

DUALJET

Controlled outlet fan coils
Floor installation

Variable Multi Flow

VMF



White:
housing: RAL 9002
head and feet: RAL 7044

DUALJET: comfort, everywhere

The perception of uneven temperature distribution, especially vertically, is one of the main factors that can drastically reduce occupants' perceived well-being.

The innovative DUALJET fan coil makes the room more comfortable, by directing the air in such a way as to provide uniform temperature distribution throughout the room.

In winter, warm air is directed towards the floor; in the summer, cool air is directed towards the ceiling.

Features

- Controlled outlet fan coils available in 4 sizes:
- **Vertical installation:**
DUALJET: without control panel but with VMF thermostat, ready for installation on the network as a Slave unit or as a single or Master unit if combined with the wired panel accessories VMF-E4 / VMF-E4D or VMF-E2D control panel.
- All units are compatible with the VMF system
- Switching the front air outlet or from the top, using the selector on the unit.
- Front outlet for heating operation.
- Outlet from the top for cooling operation.
- Versions with 3-row coil (sizes 20, 30, 40, 50)
- 3-speed ventilating unit
- Full compliance with the accident prevention standards
- Rounded line
- Metallic protective cabinet with rustproofing polyester paint
- Plastic feet available as accessory
- Quiet operation
- Low loss of charge in the heat exchange batteries
- Electric motors with permanently inserted condensers
- Ease of installation and maintenance
- Air filter easy to remove and clean
- Extractable shrouds for easy, effective cleaning
- Water connections can be reversed during installation phase

Fan coil with controlled outlet

Comfort, anywhere

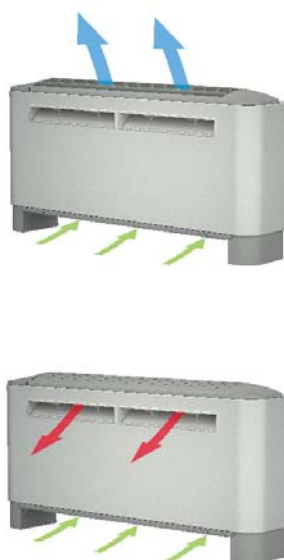
Optimum air flow in the room, depending on functioning mode. In every season the air temperature in the room will be uniform at all heights avoiding annoying stratification phenomena.

In winter operation the hot air flow is directed towards the floor, in summer operation the cold air flow is directed towards the ceiling.

The user can decide at any time through which air outlet the air flow is directed.

Quiet operation

Its extremely silent ventilation means that Aermec fan coils guarantee excellent sound comfort as there are no sudden peaks of noise, even at low levels.



VMF:

All DUALJET fan coils are equipped with VMF (Variable Multi Flow) thermostat, the management and control system of hydronic systems for the conditioning, heating and production of domestic hot water.

The VMF system allows complete control of every component of a hydronic system both locally and centrally and, communicating between the various components of the system, manages the performance without ever neglecting the end user's request of comfort, but reaching it as efficiently as possible with energy saving.

Summing up the advantages of this innovative control with the flexibility of a hydronic system, a more effective and efficient alternative to the variable refrigerant flow systems (VRF) is obtained.

The VMF system is extremely flexible, enough to allow various control and manage steps, expandable at different moments.

Technical data

DUALJET		20	30	40	50
Heating capacity	W (max.)	3400	4975	7400	8620
	W (med.)	2700	4085	6415	7530
	W (min.)	1915	3380	5115	5420
Heating capacity* (inlet water 50°C)	W	2100	3160	4240	4900
Water flow rate	l/h	292	427	636	741
Water pressure drop	kPa	6.3	14.2	14.1	14.2
Total cooling capacity	W (max.)	1500	2210	3400	4190
	W (med.)	1330	2055	2800	3640
	W (min.)	1055	1570	2310	2840
Sensible cooling capacity	W (max.)	1240	1750	2760	3000
	W (med.)	1055	1540	2115	2750
	W (min.)	755	1100	1635	2040
Water flow rate	l/h	258	380	585	721
Water pressure drop	kPa	5.8	16.6	14.3	19.3
Air flow rate	m³/h (max.)	290	450	600	720
	m³/h (med.)	220	350	460	600
	m³/h (min.)	140	260	330	400
Number of fans	No.	1	2	2	2
♪ Sound pressure	dB (A) (max.)	41.5	39.5	42.5	47.5
	dB (A) (med.)	34.5	32.5	35.5	42.5
	dB (A) (min.)	22.5	25.5	28.5	33.5
Sound power	dB (A) (max.)	50	48	51	56
	dB (A) (med.)	43	41	44	51
	dB (A) (min.)	31	34	37	42
Water content	L	0.79	1.11	1.48	1.48
Max. motor power	(W)	25	44	57	67
Max. input current	(A)	0.12	0.21	0.28	0.35
Coil connections	ø (3R)	1/2"	1/2"	3/4"	3/4"

Power supply = 230V~ 50Hz

Performance values refer to the following conditions:

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

■ Cooling:
room air temperature 27°C D.B. ; 19°C W.B.
• maximum speed:
- water inlet temperature 7°C ; Δt water 5°C
• medium and minimum speed:
- water inlet temperature 7°C
- water flow rate as at maximum speed

■ Heating:
room air temperature 20°C D.B.
• maximum speed
- water inlet temperature 70°C ; Δt water 10°C
• medium and minimum speed:
- water inlet temperature 70°C
- water flow rate as at maximum speed

■ Heating*:
room air temperature 20°C D.B.
• maximum speed
- water inlet temperature 50°C
- water flow rate as for cooling operation

Accessories

- **Control panel and VMF System:** The features are described in the dedicated cards.
- **ZX:** Feet for floor mounting
- **Compatible with most of the accessories of the FCX series**

Dimensions (mm)

DUALJET20 - DUALJET30

DUALJET40 - DUALJET50

DUALJET40 + ZX5
DUALJET50 + ZX5

DUALJET20 + ZX5
DUALJET30 + ZX5

DUALJET		20	30	40	50
Height	A	520	520	520	520
Height with feet	B	563	563	563	563
Length	C	750	980	1200	1200
Height of feet	D	105	105	105	105
Rear height with feet	E	88	88	88	88
Weight (without feet)	kg	15	20	24	24

The technical data in this document are not binding. Aermec S.p.A. shall have the right to introduce at any time whatever modifications deemed necessary for the improvement of the product.

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