Diffusione Multi 21

One unit, several rooms

Multi stands for multisplit, a system that can condition several rooms with a single outdoor unit. Diffusione Multi 21 is a dual split unit where two indoor units can be connected to a single outdoor unit: and this means great convenience and savings. Carefully deisgned using high-tech electronics and high efficiency components. The use of environmentally friendly R410A gas and higher performance efficiency, provide better protection for the environment.

Top performance at the right price

Double-compressor technology

Diffusione Multi 21 ensures the benefits of climate control in several rooms using a single outdoor unit. The double-compressor technology further reduces power consumption, using one or two compressors to meet demand. Moreover, if one of the two compressors fails, Diffusione Multi 21 can continue operating with the other one.

Functions

The practical remote control with its large display, lets you select, among other things, the following functions:

Auto: the unit automatically sets operation mode according to the difference between the temperature setpoint and the temperature in the room.

Dry: this mode optimizes the air conditioning operation and fan speed in order to absorb humidity.

Sleep: the temperature setpoint is increased (in cooling mode) or decreased (in heating mode) by 1°C per hour for the first two hours. Then the temperature setpoint doesn't change for the next 5 hours, afterwich the unit is switched. The Sleep mode lets you maintain a comfortable temperature and, at the same time, save power.

OPERATIONAL LIMITS
Maximum operating temperature in cooling mode:
Indoor temperature DB 32°C - WB 24°C
Outdoor temperature DB 43°C - WB 26°C

OPERATIONAL LIMITS
Maximum operating temperature in cooling mode:
Indoor temperature DB 17°C - WB 14°C
Outdoor temperature DB 15°C

OPERATIONAL LIMITS
Maximum operating temperature in cooling mode:
Indoor temperature DB 27°C
Outdoor temperature DB 15°C

OPERATIONAL LIMITS
Maximum operating temperature in cooling mode:
Indoor temperature DB 17°C
Outdoor temperature DB -15°C

Diffusione Multi 21 HP

		OS-C/SEMMH-21EI	
Power supply	V-F-Hz	230-1-50	
Maximum operating pressure	MPa	3,50	
Max connecting length	m	15	
Max height difference	m	5	
Additional gas (over 8 mt length)	g/m	20	
Power cable (W pole)	—	3	
Maximum remote control range (distance/angle)	m/°	8/80°	
Outdoor unit		**OS-CEMMH21EI**	
Dimensions (W x H x D)	mm	895x655x345	
Air volume (max)	m^3/h	2200	
Protection level	—	IP24	
Fan speeds	rpm	830	
Refrigerant gas/charge	Kind/Kg	R410A/2,000(1,10+0,90)	
Sound pressure	db (A) min-max	56	
Weight (without packing)	Kg	76	
Indoor unit		**OS-CEMMH09EI**	**OS-CEMMH12EI**
Dimensions (W x H x D)	mm	710x250x195	790x265x193
Air volum in cooling mode (max/med/min)	m^3/h	500/460/410	500/430/370
Air volum in heating mode (max/med/min)	m^3/h	500/460/410	500/430/370
Protection level	—	IP20	IP20
Fan speeds	rpm	1200/950/850	1220/1000/800
Ø Connecting pipe (liquid)	inch-mm	1/4"-6,35	1/4"-6,35
Ø Connecting pipe (gas)	inch-mm	3/8"-9,53	1/2"-12,7
Connecting cable (N° pole)	—	4	4
Sound pressure	db (A) min-max	36-34-32	37-34-31
Weight (without packing)	Kg	8,0	9,0

The technical data are refered to EN 14511.
*The sound **pressure** was measured in a semi-anechoic chamber at one meter from the front panel of the unit and with the microphone set at a height of one meter off the floor.

HP = heat pump
HE = high efficiency (energy savings/high performance)

TEST PARAMETERS
(1) Cooling capacity test:
Indoor temperature DB 27°C - WB 19°C
Outdoor temperature DB 35°C - WB 24°C

(2) Heating capacity test:
Indoor temperature DB 20°C - WB 15°C
Outdoor temperature DB 7°C - WB 6°C

Configuration OS-CEMMH21EI + OS-CEMMH09EI + OS-CEMMH12EI

Cooling capacity (1)	kW	6,16	Power absorption in cooling mode	W (max)	2.580
Heating capacity (2)	kW	7,05	Power absorption in heating mode	W (max)	2.580
Power absorption in cooling mode (1)	W	2.047	Absorption in cooling mode	A (max)	11,2
Power absortion in heating mode (2)	W	2.067	Absorption in heating mode	A (max)	11,2
Nominal absorption in cooling mode (1)	A	8,9	E.E.R.	—	3,01
Nominal absorption in heating mode (2)	A	9,0	C.O.P.	—	3,41
Yearly energy consumption in cooling mode (1)	kWh	1.023	Energy Efficiency Class in cooling mode	—	B
Dehumidification capacity	l/h	3,2	Energy Efficiency Class in heating mode	—	B