

# Bypass Sizing Chart

Trunk  
Dampers

	Blower Tonnage						Round Bypass Size
Smallest Zone CFM	2	2.5	3	3.5	4	5	
100	8	10	10	12	12	14	
200	8	10	10	12	12	14	
300	*	*	8	10	10	12	
400	N/A	*	*	8	10	12	
500	N/A	N/A	*	*	8	10	
600	N/A	N/A	N/A	*	*	10	
700	N/A	N/A	N/A	N/A	*	8	
800	N/A	N/A	N/A	N/A	N/A	*	
900	N/A	N/A	N/A	N/A	N/A	*	
1000	N/A						

N/A = No Bypass Required

\* Borderline case, check other bypass sizing considerations

## 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.

# Bypass Sizing Chart

**Branch Dampers**

	Blower Tonnage						Round Bypass Size
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	N/A						
800	N/A						
900	N/A						
1000	N/A						

N/A = No Bypass Required

\* Boderline case, check other bypass sizing considerations

## 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.