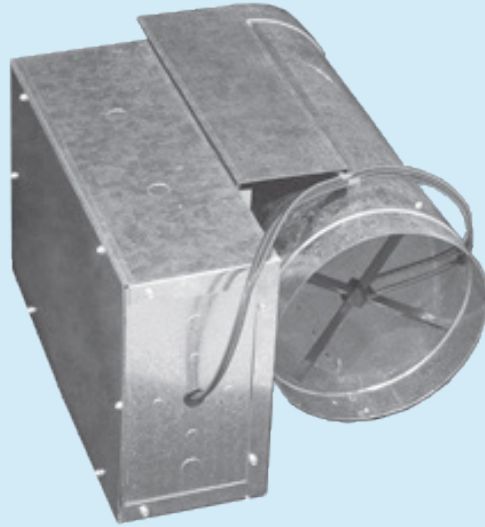


# KVV-R

## Kitchen Variable Air Volume Terminal Unit



- Available in many sizes; mounts in almost any square or rectangular duct.
- Gasketing around the orifice plate and mounting plate give the unit a tight seal inside the existing duct.
- Interior housing fully insulated.
- Multi-point center averaging sensor amplifies flow signal for best control of low flow rates; center averaging feature provides signal accuracy, regardless of inlet duct configuration.
- Multi-blade damper is constructed of heavy gage galvanized steel to prevent vibration under high pressure conditions.
- Elastomer seals on edges of damper blades allow low leakage during full shut off.
- Formed flanges provide added duct stiffness at insertion point.
- Casing may be configured to mount on either right or left side of existing duct.

Halton's Slide-In Terminal Units convert constant volume or booster coil systems into modern, energy efficient variable air volume systems.

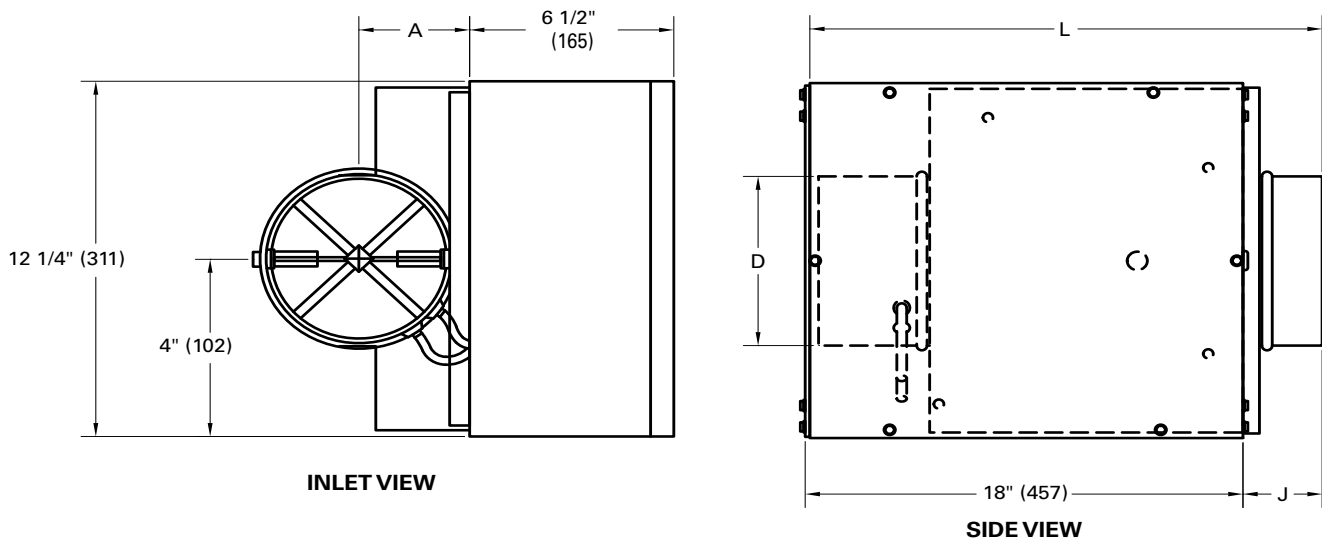
Slide-in terminal units are designed to transform inefficient constant volume systems to present day variable air volume systems with low installation costs. The resulting performance of a system incorporating the Halton's KVV-R series terminal units approaches that of a VAV system using single duct terminal units.

### Unit Capacities

Inlet Size	Airflow CFM [L/s]		Min. Ps.
	Max.	Min.*	
4	230 (109)	40 (19)	0.24
5	360 (170)	62 (29)	0.26
6	515 (243)	89 (42)	0.24
7	700 (330)	121 (57)	0.25
8	920 (434)	159 (75)	0.26
9	1160 (547)	201 (95)	0.26
10	1430 (675)	248 (117)	0.25
12	2060 (972)	357 (168)	0.25
14	2800 (1321)	486 (229)	0.26
16	3660 (1727)	634 (299)	0.25

\* The minimum CFM value is based on a signal of 0.03" WG differential pressure of the inlet sensor. Minimum Ps is measured at maximum airflow.

## Dimensions



## KVV-R Unit with Electronic Controls, Dimensional Details

Unit Size	MAX CFM (L/s)	A	D	J	L	RH(std)/LH	QTY
4	230 (109)	3 9/16" (90)	3 7/8" (98)	11/32" (9)	18" (457)		
5	360 (170)	3 9/16" (90)	4 7/8" (124)	11/32" (9)	18" (457)		
6	515 (243)	3 9/16" (90)	5 7/8" (149)	11/32" (9)	16" (406)		
7	700 (330)	4 1/16" (103)	6 7/8" (175)	11/32" (9)	16" (406)		
8	920 (434)	4 9/16" (116)	7 7/8" (200)	11/32" (9)	16" (406)		
9	1160 (547)	5 1/16" (128)	8 7/8" (225)	2 11/32" (60)	20" (508)		
10	1430 (675)	5 9/16" (141)	9 7/8" (251)	2 11/32" (60)	20" (508)		
12	2060 (972)	6 9/16" (167)	11 7/8" (302)	2 11/32" (60)	20" (508)		
14	2800 (1321)	7 9/16" (192)	13 7/8" (352)	4 11/32" (110)	24" (610)		
16	3660 (1727)	8 9/16" (217)	15 7/8" (403)	4 11/32" (110)	24" (610)		

**Notes:** Dimensions in parentheses are mm. Right hand KVV-R with electronic controls enclosure shown: left-hand is available.

**PERFORMANCE SOUND DATA - DISCHARGE**

Form#: SS054\_KVV-R  
Date:08-2018 - Rev2

Unit Size	Flow Rate		Min ΔPs		0.75" Δ Ps							1.5" Δ Ps							2.5" Δ Ps						
					Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw				
	CFM	(L/s)	"WG	(Pa)	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
4	40	(19)	0.007	(1.80)	37	24	27	25	25	18	-	41	28	31	28	28	23	-	44	31	34	30	31	26	-
	103	(49)	0.048	(11.99)	48	39	39	38	38	30	-	53	43	43	41	42	34	-	56	46	46	44	44	37	-
	167	(79)	0.126	(31.27)	54	46	45	44	45	35	-	59	50	49	48	48	39	-	62	53	52	50	51	42	-
	230	(109)	0.239	(59.50)	58	51	49	49	50	39	-	63	55	53	52	53	43	-	66	58	56	55	55	46	<b>22</b>
5	62	(29)	0.008	(1.93)	38	25	28	27	27	22	-	43	30	33	31	31	27	-	46	34	36	33	33	30	-
	161	(76)	0.052	(13.03)	50	41	41	41	41	34	-	55	46	46	44	44	38	-	59	49	49	47	47	42	-
	261	(123)	0.137	(34.07)	57	49	48	48	48	40	-	62	54	52	51	51	44	-	65	57	56	54	54	48	<b>21</b>
	360	(170)	0.261	(64.93)	61	54	52	52	53	44	-	66	59	57	56	56	48	-	70	63	60	58	59	51	<b>23</b>
6	90	(42)	0.007	(1.86)	39	27	31	30	31	27	-	43	32	36	34	34	31	-	47	36	39	36	37	34	-
	233	(110)	0.050	(12.46)	52	44	44	44	44	38	-	57	48	48	47	47	42	-	61	52	51	49	50	45	-
	377	(178)	0.131	(32.54)	59	52	51	50	51	44	-	64	57	55	54	54	48	-	68	60	58	56	57	51	<b>20</b>
	520	(245)	0.249	(61.98)	64	57	55	55	55	48	-	69	62	59	58	59	52	<b>22</b>	72	66	62	61	61	55	<b>26</b>
7	120	(57)	0.007	(1.84)	40	28	32	32	32	29	-	45	33	37	36	35	33	-	49	37	40	38	38	36	-
	330	(156)	0.056	(13.93)	55	46	47	47	46	42	-	60	51	51	50	50	46	-	63	55	54	52	52	49	-
	525	(248)	0.142	(35.26)	61	54	54	53	53	47	-	66	59	58	56	56	52	-	70	63	61	59	59	55	<b>23</b>
	700	(330)	0.252	(62.69)	66	59	58	57	57	51	-	70	64	62	60	61	55	<b>22</b>	74	68	65	63	63	58	<b>26</b>
8	160	(76)	0.008	(1.93)	42	32	37	35	34	32	-	47	37	41	38	38	36	-	51	40	44	41	40	39	-
	440	(208)	0.059	(14.59)	56	49	49	49	49	44	-	61	53	54	52	52	49	-	65	57	57	55	55	52	-
	675	(319)	0.138	(34.33)	62	56	55	54	55	50	-	67	61	59	58	58	54	<b>24</b>	71	64	62	60	61	57	<b>28</b>
	920	(434)	0.256	(63.78)	67	61	59	59	59	54	-	72	66	63	62	62	58	<b>23</b>	75	69	66	65	65	61	<b>28</b>
9	200	(94)	0.008	(1.90)	42	34	38	36	36	35	-	47	39	42	39	39	39	-	51	42	45	42	42	42	-
	550	(260)	0.058	(14.39)	57	50	51	50	50	47	-	62	55	55	53	53	51	-	66	59	58	56	56	54	-
	875	(413)	0.146	(36.42)	64	58	57	57	57	53	-	69	63	61	60	60	57	<b>21</b>	73	66	64	62	62	60	<b>25</b>
	1160	(547)	0.257	(64.02)	68	62	61	61	61	56	<b>20</b>	74	67	65	64	64	60	<b>25</b>	77	71	68	66	66	63	<b>30</b>
10	250	(118)	0.008	(1.91)	45	35	38	37	38	37	-	49	39	42	41	41	41	-	53	43	45	43	44	44	-
	675	(319)	0.056	(13.94)	59	51	52	51	52	49	-	64	56	56	55	55	53	-	68	60	59	57	58	56	<b>20</b>
	1075	(507)	0.142	(35.37)	66	59	58	58	58	54	-	71	64	62	61	62	59	<b>23</b>	74	67	65	64	64	62	<b>26</b>
	1430	(675)	0.252	(62.58)	70	64	62	62	62	58	<b>22</b>	75	69	66	65	66	62	<b>27</b>	79	72	69	68	68	65	<b>32</b>
12	360	(170)	0.008	(1.93)	47	38	40	40	40	42	-	52	43	45	43	43	46	-	56	47	48	46	45	49	-
	1000	(472)	0.060	(14.86)	61	55	55	54	54	53	-	66	60	59	58	58	58	<b>22</b>	70	63	62	60	60	61	<b>25</b>
	1550	(731)	0.143	(35.71)	68	62	61	61	61	59	<b>23</b>	72	67	65	64	64	63	<b>27</b>	76	70	68	66	67	66	<b>30</b>
	2060	(972)	0.253	(63.07)	72	66	65	65	65	62	<b>26</b>	76	71	69	68	68	66	<b>30</b>	80	75	72	70	71	69	<b>34</b>
14	480	(227)	0.008	(1.90)	48	38	43	42	41	43	-	53	43	47	45	45	47	-	57	47	50	48	47	50	-
	1375	(649)	0.063	(15.55)	63	56	57	57	57	56	<b>20</b>	68	61	61	60	60	60	<b>24</b>	72	65	65	63	63	64	<b>27</b>
	2125	(1003)	0.149	(37.15)	70	64	63	63	63	62	<b>26</b>	75	69	67	66	66	66	<b>30</b>	78	72	71	69	69	69	<b>33</b>
	2800	(1321)	0.259	(64.50)	74	69	67	67	67	65	<b>29</b>	79	74	71	70	70	70	<b>33</b>	82	77	74	73	73	73	<b>37</b>
16	630	(297)	0.008	(1.88)	51	41	44	43	44	45	-	56	46	48	47	47	50	-	59	50	51	43	50	53	-
	1775	(838)	0.060	(14.90)	65	58	59	58	59	59	<b>23</b>	70	63	63	62	62	63	<b>27</b>	74	67	66	64	64	66	<b>30</b>
	2725	(1286)	0.141	(35.13)	71	66	65	64	65	64	<b>28</b>	76	70	69	68	68	68	<b>32</b>	80	74	72	70	71	71	<b>35</b>
	3660	(1727)	0.255	(63.37)	75	70	69	68	69	68	<b>32</b>	80	75	73	72	72	72	<b>36</b>	84	79	76	75	75	75	<b>39</b>

**PERFORMANCE SOUND DATA - RADIATED**

Form#: SS054\_KVV-R  
Date: 08-2018 - Rev2

Unit Size	Flow Rate		Min ΔPs		0.75" Δ Ps							1.5" Δ Ps							2.5" Δ Ps						
					Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw				
	CFM	(L/s)	"WG	(Pa)	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
4	40	(19)	0.007	(1.80)	13	7	8	8	11	7	-	18	12	13	12	16	11	-	21	15	16	16	20	14	-
	103	(49)	0.048	(11.99)	34	29	29	30	33	27	-	39	33	34	35	38	31	-	42	36	37	38	41	34	-
	167	(79)	0.126	(31.27)	44	39	40	41	44	37	-	49	44	44	46	49	41	-	52	47	48	49	52	44	<b>22</b>
	230	(109)	0.239	(59.50)	51	47	47	49	51	43	<b>21</b>	56	51	51	53	56	48	<b>26</b>	59	54	55	57	60	51	<b>30</b>
5	62	(29)	0.008	(1.93)	20	13	10	11	14	10	-	24	18	14	15	19	14	-	27	21	17	19	22	17	-
	161	(76)	0.052	(13.03)	38	33	32	32	35	29	-	43	37	36	37	40	33	-	46	40	39	40	43	36	-
	261	(123)	0.137	(34.07)	48	42	42	43	46	39	-	52	47	47	47	50	43	<b>20</b>	55	50	50	50	54	46	<b>24</b>
	360	(170)	0.261	(64.93)	54	49	50	50	53	46	<b>24</b>	58	53	54	54	57	50	<b>28</b>	61	56	57	57	61	53	<b>32</b>
6	90	(42)	0.007	(1.86)	14	4	7	6	14	5	-	19	10	13	12	19	10	-	23	14	17	16	22	14	-
	233	(110)	0.050	(12.46)	37	30	31	31	36	29	-	42	35	37	37	41	34	-	46	39	41	41	44	38	-
	377	(178)	0.131	(32.54)	49	42	43	43	47	41	-	54	48	49	49	52	46	<b>23</b>	58	52	53	53	55	50	<b>28</b>
	520	(245)	0.249	(61.98)	56	51	51	52	54	49	<b>25</b>	61	57	57	58	59	54	<b>32</b>	65	61	61	62	63	58	<b>36</b>
7	120	(57)	0.007	(1.84)	12	2	7	7	14	6	-	18	8	13	13	19	11	-	22	13	17	17	22	15	-
	330	(156)	0.056	(13.93)	38	31	33	33	38	31	-	44	37	39	39	43	37	-	48	42	43	43	46	41	-
	525	(248)	0.142	(35.26)	50	44	45	45	48	43	-	56	50	51	51	53	48	<b>25</b>	59	55	55	55	57	52	<b>30</b>
	700	(330)	0.252	(62.69)	58	52	52	52	55	50	<b>26</b>	63	58	58	58	60	56	<b>33</b>	67	63	63	62	64	60	<b>38</b>
8	160	(76)	0.008	(1.93)	19	11	7	8	20	9	-	24	17	13	14	25	14	-	27	21	18	18	28	18	-
	440	(208)	0.059	(14.59)	42	32	34	34	38	34	-	47	37	40	40	43	39	-	51	42	45	44	47	43	-
	675	(319)	0.138	(34.33)	52	40	45	45	46	44	-	57	46	51	51	51	49	<b>26</b>	60	50	56	55	54	53	<b>31</b>
	920	(434)	0.256	(63.78)	59	47	54	53	52	52	<b>28</b>	64	52	60	59	57	57	<b>35</b>	68	56	64	63	60	61	<b>40</b>
9	200	(94)	0.008	(1.90)	20	9	10	9	17	10	-	25	14	16	14	21	16	-	28	18	20	19	25	20	-
	550	(260)	0.058	(14.39)	43	35	35	35	40	35	-	48	40	41	40	45	40	-	51	44	45	44	48	44	-
	875	(413)	0.146	(36.42)	54	47	47	47	50	46	<b>21</b>	58	52	53	52	55	51	<b>27</b>	62	56	57	56	59	55	<b>32</b>
	1160	(547)	0.257	(64.02)	60	54	54	54	57	53	<b>29</b>	65	60	60	59	62	58	<b>35</b>	68	64	64	63	65	62	<b>40</b>
10	250	(118)	0.008	(1.91)	14	6	8	9	17	-1	-	20	12	14	15	22	6	-	24	17	19	19	26	10	-
	675	(319)	0.056	(13.94)	41	33	35	35	40	31	-	47	40	41	41	45	38	-	51	45	46	45	49	42	-
	1075	(507)	0.142	(35.37)	54	46	47	47	51	46	<b>21</b>	59	53	54	53	56	52	<b>28</b>	64	58	58	57	60	57	<b>33</b>
	1430	(675)	0.252	(62.58)	61	54	55	54	57	55	<b>30</b>	67	61	62	60	62	62	<b>37</b>	71	66	66	64	66	66	<b>42</b>
12	360	(170)	0.008	(1.93)	22	12	13	10	19	9	-	27	18	19	16	24	15	-	31	23	23	20	27	20	-
	1000	(472)	0.060	(14.86)	46	38	39	37	42	37	-	51	44	44	42	47	43	-	55	48	48	46	51	47	<b>22</b>
	1550	(731)	0.143	(35.71)	56	48	49	48	52	49	<b>24</b>	61	54	55	54	57	55	<b>30</b>	65	59	59	58	61	59	<b>34</b>
	2060	(972)	0.253	(63.07)	63	55	57	56	59	56	<b>31</b>	68	61	62	61	64	62	<b>38</b>	72	66	66	65	67	67	<b>42</b>
14	480	(227)	0.008	(1.90)	9	3	2	11	20	-4	-	16	12	9	17	25	3	-	21	18	14	21	28	8	-
	1375	(649)	0.063	(15.55)	41	34	35	38	43	32	-	48	42	42	44	49	39	-	54	49	47	48	52	45	<b>22</b>
	2125	(1003)	0.149	(37.15)	54	46	49	49	53	47	<b>23</b>	62	55	56	55	58	55	<b>31</b>	67	62	61	59	62	60	<b>36</b>
	2800	(1321)	0.259	(64.50)	63	54	58	56	60	57	<b>33</b>	70	63	65	62	65	64	<b>40</b>	75	70	70	66	68	70	<b>46</b>
16	630	(297)	0.008	(1.88)	25	11	13	12	20	16	-	30	17	19	18	25	21	-	33	21	24	22	29	25	-
	1775	(838)	0.060	(14.90)	49	39	40	39	44	41	-	54	45	47	44	49	46	<b>20</b>	58	50	51	48	53	50	<b>25</b>
	2725	(1286)	0.141	(35.13)	59	51	52	50	54	52	<b>26</b>	64	57	58	55	59	57	<b>33</b>	68	61	62	59	62	61	<b>38</b>
	3660	(1727)	0.255	(63.37)	66	59	59	57	61	59	<b>34</b>	71	65	65	63	66	64	<b>41</b>	75	70	70	67	69	68	<b>46</b>

The company has a policy of continuous product development, therefore we reserve the right to modify design and specifications without notice.

For more information, please contact your nearest Halton agency. To find it: [www.halton.com](http://www.halton.com)