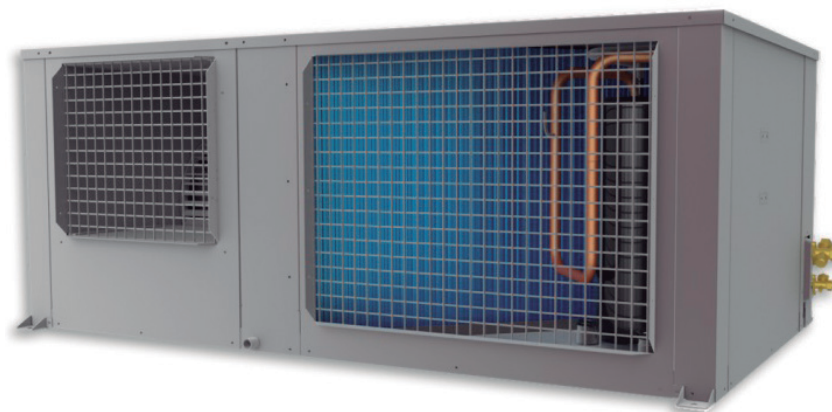


OUTDOOR UNITS

'HIDEN' MVH Series **R410A**

NEW!

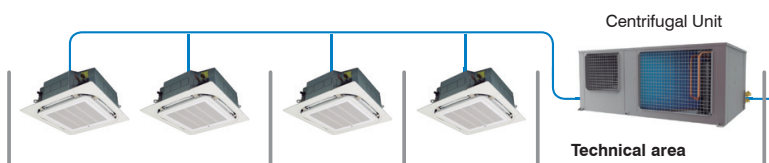
MUNDCLIMA®
SUPER DC INVERTER



VERSATILITY

Outdoor centrifugal unit

The variable refrigerant flow (VRF) system that comes with the 90 Pa static pressure centrifugal exterior unit, provides an ideal solution for all exterior unit installations that can't be performed outside.



Less than 3,600 m³/h

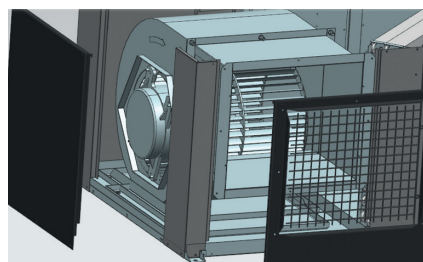
The 14 kW model expels less than 3,600 m³/h⁽¹⁾, thus complying with the autonomous communities regulations that determine this value as the maximum flow permitted to be expelled to the outside environment.

⁽¹⁾In silent mode.



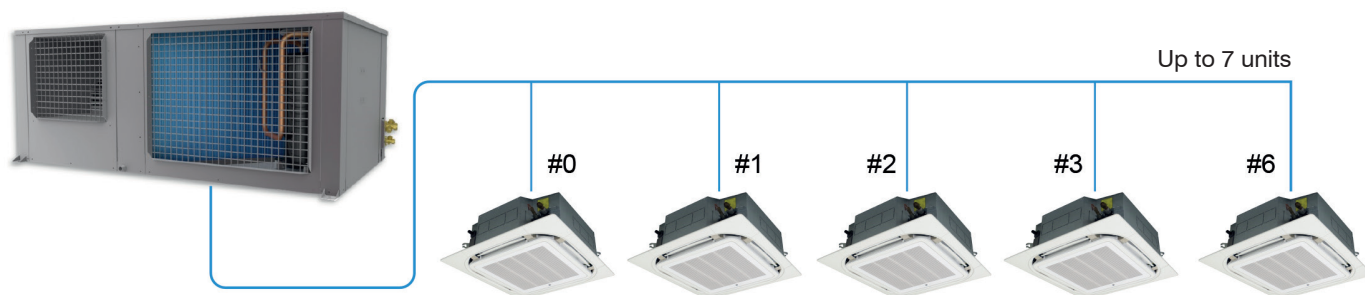
Possibility to switch the side of the air outlet

The air outlet can be switched outside (the fan must be rotated).



Connection of up to 7 indoor units

Connection from only one indoor unit to a maximum of 7, depending on the capacity of each unit.



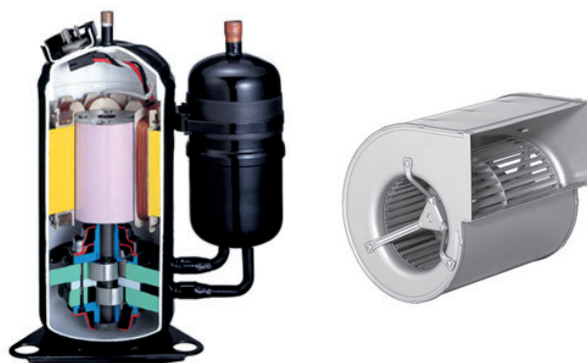
'HIDEN' MVH Series outdoor units



HIGH EFFICIENCY

Dc Inverter Technology

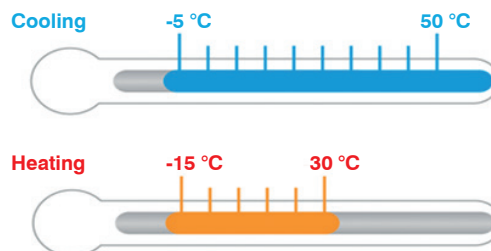
All compressors and fan motors are DC Inverter, this way the performance is improved in medium frequencies and it ensures a more sensitive and effective control.



CONFORT

WIDE WORKING TEMPERATURE RANGE

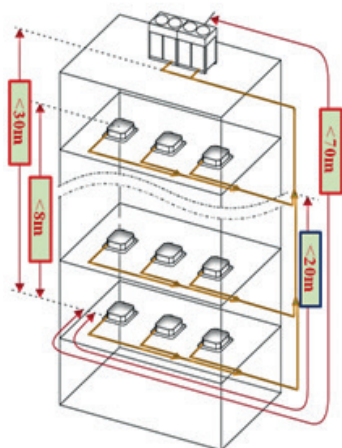
The "HIDEN" Series can stably operate in heating mode between $-15 \sim 30^{\circ}\text{C}$ and in cooling between $-5 \sim 50^{\circ}\text{C}$.



Easier installation

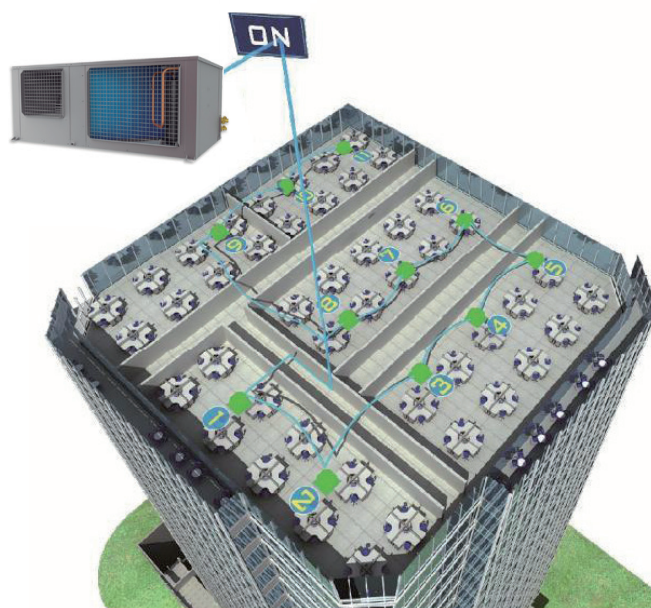
Up to 100 m of pipe

- Total pipe length/ vertical: **100 m**
- Pipe length of the furthest indoor unit (equivalent): **60 m (70 m)**
- Length of pipe between the first distributor and the furthest indoor unit: **20 m**
- Height difference between indoor and outdoor units. (Highest outdoor unit): **20 m (30 m)**
- Height difference between indoor units: **8 m**



Automatic addressing

By default, the first time the power supply to the entire system is activated, the outdoor unit automatically assigns the address to each indoor unit. The address of each indoor unit can be checked and changed later with the wireless controller.



'HIDEN' MVH Series outdoor units



TECHNICAL SPECIFICATIONS

Model				MVH-H140C / DGN1	MVH-H160C / DGN1
Code				CL 23 800	CL 23 801
Power supply			Ph, V, Hz	3N-, 400V, 50Hz	3N-, 400V, 50Hz
Cooling (1)	Capacity		kW	14.00	16.00
	Power consumption		kW	5.00	6.00
	EER / SEER (8)			2.8 / 6.27	2.66 / 5.92
Heating (2)	Capacity		kW	14.00	16.00
	Power consumption		kW	4.60	5.30
	COP / SCOP(8)			3.04 / 3.81	3.01 / 3.70
Nominal intensity / max.			A	7.7 / 20	9.2 / 20
Max. consumption			kW	6.80	7.30
Connectivity	Pluggable capacity		%	50 - 130	50 - 130
	Max. unit quantity Indoor uts.			6	7
Compressor	Brand			GMCC	GMCC
	Type			DC Inverter - Twin Rotation	DC Inverter - Twin Rotation
	Number			1	1
	Model			ATQ420D2UMT	ATQ420D2UMT
Fan	Type			Centrifugal DC	Centrifugal DC
	Number			1	1
	Flow rate (3)		m³/h	3,590	5,000
	Static pressure	Standard	Pa	0	0
		Adjustable	Pa	0 / 50 / 90	0 / 50 / 90
	Sound pressure (4)			dB(A)	68
Dimensions (Width x Height x Depth)			mm	1520 x 584 x 973	1520 x 583 x 972
Weight			kg	173	173
Refrigerant	Type / PCA			R410A / 2088	R410A / 2088
	Number		kg/TCO ₂ eq	3.7 / 7.725	3.7 / 7.725
Refrigerant distances (5)	Max. vertical		m	30	30
	Total		m	100	100
Connection pipes (6)	Liquid Line		mm (inches)	9.52 (3/8")	9.52 (3/8")
	Gas Line		mm (inches)	19.05 (3/4")	19.05 (3/4")
Electrical connections (7)	Power wiring / ICP		Mm ²² / A	4 x 4 + T / 25	4 x 4 + T / 25
	Signal wiring		mm²	3 x 0,75 (shielded)	3 x 0,75 (shielded)
Working temperature range	Cooling		°C	-5 to 50	-5 to 50
	Heating		°C	-15 to 30	-15 to 30

Note:

- (1) Nominal cooling conditions: indoor 27°C DB, 19°C WB and outdoor 35°C DB, 24°C WB, for a pipe length of 5 m and a height difference of 0 m.
 - (2) Nominal heating conditions: indoor 20°C DB, 15°C WB and outdoor 7°C DB, 6°C WB, for a pipe length of 5 m and a height difference of 0 m.
 - (3) Air flow rate in model 140 measured in silent mode and in model 160 with static pressure of 50 Pa.
 - (4) Pressure noise level measured in a semi-anechoic chamber at 1 m frontal distance and 1 m height.
 - (5) Pipe length when the outdoor unit is installed higher than the indoor units, otherwise instead it's 20 m.
 - (6) The specified diameters are for the service valves, this does not mean that the pipe must have this diameter.
 - (7) Power wiring recommended for L < 20 m, for longer distances it should be recalculated.
 - (8) Data measured under EUROVENT EN 14825 conditions.
- * Features and data can be changed without previous notice.

INDOOR UNITS

'HIDEN' MVH Series
4-Way Compact Cassette **R410A**MUNDOCLIMA®
SUPER DC INVERTER**NEW!**

- DC Fan Motors
- Exterior air intake
- Air exhaust to adjacent room
- Condensate pump
- Optional wall and centralized controllers

NT-03A
Included
(CL 95 113)

TECHNICAL SPECIFICATIONS

Model			MVH-H28Q4CDN1	MVH-H45Q4CDN1
Code			CL 23 811	CL 23 813
Power supply		Ph, V, Hz	1N-, 220-240, 50	1N-, 220-240, 50
Cooling (1)	Capacity	kW	2.8	4.5
	Power consumption	W	15	23
Heating (2)	Capacity	kW	3.2	5.0
	Power consumption	W	15	23
Fan	Type		DC	DC
	Model		DR-310-35Q-8-1	DR-310-35Q-8-1
	Air flow (High / Medium / Low) (3)	m³/h	440 / 327 / 246	530 / 432 / 327
	Sound pressure (High / Medium / Low) (4)	dB(A)	34 / 28 / 22	38 / 35 / 27
Indoor unit	Fresh air intake (5)	mm	Ø50	Ø50
	Dimensions (Width x Height x Depth)	mm	653 x 267 x 585	653 x 267 x 585
	Weight	kg	17.5	17.5
Panel	Dimensions (Width x Height x Depth)	mm	650 x 30 x 650	650 x 30 x 650
	Weight	kg	2.7	2.7
Drainage	Connection	mm	Ø25	Ø25
	Pump height (6)	mm	600	600
Refrigerant	Type		R410A	R410A
Design pressure	High	Mpa	4.5	4.5
Connection pipes	Liquid Line	mm (inches)	6.35 (1/4")	6.35 (1/4")
	Gas Line	mm (inches)	9.52 (3/8")	12.7 (1/2")
Electrical connections (7)	Power wiring	mm²	2 x 2,5 + T (L<20m)	2 x 2,5 + T (L<20m)
	Signal wiring	mm²	3 x 0,75 (shielded)	3 x 0,75 (shielded)

Note: (1) Nominal cooling conditions: indoor 27°C DB, 19°C WB and outdoor 35°C DB, 24°C WB for a pipe length of 8 m and a height difference of 0 m.

(2) Nominal heating conditions: indoor 20°C DB, 15°C WB and outdoor 7°C DB, 6°C WB, for a pipe length of 8 m and a height difference of 0 m.

(3) Air flow rate from the highest to the lowest speed, each equipment has 7 speeds overall.

(4) Pressure noise level measured in a semi-anechoic chamber at 1 m frontal distance and 1.4 m height.

(5) Inner diameter

(6) Pump height measured from the unit shaft. The 90° elbow is set horizontally at 200 mm maximum.

(7) Power wiring recommended for L < 20 m, for longer distances it should be recalculated.

* Data and specifications can be changed without previous notice.

OPTIONAL COMPONENTS

More information on the optional components in "MUNDOCLIMA CONTROL SYSTEMS"

Wired remote control

ZKX-C/TE-06
(CL 95 111)SP-D145
(CL 95 110)

Centralized controller

INDOOR UNITS

'HIDEN' MVH Series

4 Way Cassette **R410A**MUNDOCLIMA®
SUPER DC INVERTER**NEW!**

- DC Fan Motors
- 360° Wind Baffle
- Exterior air intake
- Air exhaust to adjacent room
- Condensate pump
- Optional wall and centralized controllers

NT-03A
Included
(CL 95 113)

TECHNICAL SPECIFICATIONS

Model			MVH-H80Q4DN1	MVH-H112Q4DN1	MVH-H140Q4DN1	MVH-H160Q4DN1
Code			CL 23 816	CL 23 817	CL 23 818	CL 23 819
Power supply		Ph, V, Hz	1N-, 220-240, 50	1N-, 220-240, 50	1N-, 220-240, 50	1N-, 220-240, 50
Cooling (1)	Capacity	kW	8.0	11.2	14	16
	Power consumption	W	63	66	100	100
Heating (2)	Capacity	kW	8.8	12.5	15.0	17.0
	Power consumption	W	63	66	100	100
Fan	Type		DC	DC	DC	DC
	Model		DR-310-60Q-8-1	DR-310-100Q-8	DR-310-100Q-8	DR-310-100Q-8
	Air flow (High / Medium / Low) (3)	m³/h	1310/1140/825	1500/1200/1000	1700/1400/1200	1700/1400/1200
	Sound pressure (High / Medium / Low) (4)	dB(A)	39/37/34	41/39/35	47/43/40	47/43/40
Indoor unit	Fresh air intake (5)	mm	Ø72	Ø72	Ø72	Ø72
	Dimensions (Width x Height x Depth)	mm	833 x 232 x 900	833 x 286 x 900	833 x 286 x 900	833 x 286 x 900
	Weight	kg	22	27	27	27
Panel	Dimensions (Width x Height x Depth)	mm	950 x 50 x 950	950 x 50 x 950	950 x 50 x 950	950 x 50 x 950
	Weight	kg	5.4	5.4	5.4	5.4
Drainage	Connection	mm	Ø25	Ø25	Ø25	Ø25
	Pump height (6)	mm	700	700	700	700
Refrigerant	Type		R410A	R410A	R410A	R410A
Design pressure	High	Mpa	4.5	4.5	4.5	4.5
Connection pipes	Liquid Line	mm (inches)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Line	mm (inches)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
Electrical connections (7)	Power wiring	mm²	2 x 2,5 + T (L<20m)			
	Signal wiring	mm²	3 x 0,75 (shielded)			

Note: (1) Nominal cooling conditions: indoor 27°C DB, 19°C WB and outdoor 35°C DB, 24°C WB for a pipe length of 8 m and a height difference of 0 m.

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