# Arzel. Zoning 

Technology, Inc.
www.arzelzoning.com ~ 800-611-8311
Bypass
Sizing Chart
Dampers

|  | Blower Tonnage |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Smallest Zone CFM | 2 | 2.5 | 3 | 3.5 | 4 | 5 |
| 100 | * | 8 | 8 | 10 | 10 | 12 |
| 200 | * | * | 8 | 8 | 10 | 10 |
| 300 | N/A | N/A | * | * | 8 | 10 |
| 400 | N/A | N/A | N/A | * | * | 8 |
| 500 | N/A | N/A | N/A | N/A | * | 8 |
| 600 | N/A | N/A | N/A | N/A | N/A | * |
| 700 | No Bypass Required |  |  |  |  |  |
| 800 | No Bypass Required |  |  |  |  |  |
| 900 | No Bypass Required |  |  |  |  |  |
| 1000 | No Bypass Required |  |  |  |  |  |

## *Other Bypass

## Sizing Considerations

Flex Duct - Down-size the bypass by one size due to increased friction loss inherent in flex duct.
Distant Zones - Duct length greater than 200 ft . may require a one size decrease due to increased friction loss.
Close Zones - Duct length less than 50 ft . may require a one size increase.

## Special Purpose Zones - Usage patterns may

 require an increase in bypass size.- Calculate bypass from low stage CFM tonnage when combining 2 -stage split systems with HeatPumPro or GTPro panels and using zone weight.
- Keep the bypass as small as possible.
- Bypass should be at least 8 ft . from the return drop when possible.
www.arzelzoning.com ~ 800-611-8311


## Bypass Sizing Chart <br> Trunk <br> Dampers

|  | Blower Tonnage |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Smallest <br> Zone CFM | $\mathbf{2}$ | $\mathbf{2 . 5}$ | $\mathbf{3}$ | $\mathbf{3 . 5}$ | $\mathbf{4}$ | $\mathbf{5}$ |  |
| $\mathbf{1 0 0}$ | 8 | 10 | 10 | 12 | 12 | 14 |  |
| $\mathbf{2 0 0}$ | 8 | 10 | 10 | 12 | 12 | 14 |  |

## *Other Bypass

 Sizing ConsiderationsFlex Duct - Down-size the bypass by one size due to increased friction loss inherent in flex duct.
Distant Zones - Duct length greater than 200 ft . may require a one size decrease due to increased friction loss.
Close Zones - Duct length less than 50 ft . may require a one size increase.
Special Purpose Zones - Usage patterns may require an increase in bypass size.

- Calculate bypass from low stage CFM tonnage when combining 2 -stage split systems with HeatPumPro or GTPro panels and using zone weight.
- Keep the bypass as small as possible.
- Bypass should be at least 8 ft. from the return drop when possible.

