

TrueFRESH Ventilation System

TrueFRESH™ Balanced Ventilation System



Honeywell's TrueFRESH eliminates Balanced Ventilation Systems is a True Time Saver. TrueFRESH eliminates the need for overhead ducting, and balance without adjusting dampers, they change everything when it comes to time consuming installation.

- Removable Duct Collars
- Damperless Balancing
- Adjustable Hanging Straps
- Centralized Wiring and Speed Control
- Customizable
- Compact Size
- Meets ASHRAE 62.2 Standards
- 5-Year Warranty

Application: Energy Recovery Ventilator

Electrical Ratings: 120 Vac

Frequency: 60 Hz

Defrost Control: Exhaust Only Defrost

TrueFRESH Energy Recovery Ventilators

	Product Number	Airflow Capacity (external static pressure)	Current Draw, Nominal (maximum speed)	Type of Core	Apparent Sensible Effectiveness	Total Recovery Ratio
*	VNT5070E1000/U	80 cfm (0.4 in. wc)	0.85 A	Enthalpy 10 inch ERV Core	0.74	0.43
*	VNT5150E1000/U	159 cfm (0.4 in. wc)	1.5 A	Enthalpy 10 inch ERV Core	0.76	0.34
*	VNT5200E1000/U	188 cfm (0.4 in. wc)	1.5 A	Enthalpy 15 inch ERV Core	0.81	0.48

* TRADELINE models • SUPER TRADELINE models

TrueFRESH Heat Recovery Ventilators

	Product Number	Airflow Capacity (external static pressure)	Current Draw, Nominal (maximum speed)	Type of Core	Apparent Sensible Effectiveness	Total Recovery Ratio
*	VNT5070H1000/U	75 cfm (0.4 in. wc)	0.85 A	Polypropylene 10 inch HRV Core	0.72	—
*	VNT5150H1000/U	150 cfm (0.4 in. wc)	1.5 A	Polypropylene 10 inch HRV Core	0.75	—
*	VNT5200H1000/U	200 cfm (0.4 in. wc)	1.5 A	Polypropylene 15 inch HRV Core	0.71	—

* TRADELINE models • SUPER TRADELINE models

Energy Star rated Ventilators

	Product Number	Airflow Capacity (external static pressure)	Current Draw, Nominal (maximum speed)	Type of Core	Apparent Sensible Effectiveness	Total Recovery Ratio
*	VNT6150H1000/U	150 cfm (0.4 in. wc)	1.5 A	Polypropylene 10 inch HRV Core	0.84	—
*	VNT6200H1000/U	200 cfm (0.4 in. wc)	1.5 A	Polypropylene 10 inch HRV Core	0.80	—

* TRADELINE models • SUPER TRADELINE models

Residential Ventilation Replacement Filters

Product Number	Application	Used With
50053952-005/U	Replacement Filter Kit VNT5150 (Kit quantity 2)	VNT5150
50053952-006/U	Replacement Filter Kit VNT5200 (Kit quantity 2)	VNT5200

Residential Ventilation Accessories and Replacement Parts

Product Number	Description	Used With
50048694-001/U	Door Latch, for HR150B, HR200B, ER150B, ER200B, ER150C	HR150B; HR200B; ER150B; ER150C; ER200C; ER200B
50053952-001/U	Polypropylene 10 inch HRV Core for VNT5150H1000	VNT5150H1000
50053952-002/U	Polypropylene 15 inch HRV Core for VNT5200H1000	VNT5200H1000
50053952-003/U	Enthalpy 10 inch ERV Core for VNT5150E1000	VNT5150E1000
50053952-004/U	Enthalpy 15 inch ERV Core for VNT5200E1000	VNT5200E1000
50053952-007/U	6 inch diameter Plastic Double Collar	VNT5150, VNT5200
50053952-008/U	6 inch diameter Plastic Keeper	VNT5150, VNT5200
50053952-009/U	Adjustable Hanging Straps (set)	VNT5070, VNT5150, VNT5200
50053952-010/U	Replacement Motor	VNT5150, VNT5200
50053952-011/U	Condensation Drain Fitting Kit	VNT5070, VNT5150, VNT5200

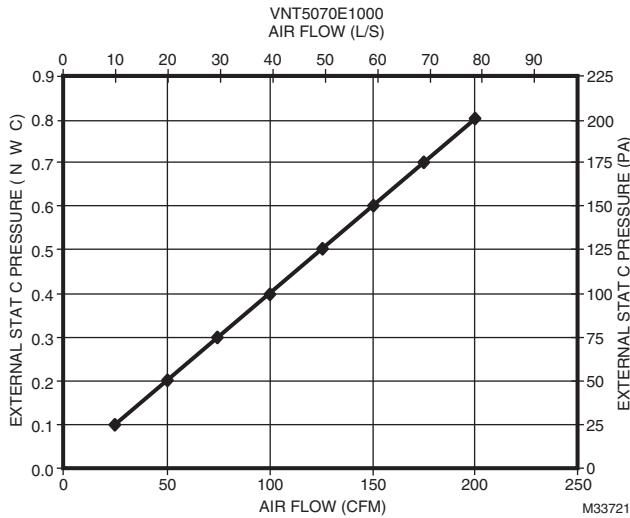
TrueFRESH Ventilation System

Indoor
Air Quality

Product Number	Description	Used With
50053952-012/U	Replacement low voltage control electronic board	VNT5150, VNT5200
50053952-013/U	Replacement high voltage control electronic board	VNT5070, VNT5150, VNT5200
50053952-014/U	Latch and Hinge Kit	VNT5070, VNT5150, VNT5200
50053952-015/U	Front Access Door	VNT5150, VNT5200
50053952-020/U	20-40-60 Minute Boost Control	VNT5150, VNT5200

VNT5070E Ventilation Performance

External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	49	105	49	105	46	97
50	0.2	46	97	47	99	41	86
75	0.3	44	92	44	93	41	86
100	0.4	37	80	38	81	34	73
125	0.5	34	73	35	74	29	63
150	0.6	29	62	29	63	25	52
175	0.7	23	48	23	49	18	37
200	0.8	22	46	22	47	10	20



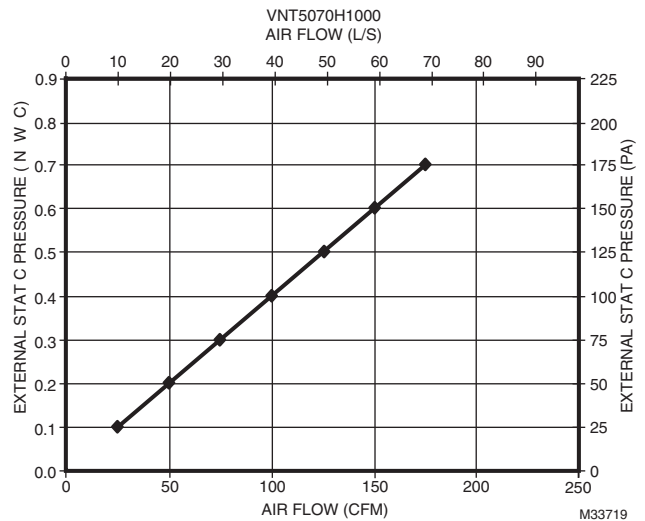
VNT5070E Energy Performance

	Supply Temperature		Net Supply Air Flow		Average Power	Sensible Recovery	Apparent Sensible
	°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
	0	32	20	41	30	65	74
	0	32	30	64	36	64	71
Heating	-15	5	16	35	27	54	80
	35	95	19	41	30		
	35	95					

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VNT5070H Ventilation Performance

External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	47	99	48	100	48	102
50	0.2	44	93	45	94	43	92
75	0.3	39	83	40	84	38	80
100	0.4	35	75	35	75	36	78
125	0.5	30	65	30	66	32	68
150	0.6	27	56	27	57	25	52
175	0.7	22	46	22	47	19	41



VNT5070H Energy Performance

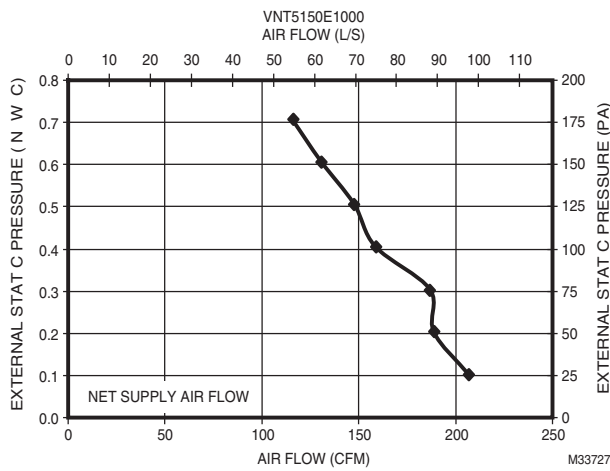
	Supply Temperature		Net Supply Air Flow		Average Power	Sensible Recovery	Apparent Sensible
	°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
	0	32	19	40	28	64	72
	0	32	30	65	40	59	66
Heating	-25	-13	18	37	30	55	73
	35	95					

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VNT5150E Ventilation Performance

External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	97	207	99	210	99	211
50	0.2	89	189	91	193	91	193
75	0.3	88	187	84	179	84	178
100	0.4	75	159	76	162	76	162
125	0.5	70	148	71	150	69	147
150	0.6	62	131	63	133	62	131
175	0.7	55	116	55	118	55	117
200	0.8	49	104	50	106	48	102
225	0.9	42	90	43	91	43	92
250	1.0	36	77	37	78	40	86
275	1.1	32	68	32	69	32	69



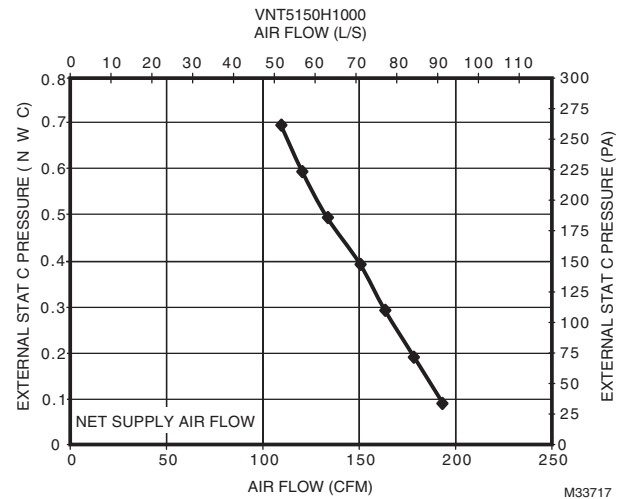
VNT5150E Energy Performance

Supply Temperature		Net Supply Air Flow		Average Power	Sensible Recovery	Apparent Sensible	
°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %	
Heating	0	32	24	51	58	65	76
	0	32	38	80	76	65	73
	0	32	56	118	96	62	70
	-15	5	26	55	59	52	78
	35	95	30	64	66	M33728	

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VNT5150H Ventilation Performance

External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	91	193	91	194	103	217
50	0.2	84	178	85	179	95	201
75	0.3	77	163	77	163	86	183
100	0.4	71	150	71	151	80	169
125	0.5	63	133	63	134	71	152
150	0.6	57	120	57	121	66	138
175	0.7	51	109	51	109	57	121
200	0.8	46	96	46	96	50	106
225	0.9	40	85	40	86	43	91
250	1	35	75	36	75	39	82



VNT5150H Energy Performance

Supply Temperature		Net Supply Air Flow		Average Power	Sensible Recovery	Apparent Sensible	
°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %	
Heating	0	32	31	65	72	66	75
	0	32	39	83	80	63	72
	0	32	50	107	94	60	67
	-25	-13	36	76	72	56	73

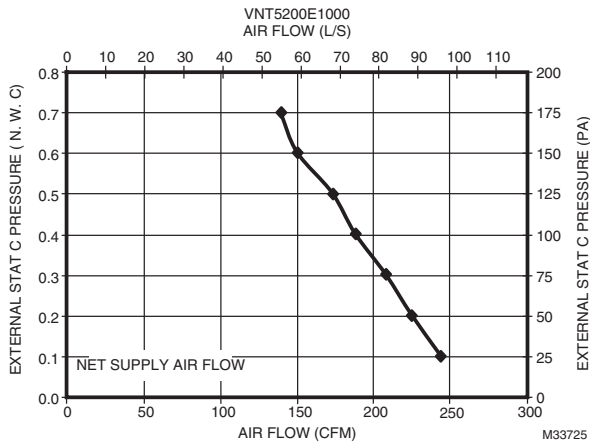
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TrueFRESH Ventilation System

Indoor
Air Quality

VNT5200E Ventilation Performance

External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	115	244	116	247	108	230
50	0.2	106	225	107	228	101	215
75	0.3	98	208	99	210	95	202
100	0.4	88	188	89	190	83	177
125	0.5	81	173	82	175	74	157
150	0.6	71	150	71	152	67	142
175	0.7	65	139	66	140	60	127
200	0.8	57	122	58	124	52	110
225	0.9	49	105	50	106	42	89
250	1	40	86	41	87	37	74
275	1.1	34	72	34	73	30	63



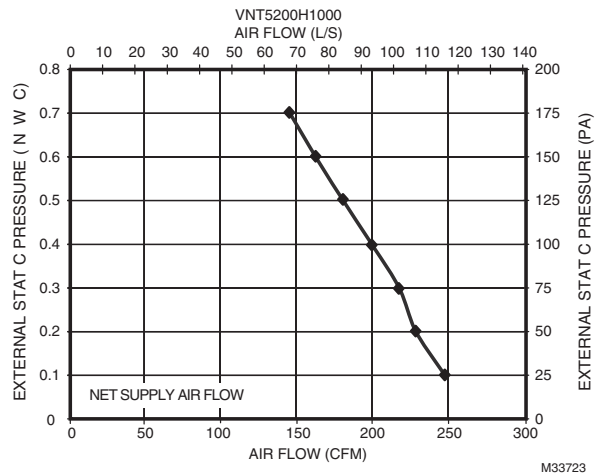
VNT5200E Energy Performance

	Supply Temperature		Net Supply Air Flow		Average Power	Sensible Recovery	Apparent Sensible
	°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
	°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
Heating	0	32	37	78	74	71	81
	0	32	50	107	80	72	79
	0	32	71	150	102	69	77
	-15	5	36	75	65	58	82
	35	95	35	75	72		

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VNT5200H Ventilation Performance

External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	117	248	118	250	130	277
50	0.2	108	229	109	231	119	253
75	0.3	102	218	103	220	110	234
100	0.4	94	200	95	202	101	216
125	0.5	85	181	86	183	92	197
150	0.6	77	163	78	165	82	175
175	0.7	69	146	70	148	71	151
200	0.8	61	129	61	131	60	128
225	0.9	52	110	52	111	49	104
250	1	45	96	46	97	40	86



VNT5200H Energy Performance

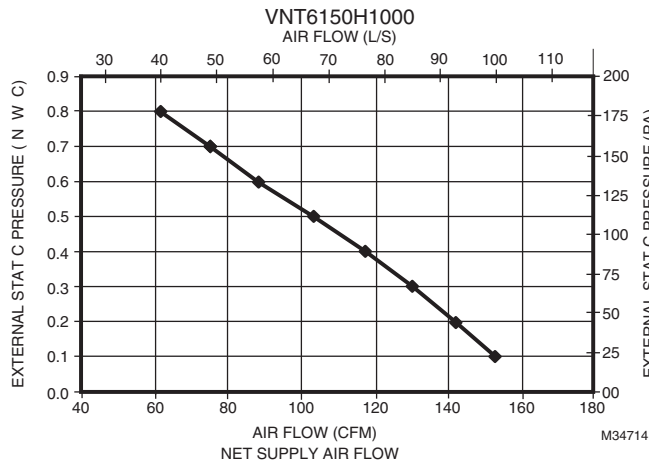
	Supply Temperature		Net Supply Air Flow		Average Power	Sensible Recovery	Apparent Sensible
	°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
	°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
Heating	0	32	55	118	106	61	71
	0	32	75	160	132	58	65
	0	32	87	185	150	55	62
	-25	-13	57	120	105	58	72

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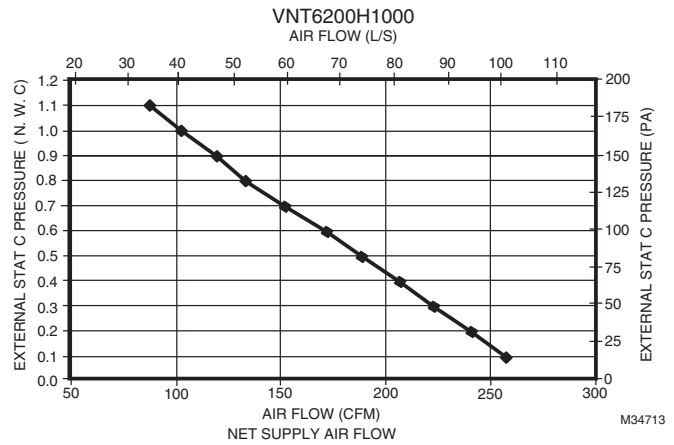
VNT6150H Ventilation Performance

EXTERNAL STATIC PRESSURE		NET SUPPLY AIR FLOW		GROSS AIR FLOW			
				SUPPLY		EXHAUST	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	72	153	72	153	67	142
50	0.2	67	142	68	143	61	129
75	0.3	61	130	62	130	55	116
100	0.4	55	117	55	118	47	101
125	0.5	49	103	49	103	41	87
150	0.6	42	88	42	89	34	73
175	0.7	35	75	35	75	27	59
200	0.8	28	61	28	61	22	46



VNT6200H Ventilation Performance

EXTERNAL STATIC PRESSURE		NET SUPPLY AIR FLOW		GROSS AIR FLOW			
				SUPPLY		EXHAUST	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	122	258	126	260	120	254
50	0.2	114	241	115	242	111	235
75	0.3	105	223	106	225	103	218
100	0.4	98	207	99	209	94	199
125	0.5	89	189	90	190	85	180
150	0.6	81	172	82	174	76	161
175	0.7	72	152	73	154	67	142
200	0.8	63	133	64	135	58	123
225	0.9	56	119	57	121	50	106
250	1.0	48	102	48	102	42	89
275	1.1	41	87	42	88	35	74



VNT6150H Energy Performance

		SUPPLY TEMPERATURE		NET SUPPLY AIR FLOW		AVERAGE POWER	SENSIBLE RECOVERY	APPARENT SENSIBLE
		°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
HEATING	0	32	31	66	52	75	84	
	0	32	40	84	64	73	80	
	0	32	50	106	74	70	77	
	-25	-13	32	68	49	62	81	

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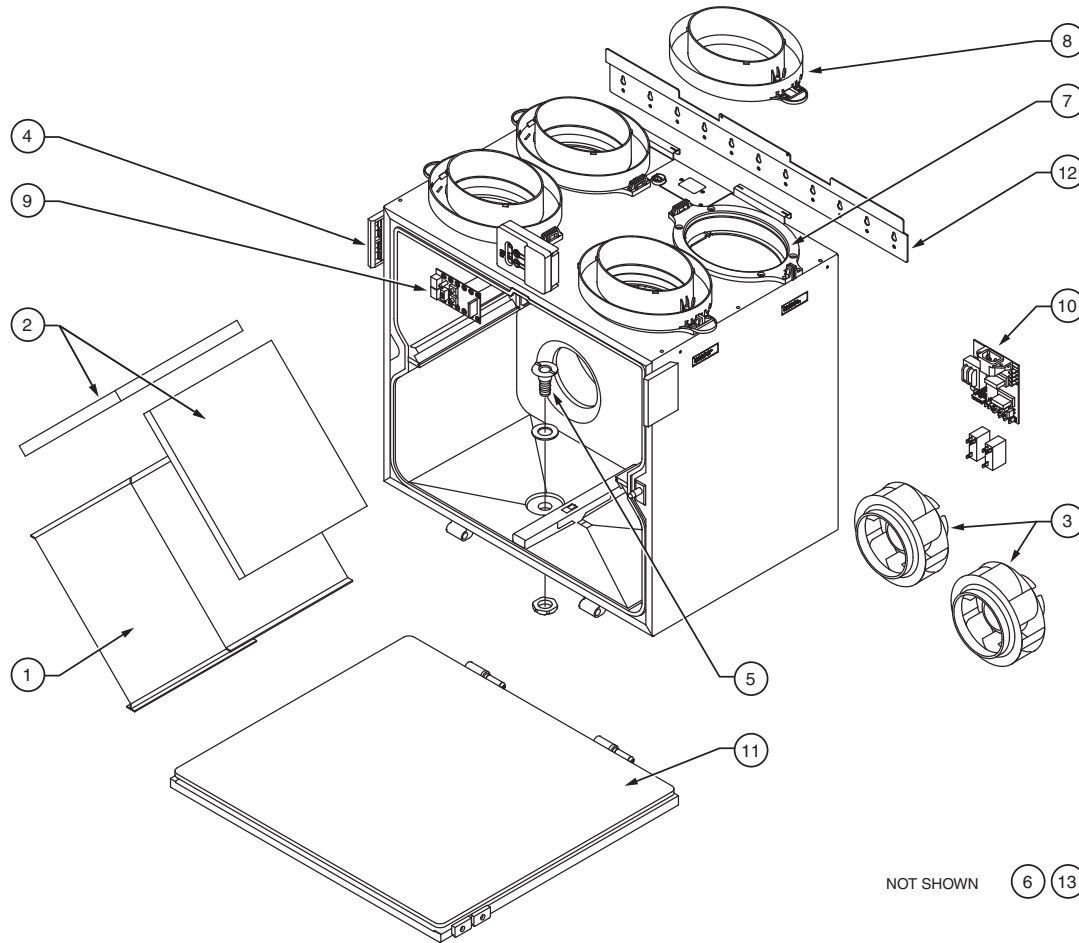
VNT6200H Energy Performance

		SUPPLY TEMPERATURE		NET SUPPLY AIR FLOW		AVERAGE POWER	SENSIBLE RECOVERY	APPARENT SENSIBLE
		°C	°F	L/s	CFM	Watts	Efficiency %	Effectiveness %
HEAT NG	0	32	29	61	62	78	90	
	0	32	43	91	74	76	85	
	0	32	60	127	92	73	80	
	-25	-13	31	66	59	66	88	

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TrueFRESH Ventilation System

VNT5070 Parts List



Indoor
Air Quality

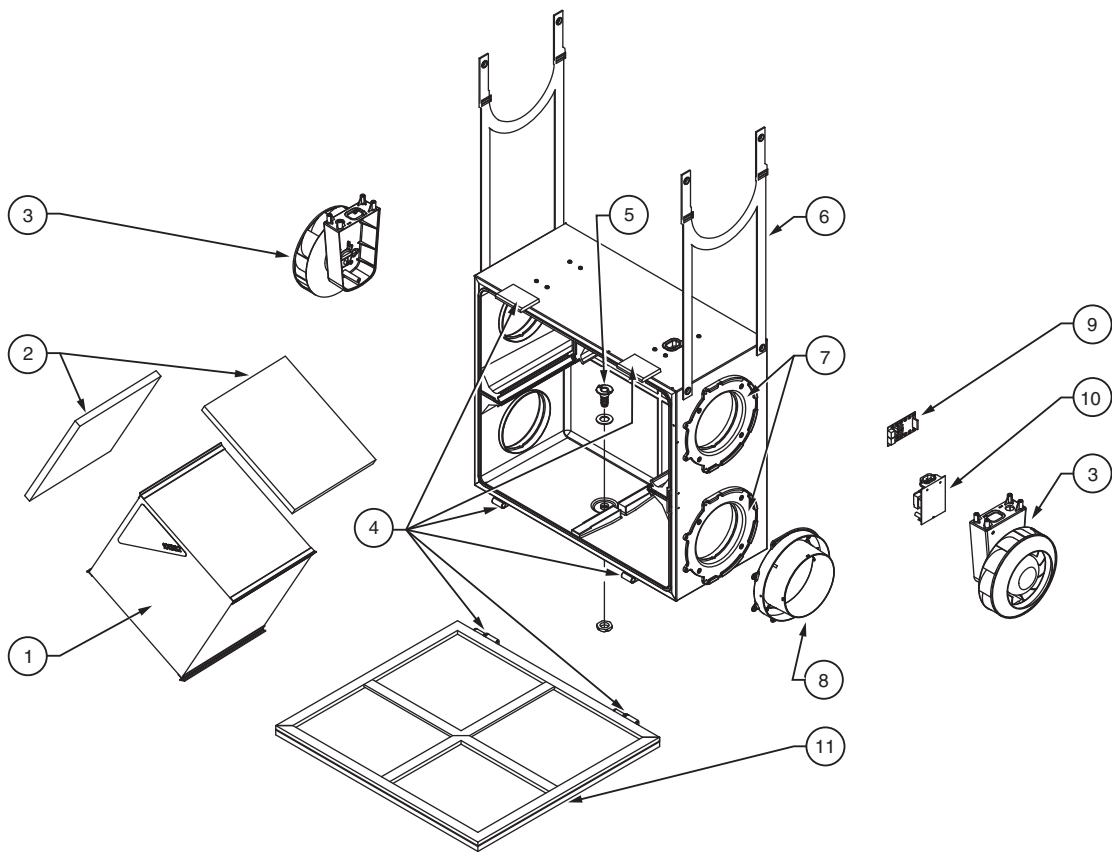
Parts List		
Figure Number	Description	VNT5070
1	Polypropylene HRV Core	50063805-001 9" Core
	Enthalpy ERV Core	50063805-002 9" Core
2	Replacement Filter Kit	50063805-003
3	Replacement Motor	50063805-004
4	Latch & Hinge Kit	50053952-014
5	Condensation Drain Fitting Kit	50053952-011
6	Adjustable Hanging Strap Set (optional on VNT5070)	50053952-009
7	5" diameter Plastic Keeper	50063805-006
8	5" diameter Plastic Collar	50063805-005
9	Replacement LVC Electronic Board (Speed Control)	50063805-010
10	Replacement HVC Electronic Board	50053952-013
11	Front Access Door	50063805-007
12	Mounting Bracket	50063805-008
13	Matrix Ventilation Hood	50063805-009

Parts List (not illustrated)	
Honeywell Part Number	Description
50053952-016	Drain Cap (VNT5150E1000V and VNT5200E1000 only)
50053952-020	20/40/60 Minute Timer

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TrueFRESH Ventilation System

VNT5150 and VNT5200 Parts List



Parts List					
Figure Number	Description	VNT5150		VNT5200	
1	Polypropylene HRV Core	50053952-001	10" Core	50053952-002	15" Core
	Enthalpy ERV Core	50053952-003	10" Core	50053952-004	15" Core
2	Replacement Filter Kit	50053952-005		50053952-006	
3	Replacement Motor			5053952-010	
4	Latch & Hinge Kit			50053952-014	
5	Condensation Drain Fitting Kit			50053952-011	
6	Adjustable Hanging Strap Set (optional on VNT5070)			50053952-009	
7	6" diameter Plastic Keeper			50053952-008	
8	6" diameter Plastic Double Collar			50053952-007	
9	Replacement LVC Electronic Board (Speed Control)			50053952-012	
10	Replacement HVC Electronic Board			50053952-013	
11	Front Access Door			50053952-015	

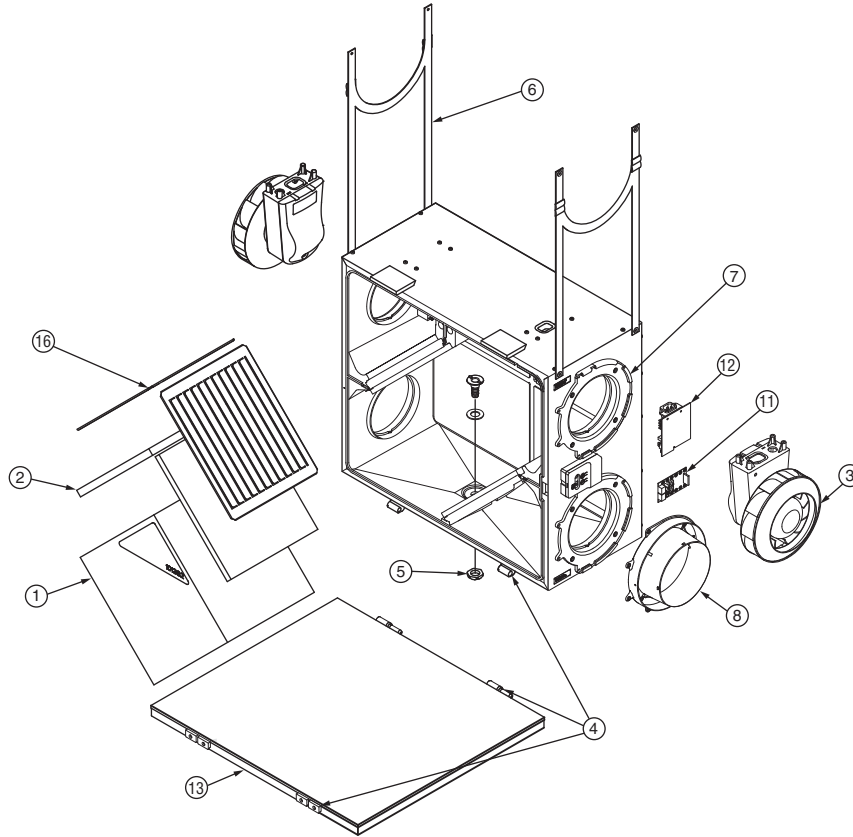
Parts List (not illustrated)	
Honeywell Part Number	Description
50053952-016	Drain Cap (VNT5150E1000V and VNT5200E1000 only)
50053952-020	20/40/60 Minute Timer

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TrueFRESH Ventilation System

VNT6150 and VNT6200 Parts List

Indoor
Air Quality



No.	Description	VNT6150	VNT6200
1	Polypropylene HRV Core	50053952-001 10" Core	50053952-002 15" Core
2	Replacement Filter Kit	50053952-005	50053952-006
3	Replacement Motor	VNT6150XIMPEL1	50053952-010
4	Latch & Hinge Kit	50053952-014	
5	Condensation Drain Fitting Kit	50053952-011	
6	Adjustable Hanging Strap Set	50053952-009	
7	6" diameter Plastic Keeper	50053952-008	
8	6" diameter Plastic Double Collar	50053952-007	
11	Replacement LVC Electronic Board (Speed Control)	VNT6150XLVCBD1	VNT6200XLVCBD1
12	Replacement HVC Electronic Board	50053952-013	
13	Front Access Door	50053952-015	
16	Aluminum Distribution Plates	VNT6150XALPLT1	VNT6200XALPLT1
PARTS NOT DISPLAYED			
	20/40/60 Minute Timer (compatible with all HRVs & ERVs)	50053952-020	

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