Date: 04/07/2018	**SUBJECT:**
Author: Immacolata Moretti	**Sales launch of the wired controller BRC1H***

Based on RNPI 18-028

Dear Madam,
Dear Sir,

We would like to announce the sales launch of the **new wired controller BRC1H*** and the related "Madoka" Assistant App.
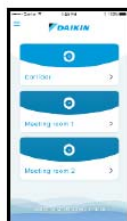

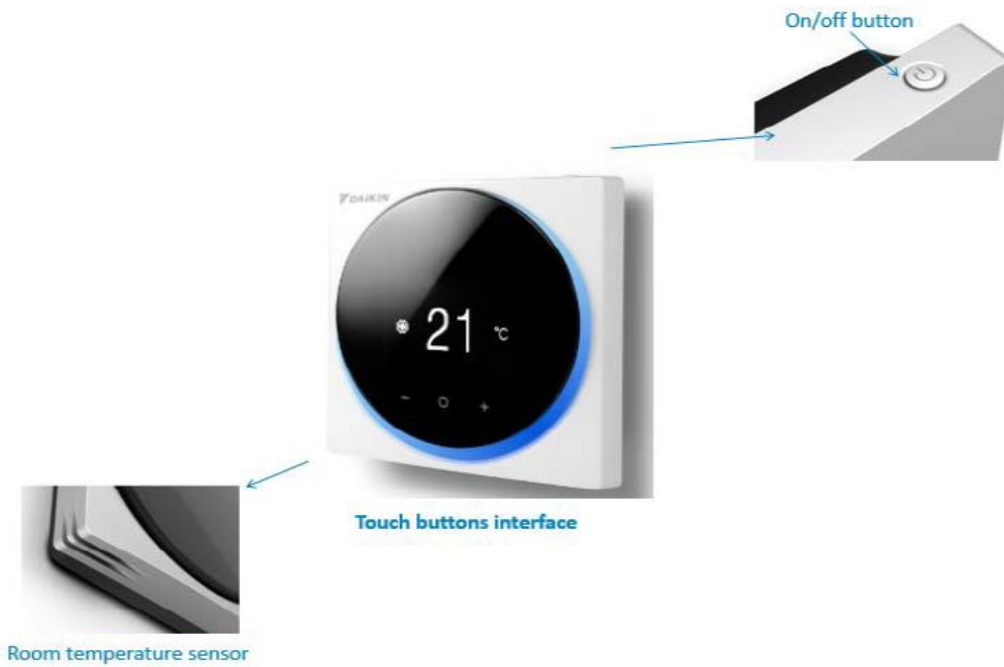| Europe:	BRC1H519W	Europe:	BRC1H519S	Europe:	BRC1H519K
Middle East:	BRC1H81W	Middle East:	BRC1H81S		

BRC1H* is featured with:

- Stylish and trendy outlook design rewarded by the prestigious iF and Red dot design awards
- Compact size 85x85 mm
- "Madoka" Assistant App for advanced and professional users
- Intuitive R/C user interface controlled through touch buttons (except on/off)
- Daikin eye as brand ambassador

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3.12.8 SD v.2

On/off button

Touch buttons interface

Room temperature sensor

1 Functions & features

The functions and the features of **BRC1H*** and the "Madoka" Assistant App are depicted on the below table.

The BRC1H51* of March 18 release for special projects is not compatible with the "Madoka" Assistant App. To be able to use the app, the BRC1H51* software has to be updated using the pc updater tool.

⚠️

			Mar /18	June /18	June/18		July/18		Sep/18	
					Smartphone application		Smartphone application		Smartphone application	
			BRC1H51*	BRC1H519 /81*	Adv. User	Instal.	Adv. User	Instal.	Adv. User	Instal.
Basic operation	Operation Start/Stop		✓	✓	✓	✓	✓	✓	✓	✓
	Operation modes	Cool	✓	✓	✓	✓	✓	✓	✓	✓
		Heat	✓	✓	✓	✓	✓	✓	✓	✓
		Auto	✓	✓	✓	✓	✓	✓	✓	✓
		Dry	✓	✓	✓	✓	✓	✓	✓	✓
		Fan	✓	✓	✓	✓	✓	✓	✓	✓
		Ventilation	✓	✓	✗	✗	✗	✗	✓	✓
	Temperature setpoint adjustment during ON operation	None (indoor unit AUTO)	✓	✓	✓	✓	✓	✓	✓	✓
		Single setpoint (Remote controller Auto)	✗	✗	✗	✗	✗	✗	✗	✗

			Mar /18	June /18	June/18		July/18		Sep/18	
			BRC1H51*	BRC1H519 /81*	Smartphone application		Smartphone application		Smartphone application	
					Adv. User	Instal.	Adv. User	Instal.	Adv. User	Instal.
	Temperature setpoint adjustment during OFF operation	Single setpoint (ind. unit AUTO)	✔	✔	✔	✔	✔	✔	✔	✔
		Dual setpoint* (minimum setpoint differential)	✖	✖	✖	✖	✖	✖	✖	✖
		Setback*	✖	✖	✔	✔	✔	✔	✔	✔
	Special operation modes	Ventilation modes	✔	✔	✖	✖	✖	✖	✔	✔
		Quick start	✖	✖	✖	✖	✖	✖	✔	✔
		Quiet operation	✖	✖	✖	✖	✖	✖	✔	✔
	Fan speed adjustment	Auto	✔	✔	✔	✔	✔	✔	✔	✔
		2/3/5 steps	✔	✔	✔	✔	✔	✔	✔	✔
	Airflow direction adjustment	Vertical swing	✔	✔	✔	✔	✔	✔	✔	✔
		Vertical auto	✔	✔	✔	✔	✔	✔	✔	✔
		Vertical fixed positions	✔	✔	✔	✔	✔	✔	✔	✔
		Horizontal swing	✔	✔	✔	✔	✔	✔	✔	✔
		Horizontal fixed positions	✔	✔	✔	✔	✔	✔	✔	✔
	Weekly schedule timer*	Multiple actions a day	✖	✖	✖	✖	✔	✔	✔	✔
		Multiple schedules	✖	✖	✖	✖	✔	✔	✔	✔
		Turn schedule ON/OFF	✖	✖	✖	✖	✔	✔	✔	✔
	Holiday	Select day to disable schedule	✖	✖	✖	✖	✖	✖	✔	✔
Information	Temperature display	Indoor temperature (indoor unit or remote controller)	✔	✔	✔	✔	✔	✔	✔	✔
		Outdoor temperature (outdoor temperature)	✖	✖	✔	✔	✔	✔	✔	✔
	Error indications	Error code	✔	✔	✔	✔	✔	✔	✔	✔
		Error history	✖	✖	✖	✔	✖	✔	✖	✔
	Special operations indication		✔	✔	✔	✔	✔	✔	✔	✔
	Filter indication	Display	✔	✔	✔	✔	✔	✔	✔	✔

			Mar /18	June /18	June/18 Smartphone application		July/18 Smartphone application		Sep/18 Smartphone application	
			BRC1H51*	BRC1H519 /81*	Adv. User	Instal.	Adv. User	Instal.	Adv. User	Instal.
		Reset	✓	✓	✗	✗	✗	✗	✓	✓
	Energy consumption	Daily view: 2-hourly basis, compare with previous day	✗	✗	✗	✗	✗	✗	✓	✓
		Weekly view: daily basis, compare with previous week	✗	✗	✗	✗	✗	✗	✓	✓
		Yearly view: monthly basis, compare with previous year	✗	✗	✗	✗	✗	✗	✓	✓
	Maintenance information	Contact information	✗	✗	✗	✗	✗	✗	✓	✓
		Indoor and outdoor unit model number	✗	✗	✓	✓	✓	✓	✓	✓
	Unit status		✗	✗	✗	✗	✗	✗	✗	✓
	Operation hours		✗	✗	✗	✗	✗	✗	✗	✓
	Addressed sensor value		✗	✗	✗	✗	✗	✗	✗	✓
	Demo function		✗	✗	✓	✓	✓	✓	✓	✓
Advanced operation	Airflow direction	Horizontal range (left, central, right blow)	✗	✗	✓	✓	✓	✓	✓	✓
		Individual airflow direction	✗	✗	✓	✓	✓	✓	✓	✓
		Draft prevention	✗	✗	✓	✓	✓	✓	✓	✓
	Quiet operation		✗	✗	✗	✗	✗	✗	✓	✓
	Test operation		✗	✗	✗	✓	✗	✓	✗	✓
	Forced fan ON		✗	✗	✗	✗	✗	✓	✗	✓
	Forced defrost		✗	✗	✗	✗	✗	✗	✗	✗
Configuration	Temperature control	Setback settings	✗	✗	✓	✓	✓	✓	✓	✓
		Setpoint range limitation	✗	✗	✓	✓	✓	✓	✓	✓
	Button lock	Menu button	✗	✗	✗	✗	✓	✓	✓	✓
		Left/right button	✗	✗	✗	✗	✓	✓	✓	✓
		ON/OFF button	✗	✗	✗	✗	✓	✓	✓	✓
	Lock functionality	ON/OFF control	✗	✗	✗	✗	✓	✓	✓	✓
		Operation mode control	✗	✗	✗	✗	✓	✓	✓	✓
		Setpoint control	✗	✗	✗	✗	✓	✓	✓	✓

			Mar /18	June /18	June/18		July/18		Sep/18	
					Smartphone application		Smartphone application		Smartphone application	
			BRC1H51*	BRC1H519 /81*	Adv. User	Instal.	Adv. User	Instal.	Adv. User	Instal.
		Fan speed control	✘	✘	✘	✘	✔	✔	✔	✔
		Airflow direction control	✘	✘	✘	✘	✔	✔	✔	✔
		Individual operation modes	✘	✘	✘	✘	✔	✔	✔	✔
		Ventilation rate changes	✘	✘	✘	✘	✔	✔	✔	✔
		Ventilation mode changes	✘	✘	✘	✘	✔	✔	✔	✔
		Setpoint range limitation	✘	✘	✘	✘	✔	✔	✔	✔
		Setback	✘	✘	✘	✘	✔	✔	✔	✔
		Presence sensor - temp adjust	✘	✘	✘	✘	✔	✔	✔	✔
		Presence sensor - auto OFF	✘	✘	✘	✘	✔	✔	✔	✔
		Setpoint auto reset	✘	✘	✘	✘	✘	✘	✔	✔
		Off timer	✘	✘	✘	✘	✘	✘	✔	✔
		Schedule timer	✘	✘	✘	✘	✔	✔	✔	✔
		Filter auto clean	✘	✘	✘	✘	✔	✔	✔	✔
		Clock & Calendar	✘	✘	✘	✘	✔	✔	✔	✔
		Quiet operation	✘	✘	✘	✘	✔	✔	✔	✔
		Draft prevention	✘	✘	✘	✘	✔	✔	✔	✔
		Rotation	✘	✘	✘	✘	✔	✔	✔	✔
		Individual airflow direction	✘	✘	✘	✘	✔	✔	✔	✔
		External input interlock	✘	✘	✘	✘	✔	✔	✔	✔
		Airflow direction range	✘	✘	✘	✘	✔	✔	✔	✔
		Power limitation	✘	✘	✘	✘	✘	✘	✔	✔
	Energy saving	Power limitation	✘	✘	✘	✘	✘	✘	✔	✔
		Presence sensor	✘	✘	✔	✔	✔	✔	✔	✔
		Auto OFF timer	✘	✘	✘	✘	✘	✘	✔	✔
		Setpoint auto reset	✘	✘	✘	✘	✘	✘	✔	✔

		Mar /18	June /18	June/18 Smartphone application		July/18 Smartphone application		Sep/18 Smartphone application	
		BRC1H51*	BRC1H519 /81*	Adv. User	Instal.	Adv. User	Instal.	Adv. User	Instal.
Filter auto clean		✘	✘	✔	✔	✔	✔	✔	✔
Date & time		✘	✔	✔	✔	✔	✔	✔	✔
Remote controller display		✔	✔	✔	✔	✔	✔	✔	✔
Setting migration		✘	✘	✘	✘	✘	✘	✘	✔
Lock application control	Passcode	✘	✘	✘	✘	✘	✘	✔	✔
Main/sub (information)		✔	✔	✘	✘	✘	✘	✘	✘
Field settings		✔	✔	✘	✔	✘	✔	✘	✔
Addressing	Unit number	✘	✘	✘	✔	✘	✔	✘	✔
	DIII central address	✔	✔	✘	✔	✘	✔	✘	✔
	Airnet address	✔	✔	✘	✘	✘	✔	✘	✔
Interlocking with external inputs		✔	✔	✘	✘	✘	✘	✘	✔
Duty rotation		✘	✘	✘	✔	✘	✔	✘	✔
Multi-language interface		✘	✘	✔	✔	✔	✔	✔	✔
Firmware update	Wired: in combination with updater & EKPCCAB4	✔	✔	✘	✘	✘	✘	✘	✘
	Wireless: APP**	✘	✔	✘	✘	✔	✔	✔	✔

Available functionality depends on the connected indoor unit and accessories

*) Functionality is disabled when central controller is connected

**) The OTA depends on smartphone chip. If connection (bonding) fails, make sure that the bonding information is deleted on both the BRC1H and the smartphone and try again. If it doesn't succeed, another smartphone should be used.

2 BRC1H* Software update

If a software update of the **BRC1H*** is required, then one of the following options can be used:

1. PC updator tool EKPCCAP4 with the PC software available on the Business Portal
2. PC updator tool EKPCCAP3 with an additional dedicated wiring adaptor available as spare part no. 5021367. The PC software is available on the Business Portal
3. "Madoka" Assistant App. The target release of this new feature July 2018 via an app update. Partial update (Bluetooth module) will be supported as of June 2018.

3 Assistant App

The "Madoka" Assistant App is based on Bluetooth Low Energy technology.
This app will be compatible with Android and iOS system and will be available on the following app stores:

❂ Bluetooth®

| Operating system	Version	Typical models
Apple iOS	8.0 or higher	iPhone 5 and later iPad 2 and later All iPad mini's iPod Touch 5th generation and later
Android	5.0 or higher Bluetooth Low Energy 4.2 or higher	/

The "Madoka" Assistant App supports 2 profiles:

- Advanced user (default): provide access to the basic control and advanced features such as setback, setpoint limitation, date & time
- Professional user: provide access to commissioning & maintenance functions such as field settings, DIII central addressing.

The upgrade from the default advanced user to the professional profile is supported through a special procedure available on the documentation dedicated to professional users.
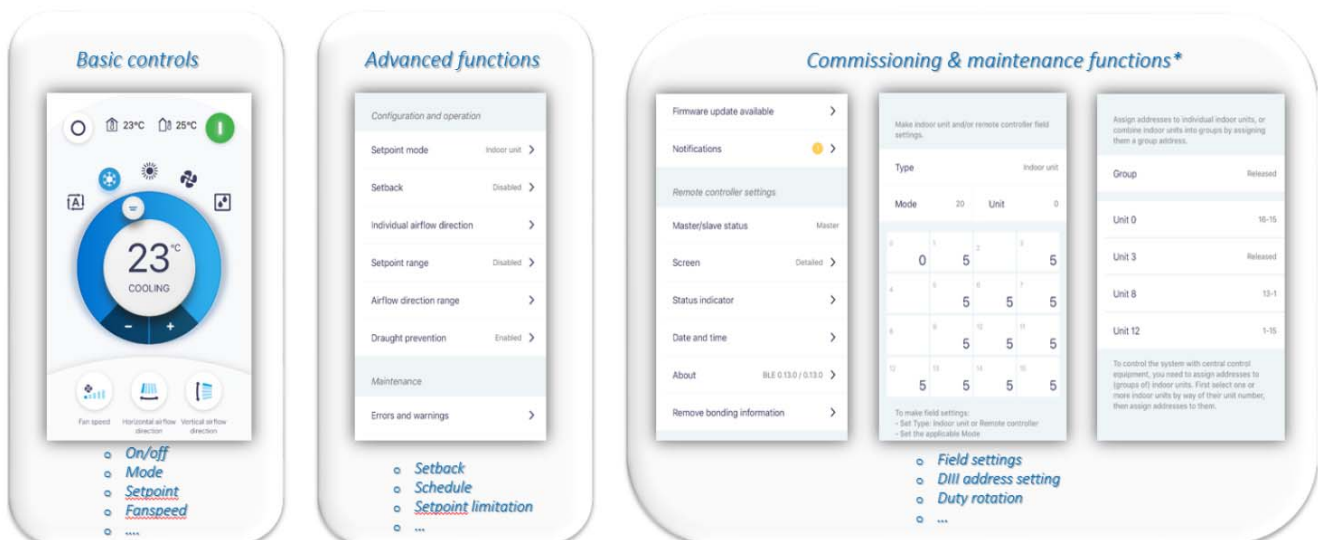
The pairing between the Assistant App and **BRC1H*** is based on numeric comparison:

Number generated ↔ Number appearing on the app for confirmation
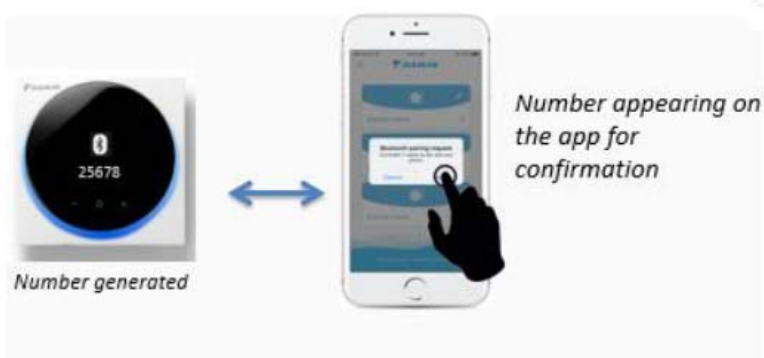
Up to 10 paired devices can be stored on **BRC1H***. If the number of paired devices exceeds 10, then the oldest pairing will be replaced by the new one.

The "Madoka" Assistant App is offering a **demo mode** to experience the functions & the features

4 Compatibility

4.1 Unit compatibility

	Type	Model name	BRC1H51*	BRC1H519*	BRC1H81*
Sky Air	Ceiling mounted cassette	FCAHG-F	O	O	O
		FCAHG-G	O	O	O
		FCQHG-F	O	O	O
		FCQG-F	O	O	O
		FCAG-A	O	O	O
		FCQ-EVM			O
		FFQ-C	O	O	O
		FFA-A	O	O	O
	Concealed ceiling	FDBQ-B	O	O	O
		FDXS-F3	O	O	O
		FBQ-D	O	O	O
		FBQ-EVM			O
		FBA-A	O	O	O
		FDQ-C	O	O	O
		FDA-A	O	O	O
		FDQ-B	O	O	O
		ADEQ-C	O	O	O
		ABQ-C	O	O	O
	Wall mounted	FAQ-C9	O	O	O
		FAQ-B	O	O	O
		FAA-A	O	O	O
	Ceiling suspended	FHQ-CB	O	O	O
		FHA-A	O	O	O
		FUQ-C	O	O	O
		AHQ-C	O	O	O

		FUA-A	O	O	O
	Floor standing	FVQ-C	O	O	O
		FNQ-A	O	O	O
		FVA-A	O	O	O
	Round flow Cassette(3x3)	ACQ-C	O	O	O
	Large duct	FDQ-B/C	O	O	O
	Air curtains	CYVQ	O	O	O
VRV	Ceiling mounted cassette	FXFQ-A	O	O	O
		FXFQ-P			O
		FXZQ-A	O	O	O
		FXCQ-A	O	O	O
		FXKQ-MA	O	O	O
	Concealed ceiling	FXDQ-M9	O	O	O
		FXDQ-A3	O	O	O
		FXDQ-A	O	O	O
		FXSQ-A	O	O	O
		FXMQ-P7	O	O	O
		FXMQ-PVE			O
		FXMQ-MB	O	O	O
		FXTQ-A	O	O	O
		FDXM-F3	O	O	O
	Wall mounted	FXAQ-P	O	O	O
		FXAQ-PVE			O
		FXAQ-PVER1			O
		FXAQ-A	O	O	O
	Ceiling suspended	FXHQ-A	O	O	O
		FXUQ-A	O	O	O
	Floor standing	FXLQ-P	O	O	O
		FXNQ-A	O	O	O
	Duct - Small	FXDQ-M	O	O	O
	Duct - Slim	FXDQ-P	O	O	O
	Duct - Standard	FXSQ-P	O	O	O
	Duct - high ESP	FXMQ-P/MA/PVE	O	O	O
	Floor standing- concealed	FXNQ-P	O	O	O
	Air curtains	CYVM	O	O	O
RA	Slim duct	FDXS-F3	O	O	O
		FDXM-F3	O	O	O
VAM	Ventilation unit	VAM-FA/FB/FC/J	O	O	O
VKM	Ventilation unit	VKM-GB/GBM	O	O	O
ERQ	control box	EKEQDCB(A)/FCB/MCB(A)	O	O	O

4.2 Options compatibility

	Type Controller	Option	BRC1H51*	BRC1H519*	BRC1H81*
Controllers	RC for Sky Air & VRV	BRC1E53A/B/C	✗	✗	✗
	wired RC for Sky Air & VRV	BRC1D52	✗	✗	✗

	Simplified RC for hotel applications	BRC2(3)E52C	✗	✗	✗
	VAM wired RC	BRC301B61	✗	✗	✗
	Daikin Online Controller	BRP069A81	✓	✓	✓
	Centralised remote control	DCS302C51	✓	✓	✓
	Schedule timer	DST301B51	✓	✓	✓
	Unified ON/OFF control	DCS301B51	✓	✓	✓
	intelligent Touch Controller	DCS601C51	✓	✓	✓
	intelligent Tablet Controller	DCC601A51	✓	✓	✓
	intelligent Touch Manager	DCM601A51	✓	✓	✓
standard protocol interfaces	KNX Interface	KLIC - DI	TBC	TBC	TBC
	Modbus interface	RTD-10/20/NET/HO	✓	✓	✓
		EKMBDXA	✓	✓	✓
	LonWorks interface	DMS504B51	✓	✓	✓
	BACnet interface	DMS502A51	✓	✓	✓
adapter PCB's		KRP2A5*/KRP4A5*	✓	✓	✓
		DTA104A*	✓	✓	✓
		DTA103A51	✓	✓	✓
Basic solution for control of Sky Air & VRV		DTA113B51	✓	✓	✓
Key card & window contact adapter Digital input adapter		BRP7A51/52/53/54	✓	✓	✓
Updater tool (PC program via PC cable		EKPCCAB4	✓	✓	✓

5 Available promotion material

The below documentation is available on the Business Portal:

- Rapid News on the **BRC1H*** name & logo use (RNPI- 18-035)
- Product leaflet
- Catalogue
- Remote controller pictures and installation pictures
- CAD drawings
- Datasheet
- Installation manual
- Operation manual

A demo case with the BRC1H* is available for the promotion. For further details, please contact DENV Promotion.

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3.12.8 SD v.2

6 Abolishment of materials

The **BRC1H*** remote controller will replace the following remote controllers:
- BRC1E53A/B/C
- BRC2E52C
- BRC3E52C

A transition period is foreseen to phase out E type remote controller.

7 Sales launch

BRC1H* and the "Madoka" Assistant App will be available by the beginning of June 2018.

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

Strategic Business Development Department
Daikin Airconditioning Central Europe GmbH