

# Airtrace

**IP 66**  
(SIP)

**IP 66**  
(DIP)

**IK 09**

**Class I**

**Class II** 



A highly aesthetic state-of-the-art design is combined with proven functionality, including high performance micro-optics. Its two sizes and a series of exclusively designed Batio brackets allow the use of Airtrace in a wide variety of both road and amenity applications.

## **Applications**

Consult pages 16-19

## **Lamps**

High pressure sodium  
up to 250W

Ceramic metal halide  
up to 250W

Quartz metal halide  
up to 250W



Airtrace 1

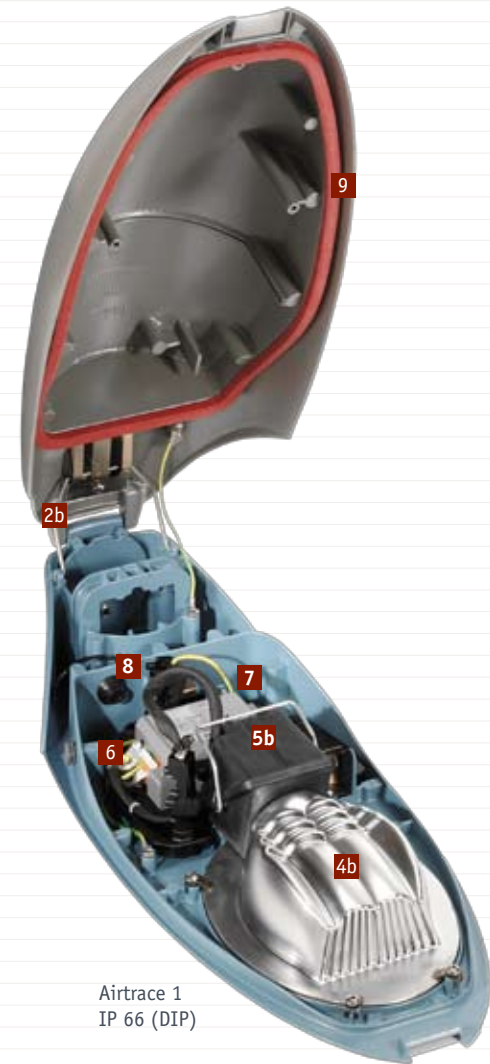


Airtrace 2

- 1 **Housing** formed by a lower frame and an upper canopy in L-2521 high pressure die-cast aluminium alloy. Corrosion resistant and painted in polyester powder.
- 2 **Closing clip** in extruded anodised aluminium (2a). A safety catch system holds the canopy open to allow safe maintenance and replacements (2b).
- 3 **Spigot** made of die-cast aluminium, a trapdoor system allows both post top 60-76mm and side entry 32-60mm without use of an adapter; fixed to the column by two stainless steel bolts.
- 4 **Optics** available in two versions:
  - a **IP 66 version (SIP)**: high purity anodised aluminium reflector fixed to the upper canopy and a toughened flat glass fixed to the lower frame with silicone gasket.
  - b **IP 66 version (DIP)**: high purity anodised aluminium reflector sealed with a silicone gasket to a toughened flat glass forming a compact optical system fixed to the lower frame (Airtrace 2 only DIP).
  - c **CBT-Breather**: a filter equalises internal and external pressure.
- 5 **Lamp holder support** available in two versions:
  - a **IP 66 version (SIP)**: formed by a bracket in thermoplastic material and a steel plate.
  - b **IP 66 version (DIP)**: formed by two parts manufactured in thermoplastic material and a stainless steel locking hinge lever. Both versions are equipped with an adjustable system for lamp focusing.
- 6 **Gear tray** control gear (electromagnetic or electronic) is fixed to a simple and tool-less removable thermoplastic gear tray, by stainless steel clips and plug connectors.
- 7 **Safe Maintenance Technology (SMT)** automatic disconnect power when opening the canopy, for safe access to components (standard in Class II, optional for Class I).
- 8 **Cable connection** M20 gland for cable entry up to 12mm, cable is connected to the plug/socket terminals.
- 9 **Gasket** made of high temperature resistant silicone ensuring IP 66 protection.



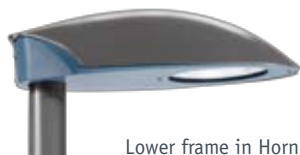
Airtrace 1  
IP 66 (SIP)



Airtrace 1  
IP 66 (DIP)



## CHARACTERISTICS



Lower frame in Horn blue.  
Upper canopy in Pyrite grey.



Lower frame in Pyrite grey.  
Upper canopy in Horn blue.

**Other colours on request**



### Universal mounting

By a die-cast trapdoor spigot system and two M10 allen key bolts give a permanent installation.

If necessary, change from post top to side entry is quickly done without tools.



### Post top

For columns with a  $\varnothing$  60 to 76mm top.

### Batio brackets

Airtrace comes together with a range of stylish **Batio** brackets underlining its overall design concept and making many amenity applications possible.

### Side entry

For  $\varnothing$  32 to 60mm arms.

For more information about model Batio, consult pages 350-353.

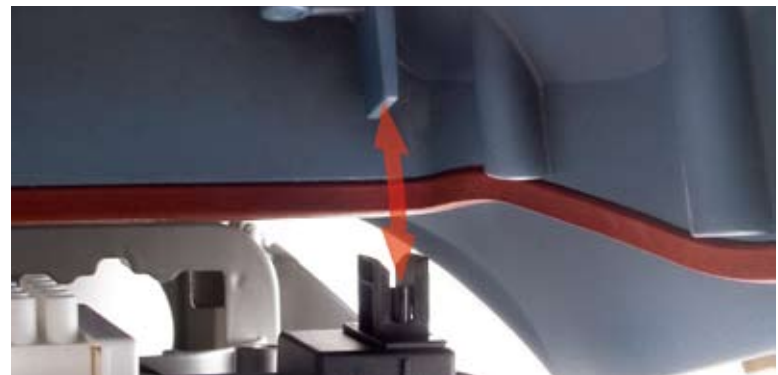


### Innovative optical systems

- 1) For the basic version of Airtrace 1 the efficient iReflec100 optic is used. The reflector hinges with the canopy, which makes lamp replacement very easy. It has been designed for a wide range of lamp types (max. ST-70 and MT-150). To serve the varying needs as to lighting performance versus lighting comfort, Airtrace offers also the ExaCT-DIP optical technology:
  - ExaCT-Performer for maximum column spacings, lighting levels and uniformity.
  - ExaCT-Comfort for minimum glare (G6) and obtrusive light and no (direct) light pollution.
- 2) Airtrace 2 uses either the iReflec300 optic for high pressure sodium lamps up to 250W, or the iReflec100 optic for the micro lamps up to 150W. Both come as DIP systems.
- 3) Airtrace uses a flat glass concept for an optimum control of direct glare and light pollution.

### Double Ingress Protection (DIP™)

The lantern canopy is provided with a silicone gasket achieving a watertight and dust-tight IP 66 protection. However, Airtrace takes things one step further with the IP 66 (DIP) version. In addition, the optical system of this DIP version is independently sealed to the lower frame, which ensures the protection against the unlikely water or dust ingress in the lantern housing. Consequently, the optical system is never compromised.



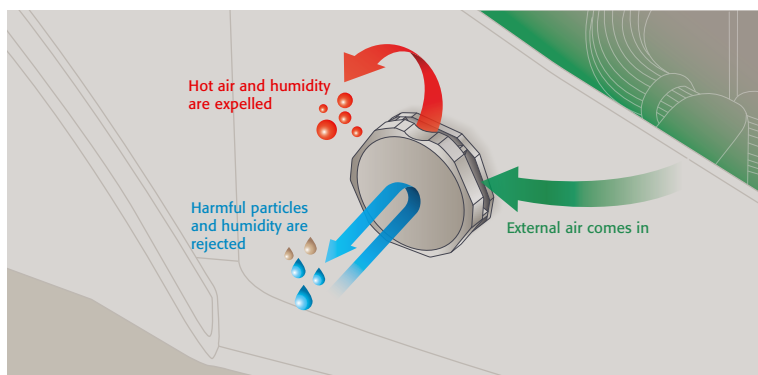
### Safe Maintenance Technology (SMT™)

It is an interesting operational characteristic of the Airtrace in its Class II version. When the canopy is opened, the switch automatically disconnects power for safe access to the electrical components.

## CHARACTERISTICS

### Controlled Breathing Technology (CBT™)

Airtrace is equipped with a membrane filter GORE™, which balances the internal and external pressure. Gasket service life is thus extended, as pressure is reduced on it. At the same time, any internal moisture is vented by external air coming in.



### Opening

It is done without the need for tools. Through a single clip, which provides easy access to the lantern interior. Together with the automatic disconnection and the safety catch, while opened this creates a safe working environment.



### Lamp replacement

#### IP 66 version (SIP)

The lamp can be unscrewed directly from the lamp holder. It is easily done, since the reflector is fixed to the lantern canopy.

#### IP 66 version (DIP)

The lamp holder support is extracted after hinging the locking clip.



IP 66 (SIP)

IP 66 (DIP)

### Maintenance

It is done without the need for tools by first disconnecting the pluggable connectors. Secondly by pressing two stainless steel clips, which hold the gear tray. Finally by removing it.



# Airtrace

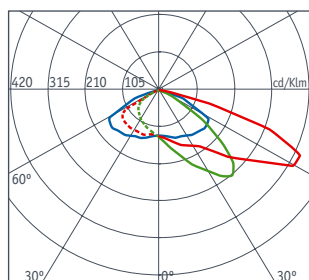
## SETS & BRACKETRY

For a further integration of lantern and columns towards a more decorative arrangement, a number of Batio brackets is available. Some examples are shown here.



- 1 Trunk-conical column - with Airtrace 1
- 2 Cannes 50-ICG column with Batio 1S/120 bracket - with Airtrace 1
- 3 Cannes 60-ICG column with Batio 1D/120 bracket - with Airtrace 1
- 4 Trunk-conical column- with Airtrace 2
- 5 Trunk-conical column with Batio-2S/60 bracket - with Airtrace 2
- 6 Trunk-conical column with Batio-2D/60 bracket - with Airtrace 2

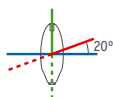
### Airtrace 1



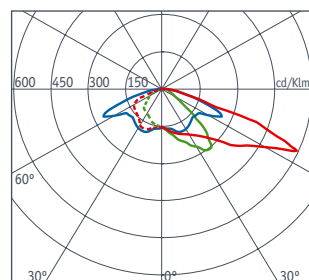
Reflector  
iReflec100

Lamp  
MT-60

Performance  
ULOR: 0%  
DLOR: 69.8%



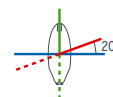
### Airtrace 2



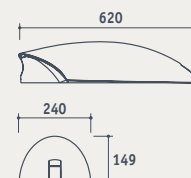
Reflector  
iReflec300

Lamp  
ST-150

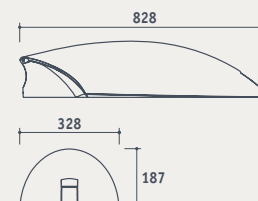
Performance  
ULOR: 0.8%  
DLOR: 79.3%



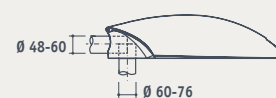
### Airtrace 1



### Airtrace 2



### Mounting details



| MODEL                            | TYPE      | SHAPE | LAMP HOLDER | REFLECTOR  | BOWL       | W.a. (m <sup>2</sup> ) | Kg*   |       |
|----------------------------------|-----------|-------|-------------|------------|------------|------------------------|-------|-------|
| <b>Airtrace 1</b><br>IP 66 (SIP) | ST/MT-50  |       | E27         | iReflec100 | Glass      | 0.071                  | 6.95  |       |
|                                  | ST/MT-70  |       | E27         |            |            |                        | 6.95  |       |
|                                  | MT-35     |       | G12         |            |            |                        | 6.45  |       |
|                                  | MT-70     |       | G12         |            |            |                        | 6.45  |       |
|                                  | MT-150    |       | G12         |            |            |                        | 7.30  |       |
|                                  | MT-45     |       | PGZ12       |            |            |                        | 6.15  |       |
|                                  | MT-60     |       | PGZ12       |            |            |                        | 6.15  |       |
|                                  | MT-90     |       | PGZ12       |            |            |                        | 6.15  |       |
| <b>Airtrace 1</b><br>IP 66 (DIP) | MT-35     |       | G12         | ExaCT      | Glass      | 0.071                  | 6.75  |       |
|                                  | MT-70     |       | G12         | Performer  |            |                        | 6.75  |       |
|                                  | MT-150    |       | G12         | or Comfort |            |                        | 7.60  |       |
|                                  | MT-45     |       | PGZ12       |            |            |                        | 6.45  |       |
|                                  | MT-60     |       | PGZ12       |            |            |                        | 6.45  |       |
|                                  | MT-90     |       | PGZ12       |            |            |                        | 6.45  |       |
| <b>Airtrace 2</b><br>IP 66 (DIP) | ST/MT-50  |       | E27         | iReflec100 | Glass      | 0.118                  | 10.76 |       |
|                                  | ST/MT-70  |       | E27         |            |            |                        | 10.76 |       |
|                                  | MT-150    |       | G12         |            |            |                        | 11.10 |       |
|                                  | MT-90     |       | PGZ12       |            |            |                        | 9.96  |       |
|                                  | MT-140    |       | PGZ12       |            |            |                        | 9.76  |       |
|                                  | ST/MT-100 |       | E40         |            | iReflec300 | Glass                  | 0.118 | 11.41 |
|                                  | ST/MT-150 |       | E40         |            |            |                        | 12.40 |       |
|                                  | ST/MT-250 |       | E40         |            |            |                        | 13.40 |       |

ST (High pressure sodium)  
MT (Ceramic metal halide)

W.a. (Windage area)  
Kg\*(Weight in class I, without lamp)

For more information about lamps, consult pages 386-389.

### OPTIONS

Including lamp and cable  
Wired for cell (WFC), mini Photocell or NEMA socket  
Other RAL colours on request  
DIM versions

### BRANDS / QUALITY CERTIFICATION

Airtrace 1 and Airtrace 2  
ENEC brand by Aenor  
Certification of the Inst. Astrofísico de Canarias