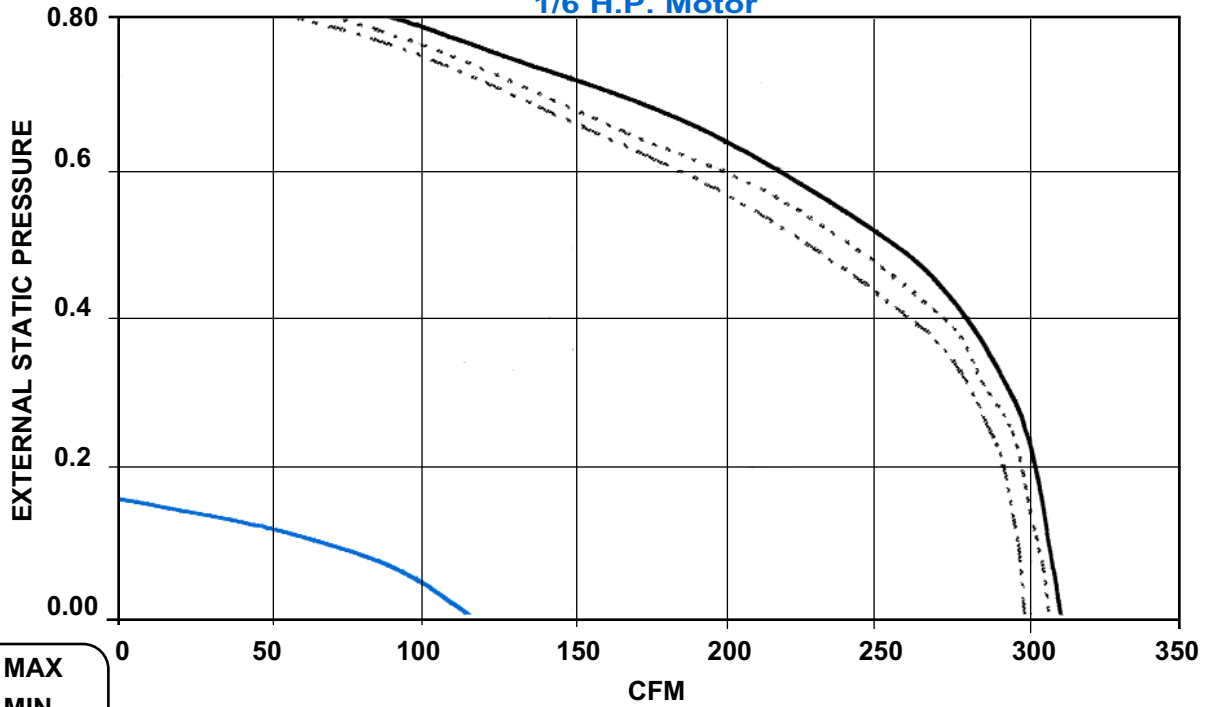
- a) Plenum/ceiling effect - mineral fiber tile
- b) Environment adjustment factor.

NC is not part of the AHRI 880 Certification Program.

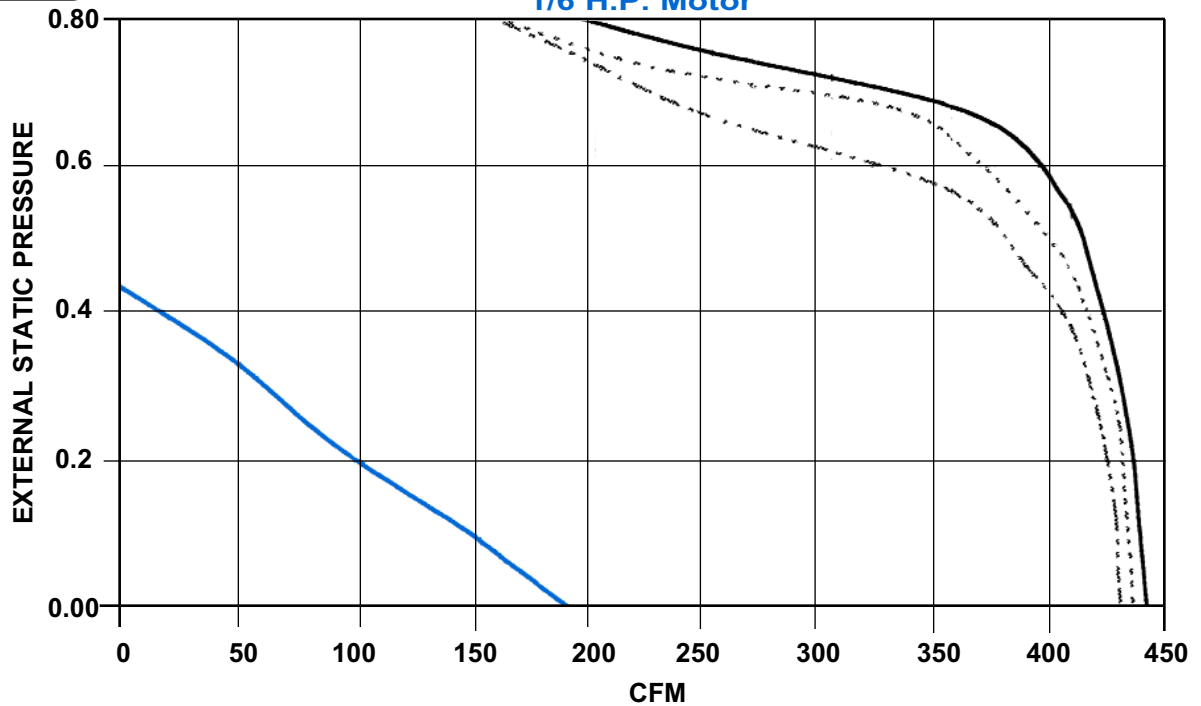
**Fan Powered Units**

## FAN CURVES CFM vs EXTERNAL STATIC PRESSURE

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



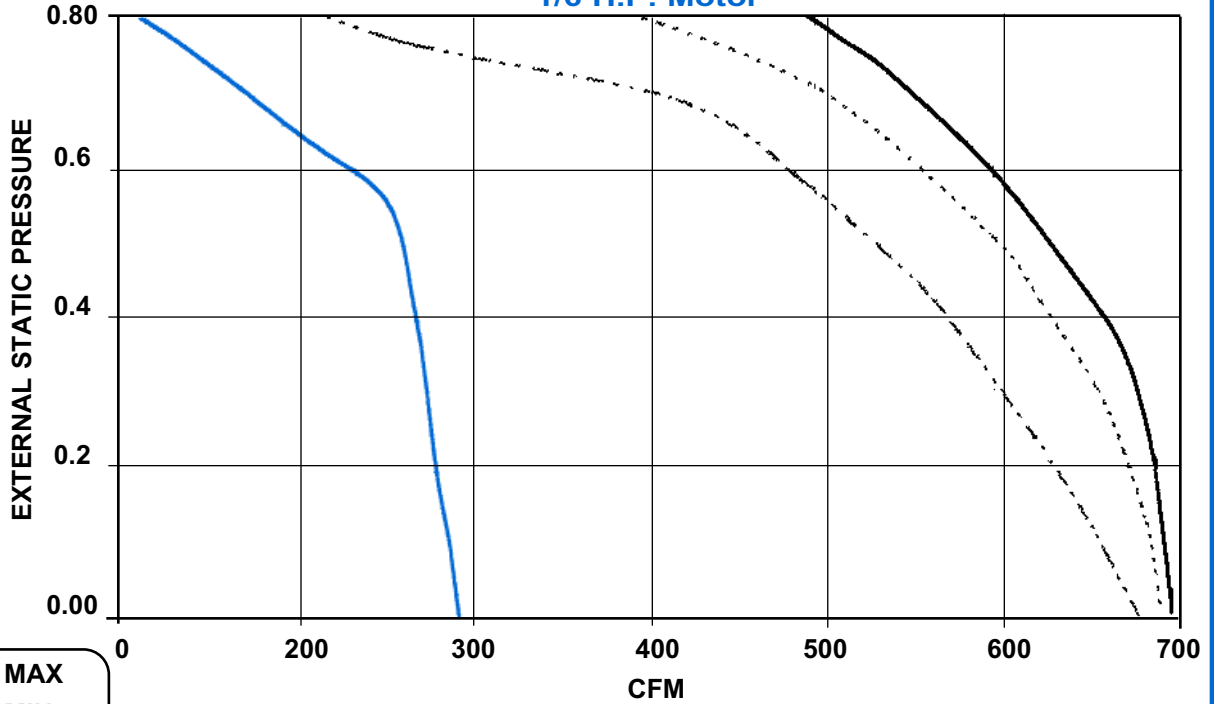
FAN SIZE B - UNDERFLOOR AC U2  
1/6 H.P. Motor



- 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.

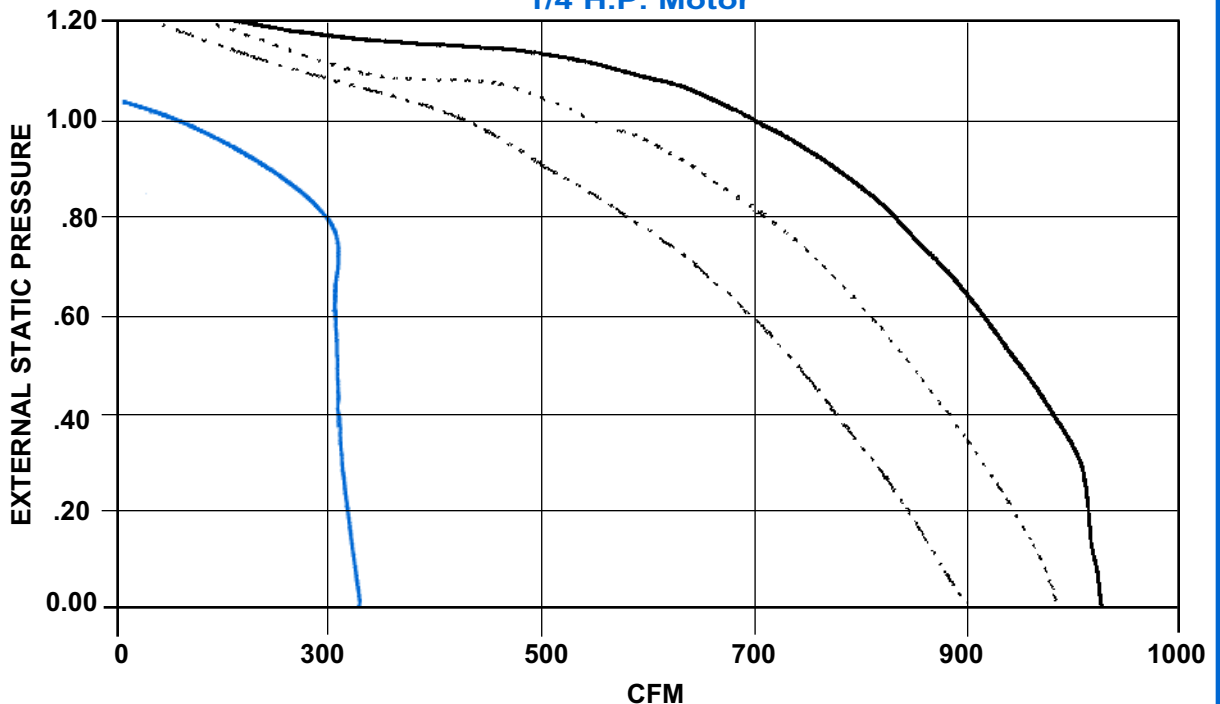
## FAN CURVES CFM vs EXTERNAL STATIC PRESSURE

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



- MAX
- MIN
- 1 ROW
- - - - 2 ROW

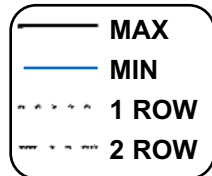
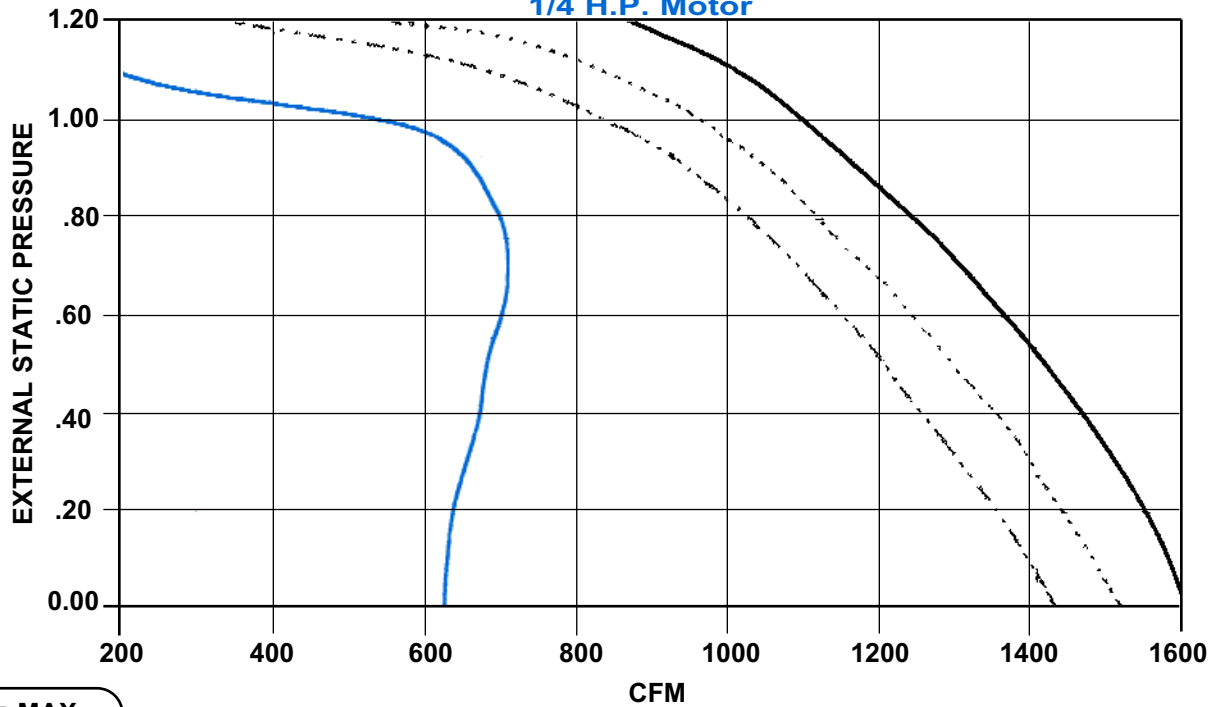
FAN SIZE D - UNDERFLOOR AC U4  
1/4 H.P. Motor



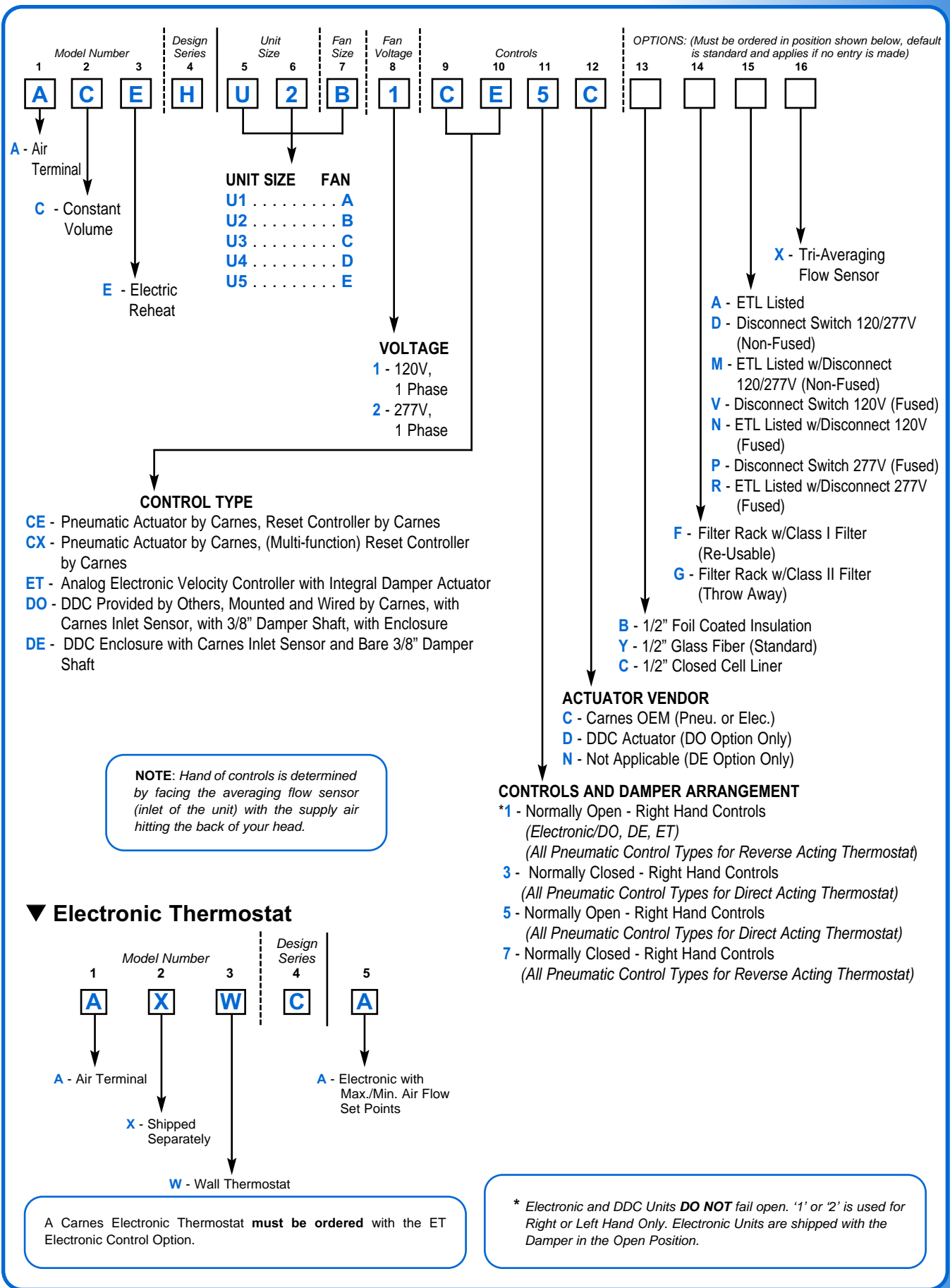
- NOTES:
1. External Static Pressure (ESP) consists of down stream ductwork, coils, flex, duct, etc.
  2. Pressure drop due to heating coils are treated as external static pressure.
  3. For proper operation, the downstream ESP must be at least 0.20" W. G.

## FAN CURVES CFM vs EXTERNAL STATIC PRESSURE

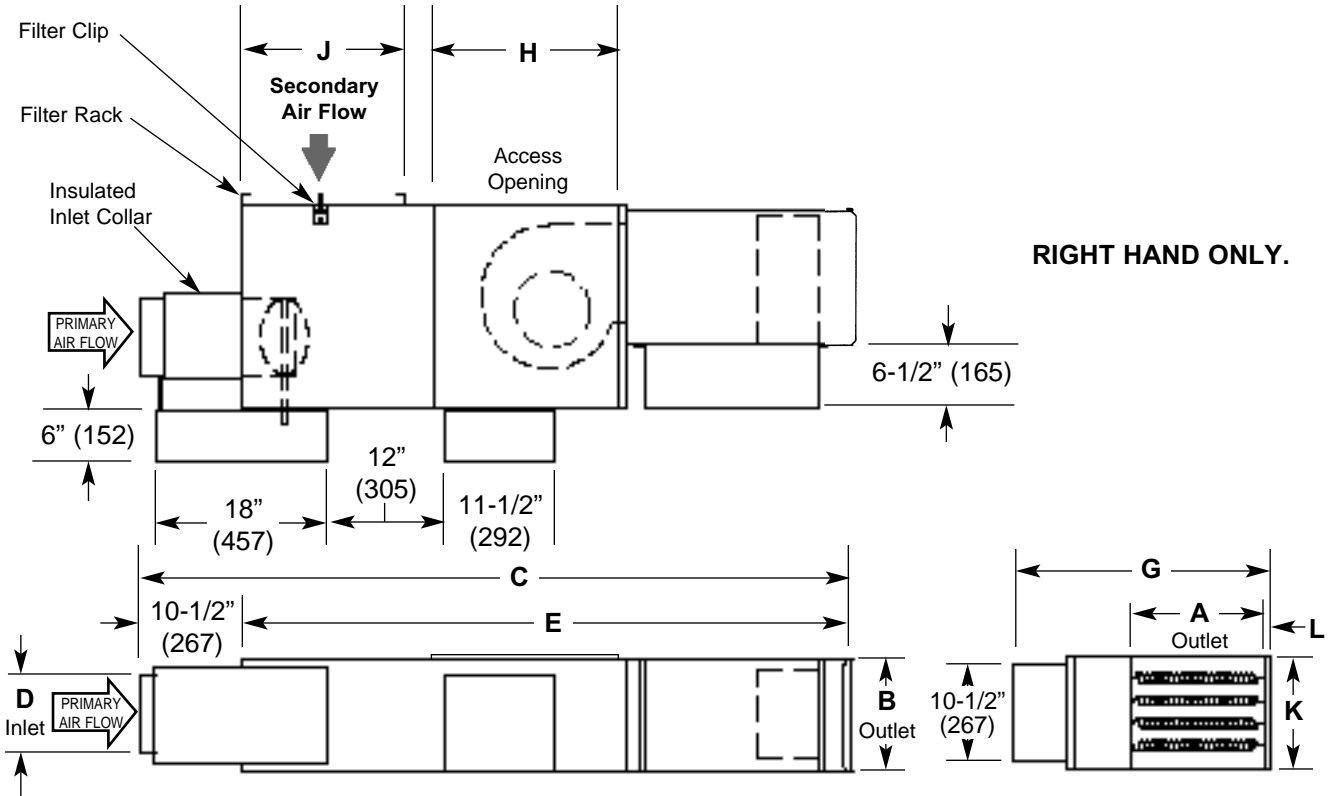
FAN SIZE E - UNDERFLOOR AC U5  
1/4 H.P. Motor



- 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.



**Model ACEH**



**DIMENSIONS LISTED IN INCHES (Millimeters)**

Unit Size	Fan Size	Inlet Size	Primary CFM (L/s)	Secondary CFM (L/s) @ .25 E.S.P.	Fan H.P.	Outlet		C	Inlet		E	G	H	J	K	L
						A	B		D	E						
U1	A	05	350 (165)	295 (139)	1/6				4-7/8 (124)							
U2	B	06	500 (236)	420 (198)	1/6	12 (305)	10-1/2 (267)	72-3/4 (1848)	5-7/8 (149)	62-1/4 (1581)	27 (685)	19-1/4 (489)	16 (406)	10-1/2 (267)	1 (25)	
U3	C	07	700 (330)	680 (321)	1/6				6-7/8 (175)							
U4	D	08	1000 (472)	1000 (472)	1/4				7-7/8 (200)						1-1/2 (38)	
U5	E	10	1500 (708)	1500 (708)	1/2	14 (356)	12-1/2 (318)	72-3/4 (1848)	9-7/8 (251)	62-1/4 (1581)	27 (685)	19-1/4 (489)	17 (432)	12-1/2 (318)	--	

**NOTE:** Outlet is designed for slip and drive duct connection.