

ZONING APPLICATION / SELECTION GUIDE



STEPS TO SELECTING THE PROPER SYSTEM COMPONENTS FOR AN ARZEL ZONING SYSTEM

1. Panel Selection

What type of equipment do you have? Single stage ____ Two stage ____ Heat Pump ____ Dual Fuel ____

How many zones will you have? ____ Also consider future possible expansion or equipment upgrades.

2. Zone Selection

Find out how the customer wants the building split up into zones. Would trunkline dampers or branch dampers work best? Maybe a combination of both. Arzel panels can handle up to 35 dampers.

3. Damper Selection

Choose proper damper for each individual zone. You might have a mixture of damper styles within your system. Ezy-slide for branch or trunkline, RegiDampers for hard to get to ductwork, InsertaDampers for top take off applications. Choose the proper size 6", 7", 20 x 8 etc. Arzel can custom build dampers and ship within 24 hrs.

4. Tubing Selection

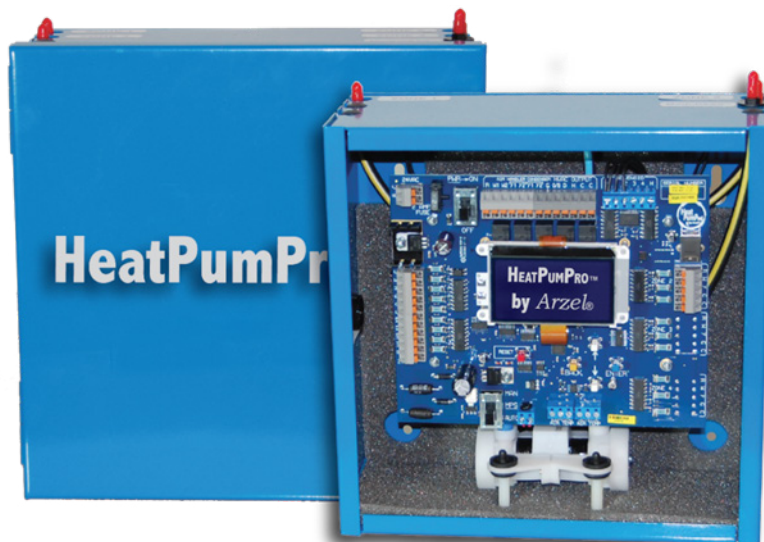
Each zone must have its own color of tubing. Tubing can be run up to 200 feet. Any tubing that will be run inside the ductwork for RegiDampers, InsertaDampers, etc. must be plenum rated tube. Select all required fittings.

5. Bypass Selection

Use your bypass selection wheel to determine the size of bypass or if one is needed at all. Bypass CFM is determined by taking total system CFM minus the CFM of the smallest zone. 2 Stage equipment will not need bypass.

6. Thermostat Selection

Any 24v thermostat will be acceptable. Most systems will require the use of wireless thermostats. On retrofit you will use the existing stat location as a wired stat. All other zones will probably be wireless due to the complexity of running thermostat wire.





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Bypass Sizing Chart Branch Dampers

Smallest Zone CFM	Blower Tonnage						Round Bypass Size
	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.



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Bypass Sizing Chart Trunk Dampers

Smallest Zone CFM	Blower Tonnage						Round Bypass Size
	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	No Bypass Required						

*Other Bypass Sizing Considerations

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RESOURCES

MARKETING

- Arzel offers a dealer locator on their consumer website. Contact your TM for inclusion details.
- Customized literature available for direct mail campaigns, sales calls and trade shows.
- Incentive programs and promotions available to contractors to help generate revenue.

WARRANTY

- All Arzel zoning systems are covered by a lifetime parts warranty.
- Simply register the system within 90 days of installation at www.arzel.com/warrantyreg.

TECH SUPPORT

- Contact Arzel at 800-611-8312 Monday - Friday 8 am to 5 pm with any questions.
- Text "Arzelsupport" to 69302 from 5 pm to 9 pm and a tech will call you back as soon as possible.
- Visit www.arzelzoning.com anytime for more product information, videos and other technical resources.