

**Date:** 19/12/2017  
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**SUBJECT:**  
**Launch of VAM-J – Lot 6 compliant**

Dear Madam  
 Dear Sir,

Hereby we would like to announce you the sales launch of the new VAM-J series. The unit will be in line with the ErP regulation 2018. The unit is developed by the Daikin engineers in Belgium and produced in Poland.

## 1. Background

According to EU regulation 1253/2014, residential and non-residential ventilation units will have strict leakage requirements effective from January 2018.

### Residential Ventilation Unit (RVU):

Internal and external leakage on the unit is becoming more strict.

Due to this VAM150FC and VAM250FC has been rerated according to EU regulation No 1253/2014.

	VAM150FC	VAM250FC	Rerated VAM150FC	Rerated VAM250FC
Unit $\eta$ lot 6	73.6%	72.2%	89.1%	80.4%
SEC avg. climate [kWh/(m <sup>2</sup> ·a)]	-22.1	-27.0	-27.1	-29.2
SEC class	B	D	B	B
Multi speed drive	OK	OK	OK	OK
Thermal bypass	OK	OK	OK	OK
Filter change signal	OK	OK	OK	OK

### Non-Residential Ventilation Unit (NRVU):

Severe restrictions on the internal and external leakage of the heat exchanger Pressure drop of the filter warning should change to pressure based.

Due to this VAM350FC until VAM2000FC will have a model change for the applicable markets.

		350FC	500FC	650FC	800FC	1000FC	1500FC	2000FC
Lot 6 2018	HE efficiency > 73%	x	x	x	x	x	x	x
	Filter detection	x	x	x	x	x	x	x
	SEC / SFPint	TBC	TBC	TBC	TBC	TBC	TBC	TBC
Lot 11 2020	Fan efficiency	o	o	o	o	o	o	o

*Note: RVU and NRVU are classifications of products, this does not impose limitations on the actual application use*

In order to keep compatible ventilation offer, VAM150FC and VAM250FC will be re-rated and published data will be updated, VAM 350 – 2000 sizes will have a model change and VAM-J series will be introduced for European market.

## 2. Product Concept

VAM unit with a bigger/better heat exchanger and new filter contamination detection logic.

### Improvements:

#### A. Improved bypass operation

More balanced flow in bypass, less pressure drop

#### B. Improved Filters

- Standard filters: New metal framed filter to avoid tearing of the filters while cleaning
- Option filters: New filters with lower pressure drop are introduced for VAM-J models



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## New features:

Automatic ESP selection at installation: same feature as on Daikin DC duct models. Unit to automatically decide rpms based on current/pressure measurement to determine the ESP of the connected ducting.

## 3. Product Range & Timing

	Today	Feb/18	Mar/18
EU + DTAS	VAM150FCVE		CE
	VAM250FCVE		CE
	VAM350FCVE		VAM350J7VEB CE
	VAM500FCVE		VAM500J7VEB CE
	VAM650FCVE		VAM650J7VEB CE
	VAM800FCVE		VAM800J7VEB CE
	VAM1000FCVE		VAM1000J7VEB CE
	VAM1500FCVE		VAM1500J7VEB CE
	VAM2000FCVE		VAM2000J7VEB CE
	Non EU	VAM150FCVE	
VAM250FCVE			CE
VAM350FCVE			
VAM500FCVE			
VAM650FCVE			
VAM800FCVE			
VAM1000FCVE			
VAM1500FCVE			
VAM2000FCVE			

## 4. Accessories

Plenum for sizes 1500 and 2000 to be offered as an option.

New option filters for VAM-J.

New mounting plate for size 650.

Other accessories remain the same.

## 5. Specifications

Residential – VAM\*FC 150–250 Specifications



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Ecodesign specifications			RVU	
Attributes	UoM		VAM150FCVE	VAM250FCVE
Specific energy consumption (SEC)	Cold climate	kWh/(m².a)	-55,97	-60,46
	Average climate	kWh/(m².a)	-22,14	-27,03
	Warm climate	kWh/(m².a)	-0,12	-5,25
SEC class			D	B
Thermal efficiency		%	73,6	72,2
Maximum flow rate	Maximum flow rate	m³/h	130	207
	Electric power input	W	129	160,1
Reference flow rate		m³/s	0,0253	0,0403
Reference pressure difference		Pa	50,0	50,0
Specific power input		W/(m³/h)	0,625	0,445
Maximum external leakage		%	7,42	4,66
Maximum internal leakage		%	4,50	4,50
Annual electricity consumption		kWh/a	18,88	13,55
Annual heating saved		kWh/a	41,01	40,58



RVU - LOT 6 data	
VAM150FCVE	VAM250FCVE
-65,4	-65,1
-27,1	-29,2
-2,51	-6,10
B	B
89,1	80,4
130	207
129	160
0,0253	0,0403
50	50
0,616	0,454
< 10%	< 10%
< 10%	< 10%
18,6	13,8
20,7	19,5

## Commercial – VAM\*J 350–2000 Specifications

Power input (W)		VAM350	VAM500	VAM650	VAM800	VAM1000	VAM1500	VAM2000
Heat recovery	UH	97	164	222	303	416	548	833
	H	70	113	160	212	307	386	614
	L	39	54	77	103	137	191	273
Bypass	UH			238	289	417	525	835
	H			168	194	300	350	600
	L			65	86	119	156	239

AFR (m³/h)		VAM350	VAM500	VAM650	VAM800	VAM1000	VAM1500	VAM2000
Heat recovery	UH	350	500	650	800	1000	1500	2000
	H	300	425	550	680	850	1275	1700
	L	200	275	350	440	550	825	1100
Bypass	UH	350	500	650	800	1000	1500	2000
	H	300	425	550	680	850	1275	1700
	L	200	275	350	440	550	825	1100

ESP (Pa)		VAM350	VAM500	VAM650	VAM800	VAM1000	VAM1500	VAM2000
Max ESP		150	120	120	200	170	200	170
Heat recovery	UH	90	90	90	90	90	90	90
	H	70	70	70	70	70	70	70
	L	50	50	50	50	50	50	50
Bypass	UH	90	90	90	90	90	90	90
	H	70	70	70	70	70	70	70
	L	50	50	50	50	50	50	50

Efficiency JIS *		VAM350	VAM500	VAM650	VAM800	VAM1000	VAM1500	VAM2000
Temp exchange eff 50 hz	UH	85.1%	80.0%		82.5%	79.6%	83.2%	79.6%
	H	86.7%	82.5%		84.2%	81.8%	84.8%	81.8%
	L	90.1%	87.6%		87.7%	86.1%	88.1%	86.1%
enthalpy exch eff 50 hz heating	UH	75.5%	69.0%		72.8%	68.6%	73.8%	68.6%
	H	77.6%	72.2%		75.3%	71.7%	76.1%	71.7%
	L	82.0%	78.7%		80.2%	77.9%	80.8%	77.9%
enthalpy exch eff 50 hz cooling	UH	65.2%	59.2%		67.7%	62.6%	68.9%	62.6%
	H	67.9%	61.8%		70.7%	66.4%	71.8%	66.4%
	L	74.6%	69.5%		76.8%	74.0%	77.5%	74.0%

\*Efficiency measured according to JIS B 8628



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Sound pressure dBA		VAM350	VAM500	VAM650	VAM800	VAM1000	VAM1500	VAM2000
Heat recovery	UH	34.5	37.5	39	39	42	42	45
	H	32	35	36	36	38.5	39	41.5
	L	29	30.5	31	30.5	32.5	33.5	36
Bypass	UH			38	40	42.5	42	45
	H			34.5	36.5	40	39	41
	L			30.5	30.5	32.5	32.5	35

LOT6	VAM350	VAM500	VAM650	VAM800	VAM1000	VAM1500	VAM2000
Efficiency *	77%	73%		75%	73%	77%	73%
Sound power (dB)	51	54	58	58	61	62	65
Nominal flow rate (m³/s)	0.097	0.139	0.181	0.222	0.278	0.417	0.556
Effective electrical PI	0.096	0.171		0.272	0.409	0.475	0.817
SFPint **	465	663		757	972	721	972
Max external leakage	8.99%	6.29%	7.59%			< 8%	
Max internal leakage	6.61%	6.23%	7.30%			< 8%	

\* Efficiency measured according to EN308:1997

\*\* With M6 filter at EA and F7 filter at SA

## Dimensions:

	Height (mm)	Footprint (m²)
VAM350J	301	0,97
VAM500J		
VAM650J	368	1,24
VAM800J		1,58
VAM1000J	368	1,58
VAM1500J	731	1,58
VAM2000J		1,58

## 6. Availability

Sales launch:

VAM 800 – 2000 J → February 2018

VAM 350 – 650 J → March 2018

In case of questions please do not hesitate to contact your Daikin representative.

Strategic Business Development Department  
Daikin Airconditioning Central Europe GmbH