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# /// **RAPID NEWS**

**No: RN/DACE/BDS/ DACE-##-##**

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**Date:** 11/08/2017

**SUBJECT:**

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Update of Small Inverter Chiller Series - new EWA(Y)Q-CAW series

Based on RN PI 17-060

Dear All,

We hereby announce the introduction of the new **EWA(Y)Q~CAW small inverter chiller series** which will replace the current EWA(Y)Q~BAW no more compliant with next coming Ecodesign requirements.

Item

1. Product line-up
2. Product specifications
3. Available options
4. Sales launch / mass production





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## 1. Product line-up

Find here below an overview about new EWA(Y)Q~CAW range.

Product range	Air cooled chiller units cooling only or reversible heat pump
Series name	EWA(Y)Q~CAW
Cooling capacity	7 sizes from 17 kW to 63 kW
Refrigerant	R410A
Compressor	Combination of ON/OFF Scroll + Inverter Scroll (depends on model size)
Evaporator	Plate heat exchanger
Condenser	Copper tubes & aluminium fins
Power Supply	400V / 50Hz / 3Ph+N
Versions	Standard unit (N), unit with pump (P), unit with high static pressure pump (H).
Production location	DENV – Oostende (Belgium)

Referring to the models with unit mounted pump (representing 90% of total sales), compared to previous BAW series, new CAW is achieving much better performances.

In particular:

- **Nominal cooling capacity: +2% (average)**
- **EER (full load efficiency in cooling): + 6% (average)**
- **ESEER (part load efficiency in cooling): +10% (average)**
- **COP (full load efficiency in heating): +4% (average)**

In addition to that, new range will be compliant with new Ecodesign requirements, both Lot1 Tier 2 (min SCOP) and Lot21 Tier 1 (min SEER).

Table 1: Detailed material list.

Current mode line up		New	New line up		
Type	Product nr. = material nr.		Type	Product nr.	Material nr.
C/O	EWAQ016BAW*---	New	C/O	EWAQ016CAW*---	EWAQ016CW*---
	EWAQ021BAW*---			EWAQ021CAW*---	EWAQ021CW*---
	EWAQ025BAW*---			EWAQ025CAW*---	EWAQ025CW*---
	EWAQ032BAW*---			EWAQ032CAW*---	EWAQ032CW*---
	EWAQ040BAW*--R			EWAQ040CAW*---	EWAQ040CW*---
	EWAQ050BAW*--R			EWAQ050CAW*---	EWAQ050CW*---
	EWAQ064BAW*--R			EWAQ064CAW*---	EWAQ064CW*---
H/P	EWYQ016BAW*---	New	H/P	EWYQ016CAW*---	EWYQ016CW*---
	EWYQ021BAW*---			EWYQ021CAW*---	EWYQ021CW*---
	EWYQ025BAW*---			EWYQ025CAW*---	EWYQ025CW*---
	EWYQ032BAW*---			EWYQ032CAW*---	EWYQ032CW*---
	EWYQ040BAW*--R			EWYQ040CAW*---	EWYQ040CW*---
	EWYQ050BAW*--R			EWYQ050CAW*---	EWYQ050CW*---
	EWYQ064BAW*--R			EWYQ064CAW*---	EWYQ064CW*---

- \* = N: naked model without water pump
- \* = P: unit mounted standard water pump
- \* = H: unit mounted high ESP water pump
- = factory mounted options (see paragraph 3).

(Also the EWA/YQ 40/50/64 BAW\*\*\*R - spec updated model name (2 circuit units) will disappear, but new EWA/YQ 40/50/64 CAW\* units will have 2 refrigerant circuit as standard)

## 2. Product specifications

Table 2a: EWA(Y)Q~CAWP (models with unit mounted water pump)

Unit model	016	021	025	032	040	050	064
Cooling capacity [kW]	17,0	21,2	25,5	31,8	42,3	50,7	63,3
EER	2,93	2,84	2,70	2,50	2,80	2,67	2,48
ESEER	4,85	4,70	4,57	4,10	4,40	4,36	4,05
Heating capacity [kW]	16,6	20,8	24,9	31,2	41,7	50,1	62,7
COP	3,02	3,07	2,91	2,93	3,03	2,88	2,93
Height [mm]	1684	1684	1684	1684	1684	1684	1684
Width [mm]	1370	1370	1370	1680	2360	2360	2980
Depth [mm]	774	774	774	774	780	780	780
Weight [kg]	280	332	332	414	604	604	765
Refrigerant circuits [qty]	1	1	1	1	2	2	2

Note: above performances are referred to standard Eurovent conditions.

Note: heating capacity and COP are referred to heat pump models only (EWYQ~BAWP)

Note: above data can be subject to changes, final data to be confirmed on the unit data book.

Table 2a: EWA(Y)Q~CAWN (models without water pump)

Unit model	016	021	025	032	040	050	064
Cooling capacity [kW]	16,8	21,0	25,3	31,6	42,1	50,5	63,2
EER	2,84	2,77	2,63	2,45	2,79	2,63	2,46
ESEER	4,37	4,26	4,17	3,87	4,28	4,18	3,87
Heating capacity [kW]	16,8	21,0	25,1	31,4	41,9	50,3	62,9
COP	3,00	3,05	2,87	2,91	3,06	2,87	2,91
Height [mm]	1684	1684	1684	1684	1684	1684	1684
Width [mm]	1370	1370	1370	1680	2360	2360	2980
Depth [mm]	774	774	774	774	780	780	780
Weight [kg]	268	321	321	403	579	579	741
Refrigerant circuits [qty]	1	1	1	1	2	2	2

Note: above performances are referred to standard Eurovent conditions.

Note: heating capacity and COP are referred to heat pump models only (EWYQ~BAWN)

Note: above data can be subject to changes, final data to be confirmed on the unit data book.

### 3. Available options (factory mounted)

**OPSP:** unit mounted standard water pump. In case OPSP is selected model name is changing (digit 11 changes to P). Example: standard unit model EWAQ016CAWN--- will become EWAQ016CAWP---.

**OPHP:** unit mounted high ESP water pump. In case OPHP is selected model name is changing (digit 11 changes to H). Example: standard unit model EWAQ016CAWN--- will become EWAQ016CAWH---.

**OPZL:** Glycoled chilled water applications down to -10°C. In case OPZL is selected model name is changing (digit 12 changes to B). Example: standard unit model EWAQ016CAWN--- will become EWAQ016CAWNB--.

**OP10:** Evaporator heater tape. In case OP10 is selected model name is changing (digit 13 changes to H). Example: standard unit model EWAQ016CAWN--- will become EWAQ016CAWN-H-.



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#### **4. Available accessories (separate kit shipped loose)**

**EKRP1AHTA:** Digital I/O PCB with additional inputs for: Remote ON/OFF, remote cooling/heating, remote thermo ON/OFF.

**EKRUAHTB:** Additional user interface that can be connected parallel to the one supplied with the unit.

**BHGP26A1:** Digital pressure gauges.

**DTA104A621:** External control adapter for: demand control and low noise control.

#### **5. Start of mass production / sales launch**

Sales launch for the **new series EWA(Y)Q~CAW is planned for 1st October 2017.**

Commercial tools will be released as per the following schedule:

11/08/2017	Rapid News: including nominal performance data and option availability.
15/09/2017	List Price: excel list price.
01/10/2017	Selection software and Data Book
01/10/2017	Mass production

As already mentioned before, **current series EWA(Y)Q~BAW is not complying with next coming Ecodesign standards, in particular:**

**Heat pumps models EWYQ~BAW: not compliant with Lot 1 Tier 2: 26th September 2017**

**Cooling only models EWAQ~BAW: not compliant with Lot 21 Tier 1: 1st January 2018**

Not compliant units need to be placed in local Affiliate stock before the above mentioned deadlines.

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In case of questions please do not hesitate to contact the SBD Department.

Strategic Business Development Department  
Daikin Airconditioning Central Europe GmbH