

Dmnia Radiant

Fan coils with radiant panel for residential use Ceiling or floor mounted



participate in the EUROVENT program: FCU

the products are present on the site www.eurovent-certification.com





- LOW TEMPERATURE RADIATION*
- ITILATED HEATI
- **COOLING DEHUMIDIFICATION**
- ENERGY SAVING
- LOW OPERATING COST

Features

Omnia Radiant and Omnia Radiant Plus **Aermec innovative solutions**

In this particular worldwide market evolution, we are pleased to present to you OMNIA Radiant, which represents the innovation of the OMNIA AERMEC series, fan coils especially designed for residential comfort.

OMNIA Radiant inherits all the advantages of the OMNIA UL series, and is characterized by the introduction of the frontal plate for radiant

OMNIA Radiant Plus is provided with the DC Brushless electric engine, equipped with the latest Inverter technology, granting the highest energy efficiency and able to regulate the air flow through the continuous fan speed modulation. This allows to achieve up to 60% in energy saving when compared to the traditional On-Off fan system, in both air conditioning and heating.

OMNIA Radiant and Radiant Plus offer the following advantages when compared to the traditional systems:

- the radiant plate combination the finned coil allows the best winter comfort with the lower energy consumption because it provides heating with lower water temperature: only 45°C against the about 65°C needed for the traditional radiator. This not only increases the comfort for the user, but also significantly increases the overall efficiency in case of heat pumps usage;
- the fan system allows to quickly reach the desired temperature, meeting the requirement of a fast start-up;
- the unit can be combined other than the boiler, also to energy saving heat pumps: air to water, water to water and geothermic type;
- the electrostatic charge filter standard supplied, provides pure and clean air;
- during summer Omnia Radiant and Radiant Plus provide air conditioning and dehumidification in a fast and efficient way in every room.

The four different working modes of Omnia **Radiant annual functioning**

Radiant: Heating through radiation, comfortable and noiseless, is granted by the radiant plate placed on the front of the fan coil cover; if necessary, the triple-fins delivery head can be closed to increases the heating of the plate, thus maximizing the radiant effect.

Radiant + Natural Convection

With the triple-fins open, heating through natural convection, obtained thanks to the bigger coil exchange surface, is added to the radiant heating. As for the radiant-only mode (see above), the fan groups are in off mode. This results in acoustic comfort and energy saving.

Radiant + Forced Convection

The electronic regulation, precise and reliable, continuously compares the effective indoor temperature with the desired temperature: whenever the difference between the two should prove to be too high (e.g. during the heating system start-up) the software will lead the fan system start-up. Start-up is fast and efficient and grants significant energy savings especially in rooms that are occasionally used.

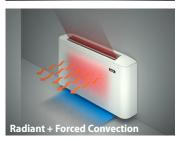
Omnia Radiant during summer provides air conditioning and dehumidification:

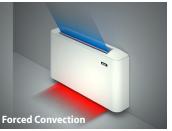
Forced Convection

During summer, Omnia Radiant and Radiant Plus provide air conditioning and dehumidification for each room of the house in a fast and efficient way. Efficiency and quietness benefit from the quality that has always characterized the Omnia series.









^{*} Radiant technology under licence

- Radiant plate
- 2 Switching valve
- Water probe
- 4 Condensate storage container, hydraulic hoses



VCHRAD accessory

· OMNIA radiant (UL_R) standard features:

- Radiant panel
- Centrifugal fans
- Three-speed motor
- Condensate storage container, hydraulic hoses
- Switching valve
- Water probe
- Electro-statically preloaded filter
- VMF-thermostat for asynchronous motor
- Compatible with VMF system

OMNIA radiant plus (UL_RI) standard features:

- Radiant panel
- Centrifugal fans
- Electric DC Brushless motor with Inverter
- Condensate storage container, hydraulic hoses
- Water probe
- Switching valve
- Electro-statically preloaded filter
- VMF thermostat for DC Brushless motor
- Compatible with VMF system

Cleaning the fan: The fan blades on the

Omnia Radiant are easy to clean. As a matter of fact, the new versions now offer the possibility of opening the worm screw of the fan (the casing that encloses the blades) to perform routine cleaning.

- Electro-statically preloaded filter: The Omnia Radiant fan coils feature standard air filters that are electro-statically preloaded. These filters, thanks to their particular construction, absorb and trap floating dust: the ideal system to provide clean air for all the family.
- Silent operation: Thanks to special centrifugal fans, Omnia Radiant fan coils are incredibly silent, making them the best buy when it comes to acoustic comfort, given the total lack of peak noise. "The heating by radiation at top speed ensures total silence regime"

Note

The coil had hydraulic hoses on the left and is not reversible.

Accessories

- PCU: Rear closing panel.
- **ZU**: Wedges for floor mount.
- GU: Exhaust grille: covers the front space of the wedges and does not interfere with the air filter.
- VCHRAD: Kit comprising motorized 3-way valve, unions and copper pipes.

Must be combined with ZU wedges.

VMF System:

Its specs are described in its technical sheet.

	Omnia radiant		Omnia Radiant plus	
	UL26R	UL36R	UL26RI	UL36RI
PCU	25	35	25	35
GU	25	35	25	35
VCHRAD	•	•	•	•
ZU	•	•	•	•
VMF system				
VMF-E4 (compulsory accessory)	•	•	•	•
VMF-E4D (compulsory accessory)	•	•	•	•
VMF-E5B	(1)	(1)	•	•
VMF-E5N	(1)	(1)	•	•

Fan speed				26			36	
			Н	М	L	Н	М	L
Heating Performance								
2 pipe configuration								
Heating capacity (70°C)	(1)	kW	4,62	3,83	2,89	5,94	4,87	3,53
Heating capacity (50°C)	(2)	kW	.,,,,	2,75			3,54	-,
Water flow rate	(-)	l/h		397			511	
Pressure drop		kPa		17			21	
Static heating power (70°C)	(3)	kW		0,65			0,75	
Static heating power (70 C)	(4)	kW		0,39			0,45	
Static heating power (35°C)	(5)	kW		0,20			0,43	
Cooling Performance	(3)	KVV		0,20			0,23	
Total cooling capacity	(6)	kW	2,03	1,78	1,42	2,83	2,31	1,73
Sensible cooling capacity	(6)	kW	1,64	1,37	1,05	2,04	1,79	1,28
Water flow rate		I/h	1,04	349	1,05	2,04	487	1,20
	(6)							
Pressure drops	(6)	kPa		18			22	
Water content				0,8			1,1	
Fans								
Fan		type/n°				fugal/2		
Air flow rate		m³/h	350	270	190	460	350	240
Sound data				,				
Sound power level	(7)	dB(A)	48	43	35	50	43	34
Sound pressure level		dB(A)	40	35	27	40	33	26
Diameter connections								
Standard coil		Ø(mm)		14			14	
Electrical Features						*		
Absorbed power		W		35			42	
Max. input current		A		0,18			0,22	
Electrical connections		- / \	V3	V2	V1	V3	V2	V1
Power supply	- V//	oh/Hz	٧٥	V Z		v ₃ ′~50Hz	V Z	v.
Energy Efficiency classification (EUROVENT		JII/IIZ			2300	~30112		
				D			D	
FCEER	-(0)							
FCCOP	(8)			D			D	
Omnia UL_RI				26			36	
Fan speed			Н	М	L	H	M	L
								_
Heating Performance								
2 pipe configuration								-
2 pipe configuration Heating capacity (70°C)	(1)	kW	4,62	3,83	2,89	5,94	4,87	3,53
2 pipe configuration	(1)	kW kW	4,62			5,94	4,87 3,54	
2 pipe configuration Heating capacity (70°C)			4,62	3,83		5,94		
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C)	(2)	kW	4,62	3,83 2,75		5,94	3,54	
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop	(2) (2) (2)	kW I/h	4,62	3,83 2,75 397		5,94	3,54 511	
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C)	(2) (2) (2) (3)	kW I/h kPa kW	4,62	3,83 2,75 397 17 0,65		5,94	3,54 511 21 0,75	
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C)	(2) (2) (2) (3) (4)	kW I/h kPa kW kW	4,62	3,83 2,75 397 17 0,65 0,39		5,94	3,54 511 21 0,75 0,45	
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C)	(2) (2) (2) (3)	kW I/h kPa kW	4,62	3,83 2,75 397 17 0,65		5,94	3,54 511 21 0,75	
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance	(2) (2) (2) (3) (4) (5)	kW I/h kPa kW kW		3,83 2,75 397 17 0,65 0,39 0,20	2,89		3,54 511 21 0,75 0,45 0,23	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity	(2) (2) (2) (3) (4) (5)	kW I/h kPa kW kW kW	2,03	3,83 2,75 397 17 0,65 0,39 0,20	2,89	2,83	3,54 511 21 0,75 0,45 0,23	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity	(2) (2) (2) (3) (4) (5) (6)	kW I/h kPa kW kW kW kW		3,83 2,75 397 17 0,65 0,39 0,20 1,78	2,89		3,54 511 21 0,75 0,45 0,23 2,31 1,79	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate	(2) (2) (3) (4) (5) (6) (6) (6)	kW I/h kPa kW kW kW kW	2,03	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349	2,89	2,83	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops	(2) (2) (2) (3) (4) (5) (6)	kW I/h kPa kW kW kW kW	2,03	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349	2,89	2,83	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content	(2) (2) (3) (4) (5) (6) (6) (6)	kW I/h kPa kW kW kW kW	2,03	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349	2,89	2,83	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans	(2) (2) (3) (4) (5) (6) (6) (6)	kW I/h kPa kW kW kW I/h kPa I	2,03	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349	2,89 1,42 1,05	2,83 2,04	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan	(2) (2) (3) (4) (5) (6) (6) (6)	kW I/h kPa kW kW kW l/h kPa I type/n°	2,03	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18	2,89 1,42 1,05 centri	2,83 2,04 fugal/2	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1	3,53 1,73 1,28
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate	(2) (2) (3) (4) (5) (6) (6) (6)	kW I/h kPa kW kW kW I/h kPa I	2,03	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349	2,89 1,42 1,05	2,83 2,04	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22	3,53
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data	(2) (2) (2) (3) (4) (5) (6) (6) (6) (6)	kW I/h kPa kW kW kW I/h kPa I type/n°	2,03 1,64	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8	2,89 1,42 1,05 centri	2,83 2,04 fugal/2 460	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1	3,53 1,73 1,28
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2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (30°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data Sound power level Sound pressure level Diameter connections Standard coil Electrical Features	(2) (2) (2) (3) (4) (5) (6) (6) (6) (6)	kW I/h kPa kW kW kW l/h kPa I type/n° m³/h dB(A) dB(A)	2,03 1,64 350 48 40	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8	2,89 1,42 1,05 centri 190 35	1 2,83 2,04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1	3,53 1,73 1,28 240
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (30°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data Sound power level Sound pressure level Diameter connections Standard coil Electrical Features	(2) (2) (2) (3) (4) (5) (6) (6) (6) (6)	kW I/h kPa kW kW kW tw kW l/h kPa I type/n° m³/h dB(A) dB(A)	2,03 1,64 350 48 40	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8	2,89 1,42 1,05 centri 190 35	1 2,83 2,04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1	3,53 1,73 1,28 240
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (30°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data Sound power level Sound pressure level Diameter connections Standard coil Electrical Features Absorbed power	(2) (2) (2) (3) (4) (5) (6) (6) (6) (6)	kW I/h kPa kW kW kW l/h kPa I type/n° m³/h dB(A) dB(A) Ø(mm)	2,03 1,64 350 48 40	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8	2,89 1,42 1,05 centri 190 35	1 2,83 2,04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1 350 43 33	3,53 1,73 1,28 240
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Toal cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data Sound power level Sound pressure level Diameter connections Standard coil Electrical Features Absorbed power Max. input current	(2) (2) (2) (3) (4) (5) (6) (6) (6) (6)	kW I/h kPa kW kW kW l/h kPa I type/n° m³/h dB(A) dB(A)	2,03 1,64 350 48 40	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8	2,89 1,42 1,05 centri 190 35 27	1 2,83 2,04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1 350 43 33 14	1,73 1,28 240 34 26
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data Sound power level Sound pressure level Diameter connections Standard coil Electrical Features Absorbed power Max. input current Signal 0-10V	(2) (2) (2) (3) (4) (5) (6) (6) (6) (6)	kW I/h kPa kW kW kW I/h kPa I type/n° m³/h dB(A) dB(A) Ø(mm) W A	2,03 1,64 350 48 40	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8	2,89 1,42 1,05 centri 190 35 27	1 2,83 2,04 1 460 1 460 1 40 1 9V	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1 350 43 33	3,53 1,73 1,28 240
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2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (30°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data Sound power level Sound pressure level Diameter connections Standard coil Electrical Features Absorbed power Max. input current Signal 0-10V Alimentazione Energy Efficiency classification (EUROVENT	(2) (2) (2) (3) (4) (5) (6) (6) (6) (7)	kW I/h kPa kW kW kW I/h kPa I type/n° m³/h dB(A) dB(A) Ø(mm) W A	2,03 1,64 350 48 40	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8 270 43 35	2,89 1,42 1,05 centri 190 35 27	1 2,83 2,04 1 460 1 460 1 40 1 9V	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1 350 43 33 14	1,73 1,28 240 34 26
2 pipe configuration Heating capacity (70°C) Heating capacity (50°C) Water flow rate Pressure drop Static heating power (70°C) Static heating power (50°C) Static heating power (35°C) Cooling Performance Total cooling capacity Sensible cooling capacity Water flow rate Pressure drops Water content Fans Fan Air flow rate Sound data Sound power level Sound pressure level Diameter connections Standard coil Electrical Features Absorbed power Max. input current Signal 0-10V Alimentazione	(2) (2) (2) (3) (4) (5) (6) (6) (6) (7)	kW I/h kPa kW kW kW I/h kPa I type/n° m³/h dB(A) dB(A) Ø(mm) W A	2,03 1,64 350 48 40	3,83 2,75 397 17 0,65 0,39 0,20 1,78 1,37 349 18 0,8	2,89 1,42 1,05 centri 190 35 27	1 2,83 2,04 1 460 1 460 1 40 1 9V	3,54 511 21 0,75 0,45 0,23 2,31 1,79 487 22 1,1 350 43 33 14	1,73 1,28 240 34 26

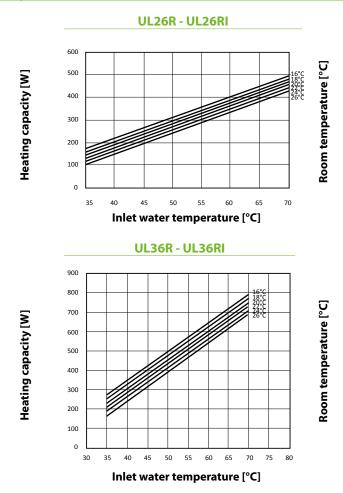
H max. speed; M med. speed; L min. speed

- (1) Room air 20°C b.s.; Water (in/out) 70°C/60°C;
- (2) Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode (EUROVENT)
- (3) Radiant power + natural convection; Hot water (in) 70° C (water flow same as in heating cycle)
- (4) Room temperature 20°C b.s.; Hot water (in/*) 50°C/*°C (water flow same as in heating cycle)
- (5) Radiant power + natural convection; Hot water (in/*) 35°C/*°C (water flow same as in heating cycle)
- (6) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)
- (7) Sound power level on the basis of measurements made in compliance with Eurovent 8/2

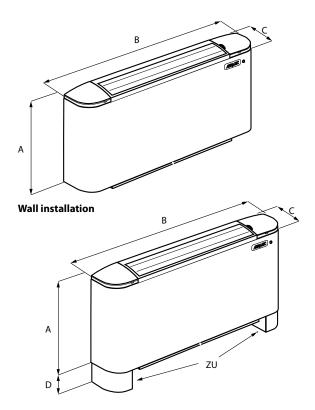
Level of sound pressure (A-weighted) measured in the room with volume V = 85m3; reverberation time t = 0.5s; direction factor Q = 2; distance r = 2.5m

(8) FCCOP Related to: Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode

Note: For more information, please refer to the program selection and the technical documentation available on the website www.aermec.com



Dimensions (mm)



Mod OMNIA ULR - ULRI			26	36
Height	Α	(mm)	606	606
Width	В	(mm)	980	1200
Depth	С	(mm)	173	173
Height with ZU (Accessories)	D	(mm)	93	93
Weight ⁽¹⁾		(kg)	20	24

⁽¹⁾ Standard configuration of unit with accessories