



# UFB

## Handling units Floating floor installation

- Low electrical consumption
- Fully silent operation
- Easy maintenance.



#### DESCRIPTION

Air handling terminal for installations in floating floor, also called floating or raised floor. Is a unit consisting of a fan unit with brushless inverter motor, enclosed in a metal structure with mixing chamber equipped with motor-driven damper, filter and electronic card. The use of these units is expected within a floating floor, often used in offices or equipment rooms for data centre and similar. In these systems there is often an air handling unit that cools the environment by entering the treated air in the underfloor and the buster units combine to improve the distribution in the rooms and, depending on the version, perform localized after-treatment. Using the two ambient air temperature sensors (return air) and the underfloor air temperature sensors, the electronic regulation through the positioning of the motor-driven damper, performs a mix to reach the temperature setpoint set with the local user interface (type VMF-E4) or by the supervision system.

#### VERSIONS

**UFB20**: booster unit for the distribution of the UTA treated air, the mix with room air for the room temperature control.

**UFB20W**: booster unit for UTA treated air distribution, the mix with the ambient air and any post-treatment using a water coil (heating, cooling, dehumidification) for the control of the room temperature.

**UFB20HE**: booster unit for UTA treated air distribution, the mix with the ambient air and any post-treatment using electric heating coil (only in heating) for the control of the room temperature.

#### **FEATURES**

- Unit is easy to install, as completely compatible with squares 600x600 mm used in these applications. Using the normal support systems of such floating floors allow to fully replace a square, obtaining a perfect joint, in line with the rest of the floor, with no "step".
- Centrifugal fan with Brushless inverter with continuous speed variation, 0-100%, which allows the exact adjustment to the requests of the internal environment without temperature fluctuations. Also allows an electric savings and better acoustic comfort.
- Compact dimensions, thickness 129 mm
- For a better air quality, the UFB are equipped with electro-statically pre-loaded filters.

#### **ACCESSORIES ONLY AVAILABLE FOR UFB20W**

**USC4UFB:** Condensate drainage device for use when natural run-off is not possible.

VCF-U: Kit consisting of motor-driven 3-way valve with insulating shell, insulated copper couplings and pipes. Versions with 230V~50Hz power supply.

**VMF-E3:** Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF\_N/M and GLL\_N, can be controlled with VMF-IR control.

**VMF-E4DX:** Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

**VMF-E4X:** Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

For more information about the VMF system, refer to the specific documentation available on the site www.aermec.com

### **TECHNICAL DATA**

2-pipe

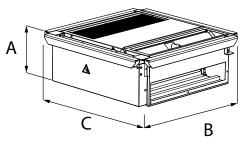
2-ріре								
		UFB20W						
		1			2		3	
		L			Μ	Н		
leating performance 70 °C / 60 °C (1)								
Heating capacity	kW	1,9	91	· · · · · · · · · · · · · · · · · · ·	,53	2,9	6	
Water flow rate system side	l/h	16	7	2	22	26	)	
Pressure drop system side	kPa	3			4	6		
leating performance 50 °C (2)								
leating capacity	kW	1,1			,51	1,7		
Vater flow rate system side	l/h	14	4		10	25		
ressure drop system side	kPa				5	6		
ooling performance 7 °C / 12 °C (3)								
ooling capacity	kW	0,8	34		,22	1,5		
ensible cooling capacity	kW	0,6	57	1,	,00	1,2		
Vater flow rate system side	l/h	14			10	25	3	
ressure drop system side	kPa	3			5	6		
an								
уре	type			Centr	rifugal			
an motor	type			Inve	erter			
lumber	no.				1			
ir flow rate	m³/h	140		220		290		
nput power	W	5		8		12		
lectrical wiring		V1		V2		V3		
Diametre hydraulic fittings								
lain coil	Ø			1,	/2″			
ower supply								
ower supply				230V-	~50Hz			
<ol> <li>Room air temperature 20 °C d.b.; Wate 2) Room air 20 °C d.b.; Water (in) 50 °C; W 3) Room air temperature 27°C d.b./19°C v 2-pipe</li> </ol>	later flow rate as in coolin	g mode 2 °C; EUROVENT			1			
		UFB20				UFB20EH		
		1	2	3	1	2	3	
		L	М	Н	L	М	Н	
an	. 1		6		1	6		
Гуре	type	Centrifugal			Centrifugal			
an motor	type		-			-		
lumber	no.		1			1		
ir flow rate	m³/h	140	220	290	140	220	290	
nput power	W	5	8	12	5	8	12	
lectrical wiring		V1	V2	V3	V1	V2	V3	
liametre hydraulic fittings					1			
Aain coil	Ø		1/2″			1/2″		
lectricheater								
nput power	W		-			500		
Maximum current	A		-			0,20		

230V~50Hz

#### **DIMENSIONS AND WEIGHTS**

Power supply

Power supply



	UFB20W				
Dimensions and we	eights				
A	mm		219		
В	mm		571		
C	mm		572		
Empty weight	kg		17		
		UFB20		UFB20HE	
Dimensions and we	eights				
A	mm	219		219	
В	mm	571		571	
C	mm	572		572	
Empty weight	kg	17		17	

230V~50Hz

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