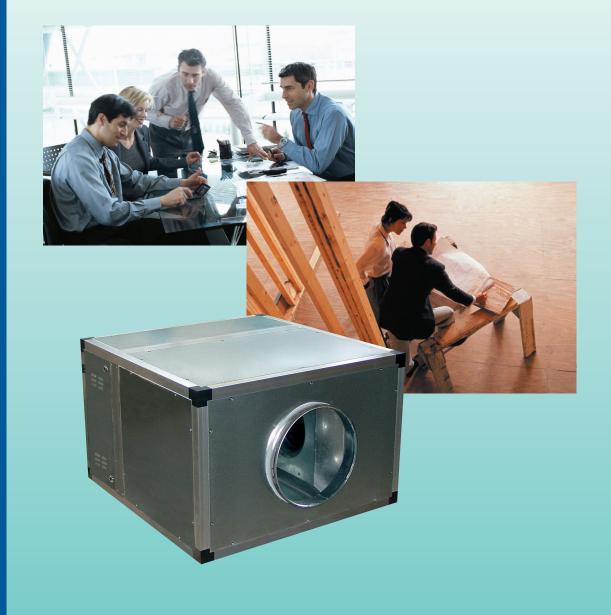
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MUB DUO twin fan range





- One run and one standby-fan
- Auto-changeover controller including timer boost function
- Speed controllable by built-in 5-step controller
- Removable Panels
- Integral thermal contacts
- Built-in non-return dampers
- Low sound level
- Maintenance free and reliable
- 230V / 50Hz

MUB DUO twin fans

The MUB DUO fans have impellers with backward curved blades and external rotor motors. The casing is made from aluminium profile, fibre glass reinforced plastic corners and galvanized steel panels, double skin, insulated with 20 mm fibreglass, with circular duct connections on both sides.

All MUB DUO fans have integral thermal contacts, connected to an auto-changeover controller Millenium II, triggering shown on the display.

355 dia impeller manufactured from polyamide, size 400 and above from aluminium. The built-in non-return dampers prevent circulation of the air within the unit.

The inspection door is placed in air direction at the left hand side.



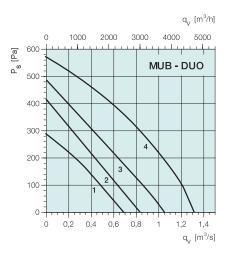
2 = MUB DUO 400E4

3 = MUB DUO 450E4

4 = MUB DUO 499E4

Spigots have rubber sealing to guarantee tight connection to duct system.

Flush mounted multifunctional autochangeover controller Millenium II, built in 5-step transformer controller to set fan speed, on/off switch.



MUB DUO 355E4/400E4



- One run and one standby-fan
- Auto-changeover controller including timer boost function
- Removable Panels
- Built-in non-return dampers

The MUB DUO fans have impellers with backward curved blades and external rotor motors. The casing is made from aluminium profile, fibre glass reinforced plastic corners and galvanized steel panels, double skin, insulated with 20 mm fibreglass, with circular duct connections on both sides. All MUB DUO fans have integral thermal contacts, connected to an auto-changeover controller Millenium II, triggering shown on the display.

355 dia impeller manufactured from polyamide, size 400 and above from aluminium.

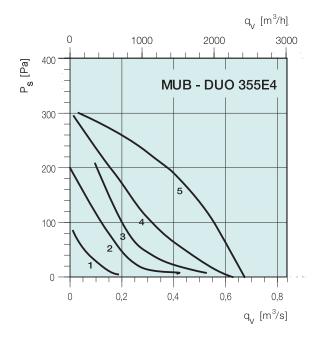
The built-in non-return dampers prevent circulation of the air within the unit.

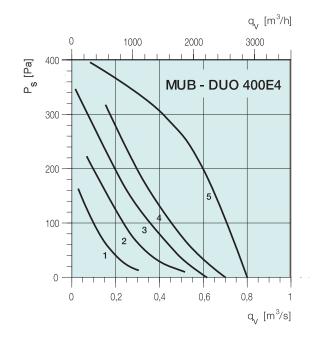
Spigots have rubber sealing to guarantee tight connection to duct system. Flush mounted multifunctional auto-changeover controller Millenium II, built in 5-step transformer controller to set fan speed, on/off switch.

MUB DUO		355E4	400E4
Voltage/Frequency	V/50 Hz	230	230
Phase	~	1	1
Power	W	267	470
Current	А	1,2	2,13
Maximum air flow	m³/s (m³/h)	0,65 (2340)	0,82 (2950)
R.p.m.	min ⁻¹	1436	1340
Max. temp. of transported air	°C	50	50
Max. temp. of transported air when speed control	olled °C	50	50
Sound pressure level at 3 m*	dB(A)	54	49
Weight	kg	29	25
Insulation class		В	F
Enclosure class		IP 44	IP 54
Motor protection		-	-
Speed control, five step	Transformer	-	-
Speed control, five step high/low	Transformer	-	-
Speed control, electronic	Regulator	internal	internal

^{*} At 20 m² Sabine, direction factor 1







MUB DUO 355E4

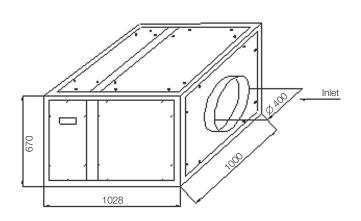
	Mid-frequency band, Hz											
	Hz	Tot	63	125	250	500	1k	2k	4k	8k		
L _{wA} Inlet	dB(A)	67	38	56	60	62	61	58	53	46		
L _{wA} Outlet	dB(A)	69	40	58	62	64	63	60	55	48		
$L_{_{\!\scriptscriptstyle{WA}}}$ Surrounding	dB(A)	61	32	50	54	56	55	52	47	40		

Measuring point: $q_v = 0,40 \text{ m}^3/\text{s}$, $P_s = 195 \text{ Pa}$

MUB DUO 400E4

	Mid-frequency band, Hz										
	Hz	Tot	63	125	250	500	1k	2k	4k	8k	
L _{wA} Inlet	dB(A)	62	33	51	55	57	56	53	48	41	
L _{wA} Outlet	dB(A)	64	35	53	57	59	58	55	50	43	
L _{wA} Surrounding	dB(A)	56	27	45	49	51	50	47	42	35	

Measuring point: $q_v = 0.55 \text{ m}^3/\text{s}$, $P_s = 200 \text{ Pa}$



MUB DUO 450E4 / 499E4



- One run and one standby-fan
- Auto-changeover controller including timer boost function
- Removable Panels
- Built-in non-return dampers

The MUB DUO fans have impellers with backward curved blades and external rotor motors. The casing is made from aluminium profile, fibre glass reinforced plastic corners and galvanized steel panels, double skin, insulated with 20 mm fibreglass, with circular duct connections on both sides. All MUB DUO fans have integral thermal contacts, connected to an auto-changeover controller Millenium II, triggering shown on the display.

355 dia impeller manufactured from polyamide, size 400 and above from aluminium.

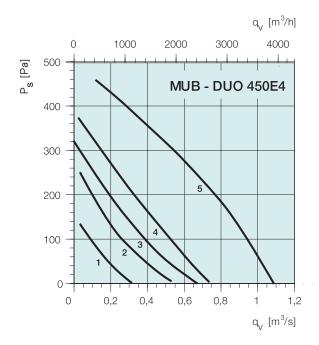
The built-in non-return dampers prevent circulation of the air within the unit.

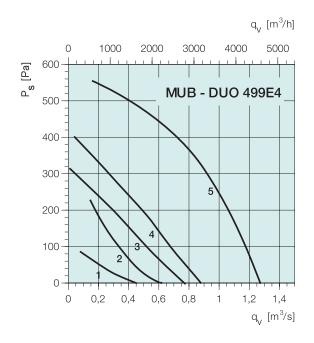
Spigots have rubber sealing to guarantee tight connection to duct system. Flush mounted multifunctional auto-changeover controller Millenium II, built in 5-step transformer controller to set fan speed, on/off switch.

		450E4	499E4
Voltage/Frequency	V/50 Hz	230	230
Phase	~	1	1
Power	W	725	950
Current	А	3,21	4,57
Maximum air flow	m³/s (m³/h)	1,05 (3800)	1,24 (4485)
R.p.m.	min ⁻¹	1280	1296
Max. temp. of transported air	°C	50	50
Max. temp. of transported air when speed controlled	°C	50	50
Sound pressure level at 3 m*	dB(A)	52	56
Weight	kg	29	25
Insulation class		F	F
Enclosure class		IP 54	IP 54
Motor protection		-	-
Speed control, five step	Transformer	-	-
Speed control, five step high/low	Transformer	-	-
Speed control, electronic	Regulator	internal	internal

^{*} At 20 m² Sabine, direction factor 1







MUB DUO 450E4

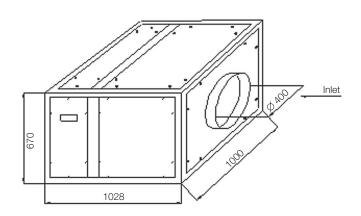
Mid-frequency band, Hz Hz Tot 63 125 250 500 1k 2k 4k 8k L_{wA} Inlet dB(A) 65 36 54 58 60 59 56 51 44 L_{wA} Outlet dB(A) 67 38 56 60 62 61 58 53 46 L_{wA} Surrounding dB(A) 59 30 48 52 54 53 50 45 38

Measuring point: $q_v = 0.60 \text{ m}^3/\text{s}$, $P_s = 260 \text{ Pa}$

MUB DUO 499E4

	Mid-frequency band, Hz										
	Hz	Tot	63	125	250	500	1k	2k	4k	8k	
L _{wA} Inlet	dB(A)	69	69	69	69	69	69	69	69	69	
L _{wA} Outlet	dB(A)	71	71	71	71	71	71	71	71	71	
$L_{\scriptscriptstyle WA}$ Surrounding	dB(A)	63	63	63	63	63	63	63	63	63	
		-									

Measuring point: $q_v = 0.85 \text{ m}^3/\text{s}$, $P_s = 300 \text{ Pa}$





Control panel - Millenium II

The Systemair Millenium II twin fan controller facilitates change over of fans upon fan failure and as a normal function duty sharing on a pre-set operational time. The normal fan duty can be set as required via a transformer controller with a boost duty activated by external contacts such as PIR or air quality sensors.

Following activation the fan will run on for a pre-set period and will then return to normal duty.

When the change-over is triggered by fan failure, i.e TK contacts open circuit, the controller display will indicate the fault and an alarm signal will be given via potential free contacts.

The Systemair Millenium II has inbuilt a weekly timer for operation of the fans. Even if the timer has switched off the fans the boost function will still operate via the remote sensor.

With input terminals for potential free contacts for remote operation of the system by BMS or similar, the Millenium II is a truly versatile unit.



