



TECHNICAL DATA SHEET

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1. WARNINGS AND ENVIRONMENTAL POLICY

1.1. Warnings

For your security, and to protect the devices, follow these instructions:

- Do not handle the system with wet or damp hands.
- Disconnect the power supply before making any connections.
- Disconnect the power supply from the air conditioning and heating system before making any connections or disconnecting equipment.
- Take care not to cause a short circuit in any of the system's connections.

1.2. Environmental Policy



Do not dispose of this equipment in the household waste. Electrical and electronic equipment contain substances that may damage the environment if they are not handled appropriately. The symbol of a crossed-out waste bin indicates that electrical equipment should be collected separately from other urban waste. For correct environmental management, it must be taken to the collection centers provided for this purpose, at the end of its useful life.

The equipment's components may be recycled. Act in accordance with current regulations on environmental protection. If you replace it with other equipment, you must return it to the distributor or take it to a specialized collection center.

Those breaking the law or by-laws will be subject to such fines and measures as are laid down in environmental protection legislation.

1.3. Certifications



FCC verification:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

UL verification:

Temperature Indicating and Regulating Equipment, Airzone System, which is composed of a Master Control Unit Model CINNPL, a zone thermostat Model TINNPLTB and a zone control unit Model MINNPL.

This investigation is conducted in accordance with the UL Standards for Solid State Appliance Controls, UL244A and Temperature Indicating and Regulating Equipment, UL 873.

2. INTRODUCTION

The iQ Zoning System is composed of several elements. The combination of these elements allows different functionalities adapted to the needs of each installation.

The following elements will be explained in the next sections in more detail:

- 1) Airzone Controller (part ID CINNPLU) – (One per installation) This is the key element of the system which manages and supervises all zoning operation. It handles various inputs and outputs to communicate to the rest of system elements and to the iQ controller for external control.
- 2) Zone Module (part ID MINNPLU) – One zone module controls each motorized damper and works as a gateway between the zone thermostat and the main system.
- 3) Zone Thermostat (part ID TINNPLTBU) – Each zone has one zone thermostat connected to (any) one of the modules within that zone. The zone thermostat provides the user interface for control of temperature and other features which are applied to the one associated zone.
- 4) Power Supply (part ID FUENTEU) – (One per installation) The universal auto detection power supply has been designed to provide the necessary current and voltage to the Airzone Zoning System.
- 5) Circular Motorized Damper - Retrofit (CMDR)
- 6) Round Motorized Damper (RMDN)
- 7) Rectangular Motorized Damper - Retrofit (RMDR)
- 8) Round Barometric Bypass Damper (BYCI)
- 9) Rectangular Barometric Plenum Bypass Damper (BYRE)

3. ZONING SYSTEM OPERATION

Some important characteristics of the iQ Zoning System are:

- 1) It operates with 12 VDC.
- 2) It requires a single shielded cable containing 4 stranded conductors interconnecting all system elements.
- 3) The dampers require power to open, power to close.
- 4) The way the Airzone controller communicates with the zone modules is based on a proprietary communication protocol.
- 5) It communicates with the iQ Controller with only two data wires.

Due to the flexibility of the zoning system and its high performance objectives, each zone requires the setting of some basic parameters to be able to activate the system. Those parameters must be set by the installer at the initial power on of the zoning system before enabling zone control from the iQ Controller. Those basic parameters include whether the zone module is to be a Master or Subordinate, the zone module address, the associated zone number, and the zone weight (if it is defined as Master).

4. WIRING INFORMATION

The zoning system wiring is very simple, but great care must be taken during its layout and connection. All wiring must be made with stranded, shielded communication cable, AWG20, Belden type 6402FE, CAT5e, or equivalent. The cable should NOT be stapled in place. If it is required to have the cable fixed to any part of the building structure, clamps with cable protection should be used. DO NOT crush or kink the cable.

IMPORTANT: Failure to follow these recommendations may result in an unreliable installation that will seriously affect the operation of the iQ Zoning system.

Incorrect wiring is one of the two major causes of installation problems. Care must be taken in following the wire / connector colors table, shielding, tightening of connector screws, etc. A careful re-check for short circuits, including strand shorts at the connector blocks, is essential.

Another cause of installation problems is incorrect parameters setting. This can be avoided by writing down where each zone module is located and how it is configured (mainly Zone Module addresses, and master-subordinate relationship). It is important to plan and map out the entire installation, with zone and module numbers, cable routing, and supply ducts served by each, before beginning the installation.

See the typical wiring layout and Daisy chain connection below:

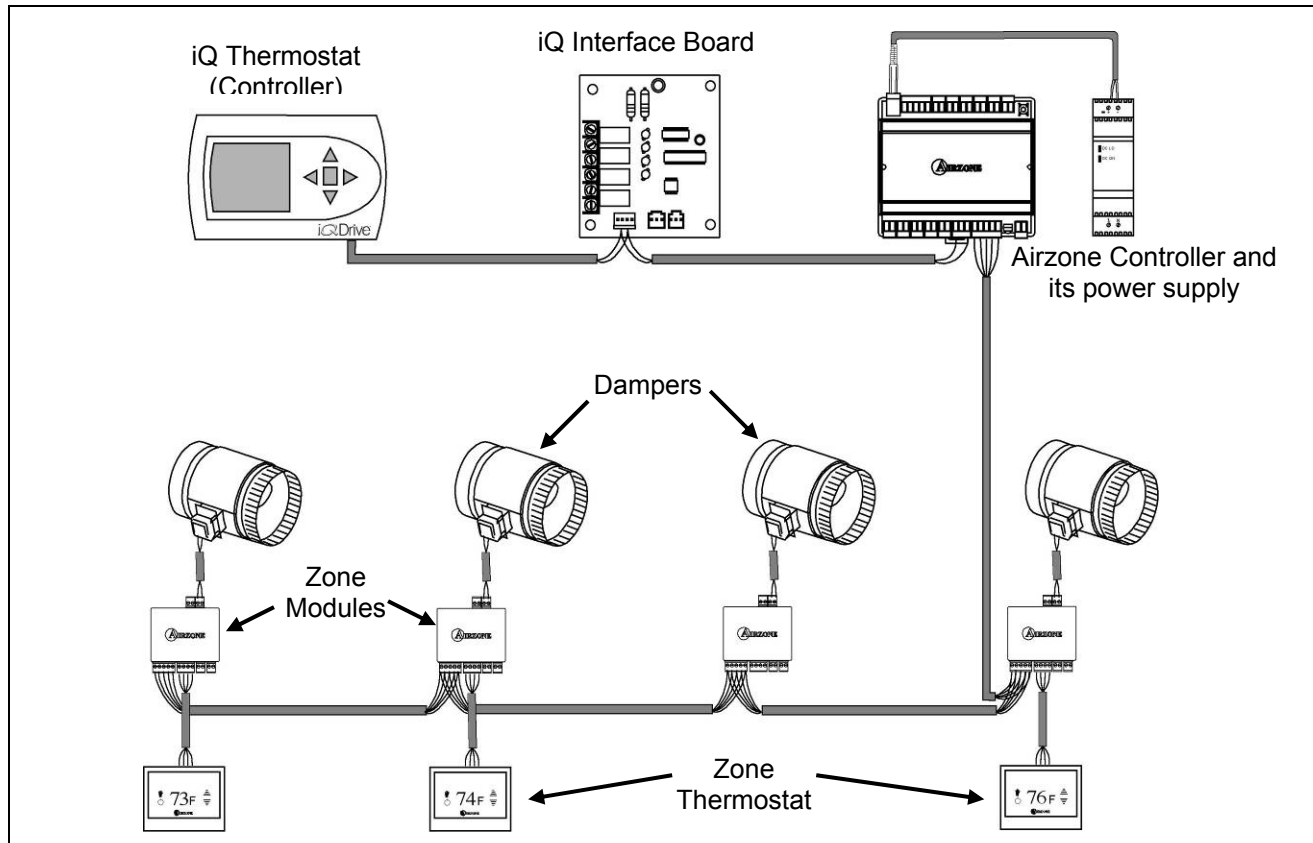


Fig. 1 - Daisy Chain Connection

5. AIRZONE CONTROLLER (CINNPLU)

5.1 Functional Description

This component manages the zoning system's control, including the following:

- Communication with the iQDrive system using the iQ communication bus.
- Management of internal communications within the zoning system (described in this document).
- Processing of temperatures and zone weighting from all zones to determine an integrated demand
- Reception and management of external signals such as alarms

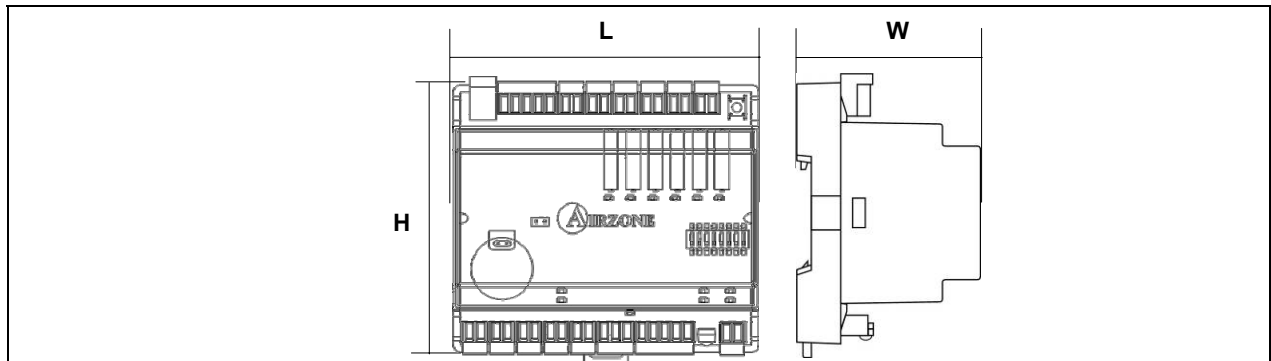


Fig. 2 – Airzone Controller Dimensions (Refer to table in Section 5.4.)

The Airzone controller has two communication ports. One of them is used to provide the interconnection with the other components of the zoning system (local bus), and the other with the iQDrive system (iQ bus).

The Airzone controller uses one wired digital input: a fire alarm input, which provides a forced ON/OFF with manual reset. (Other digital signals, such as that to enable or disable zone control operation, are transmitted to the Airzone control board through iQ communication.)

There is one analog input used, the temperature protection probe for the main supply duct sensor.

5.2 Component Description

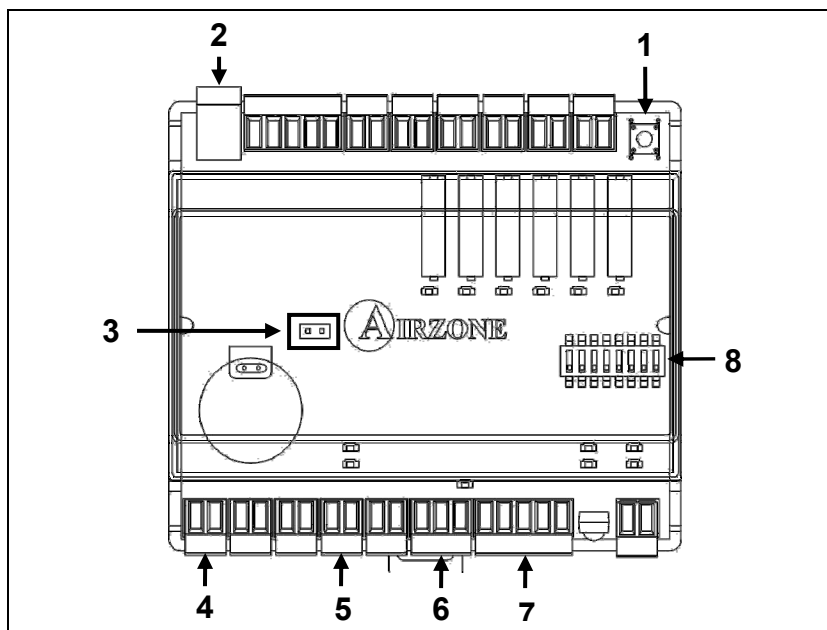


Fig. 3 - Airzone Controller

N°	Description	N°	Description
1	Set configuration push button	5	Fire Alarm Contact
2	12VDC Input	6	iQ bus connection
3	J2 Jumper (Battery On/Off)	7	Local zoning system bus connection
4	Supply Temperature Probe Input	8	Switches for system configuration

5.3 Technical Information

POWER SUPPLY (item 2 in fig. 3)	
Power Supply Voltage	12VDC $\pm$ 10%
Maximum Current Supply	$I_{max} = 1A$
IQ BUS PORT (item 7 in fig. 3)	
Communication Wires	2 Wires
Supply Wires	2 Wires
Bus Voltage Supply	12VDC $\pm$ 10%
ALARM BRIDGE (item 5 in fig. 3)	
Input Type	Dry Contact
Maximum Resistance	2K Ω
SUPPLY TEMPERATURE PROBE (item 4 in fig. 3)	
Analogue Inputs	NTC Airzone
PHYSICAL FEATURES	
Dimensions (W x L x H) in(mm)	2.87(73)x 6.2(157.5) x 3.54(90)
OPERATING TEMPERATURES	
In storage	-4°F . . 158°F
In operation	23°F . . 95°F
Humidity	20% - 95% RH, non-condensing

6. ZONE CONTROL MODULE (MINNPLU)

6.1. Functional Description

Each module manages the airflow for one specific supply duct by controlling its damper motor. There may be one or more modules (and supply ducts) serving each zone. Within each zone, one and only one module (it doesn't matter which) is designated Master, and the others (if there are more than one in that zone) are designated Subordinate. The assigned Master module is connected to the zone thermostat for that zone. An operating module controls the damper motor position to either fully open or fully closed.

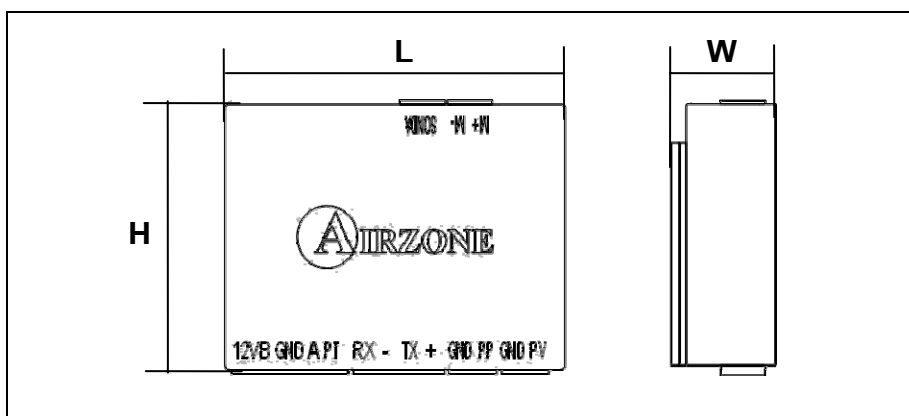


Fig. 4 - Zone module Dimensions (Refer to table in Section 6.5.)

It also has such advanced functionalities as automatically switching between normal and Sleep mode, Occupancy Detection Input and normal mode, and off mode with Window/Door Contact Input.

An analog input is available to connect an Airzone remote temperature sensor when configured as a Master zone module.

The iQZone system can manage up to 32 Zone modules with up to 8 zones.

6.2. Component Description

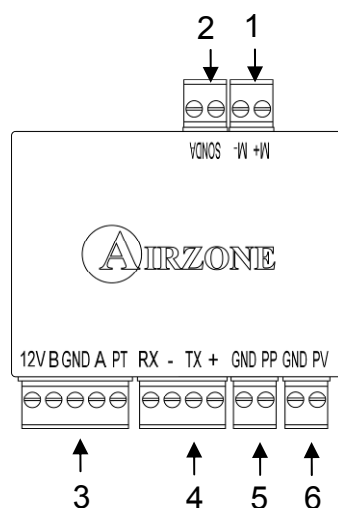


Fig. 5 - Zone module

Nº Description

- 1 Motor Control Output
- 2 Remote Temperature Sensor Input
- 3 Zoning Bus Connector

Nº Description

- 4 Thermostat Connector
- 5 Occupancy Detector Input
- 6 Door/Window Contact Input

6.3. Configuration

Each zone module has a number of parameters that must be set prior to system operation. Note that configuration of subordinate zone modules requires the use of a separate portable zone thermostat with a communication connector cable.

For more information about the configuration parameters, see “Configuration” section 7.4 for the touch thermostat.

6.4. Technical Information

LOCAL BUS COMMUNICATIONS PORT (item 3 in fig. 7)	
Power Supply Voltage	12VDC $\pm$ 10%
Communication wires	2 wires (A, B)
Power wires	2 wires (12VDC, GND)
THERMOSTAT COMMUNICATIONS PORT (item 4 in fig. 7)	
Power supply	3.3Vdc $\pm$ 10%
Communication wires	2 wires (Rx, Tx)
Supply wires	2 wires (+, -)
DIGITAL AND ANALOG INPUTS (items 2, 5, 6 in fig. 7)	
Occupancy Detector and Door Contacts	Dry contacts
Temperature Sensor Input	NTC Airzone
PHYSICAL FEATURES	
Dimensions (W x L x H) in(mm)	0.67(17) X 2.32(59) X 1.75(4.5)
OPERATING TEMPERATURES	
In storage °F(°C)	-4 to 158(-20 to 70)
In operation °F(°C)	23to 95(-5 to 35)
Humidity	20% - 95% RH, non-condensing

7. ZONE THERMOSTAT (TINNPLU)

7.1. Functional Description

Each zone in the zoning system requires one zone (“touch”) thermostat. The thermostat controls air conditioning and heating in the zone by measuring the local temperature and providing the demand to the zoning system. Additional functions include providing the user interface for:

- Zone activation (On/Off).
- Selection of the zone set point temperature (manual or by schedule).
- Selection of local ventilation (On/Off).
- Selection of ECO Sleep Mode.
- Scheduling of zone activation times along with cooling and heating set points (optional).
- Access to the above functions for all other zones.
- Master module and zone configuration input.

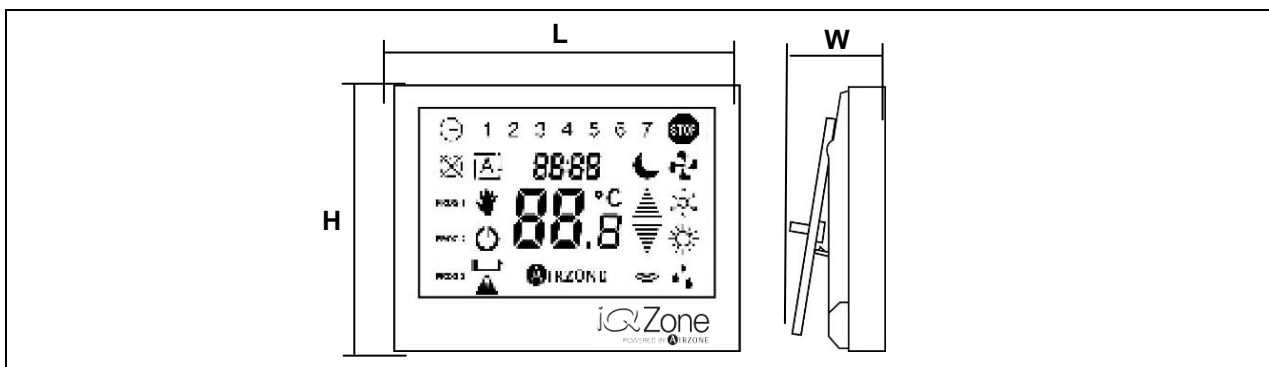


Fig. 8- Zone Thermostat Dimensions. (Refer to table in Section 7.5.)

The thermostat communicates with the zone controller through the same type of 4-wire cable used for the internal zoning and external communication buses.

7.2. Component Description

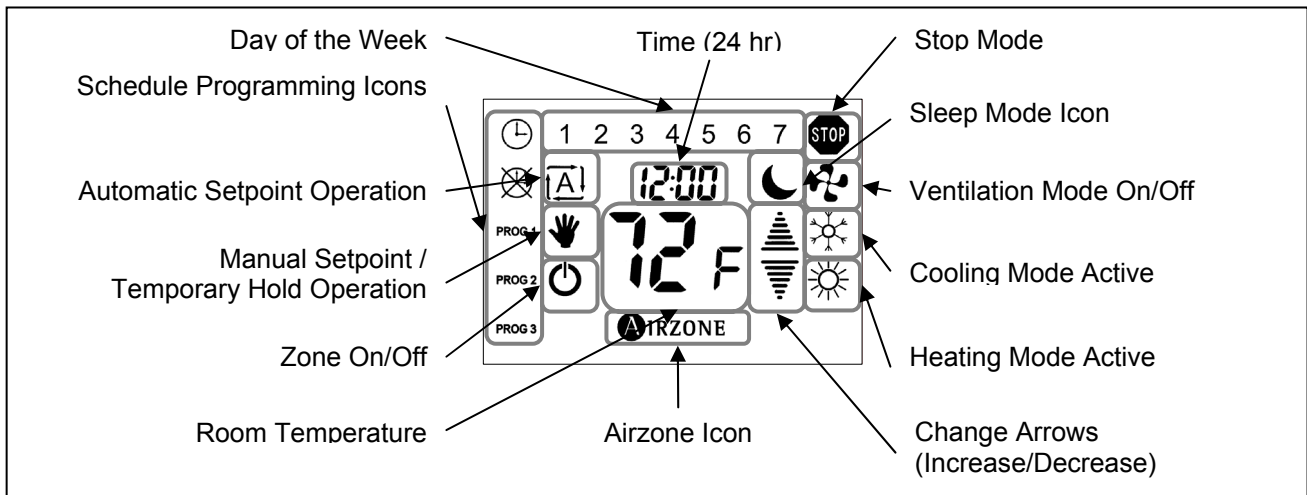


Fig. 9- Summary of Zone Thermostat Display Icons

7.3. Assembly and Connection Instructions

In general, the following considerations must be taken into account for thermostat location:

- Locate the thermostat where it is exposed to air circulation typical of the room(s) comprising the zone.
- Do not locate the thermostat where it will be in direct sunlight (Fig. 0).
- Do not locate the thermostat where it is exposed to air currents that are not typical of the space. (Fig. 1).
- Do not locate the thermostat over sources of heat (Fig. 2).
- Do not locate the thermostat on external walls.
- Do not locate the thermostat near a register.
- Do not locate the thermostat in high humidity locations such as a bathroom. A remote temperature sensor should be used in these applications.
- It is advisable to locate the thermostat at a height h of between 55 to 70 inches (1.4 to 1.8 m) above the floor of the room (Fig. 3).

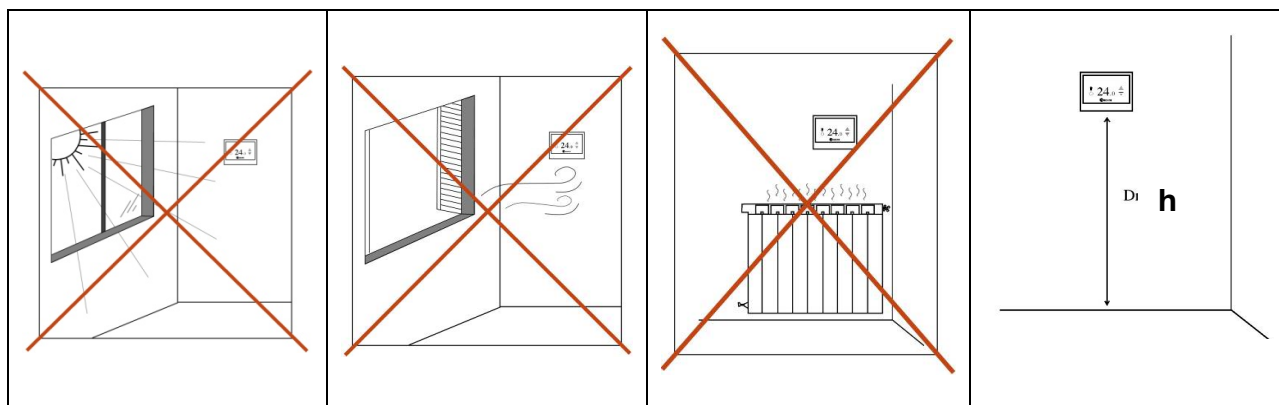


Fig. 10

Fig. 11

Fig. 12

Fig. 13

The thermostat consists of three parts: base, cover and touch screen. Follow these steps for correct installation and wiring:

7.4. Configuration

Prior to system operation, each module must have setup parameters entered into it. For this process it is essential to plan the entire installation, assigning zone and module numbers and supply ducts served by each. The configuration operation requires that (a) each module be wired into a zoning system (for power and communications), (b) each module be connected to a zone thermostat (through the installation or using a temporary connection), and (c) the zoning system be powered up without connection to the iQ bus. It is possible to pre-configure all modules at a remote location prior to installation.

Master modules can be configured through the zone thermostat connected to them by installation. The module number for a master module is the same as its associated zone number. For subordinate modules, a configuration tool (a portable zone thermostat with a communication cable attached) needs to be temporarily plugged into the thermostat port of the module (Figure 7, item 4).

The following is a list of the parameters, their description, and ranges of selection to configure the zone thermostat and its zone module.

Parameter	Description	Value
ZC_{0n}	Zone Module Role	MA_{S} : Master SUB : Subordinate
ZC_{id}	Zone Module ID Number (the address of the zone module)	If Master: 1 to 8 (this defines the zone number) If Subordinate: 9 to 32
$PERC$	Zone weight Percentage	10% to 100%
TC_{id}	(for subordinate modules only) Zone Number	Must match one of the zone numbers assigned to a master module (1- 8)
$ZCPC$	Zone Module Probe Configuration	OFF : default value RPt : measurement by a remote temperature sensor
$ZCSI$	Zone Module Sleep Input (motion detector)	OFF : default value NO : activates when closing the circuit NC : activates when opening the circuit
ZC_{ri}	Zone Module Remote Input (door or window contact)	OFF : default value NO : activates when closing the circuit NC : activates when opening the circuit
$Sbdt$	Stand By Display Temperature	Rt : ambient temperature St : set point temperature
$OFFSt$	Offset (adjust the zone temperature reading)	-5°F to 5°F (-3 to +3°C)
ZCF_v	Zone Module Firmware Version	Current firmware version (Read Only)

2tFu	Zone Thermostat Firmware Version	Current firmware version (Read Only)
5CFu	Firmware Version Airzone Controller	Current firmware version (Read Only)

7.5. Technical Information

POWER SUPPLY	
Power supply voltage	3.3Vdc $\pm$ 10%
OPERATING TEMPERATURES	
In storage °F(°C)	-4 to 158 (-20 to 70)
In operation °F(°C)	23 to 95°F (-5 to 35)
Set Point-temperature range °F(°C)	65 to 86 (18 to 30)
Reading precision °F(°C)	0.2 (0.1)
Display precision °F(°C)	1.0 (0.5)
MECHANICAL FEATURES	
Assembly	On surface over support
Dimensions (W ₁ x W ₂ x L x H) inch(mm)	0.82(20.9) x 1.08(27.4) x 4.12(104.9) x 3.59(91.2)
CONNECTION	
Communications	2 wires (W,Y)
Power supply	2 wires (+,-)
Max. distance from the zone controller ft(m)	14(4.26)*,
Cable type	AWG20, stranded, shielded

*Note: The maximum distance can be extended to 28 feet using cable AWG18. Cable AWG 18 cannot be used for the zoning communication bus.

8. POWER SUPPLY (FUENTEU)

8.1. Functional Description

The universal auto detection power supply has been designed to provide the necessary current and voltage to the Airzone zoning system.

8.2. Component Description

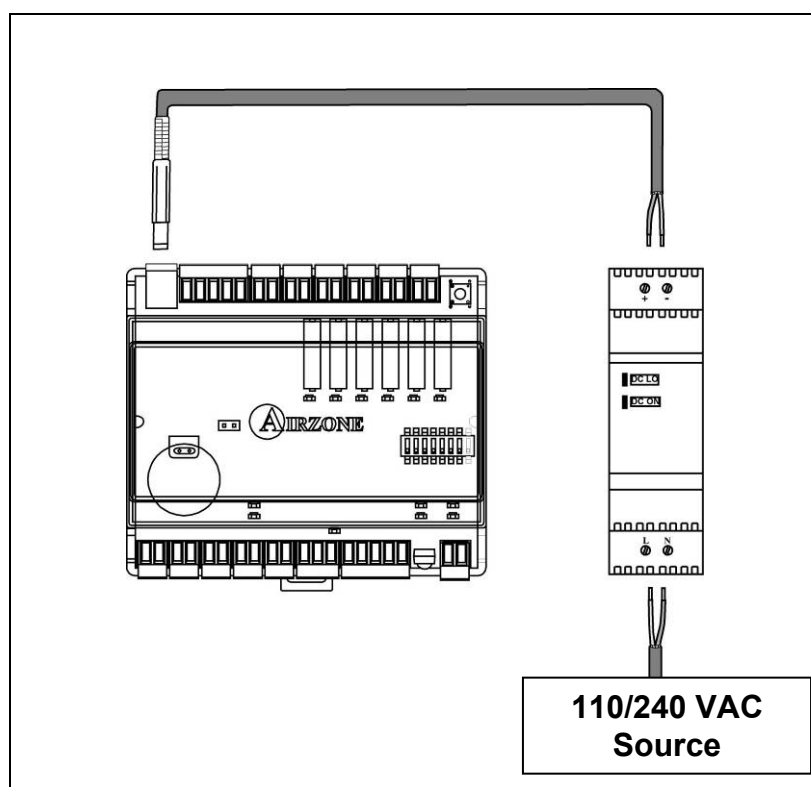


Fig. 14 - Power supply connection

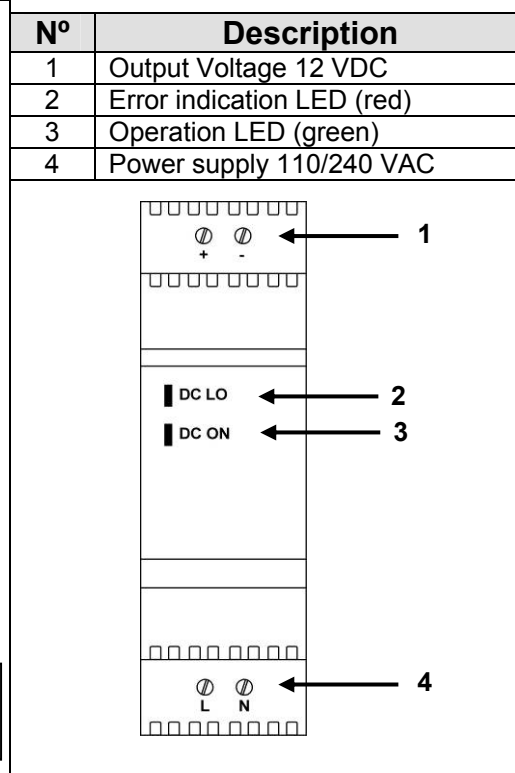


Fig. 15

8.3. Technical Information

POWER SUPPLY AND CONSUMPTION		
AC Input	100 VAC– 240 VAC Autoswitch	
Rated Input Current (max.)	300 mA	
DC Output	12 VDC	
Maximum Output Current	800mA	
OPERATING TEMPERATURES		
In storage	-13 to 185 (-25 to 85)	
In operation	-13 to 167 (-25 to 71)	
Humidity	20% - 95% RH, non condensing	
MECHANICAL FEATURES		
Assembly	Onto DIN rail	
Minimum Required clearance in.(mm)	1(25) in (all sides)	
Dimensions (H x W x D) in.(mm)	3.58()x 0.71() x 2.21()	

9. CIRCULAR MOTORIZED DAMPER RETROFIT (CMDR)

9.1. Functional Description

This device is designed to be inserted in existing metallic round ducts, to upgrade the house to use zoning systems, with minimum changes. Once inserted in the duct, it will act as a regular circular damper, controlling the air flow in the duct, as commanded by the zoning system.

9.2. Component Description

The unit is composed of a gate with rubber foam to seal the duct, a face plate, with rubber foam to seal the installation, and a motor.

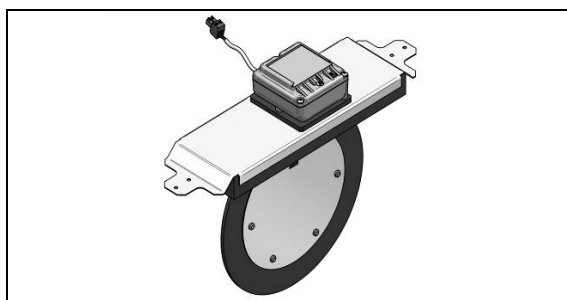


Fig. 16 - Retrofit round damper

9.3. Technical Information

CONSTRUCTIVE MATERIALS	
Face plate	Galvanized steel
Face plate seal	EPDM Foam rubber
Gate seal	EPDM Foam rubber
Blade	Galvanized steel
Shaft	Zamack

Available sizes:

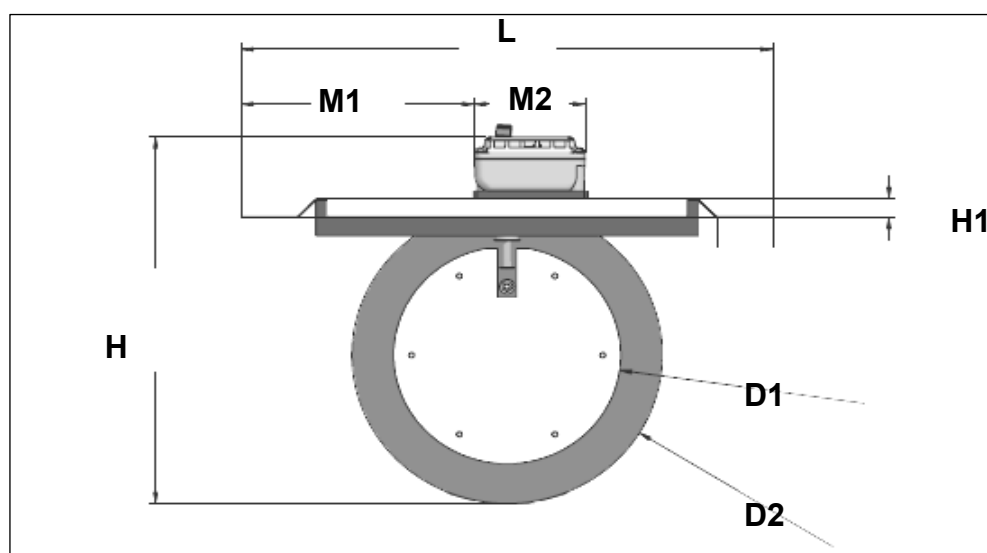


Fig. 17

Diameter D2 (inch.)	D1 (inch.)	H (Inch.)	L (inch.)	M1 (inch.)	M2 (inch.)	H1 (inch.)
6"	4 3/4"	8 1/32"	11 1/8"	4 7/8"	2 21/64"	27/64"
8"	3 3/8"	10 1/32"	13 1/8"	5 7/8"	2 21/64"	27/64"

10. ROUND MOTORIZED DAMPER (RMDN)

10.1. Functional Description

This damper is designed to be used either in-line with flexible, solid fiber, or metal ducts. It controls the air flow into an area, under the command of the zoning system.

10.2. Component Description

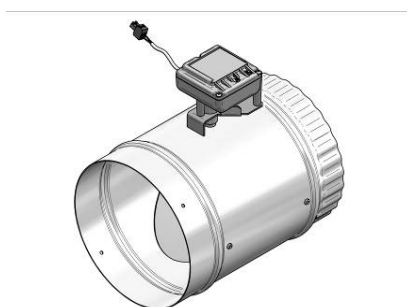


Fig. 18 - Round Motorized Damper

10.3. Technical Information

CONSTRUCTIVE MATERIALS	
Duct	Galvanized steel
Seal	EPDM foam rubber
Blade	Galvanized steel
Shaft	Zamack

Available sizes:

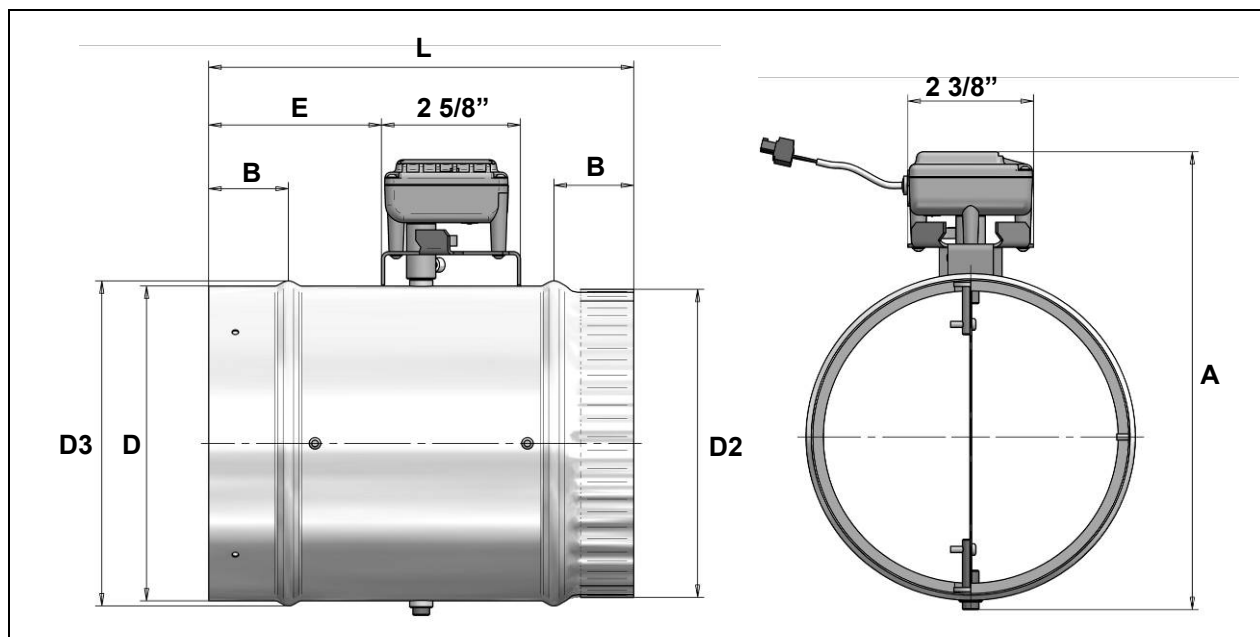


Fig. 19- Round Motorized Damper New

D (inch.)	D2 (inch.)	L (inch.)	E (inch.)	B (inch.)	A (inch.)
4"	3 7/8"	8"	3 1/4"	1	6 2/3"
5"	4 7/8"	8"	3 1/4"	1	7 2/3"
6"	5 7/8"	8"	3 1/4"	1	8 2/3"
7"	6 7/8"	8"	3 1/4"	1	9 2/3"
8"	7 7/8"	8"	3 1/2"	1	10 2/3"
9"	8 7/8"	9 1/2"	4"	1	11 2/3"
10"	9 7/8"	10 1/2"	4 1/2"	1	12 2/3"
12"	11 7/8"	16 1/2"	7 1/2"	1	14 2/3"
14"	13 7/8"	18 1/2"	8 1/2"	1	16 2/3"

11. RECTANGULAR MOTORIZED DAMPER RETROFIT (RMDR)

11.1. Functional Description

This product is designed to be inserted in a rectangular duct.

11.2. Component Description

This damper is designed to be used in any of the following types of ductwork, without requiring any adaptor or accessory:

- Sheet metal rectangular duct.
- Sheet metal rectangular duct with fiberglass insulation.

To insert the damper in any duct, it is required to make a rectangular cut out to allow the damper to be inserted into the duct work. This cut out has to be centered in the duct, and its size has to be 6 inches wide by 1/2 inch smaller than the duct height.

The damper is not sensitive to the air flow direction.

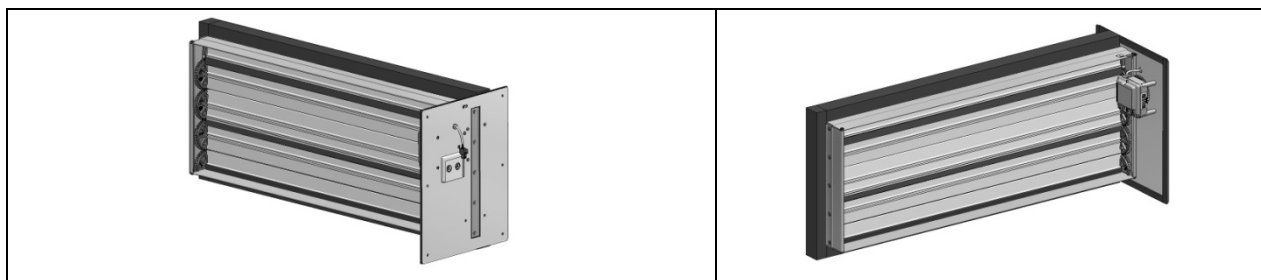


Fig. 20- Retrofit Rectangular Damper

11.3. Technical Information

CONSTRUCTIVE MATERIALS		
Face place	Galvanized steel	
Perimeter Seal Gasket	EPDM foam rubber	
Blade	Aluminum	
Blade gears	Polyamide	
Frame	Aluminum	
Frame gasket	Polyurethane foam	

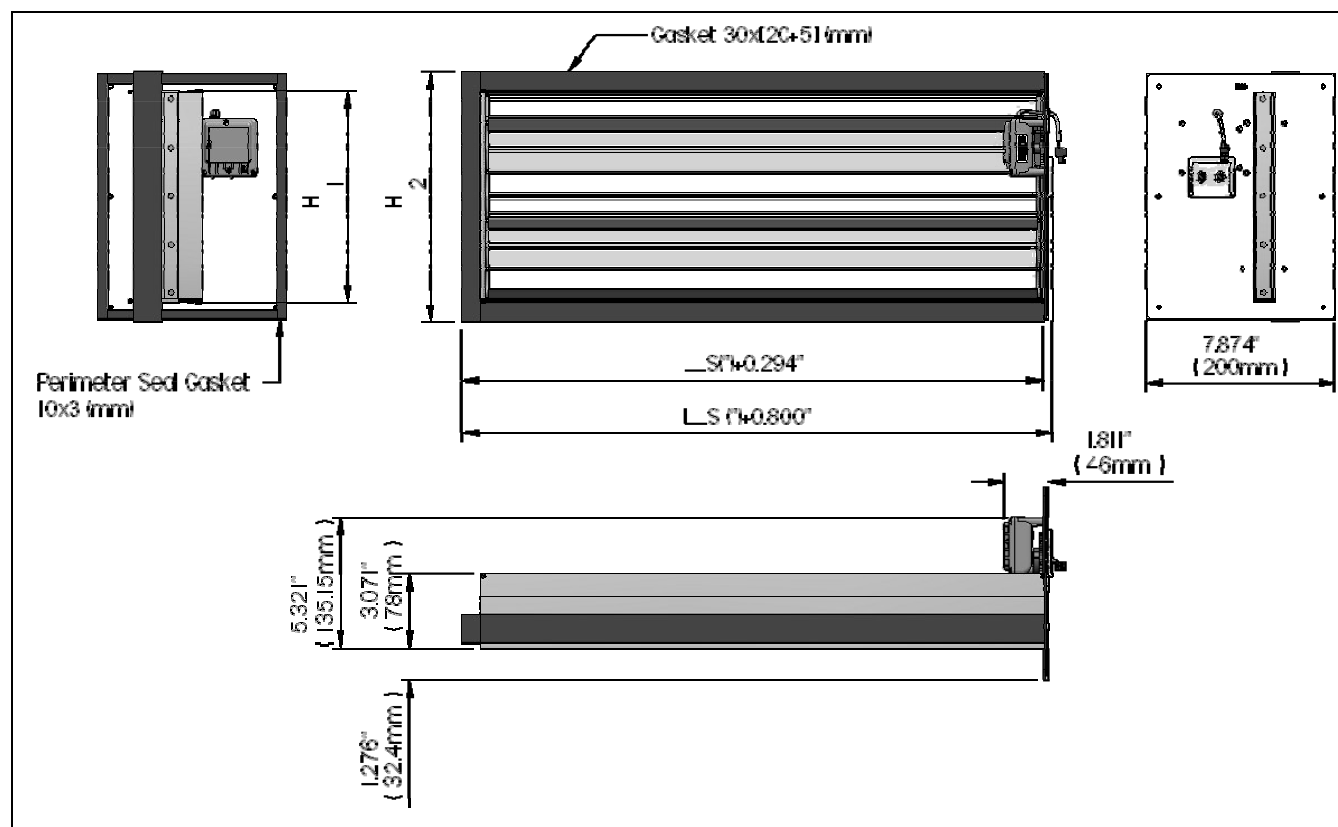


Fig. 21

Available sizes:

L (inch.)	H1 (inch.)	H2 (inch.)	L_S + 0,294"	L_S + 0,800"
4	2.559	4.528	4.294	4.800
5	3.602	5.571	5.294	5.800
6	4.701	6.669	6.294	6.800
7	5.571	7.539	7.294	7.800
8	6.677	8.646	8.294	8.800
9	7.539	9.508	9.294	9.800
10	8.654	10.622	10.294	10.800
11	9.508	11.476	11.294	11.800
12	10.630	12.598	12.294	12.800
13	11.476	13.445	13.294	13.800
14	12.606	14.575	14.294	14.800
15			15.294	15.800
16			16.294	16.800
17			17.294	17.800
18			18.294	18.800
19			19.294	19.800
20			20.294	20.800
21			21.294	21.800
22			22.294	22.800
23			23.294	23.800
24			24.294	24.800

12. ROUND BAROMETRIC BYPASS DAMPER (BYCI)

12.1. Functional Description

The opening or closing of the zone dampers in the system installation will produce pressure changes in the duct. Bypass dampers are required to limit the supply duct pressure and thus avoid the increase in air velocity through the registers in the open zones. The result is reduced blower noise and air noise at the supply registers.

12.2. Component Description

The round bypass is a damper with gate operation controlled by the duct pressure. A counterweight allows the damper to adjust.

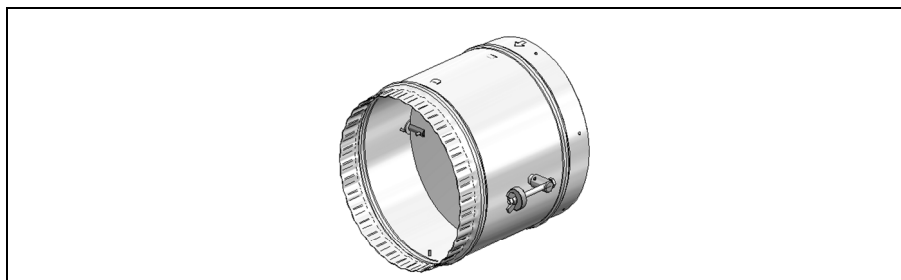


Fig. 22 - Round Barometric Bypass Damper

12.3. Technical Information

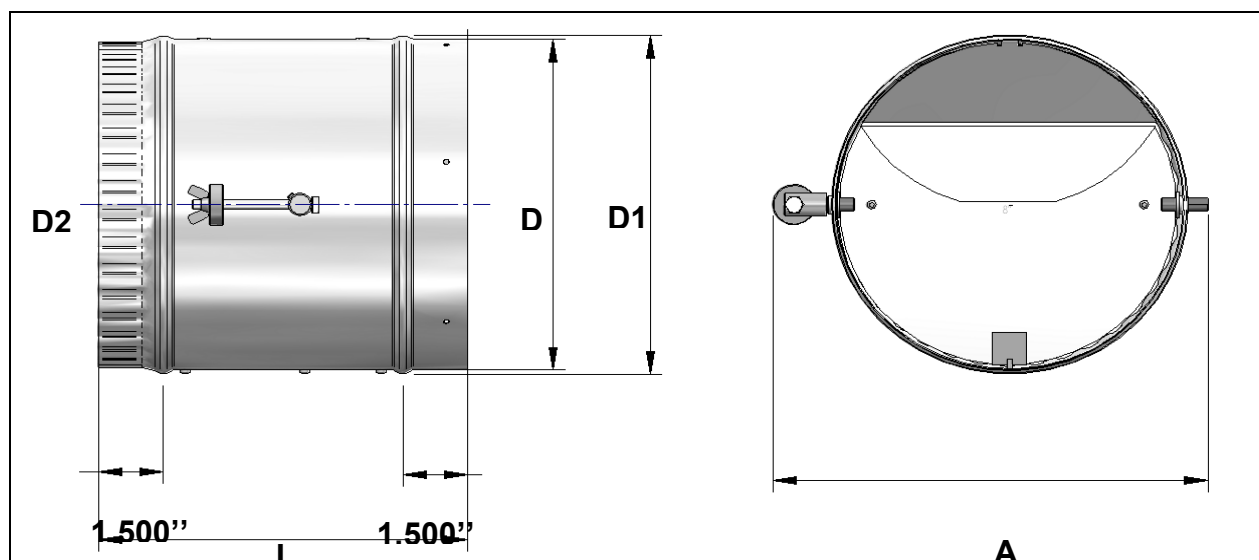


Fig. 23

CONSTRUCTIVE MATERIALS	
Duct	Galvanized Steel
Counterweight	Zinc Coated Steel
Blade	Galvanized Steel
Deflector	Galvanized Steel
Shaft	Zamak
Counterweight	Zinc Coated Steel
Counterweight shaft	Steel
Collar	Aluminium

Available sizes:

D (inch.)	D1 (inch.)	D2 (inch.)	L (inch.)	A (inch.)
6"	6.197"	5.874"	8.0	8.018
8"	8.197"	7.874"	8.5	10.018
10"	10.197"	9.874"	10.0	12.018
12"	12.197"	11.874"	12.0	14.018

Available sizes and airflow:

Nominal diameter (inch.)	Airflow CFM
6"	350
8"	470
10"	590
12"	880

13. RECTANGULAR BAROMETRIC BYPASS DAMPER (BYRE)

13.1. Functional Description

The opening or closing of the zone dampers in the system installation will produce pressure changes in the duct. Bypass dampers are required to limit the supply duct pressure and thus avoid the increase in air velocity through the registers in the open zones.

The result is reduced blower noise and air noise at the supply registers.

13.2. Component Description

The rectangular bypass is designed to be installed in sheet metal or fiber panel ducts of up to 2 inch thickness. To install the bypass a rectangular cut out must be made in the duct where the unit will be inserted.

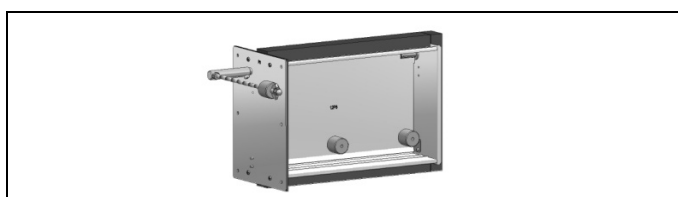


Fig. 24 - Rectangular Bypass Damper

13.3. Technical Information

CONSTRUCTIVE MATERIALS	
Frame	Aluminium alloy
Frame gasket	Polyurethane foam
Perimeter foam gasket	EPDM foam rubber
Blade	Galvanized Steel
Shaft	Zamak
Counterweight	Zinc Coated Steel
Counterweight shaft	Steel
Collar	Aluminium

Available sizes and Airflow:

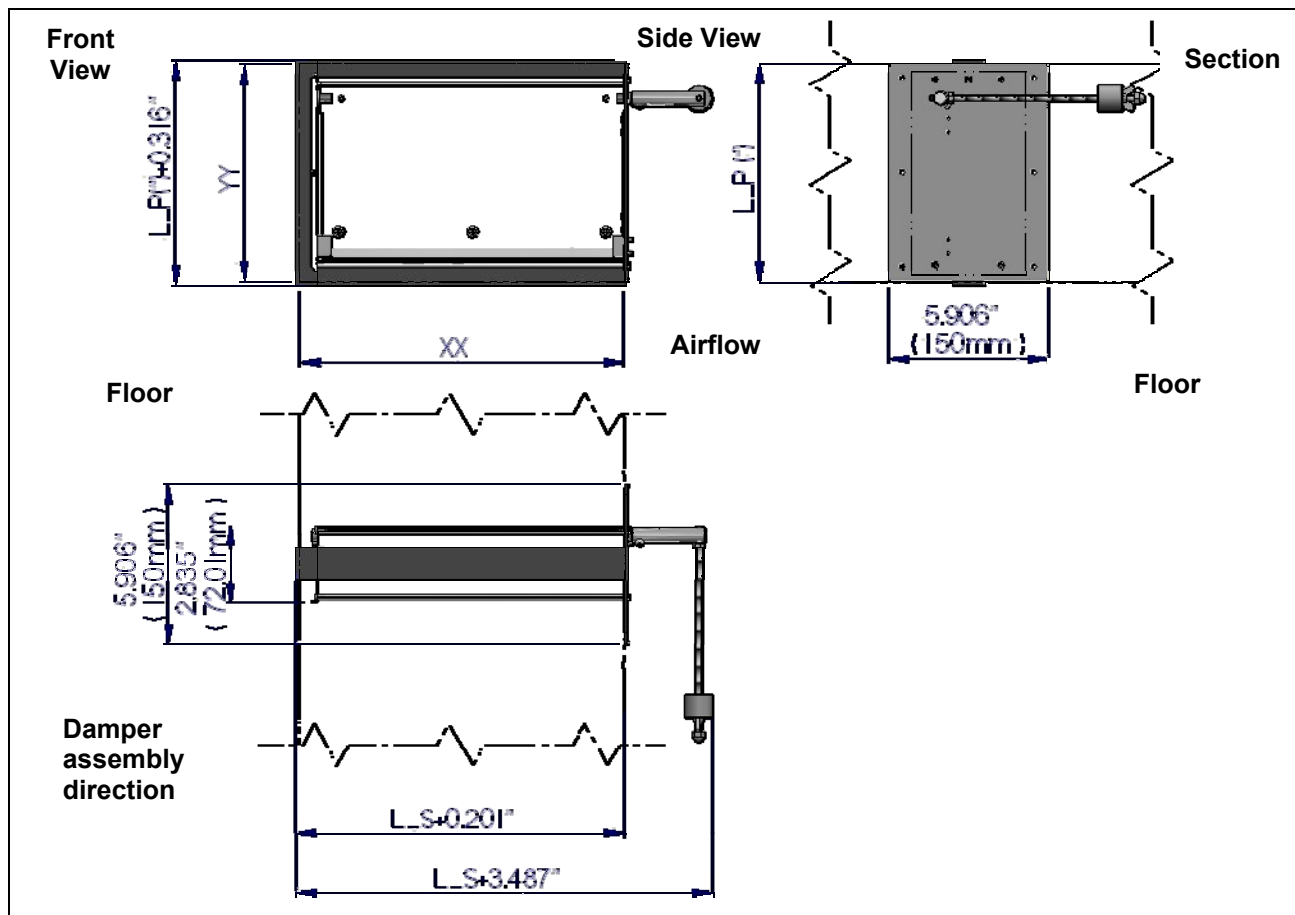


Fig. 25

Order Code	L_S (inch.)	L_P (inch.)	Airflow CFM
BYRE1208	12	8	530
BYRE1606	16	6	530
BYRE1608	16	8	825
BYRE2010	20	10	1175
BYRE2406	24	6	1060
BYRE2412	24	12	1765

:
 XX → Nominal duct width YY → Nominal duct Height
 L_P → Nominal Height of the rectangular bypass (it matches YY)
 L_S → Nominal width of the rectangular bypass (it matches XX)

14. SUPPLY TEMPERATURE PROBE (SONDAU)

The supply temperature probe provides the measurement of the supply air temperature to the iQ Controller.

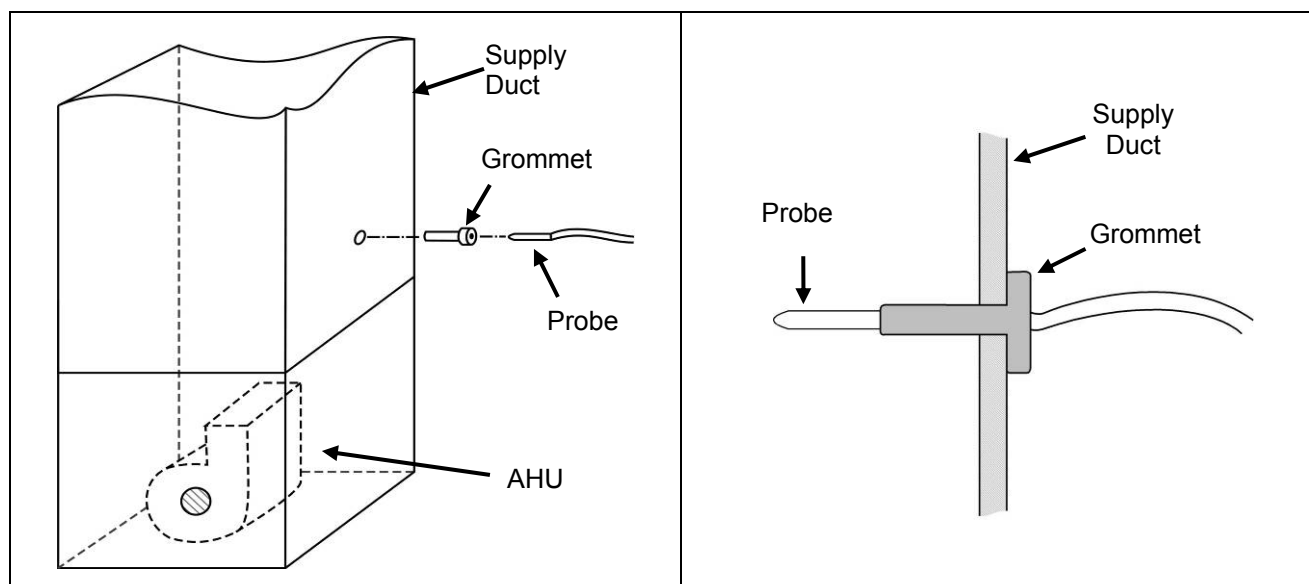


Fig. 26 - Supply Temperature Probe

15 REMOTE TEMPERATURE SENSOR (SONDAREMOTAI)

The remote temperature sensor is an optional accessory that can be used when the ambient conditions are beyond the conditions defined for the touch thermostat. An example of the application is in the bathroom where there is condensation, or in any place where the user prefer to have the thermostat outside of the room. In this case, the set point is set in the thermostat, but the reading shown, will be that of the sensor.

The remote temperature probe should be installed under the same precautions described for the zone thermostat. (Fig. 10 through 13).

15.1 Component description

The remote temperature sensor must be connected to the zone module, in the connector next to the motor connector. Also, when the temperature sensor is used the zone module parameter 2CPL must be set to rPl .

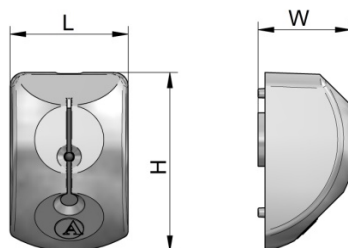


Fig. 27
Dimensions

L in (mm)	1.5 (38)
W in (mm)	1.3 (33.4)
H in (mm)	2.4 (61)

15.2 Technical specifications

Technical Specifications	
Cable lenght	15 ft
Nominal value @ 77 °F	10KΩ
Sensor type	NTC
Conector	2 contacts
Polarity	None
Dimensiones (W x L x H) (in)	1.3 x 1.5 x 2.4

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