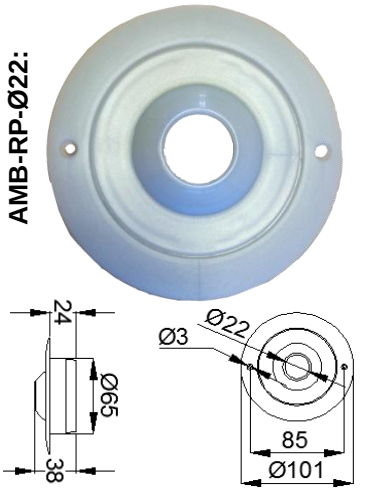
AMB Ø22 & Ø42

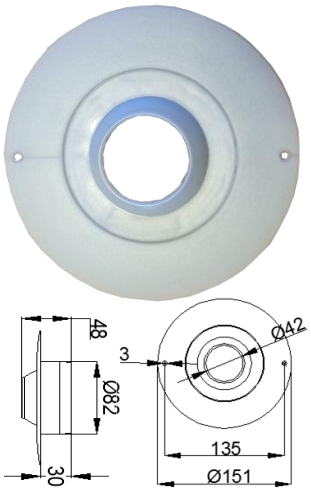
AMB-RP- Ø22 & AMB-RP- Ø42

Single jet nozzle, round, made by plastic, with adjustable head for regulation of the air jet in any direction. Active diameter 22 or 42mm. It is produced only in some colors (see page 4). For wall (for cooling and heating) or ceiling (only for heating, for air-curtain or to avoid condensation in big glass surfaces) installation. Every jet nozzle is fixed with two visible screws in the installation surface. Max head angle: 24°.

AMB-RP-Ø22:



AMB-RP-Ø42:



AMB-AP- Ø22 & AMB-AP- Ø42

Set of many jet nozzles in rectangular metal frame with external flange. The nozzles are produced only in some colors (see page 4). The maximum angle of the heads is 24°.

AMB-AP-Ø22: With set of jet diffusers with active diameter 22mm.
AMB-AP-Ø42: With set of jet diffusers with active diameter 42mm.

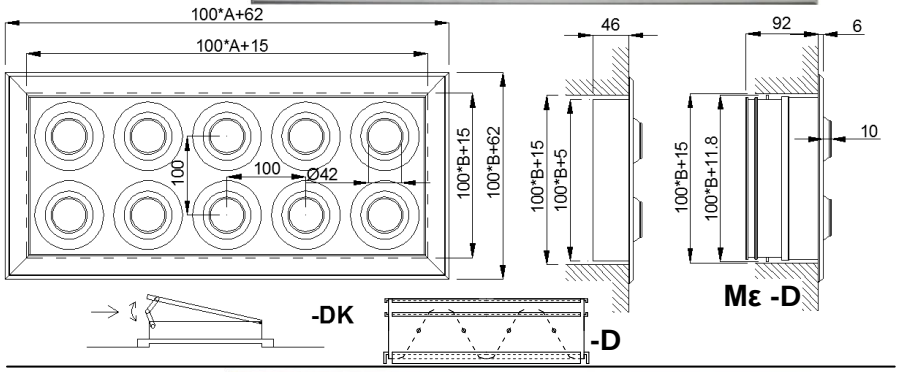
Frame made by aluminium, anodized or painted electrostatically in RAL color.

As an option, the **AMB-AP-Ø22&Ø42** diffusers they can be equipped with air volume control damper with simultaneously opposite rotated blades **(-D)** or flap type **(-DK)**.

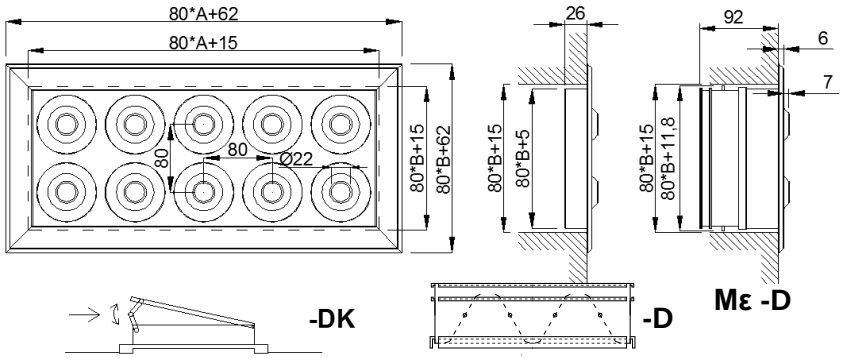
The **AMB-AP-Ø22&Ø42** diffusers are installed with visible screws in the front frame.

For wall (for cooling and heating) or ceiling (only for heating, for air-curtain or to avoid condensation in big glass surfaces) installation.

AMB-AP-Ø42:

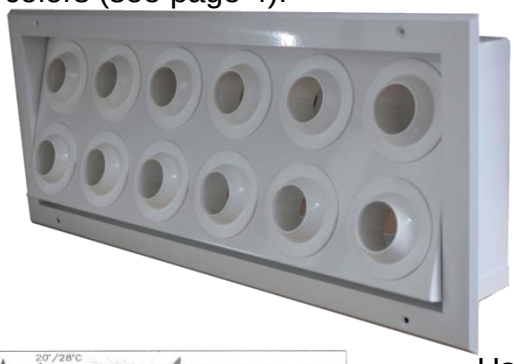


AMB-AP-Ø22:

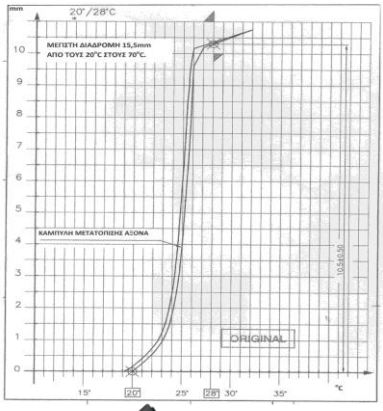


AMB-AP-Φ42 SELF ADJUSTED (-AUTH) OR WITH ACTUATOR (-ON/OFF 220V or -ANALOGUE 24V)

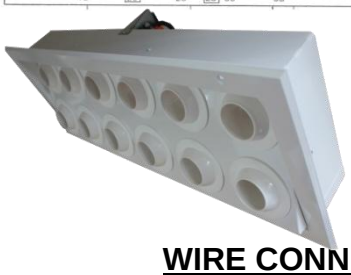
In this case the nozzles are installed in a subframe. The subframe is rotated in relation with the external flange. The subframe is steel made and the external flange aluminium made. Both painted in RAL color. The plastic nozzles are manufactured in certain colors (see page 4).



AMB-AP-Φ42-AUTH: The self adjustment of the subframe angle, which contains the nozzles, is succeeded with a thermal actuator, which according to the supply air temperature moves an axis. This movement is very intensive between 20-28°C, outside this temperature area the movement is very small.



Usually the supply air temperature in cooling is below 20°C and in heating is over 28°C. We can use this phenomenon with a proper motion transmission mechanism to adjust the subframe angle in the position of cooling or heating. The installation of the subframe angle self adjustment mechanism is possible for AMB-AP-Φ42-AUTH diffusers up to 8X2 nozzles. Up to 4X2 nozzles the mechanism is in the one side of the diffuser, for more nozzles the mechanism is in the middle of the diffuser. The big advantage in this case is that we install the diffuser like a simple one and we forget it, and that we have not the cost of the electric installation like the diffusers with electric actuator.



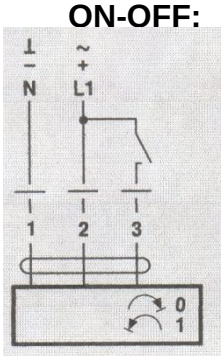
AMB-AP-Φ42-ON/OFF 220V & AMB-AP-Φ42-ANALOGUE 24V:

In this case the subframe angle is adjusted by an electric actuator. Maximum No of nozzles 10X2. When we have 1 row of nozzles the actuator is horizontal, when we have 2 rows of nozzles the actuator is vertical. Up to 4X2 nozzles the actuator is in the one side of the diffuser, for more nozzles the actuator is in the middle of the diffuser.

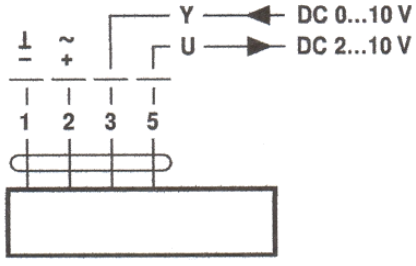
For the electric actuators:
-Max. Temp.: 50°C
-Max. Relative Humidity:

WIRE CONNECTIONS:

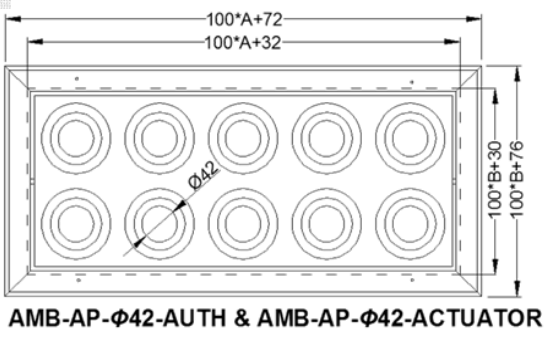
ON-OFF:



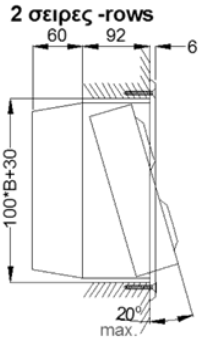
ANALOGUE:

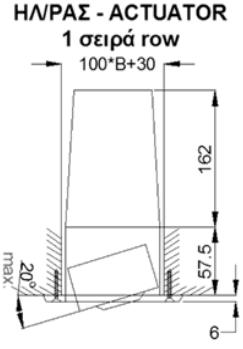


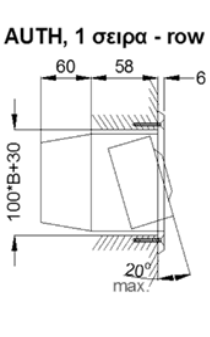
ΔΙΑΣΤΑΣΕΙΣ



AMB-AP-Φ42-AUTH & AMB-AP-Φ42-ACTUATOR








Ø22


Ø42

AMB-AP-SR-Ø22 & AMB-AP-SR-Ø42

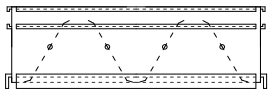
The jet diffusers AMB-AP-SR series have a curved frame manufactured by galvanized steel sheet or steel sheet electrostatically painted in RAL color, which allow them to be installed in the side of visible round air ducts. They are manufactured with a curvature same as the air duct curvature, so a perfect fit and a high design are achieved. The nozzles are installed in a fixed subframe.

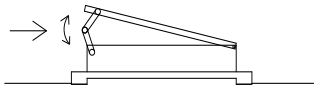
The following types are manufactured:

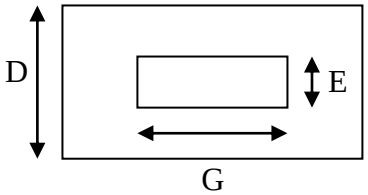
AMB-AP-SR-Ø22: With set of jet diffusers with active diameter 22mm.
AMB-AP-SR-Ø42: With set of jet diffusers with active diameter 42mm.

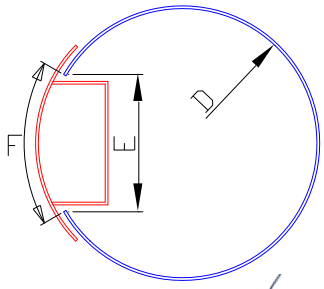
In both cases the jet diffusers have adjustable head towards all the directions and are made by plastic in some colors (see page 4).

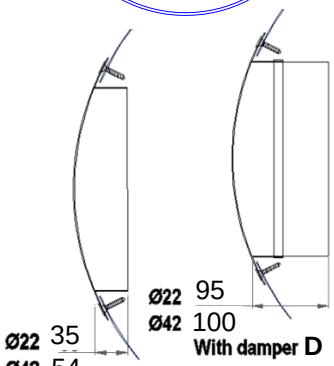
They can be equipped with damper **D** or **DK**.


D


DK







DIMENSIONS TABLE

TYPE	JET DIFFUSERS BY LENGTH	G	JET DIFFUSERS BY HEIGHT	E	MINIMUM DIAMETER WITHOUT DAMPER	MINIMUM DIAMETER WITHDAMPER (D or DK)
AMB-AP-SR-Ø22	5	415	1	98	200	250
	7	575	2	178	350	400
	10	815	3	258	500	550
	13	1055				
AMB-AP-SR- Ø 42	4	415	1	118	250	300
	5	515				
	6	615				
	7	715	2	218	450	500
	8	815				
	9	915				

Any combination of jet diffusers by length and by height is possible.

DIAMETERS FOR WHICH THE DIFFUSERS ARE MANUFACTURED (ØD):
200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000

ARC LENGTH F FOR THE CONSTRUCTION OF A HOLE ON AIR DUCT

D	AMB-AP-SR- Ø22			AMB-AP-SR- Ø42	
	1	2	3	1	2
200	102,4	-	-	-	-
250	100,7	-	-	122,9	-
300	99,8	-	-	121,3	-
350	99,3	186,7	-	120,4	-
400	99,0	184,5	-	119,8	-
450	98,8	183,0	-	119,4	227,6
500	98,6	182,0	271,1	119,1	225,6
550	98,5	181,3	268,5	118,9	224,2
600	98,4	180,7	266,7	118,8	223,1

: In these cases the damper D or DK is not installed.

D	AMB-AP-SR- Ø 22			AMB-AP-SR- Ø42	
	1	2	3	1	2
650	98,4	180,3	265,3	118,7	222,3
700	98,3	180,0	264,2	118,6	221,7
750	98,3	179,7	263,4	118,5	221,2
800	98,2	179,5	262,7	118,4	220,8
850	98,2	179,3	262,1	118,4	220,5
900	98,2	179,2	261,7	118,3	220,2
950	98,2	179,1	261,3	118,3	220,0
1000	98,2	179,0	261,0	118,3	219,8

No of Jet diffusers per height

MATERIALS AND POSSIBLE COLORS OF JET DIFFUSERS

The plastic jet diffusers are manufactured only in some colours. You can see them in the photos below. In AMB-AP the subframe, where the jet nozzles are installed, can be from aluminium anodized or sheet steel galvanised or electrostatically painted in RAL color. The external frame in AMB-AP can be from anodized aluminium in natural color or aluminium electrostatically painted in RAL color. The external frame and the subframe in AMB-AP-SR can be from sheet steel galvanized or painted electrostatically in RAL color.

Ø42 color range

Ø22 color range

OPERATION

The nozzles of the AMB-RP and AMB-AP can be adjusted in any direction.

- In **heating** the nozzles are turned downwards.
- In **isothermal** the nozzles are looking straight.
- In **cooling** the nozzles are turned upwards.

See the photos below:

HEATING

ISOTHERMAL

COOLING

Also if the terminal velocity of the air is high we can turn the nozzles left-right to reduce the terminal air velocity.

The **return air grilles** are better to be installed below the AMB diffusers, close to the floor for better operation.