



Technical documentation for RVU
COMMISSION REGULATION (EU) No 1253/2014 ANNEX IV

		40VH015A-8S-CEE	40VH025A-8S-CEE	40VH035A-8S-CEE	
(a)	supplier's name or trade mark;	Carrier			
(b)	supplier's model identifier i.e. the code, usually alphanumeric, used to distinguish a specific residential ventilation unit model from other models with the same trade mark or supplier's name;	40VH015A-8S-CEE	40VH025A-8S-CEE	40VH035A-8S-CEE	
(c)	specific energy consumption (SEC) in kWh/(m ² .a) for each applicable climate zone and SEC class;	Cold	-69,9 / A+	-70,6 / A+	-69,0 / A+
		Average	-33,9 / B	-35,0 / A	-33,6 / B
		Warm	-10,6 / E	-12,0 / E	-10,6 / E
(d)	declared typology in accordance with Article 2 of this Regulation (RVU or NRVU, unidirectional or bidirectional);	RVU, bidirectional	RVU, bidirectional	RVU, bidirectional	
(e)	type of drive installed or intended to be installed (multi-speed drive or variable speed drive);	variable speed drive	variable speed drive	variable speed drive	
(f)	type of heat recovery system (recuperative, regenerative, none);	recuperative	recuperative	recuperative	
(g)	thermal efficiency of heat recovery (in % or 'not applicable' if the product has no heat recovery system);	82,0	80,5	80,2	
(h)	maximum flow rate in m ³ /h;	141	230	393	
(i)	electric power input of the fan drive, including any motor control equipment, at maximum flow rate (W);	56	75	152	
(j)	sound power level (L _{WA}), rounded to the nearest integer;	Extra high	43	43	49
		High	40	42	46
		Mid	37	39	41
		Low	35	35	36
(k)	reference flow rate in m ³ /s;	0,027	0,045	0,076	
(l)	reference pressure difference in Pa;	155	185	270	
(m)	SPI in W/(m ³ /h);	0,284	0,233	0,276	
(n)	control factor and control typology in accordance with the relevant definitions and classification in Annex VIII, Table 1;	Control factor	1	1	1
		Control typology	Manual control (no DCV)	Manual control (no DCV)	Manual control (no DCV)
(o)	internal leakage rates (%for bidirectional ventilation units	6,7	5,2	5,1	
	external leakage rates (%for bidirectional ventilation units	+250 (Pa)	20,9	12,6	9,5
		-250 (Pa)	20,0	12,4	8,6
(p)	mixing rate of non-ducted bidirectional ventilation units not intended to be equipped with one duct connection on either supply or extract air side;	-	-	-	
(q)	position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit;	-	-	-	
(r)	for unidirectional ventilation systems, instructions to install regulated supply/exhaust grilles in the facade for natural air supply/extraction;	-	-	-	
(s)	internet address for disassembly instructions as referred to in point 3;	https://www.carrier.com/commercial/en/eu/products/vrf-systems/ecodesign-vrf/			
(t)	for non-ducted units only:the airflow sensitivity to pressure variations at + 20Pa and .20 Pa;	-	-	-	
(u)	for non-ducted units only:the indoor/outdoor air tightness in m3/h. 2.	-	-	-	



Technical documentation for RVU
 COMMISSION REGULATION (EU) No 1254/2014 ANNEX V

		40VH015A-8S-CEE	40VH025A-8S-CEE	40VH035A-8S-CEE		
(a)	the name and address of the supplier;	CARRIER CORPORATION				
(b)	supplier's model identifier i.e. the code, usually alphanumeric, used to distinguish a specific residential ventilation unit model from other models with the same trade mark or supplier's name;	40VH015A-8S-CEE	40VH025A-8S-CEE	40VH035A-8S-CEE		
(c)	where appropriate, the references of the harmonised standards applied;	-	-	-		
(d)	where appropriate, the other calculation methods, measurement standards and specifications used;	-	-	-		
(e)	identification and signature of the person empowered to bind the supplier;					
(f)	where appropriate, the technical parameters for measurements, established in accordance with Annex VIII;	MISC	1,1	1,1	1,1	
		CTRL	1	1	1	
		x-value	2	2	2	
		t _h (h)	Cold	6552	6552	6552
			Average	5112	5112	5112
			Warm	4392	4392	4392
		ΔT _h (K)	Cold	14,5	14,5	14,5
			Average	9,5	9,5	9,5
			Warm	5	5	5
		t _{defr} (h)	Cold	1003	1003	1003
			Average	168	168	168
			Warm	-	-	-
		ΔT _{defr} (K)	Cold	5,2	5,2	5,2
			Average	2,4	2,4	2,4
			Warm	-	-	-
		q _{defr} (kWh/a.m ²)	Cold	5,82	5,82	5,82
			Average	0,45	0,45	0,45
			Warm	-	-	-
		c _{air} (kWh/(m ² K))		0,000344	0,000344	0,000344
		q _{net} (m ³ /h.m ²)		1,3	1,3	1,3
q _{ref} (m ³ /h.m ²)		2,2	2,2	2,2		
t _v (h)		8760	8760	8760		
pef		2,5	2,5	2,5		
η _n		0,75	0,75	0,75		
(g)	overall dimensions;	Length (mm)	778	778	880	
		Width (mm)	735	735	880	
		Height (mm)	278	278	305	
		Weight (kg)	29	29	40	
(h)	specification of the type of RVU;	ducted, bidirectional	ducted, bidirectional	ducted, bidirectional		
(i)	the specific energy consumption class of the model as defined in Annex II;	B	A	B		
(j)	the specific energy consumption (SEC) for each applicable climate zone;	SEC (kWh/(m ² .a))				
		Cold	-69,9	-70,6	-69,0	
		Average	-33,9	-35,0	-33,6	
(k)	sound power level (L _{WA});	Warm	-10,6	-12,0	-10,6	
		Extra high	43	43	49	
		High	40	42	46	
		Mid	37	39	41	
		Low	35	35	36	
(l)	the results of calculations carried out in accordance with Annex VIII.	AEC (kWh electricity/a)				
		Cold	9,3	8,7	9,2	
		Average	4,0	3,3	3,9	
		Warm	3,5	2,9	3,4	
		AHS (kWh primary energy/a)				
		Cold	84	83	83	
Average	43	42	42			
	Warm	19	19	19		



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(a) Supplier's name		CARRIER CORPORATION		
(b) Supplier's model identifier		40VH015A-8S-CEE	40VH025A-8S-CEE	40VH035A-8S-CEE
(c) SEC (kWh/(m ² .a)) / SEC class	Cold	-69,9 / A+	-70,6 / A+	-69,0 / A+
	Average	-33,9 / B	-35,0 / A	-33,6 / B
	Warm	-10,6 / E	-12,0 / E	-10,6 / E
(d) Typology		bidirectional	bidirectional	bidirectional
(e) Type of drive		variable speed drive	variable speed drive	variable speed drive
(f) Type of heat recovery system		recuperative	recuperative	recuperative
(g) Thermal efficiency (%)		82,0	80,5	80,2
(h) Maximum flow rate (m ³ /h)		141	230	393
(i) Electric power input (W)		56	75	152
(j) Sound power level (L _{WA})	Extra high	43	43	49
	High	40	42	46
	Mid	37	39	41
	Low	35	35	36
(k) Reference flow rate (m ³ /s)		0,027	0,045	0,076
(l) Reference pressure difference (Pa)		155	185	270
(m) SPI (W/(m ³ /h))		0,284	0,233	0,276
(n) Control factor		1	1	1
(n) Control typology		Manual control (no DCV)	Manual control (no DCV)	Manual control (no DCV)
(o) Internal leakage rate (%)		6,7	5,2	5,1
External leakage rate (%)	+250(Pa)	20,9	12,6	9,5
	-250(Pa)	20,0	12,4	8,6
(p) Mixing rate		-	-	-
(q) Position and description of visual filter warning		-	-	-
(r) Instructions to install regulated supply/exhaust grilles		-	-	-
(s) Internet address for pre-/dis-assembly instructions		https://www.carrier.com/commercial/en/eu/products/vrf-systems/ecodesign-vrf/		
(t) The airflow sensitivity		-	-	-
(u) The indoor/outdoor air tightness (m ³ /h)		-	-	-
(v) AEC (kWh electricity/a)	Cold	9,3	8,7	9,2
	Average	4,0	3,3	3,9
	Warm	3,5	2,9	3,4
(w) AHS (kWh primary energy/a)	Cold	84	83	83
	Average	43	42	42
	Warm	19	19	19



Technical documentation for NRVU
COMMISSION REGULATION (EU) No 1253/2014 ANNEX V

		40VH050A-8S-CEE	40VH065A-8S-CEE	40VH080A-8S-CEE	40VH100A-8S-CEE	
(a)	manufacturer's name or trade mark;	Carrier				
(b)	manufacturer's model identifier, i.e. the code, usually alphanumeric, used to distinguish a specific non-residential ventilation unit model from other models with the same trade mark or supplier's name;	40VH050A-8S-CEE	40VH065A-8S-CEE	40VH080A-8S-CEE	40VH100A-8S-CEE	
(c)	declared typology in accordance with Article 2 (RVU or NRVU, UVU or BVU);	NRVU, BVU	NRVU, BVU	NRVU, BVU	NRVU, BVU	
(d)	type of drive installed or intended to be installed (multi-speed drive or variable speed drive);	variable speed drive	variable speed drive	variable speed drive	variable speed drive	
(e)	type of HRS (run-around, other, none);	other	other	other	other	
(f)	thermal efficiency of heat recovery (in % or 'not applicable' if the product has no heat recovery system);	75,9	73,9	74,5	74,0	
(g)	nominal NRVU flow rate in m ³ /s;	0,111	0,144	0,178	0,222	
(h)	effective electric power input (kW);	0,105	0,176	0,196	0,291	
(i)	SFPint in W/(m ³ /s);	473	610	552	655	
(j)	face velocity in m/s at design flow rate;	0,85	1,10	0,95	1,18	
(k)	nominal external pressure ($\Delta p_{s, ext}$) in Pa;	80	100	92	110	
(l)	internal pressure drop of ventilation components ($\Delta p_{s, int}$) in Pa;	75	109	136	177	
(m)	optional: internal pressure drop of non-ventilation components ($\Delta p_{s, add}$) in Pa;	-	-	-	-	
(n)	static efficiency of fans used in accordance with Regulation (EU) No 327/2011;	-	39,0	35,5	38,8	
(o)	external leakage rate (%) of the casing of ventilation units	+400 (Pa)	11,9	9,1	11,3	9,1
		-400 (Pa)	9,1	7,0	8,4	6,7
	internal leakage rate (%) of bidirectional ventilation units	5,7	5,1	5,4	5,1	
(p)	energy performance, preferably energy classification, of the filters (declared information about the calculated annual energy consumption);	-	-	-	-	
(q)	description of visual filter warning for NRVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit;	-	-	-	-	
(r)	in the case of NRVUs specified for use indoors, the casing sound power level (L_{WA}), rounded to the nearest integer;	-	-	-	-	
(s)	internet address for disassembly instructions as referred to in point 3.	https://www.carrier.com/commercial/en/eu/products/vrf-systems/ecodesign-vrf/				