CLIVET®

Inspiring Solutions. Since 1989

2° GENERATION VRF

INDOOR UNITS + HRV + CONTROLS

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Midea

2° GENERATION VRF
INDOOR UNITS
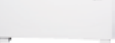
Indoor units lineup 2018 – 1st generation

	Name		Series	kW 1,5	1,8	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	10,0	11,2	12,5	14,0	16,0	20,0	25,0	28,0
Cassette	1-way cassette		Q1DN-XMi		A18	A22	A28	A36	A45	A56	A71										
	2-way cassette		Q2DN-XMI			A22	A28	A36	A45	A56											
	Compact 4-way cassette		Q4AN-XMI	D15		D22	D28	D36	D45												
	4-way cassette		Q4DN-XMI				D28	D36	D45	D56	D71	D80	D90	D100	D112		D140				
Duct	Medium static pressure Duct		CNT2-XMI	D15		D22	D28	D36	D45	D56	D71	D80	D90		D112		D140				
	High static pressure Duct		CN-XMI								D71	D80	D90		D112		D140	D160	D200	D250	D280
	Fresh air processing unit		CNFA-XMI													D125	D140		D200	D250	D280
Wall mounted			GWMN-XMI			D22	D28	D36	D45	D56	D71	D80	D90								
Ceiling & floor			DDLC-XMI					D36	D45	D56	D71	D80	D90		D112		D140				
Console			DNB-XMI			D22	D28	D36	D45												
Floor standing			DZGF3B-XMI			D22	D28	D36	D45	D56	D71	D80									
			DZDF4-XMI			D22	D28	D36	D45	D56	D71	D80									
			DZDF5-XMI			D22	D28	D36	D45	D56	D71	D80									
Hydromodule			HWM-XMI														140				

Indoor units lineup 2019 – 2nd generation

7.1 kW (red box)

Phase-out 1.5 kW

Phase-out 1.5 kW

	Name	Series	1,5	1,8	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	10,0	11,2	12,5	14,0	16,0	20,0	25,0	28,0
Cassette	1-way cassette	NEW		A18	A22	A28	A36	A45	A56	A71										
	2-way cassette	NEW			A22	A28	A36	A45	A56											
	Compact 4-way cassette	NEW	D̶		D22	D28	D36	D45												
	4-way cassette	NEW			D22	D28	D36	D45	D56	D71	D80	D90	D100	D112		D140				
Duct	Medium static pressure Duct	NEW	D̶		D22	D28	D36	D45	D56	D71	D80	D90		D112		D140				
	High static pressure Duct	NEW								D71	D80	D90		D112		D140	D160	D200	D250	D280
	Fresh air processing unit	NEW													D125	D140		D200	D250	D280
Wall mounted		NEW			D22	D28	D36	D45	D56	D71	D80	D90								
Ceiling & floor		NEW					D36	D45	D56	D71	D80	D90		D112		D140				
Console		NEW			D22	D28	D36	D45												
Floor standing		NEW			D22	D28	D36	D45	D56	D71	D80									
		NEW			D22	D28	D36	D45	D56	D71	D80									
		NEW			D22	D28	D36	D45	D56	D71	D80									
Hydromodule		HWM-XMI														140				

Indoor units lineup 2019 – 2nd generation

Name		Series	kW 1,8	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	10,0	11,2	12,5	14,0	16,0	20,0	25,0	28,0
Cassette	1-way cassette NEW	Q1DN-2-XMI	D18	D22	D28	D36	D45	D56	D71										
	2-way cassette NEW	Q2DN-2-XMI		D22	D28	D36	D45	D56	D71										
	Compact 4-way cassette NEW	Q4AN-2-XMI		D22	D28	D36	D45												
	4-way cassette NEW	Q4DN-2-XMI			D28	D36	D45	D56	D71	D80	D90	D100	D112		D140				
Duct	Medium static pressure Duct NEW	CNT2-2-XMI		D22	D28	D36	D45	D56	D71	D80	D90		D112		D140				
	High static pressure Duct NEW	CN-2-XMI							D71	D80	D90		D112		D140	D160	D200	D250	D280
	Fresh air processing unit NEW	CNFA-2-XMI												D125	D140		D200	D250	D280
Wall mounted	NEW	GWMN-2-XMI		D22	D28	D36	D45	D56	D71	D80	D90								
Ceiling & floor	NEW	DDLC-2-XMI				D36	D45	D56	D71	D80	D90		D112		D140				
Console	NEW	DNB-2-XMI		D22	D28	D36	D45												
Floor standing	NEW	DZGF3B-2-XMI		D22	D28	D36	D45	D56	D71	D80									
	NEW	DZIDF4-2-XMI		D22	D28	D36	D45	D56	D71	D80									
	NEW	DZIDF5-2-XMI		D22	D28	D36	D45	D56	D71	D80									
Hydromodule		HWM-XMI													140				

2nd generation indoor units - News

- Full **DC inverter** lineup

- **7 fan speeds***

- **5-steps swing** horizontal **louver***

- **Set temperature** adjustable in **0.5°C** steps*

- **New design** 4-way cassette **panel**

- **Static pressure** set up to **20 steps** on duct indoor units*

- **Evaporating/condensing temperature variable** enabled with VRF MV6*

- No need of KJR-150A for group control by new wired controller WDC-120G*

- **On/off input + alarm output** on PCB

Rest time soft airflow — Leisure time gentle airflow — Exercise time strong airflow

Fan speed 1 | Fan speed 2 | Fan speed 3 | Fan speed 4 | Fan speed 5 | Fan speed 6 | Fan speed 7
Soft airflow — Strong airflow

Step / Swing

Constant airflow discharge

20 steps static pressure control
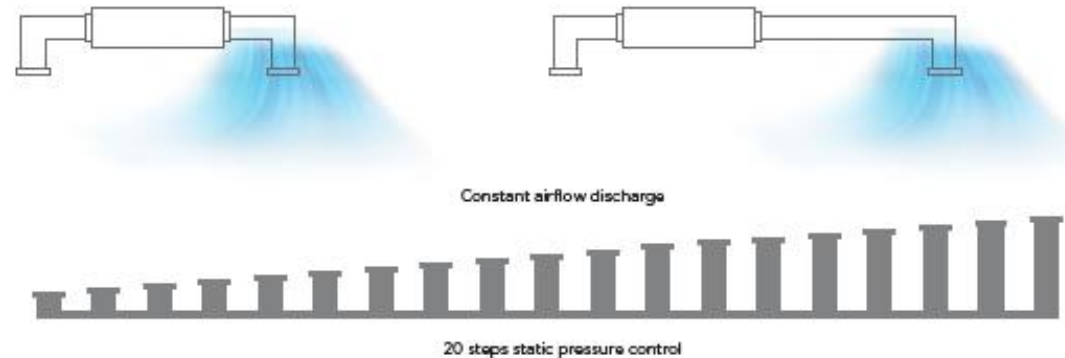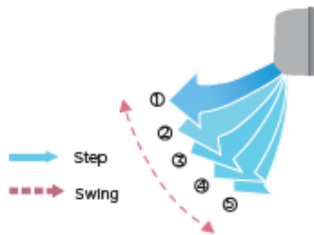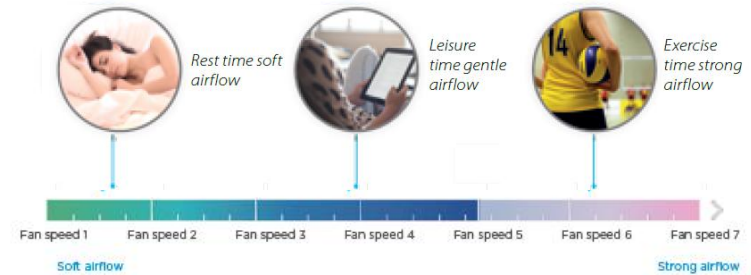
*functions available with new control systems series

2nd generation indoor units - Cassette

1-WAY

Q1DN-2-XMi

- **DC** fan → lower power input

- Same dimensions (height 153-189 mm only)

2-WAY

Q2DN-2-XMi

- **DC** fan → lower power input

- Improved noise levels

- Size **7.1 kW**

4-WAY COMPACT

Q4AN-2-XMi

- **Expansion valve inside** the unit

4-WAY

Q4DN-2-XMi

- **New 360° design panel**

- **Expansion valve inside** the unit

*drain pump included for all cassette series

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2nd generation indoor units - Ducts

MEDIUM STATIC PRESSURE

CNT2-2-XMi

- **Static pressure** increased (**70Pa** up to 7.1kW / **100Pa** 8-11.2kW / **150Pa** 14kW)

- **Static pressure** set **6 step** up to 7.1kW/**10 step** 8-14kW

HIGH STATIC PRESSURE

CN-2-XMi

- **Static pressure** increased (**200Pa** up to 16kW / **250Pa** 20-28kW)

- **Static pressure** set **17 step** up to 16kW/**20 step** 20-28kW

- Expansion valve inside the unit → no need to joint different boxes for sizes 20-28kW

FULL FRESH AIR

CNFA-2-XMi

- **Static pressure** increased (**200Pa** up to 16kW / **250Pa** 20-28kW)

- **Static pressure** set **16 step** up to 14kW **/ 20 step** 20-28kW

*drain pump included for medium static pressure, optional for high statuc pressure and full fresh air

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2nd generation indoor units – Wall, ceiling and floor

WALL MOUNTED
GWMN-2-XMi

CEILING&FLOOR
DDLC-2-XMi

FLOOR STANDING
DZDF4/F5/F3B-2-XMi

CONSOLE
DNB-2-XMi

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2° GENERATION VRF CONTROLS

Controls lineup 2018

Individual controls for single/max 16 IDU

Centralized controls for one or more VRF systems up to 64 IDU

Data converter gateways for **cloud control** by computer/smartphone/tablet

Network control systems for several VRF systems even in different sites (up to 1024 IDU)

BMS gateways

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Controls news 2019 – Individual controls

Individual controls

WIRELESS CONTROLLER
RM12D

WIRED CONTROLLER COMPACT
WDC-86E/KD

86mm

Same as current RM12A (follow me, address set) with new indoor units functions:

- **7 fan speeds**
- **5-steps swing** horizontal **louver**
- **Set temperature** adjustable in **0.5°C** steps

Same as current KJR-90D with new indoor units functions as RM12D and in addition:

- **Error and system parameters** monitor
- **Set temperature range limit** in cooling and heating
- **Auto mode** for 3-pipe heat recovery MHR series with **dual set point** (heat, cool)
- Maximum connection **wiring** length extended **up to 200m**

*no weekly timer, no group control

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Controls news 2019 – Individual controls

Individual controls
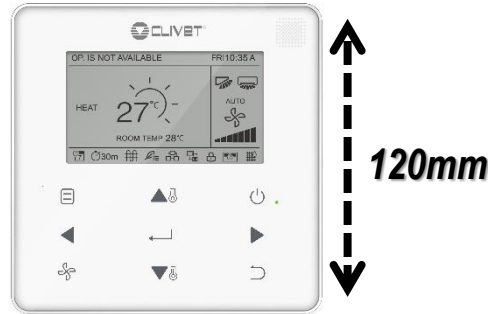
WIRED CONTROLLER
WDC-120G/WK

120mm

Same as current KJR-29D with new indoor units functions as WDC-86E/KD and in addition:

- **Weekly timer**
- **Group** control (up to 16 IDU, without KJR-150A)
- **Lock ON/OFF, operating mode, T set point, timer, control keyboard**

- Error and system parameters monitor
- Set temperature range limit in cooling and heating
- Auto mode for 3-pipe heat recovery MHR series with dual set point (heat, cool)
- Maximum connection wiring length extended up to 200m

Same as WDC-86E/KD

Controls news 2019 – Centralized controls

Centralized controls

TOUCHSCREEN CENTRALIZED CONTROL 6.2"

CCM-180A/WS

- **Touchscreen 6.2"** display
- 1 port → up to **64 IDU** / **8 systems**
- **USB** port for software update / export report
- New IDU functions (7 fan speeds, 5-steps swing horizontal louver, T set point 0.5 °C)
- **Weekly timer**
- Lock individual control
- Lock ON/OFF, operating mode, fan speed

- Set temperature range limit in cooling and heating
- Error and system parameters monitor
- Alarm history export via USB
- **New VRF MV6 series functions enabled** (maximum capacity limit, silent mode, operating mode priority, evaporating/condensing temperature variable)
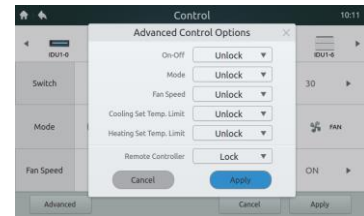
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Controls news 2019 – Centralized controls

Centralized controls

TOUCHSCREEN CENTRALIZED CONTROL 10.1"
CCM-270A/WS

- **Touchscreen 10.1"** display
- 6 ports → up to **384 IDU** / **48 systems**
- **LAN** port for **local control via web browser**
- **USB** port for software update / export report / import floor plan

Same functions as CCM-180A/WS and in addition:

- **Floor plan** view
- Possibility to be used as **IMMPro gateway**
- Eport system parameters, operating hours and electricity charge consumptions (when combined to IMMPro software)

Integration with Zephir[3] coming soon

IMMPro network control system

NETWORK CONTROL SYSTEM
IMMPro

- Designed for VRF MV6 series
- Simplified software installation
- New graphic interface

The most advanced Clivet VRF control system:

- **Control and monitor of independent systems, even located in different sites**
- Full control, also via floor plan view
- Annual schedule
- **Electricity charge consumptions**

Possibility to foresee **IMMPro software** combined with:

- centralized control 10" **CCM-270A/W**
  → up to **3840 IDU / 480 systems**

OR

- gateway **IMMP-M**
  → up to **2560 IDU / 320 systems**

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Controls news 2019 – other gateways

Data converter

DATA CONVERTER FOR
CLOUD CONTROL

CCM15

gateway BMS

| **GW-BAC** | **GW-LON** | **GW-MOD** | **GW-KNX*** |

Gateway updated for new functions of VRF MV6 series

*Gateway KNX under development

2° GENERATION VRF

HRV

New HRV
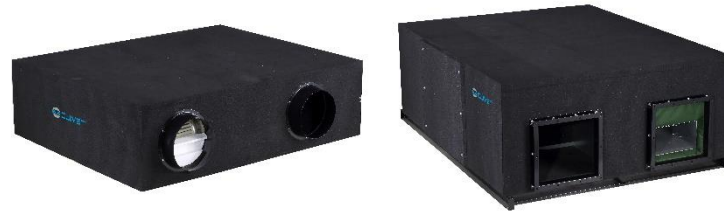
CROSS-FLOW ENTHALPIC HEAT RECOVERY VENTILATOR
HRV-2-Mi

- Same sizes as current HRV (**200-2000 m³/h**)

- **Efficiencies improved** according to **ErP** regulations

- **External static pressure increased**

HRV-Mi	D200	D300	D400	D500	D800	D1000	D1500	D2000
ESP (Pa)	40	75	55	80	100	100	160	170

HRV-2-Mi	D200	D300	D400	D500	D800	D1000	D1500	D2000
ESP (Pa)	100	90	100	90	140	160	180	200
	+150%	+20%	+82%	+13%	+40%	+60%	+13%	+18%

- Bigger dimensions to be ErP-compliant (be careful when switching from previous models)

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SALES TOOLS

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Documentation and sales tools – on clivet.World

VRF systems catalog 2019

Technical bulletins units
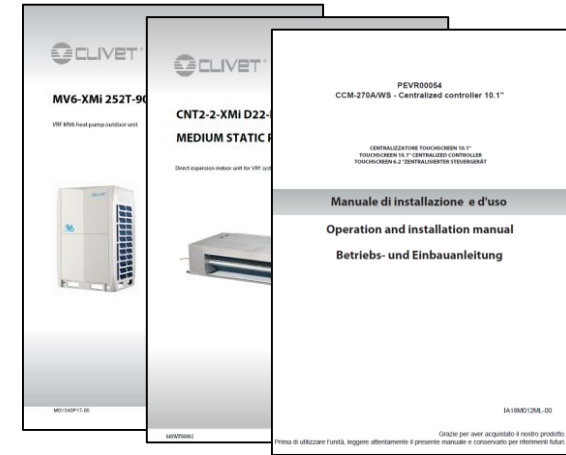
Installation and operating **manuals**

VRF Selection Software
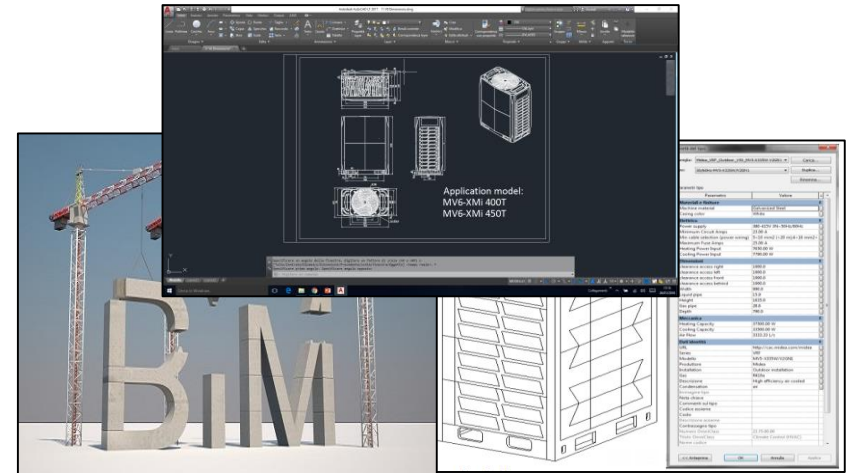
DWG and **BIM objects** – under development

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Webpages available for new units – clivet.com → products

Display lineup for each product family

Already available on clivet.com → products

Webpages available for new units – clivet.com → products
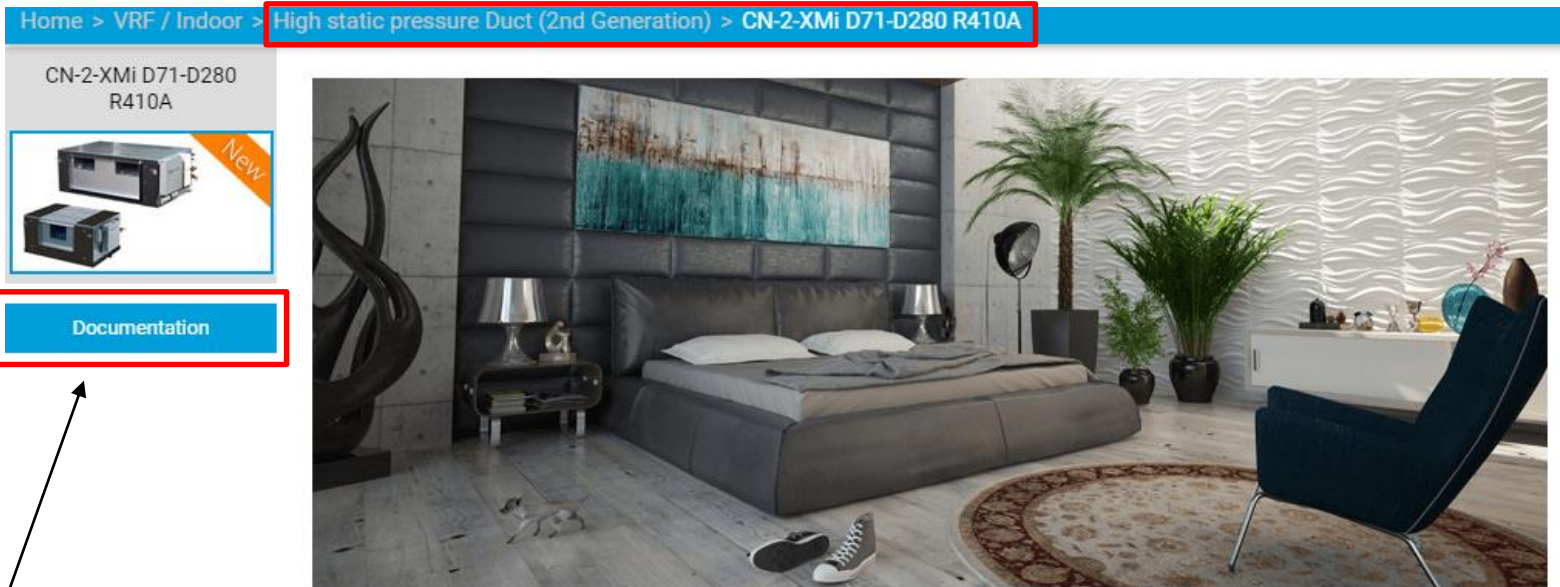
View available **documentation** and **main features**

www.clivet.com