

TDA

Air handling units Air flow rate from 800 to 3,500 cu.m/h



- HORIZONTAL OR VERTICAL INSTALLATION
- VERSION WITH 3-4 ROW WATER-TYPE COIL
- VERSION WITH 2—ROW DIRECT EXPANSION COIL
- VERSION WITH EXTRACTOR

Characteristics

The conditioning units in the TDA range have been designed for small and medium sized rooms in civil, commercial and hotel type systems. The units are designed to guarantee high head levels and are suitable for both vertical and horizontal installation, to ensure greater versatility of use. The outstanding aesthetic finish of the product makes it perfect for installation in box rooms, bathrooms, suspended ceilings or in the room itself.

The wide range of sizes and accessories available means it's easy to choose the best model for the specific requirements.

•Structure with hot galvanised steel sandwich

panels, 15mm thick, with interposed polyurethane foam (density 40kg/m3). The delivery and suction panels are equipped with flanges for the collets to any air channels and can be moved to create different air flow configurations. The horizontal or vertical fixing to the walls of the unit is made possible by the appropriate brackets.

- New centrifugal fans with high head levels, double suction, forward blades and directly coupled motor. The single-phase 230V-50Hz motor is multi-speed (of which three speeds can be selected).
- Condensated collection basin in galvanised

steel, suitable for both vertical and horizontal installation.

- Coils with 3 rows, that can be fed with hot or refrigerated water. Made of copper pipes with aluminium finning held in place by the mechanical expansion of the pipes. They are equipped with threaded sleeves for the plumbing connections and the air breather valve. The coils can be rotated on site.
- A 2-row, direct expansion coil is also available. It is made of copper pipes with aluminium finning held in place by the mechanical expansion of the pipes.

Accessories

FAF filter G4 on intake

Contained in the special housing, it is made of synthetic fibre and pleated geometry; the U-shaped frame is in galvanised sheet metal with two galvanised wire support nets

SM Mixing chamber with G4 filter and dampers

Galvanised steel housing complete with two air adjustment dampers with opposed fins in galvanised steel. The housing comes complete with a synthetic fibre filter (efficiency class G4, in accordance with standard EN779).

SR Intake damper

Consisting of a frame with galvanised steel ribbed fins. The fins are moved by nylon toothed wheels.

GM Delivery grille

Grille with double row of adjustable fins to introduce air into the room.

GA Suction grille

With tilted fins fixed at 45°; can be installed directly on the device (by removing the flange) or on the wall.

- · CMA Outer casing for grille
- BP One-row water-type post-heating coil applied outside the unit

Contained in a special, thermally-insulated housing, it is installed on the air delivery flange only and consists of a 1-row turbo-type coil.

 BR Electric post-heating coil applied outside the unit

The machines can be fitted with the electric coil accessory of suitable capacity. It is installed downstream of the finned coil only.

PM Delivery plenum with circular start-up Sandwich panel in hot galvanised steel, with interposed polyurethane foam (40kg/m3). The panel is 15mm thick. It is installed in place of the delivery panel with rectangular flange, using the same 4 self-threading screws.

Control panels:
PX with selector only
WMT05 Electromechanical thermostat.
WMT10 control panel

Compatibility of accessories								
	TDA09	TDA15	TDA21	TDA 28	TDA37			
FAF	FAF1	FAF2	FAF3	FAF4	FAF4			
SM	SM1	SM2	SM3	SM4	SM5			
SR	SR1	SR2	SR3	SR4	SR4			
GM	GM5	GM6	GM7	GM8	GM8			
GA	GA5	GA6	GA7	GA8	GA8			
CMA	CMA5	CMA6	CMA7	CMA8	CMA8			
BP	BP1	BP2	BP3	BP4	BP5			

Compatibility of accessories								
	TDA09	TDA15	TDA21	TDA 28	TDA 37			
BR	BR1	BR2	BR3	BR4	BR5			
PM	PM1	PM2	PM3	PM4	PM4			
PX	•	•	•	•	•(2)			
WMT05	•	•(1)	•(1)	•(1)	•(2)			
WMT10	•	•(1)	•(1)	•(1)	•(2)			

- (1) Envision the use of SIT and the replacement of the AA fuse with one AA fuse
- (2) Envisions return relay, one per speed

Choice of Unit

By suitably combining the numerous options available, it is possible to configure each model in such a way as to meet the most particular of system requirements.

Field configurer:

123 46 6 | | | | | Code | Version Code: TDA

Size:

09, 15, 21, 28, 37

Version:

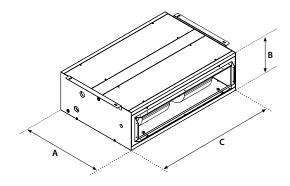
- 3 3-row water coil
- 4 4-row water coil
- E 2-row direct expansion coil
- X Extractor (without coil)

Technical data

Mod. TDA			9	15	21	28	37	
Nominal air flow rate		m3/h	800	1400	2000	2700	3500	
Nominal air now rate		l/s	222	389	556	750	972	
Useful static pressure (1)		Pa	277	330	227	150	240	
Cooling capacity with 3-row coil (2)	total	kW	4,90	7,40	11,10	14,70	17,90	
Cooling Capacity with 3-10w coil (2)	sensible	kW	3,50	5,60	8,20	10,90	13,70	
Cooling capacity with 4-row coil (2)	total	kW	6,10	9,70	13,10	18,40	22,30	
Cooling Capacity with 4-10w coil (2)	sensibile	kW	4,30	6,90	9,40	12,50	15,20	
Cooling capacity with	totale	kW	5,10	7,50	10,70	14,10	16,70	
R-407C coil (3)	sensibile	kW	3,50	5,20	7,40	9,90	12,40	
Heating capacity with 3-row coil (4)		kW	10,40	16,60	24,20	32,10	41,20	
Heating capacity with 4-row coil (4)		kW	12,10	19,90	27,30	36,80	45,40	
Heating coil capacity for 4-pipe systems (4)		kW	5,20	8,80	12,60	16,40	20,90	
Heating capacity with 3-row coil (5)		KW	5,10	8,10	11,90	15,70	20,10	
Heating capacity with 4-row coil (5)		KW	6,00	9,80	13,40	18,20	22,30	
Heating capacity with coil for 4-pipe systems (5)		KW	2,50	4,30	6,00	7,80	10,00	
Electric coil capacity		KW	4	6	8	10	12	
Electric coil power supply					230V~/50Hz			
Fans		n°	1	2	2	1	2	
Motors			1	2	2	1	2	
Total fan input power		kW	0,357	0,713	0,736	0,874	1,771	
Fan input current		Α	1,6	3,1	3,2	3,8	7,7	
Fan power supply			230V~/50Hz					
Filter efficiency (6)			G4	G4	G4	G4	G4	
Sound power level (7)		dB(A)	62	63	70	72	73	
Connections								
Water battery collectors		Ø mm	1″	1"	1″	1″	1″	
Direct expansion liquid coil pipes		Øi mm	10	10	12	16	16	
Direct expansion gas coil pipes		Øu	18	22	22	28	28	
Condensate discharge		Ømm	3/8"	3/8"	1/2"	1/2"	1/2"	

- (1) at nominal flow rate with 3-row coil
- (2) Incoming air temperature 27°C d.b. 19°C w.b.; water temperature (In-Out) 7°C-12°C
- (3) Incoming air temperature 27°C d.b. 19°C w.b.; average evap. temp. 7°C
- (4) Incoming air temperature 20°C; water temperature (In-Out) 70°C-60°C
- (5) Incoming air temperature 20°C; water temperature (In-Out) 45°C-40°C
- (6) In accordance with standard EN 779
- (7) In accordance with standard UNI EN ISO 9614

Dimensions (mm)



TDA		9	15	21	28	37
Height (B)	mm	300	320	320	380	380
Width (C)	mm	920	1000	1400	1400	1400
Lenght (A)	mm	630	670	670	790	790
Net weight *	kg	42	53,00	71,00	88,00	91,00

(*) with 4-row coil