Arzel® Zoning
TECHNOLOGY

Product Guide

The Pro Panel

Universal zoning control with app control page 7

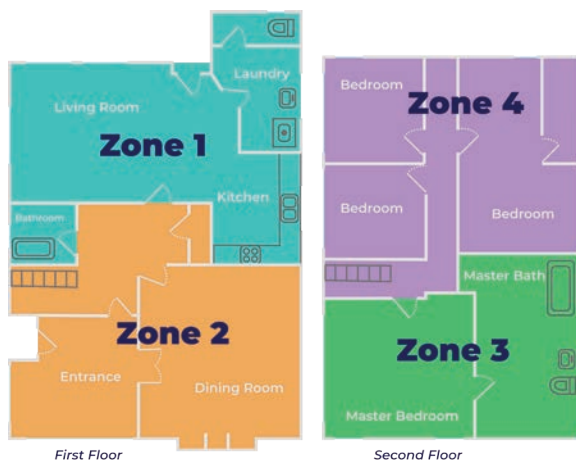# www.arzelzoning.com

Table of Contents

The Arzel Difference

Arzel Zoning manufactures zoning systems in Cleveland, Ohio. Our products feature reliable air-driven damper operation, easy installation, and zero maintenance. We have solutions for the residential and light commercial markets, with products ideal for both retrofit and new construction.

Our limited lifetime warranty is made possible by our extremely reliable dampers. There are no motors on the dampers, so they last longer. Custom sizes and retrofit dampers are available.

Arzel Zoning • 800-611-8312 • www.arzelzoning.com

Zoning Overview

First Floor   Second Floor

When a home or business is zoned, rooms are grouped together according to usage and conditioning needs.

A zoning system usually consists of a control panel, dampers, and a temperature controller for each zone. Dampers are installed within the ductwork and control the airflow to each zone.

The zoning control panel is tied into the structure's heating and cooling system, and when a zone calls for either heating or cooling, it opens or closes the appropriate dampers.

**EzySlide
zoning dampers**

**Pro Panel
zone control panel**

Why sell Arzel Zoning?

Homeowners spend a lot of time in their homes and they want to resolve their comfort issues for good.

By offering HVAC zoning to your customers, you are not only creating business for your company but establishing yourself as a comfort expert in your area.

An Arzel® Zoning System is like no other available on the market today.

Our innovative pneumatic technology offers a simple, easy and reliable solution to the comfort challenges people face in homes every day.

Manufactured in the USA, our products come with a lifetime warranty and a 100% Comfort Guarantee, making us the best choice for retrofit or new construction applications, whether residential or light commercial.

Technical Support is available for you during regular business hours and after hours when you need it most.

Contractor Tech Support

Call
1-800-611-8312

Available 7 days a week,
from 8:00 am – 9:00 pm EST

Air-Driven Dampers

Arzel® Zoning Systems feature motor-less, pneumatic or air-driven dampers, which are not only quiet but reliable too.

Retrofit Friendly and Widely Compatible

Arzel® Zoning Systems are designed with you in mind. They work with any standard R-W-Y-G 24-volt system, and our dampers are retrofit-ready.

Zero Maintenance & 100% Comfort

Arzel® Zoning systems require no maintenance and are backed by our 100% Comfort Guarantee. If your customer is unsatisfied within one year, Arzel will buy back the system!

Easy Installation with Less Mess

Most Arzel® Zoning systems can be installed in one day with little to no inconvenience or mess to your customer's home.

Limited Lifetime Warranty

There is no risk in purchasing and installing. Rest easy knowing Arzel® Zoning's lifetime guarantee covers you.

Zoning Control Panels

Our product line is designed with you, the retrofit contractor, in mind. We pride ourselves on providing retrofit solutions for any existing application, allowing contractors to offer zoning on any job without redesigning or modifying existing ductwork.

HeatPumPro®

The HeatPumPro's software-based programming offers built-in staging control. While initially designed specifically for heat pump applications, the flexibility of the software has made it possible to use it with most types of HVAC systems, such as conventional furnace and A/C split systems, heat pumps with electric backup, and dual fuel systems. Comes standard with ModuPASS port for modulating bypass.

Part#	Description
PAN-HPP02	HeatPumPro panel with 2 zones
PAN-HPP03	HeatPumPro panel with 3 zones
PAN-HPP04	HeatPumPro panel with 4 zones

AirBoss®

The AirBoss is perfect for larger residences or light commercial applications and can control up to eight zones. It has the flexibility to control single or multi-stage equipment, including heat pumps. Comes standard with ModuPASS port for modulating bypass.

Part#	Description
PAN-AB002	AirBoss panel with 2 zones
PAN-AB003	AirBoss panel with 3 zones
PAN-AB004	AirBoss panel with 4 zones
PAN-AB006	AirBoss panel with 6 zones
PAN-AB008	AirBoss panel with 8 zones

Replacement only, for old style auto bypass

PAN-AB002BYP	AirBoss panel with 2 zones & auto bypass
PAN-AB003BYP	AirBoss panel with 3 zones & auto bypass
PAN-AB004BYP	AirBoss panel with 4 zones & auto bypass
PAN-AB006BYP	AirBoss panel with 6 zones & auto bypass
PAN-AB008BYP	AirBoss panel with 8 zones & auto bypass

MPS®

MPS is a solid, proven zoning panel for new construction and retrofit zoning applications. This budget-friendly panel is compatible with any single-stage equipment, and our complete line of air-driven dampers.

Part#	Description
PAN-00202	MPS panel with 2 zones
PAN-00203	MPS panel with 3 zones

Custom MPS with ModuPASS port included

PAN-00202MP	MPS panel with 2 zones & ModuPASS port
PAN-00203MP	MPS panel with 3 zones & ModuPASS port

THE PROPANEL™

NEW!

the future of zoning control technology

with app-guided setup

Mobile app ensures easy setup and diagnostics

One-tap equipment settings

Seamless A2L leak mitigation integration

Fully configurable staging control

Advanced features for inverters

Controls up to 16 zones

Downloadable system logs

Part#	Description
PAN-PRO2.................	Pro Panel with 2 zones
PAN-PRO3.................	Pro Panel with 3 zones
PAN-PRO4.................	Pro Panel with 4 zones

Our new universal zoning control panel is compatible with any 4- or 5-wire thermostat, with any equipment type, including conventional, heat pumps, inverters, split and package geothermal, dual fuel, and all electric. It can handle up to 4 stages of heat and 2 stages of cooling.

Pro Panel has more features than ever, but we've made it even easier to install. The app has preset configurations for numerous equipment types and combinations, so you can set it up with just one tap. The app dashboard shows current system operation, and you can also download system logs.

The Pro Panel is our first panel that controls up to 16 zones, with an easy daisy-chaining process that can connect up to 4 panels. Connect the panel directly to your A2L mitigation board or RDS for seamless A2L compliance.

Fully configurable staging control lets you adjust staging timers and temperature thresholds to maximize effectiveness of multi-stage equipment. With advanced features for inverters as well. Includes ModuPASS port for modulating bypass.

Specialty Panels

AloneZone

The AloneZone limits temperature and airflow in areas that tend to over-condition but do not require full control of the heating and cooling equipment.
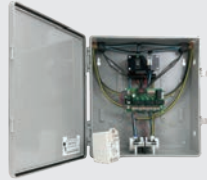
Part# **Description**
PAN-ALONE .... AloneZone

Zone Interface Panel

The Zone Interface control panel provides an interface so you can use Arzel dampers with proprietary zone controls such as Lennox Harmony™ and WaterFurnace Intellizone™.

Part# **Description**
PAN-INTFAC.............. Zone Interface Panel

Smart Zone

A Smart Zone allows you to add a zone or zones to a panel where control of the equipment is not required. Unlimited Smart Zones can be added. Smart Zones cannot turn on or control the equipment.

Part# **Description**
PAN-SSZN1................. Smart Zone (factory installed)
PAN-SLVKTH............. Smart Zone kit (field install kit)

PAN-SLVKT .... Smart Zone kit (alternate field install kit for older style PAN-SOLO4 Solenoids)

Zone-Valve-Interface (ZVI) Board

The ZVI board can be factory installed in panels to combine forced air zoning and hydronic zoning allowing the use of a single thermostat in each zone.

Part# **Description**
PCB-ZVIBD................ Zone Valve Control circuit board

GTPro®

The GTPro® offers customizable software-based staging control while maximizing the operating efficiency of geothermal units. It provides many advanced staging parameters, including individually adjustable staging timers, backup heat lockouts based on outdoor temperature, loop temperature monitoring, and supply air temperature-based staging with outdoor reset.

Part# **Description**
PAN-GTP02 .... GTPro panel with 2 zones
PAN-GTP03 .... GTPro panel with 3 zones
PAN-GTP04............... GTPro panel with 4 zones

CoolMizer® Economizer

The CoolMizer® is a stand-alone, add-on economizer for split-system, forced air, heating, or cooling units. It delivers ventilation air or conditioned air by selectively introducing outdoor air into any ducted heating and cooling system.

Part#	Description
PAN-COOLM	CoolMizer panel

Square Dampers

Part#	Description
STK-COOLS	Damper² (299 sq. in. and less)
STK-COOLC	Damper² (300 sq. in. or greater)
STK-COOLR	Reverse acting return damper

Round Dampers

Part#	Description
DAM-SPRCLD	Spring closed component kit
DAM-SPROPN	Spring open component kit
DAM-RVSACT	Reverse acting component kit

The Damper² damper controls two airflow levels in one convenient package. The larger portion brings in larger volumes of air for free heating or cooling, while the smaller window brings in less air for controlled ventilation and IAQ.

*Multiple round dampers may be used instead of the Damper² damper if the application necessitates round installation.

To order Damper² dampers for your CoolMizer application, please fill out the Damper² Sign-Off Sheet found at **www.arzelzoning.com/products/panels/coolmizer/**

FACT Board (Fresh Air Control Technology)

The FACT System lets you decide how much fresh air to bring in and under what conditions. Use an enthalpy control, outdoor thermostat, or a timer to limit when outdoor air is brought in.

Part#	Description
PAN-FRESH	Fresh Air Control (factory install)
STK-FACT6	6" round FACT damper
STK-FACT8	8" round FACT damper
STK-FACT10	10" round FACT damper

Evergreen® Zoning

Evergreen Zoning is the first retrofit, non-proprietary zone control system capable of controlling blower speed based on the size of each zone. It uses HeatPumpPro technology and features a highly efficient multi-speed Evergreen ECM motor. It is made to work with Evergreen motors and is available either with the motor as a kit, or separately.

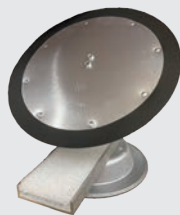| Part#	Description
PAN-EHPP2	Evergreen zoning panel, 2 zones
PAN-EHPP3	Evergreen zoning panel, 3 zones
PAN-EHPP4	Evergreen zoning panel, 4 zones
EVG-1HPP2	Kit: 2-zone panel + 1 hp motor
EVG-1HPP3	Kit: 3-zone panel + 1 hp motor
EVG-1HPP4	Kit: 4-zone panel + 1 hp motor
EVG-1/2HPP2	Kit: 2-zone panel + ½ hp motor
EVG-1/2HPP3	Kit: 3-zone panel + ½ hp motor
EVG-1/2HPP4	Kit: 4-zone panel + ½ hp motor
MOT-EVGR1	Evergreen 1 hp motor
MOT-EVG.5	Evergreen ½ hp motor

Zoning Dampers

Arzel dampers are installed directly into existing ductwork, saving you time and eliminating the mess for the homeowner. The unique motor-less design makes them the quietest, most reliable in the industry. Due to the flexibility and simplicity of Arzel's damper installation, you can use branch or trunk dampers based on the application and the homeowner's lifestyle. If you don't see the size or shape that will fit your application, call your local distributor to order a custom size.

EzySlide® Round Dampers

The patented EzySlide dampers are Arzel's primary damper. With over 50 sizes in stock, it is easy to find the size and shape that best fits any application.

Part#	Description
STK-ER0004	4" round damper
STK-ER0005	5" round damper
STK-ER0006	6" round damper
STK-ER0007	7" round damper
STK-ER0008	8" round damper
STK-ER0009	9" round damper
STK-ER0010	10" round damper
STK-ER0012	12" round damper
STK-ER0014	14" round damper
STK-ER0016	16" heavy-duty round damper

Commercial Round Dampers*

Part#	Description
STK-COM12	12" round commercial grade damper
STK-COM14	14" round commercial grade damper
STK-COM16	16" round commercial grade damper
STK-COM18	18" round commercial grade damper
STK-COM20	20" round commercial grade damper

Commercial dampers are covered by a 5-year warranty; not eligible for our lifetime warranty.

Round Dampers Installed in Sleeves

Part#	Description
SLV-4INST	4" damper in sleeve
SLV-5INST	5" damper in sleeve
SLV-6INST	6" damper in sleeve
SLV-7INST	7" damper in sleeve
SLV-8INST	8" damper in sleeve
SLV-9INST	9" damper in sleeve
SLV-10INST	10" damper in sleeve
SLV-12INST	12" damper in sleeve
SLV-14INST	14" damper in sleeve

Round Sheet Metal Duct Sleeves

Part#	Description
SLEEVE-DUCT4	4" duct sleeve
SLEEVE-DUCT5	5" duct sleeve
SLEEVE-DUCT6	6" duct sleeve
SLEEVE-DUCT7	7" duct sleeve
SLEEVE-DUCT8	8" duct sleeve
SLEEVE-DUCT9	9" duct sleeve
SLEVE-DUCT10	10" duct sleeve
SLEVE-DUCT12	12" duct sleeve
SLEVE-DUCT14	14" duct sleeve

EzySlide® Rectangular Dampers

The rectangular EzySlide dampers have the mounting plate and actuator mounted on either the side or bottom of the damper. If the mounting plate and actuator are on the longer dimension, the damper is listed here as a bottom-mount damper. If the mounting plate and actuator are on the shorter dimension, the damper is a side-mount damper. EzySlide dampers are not position sensitive.

Bottom-Mount EzySlide®

Actuator is on the longer dimension. Dampers are not position-sensitive and can be installed in any orientation.

Part#	Description
STKSB-E 8x10	8" x 10" EzySlide BotMt
STKSB-E 8x12	8" x 12" EzySlide BotMt
STKSB-E 8x14	8" x 14" EzySlide BotMt
STKSB-E 8x16	8" x 16" EzySlide BotMt
STKSB-E 8x18	8" x 18" EzySlide BotMt
STKSB-E 8x20	8" x 20" EzySlide BotMt
STKSB-E 8x22	8" x 22" EzySlide BotMt
STKSB-E 8x24	8" x 24" EzySlide BotMt
STKSB-E 8x26	8" x 26" EzySlide BotMt
STKSB-E 8x28	8" x 28" EzySlide BotMt
STKSB-E 8x30	8" x 30" EzySlide BotMt
STKSB-E10X12	10" x 12" EzySlide BotMt
STKSB-E10X14	10" x 14" EzySlide BotMt
STKSB-E10X16	10" x 16" EzySlide BotMt
STKSB-E10X18	10" x 18" EzySlide BotMt
STKSB-E10X20	10" x 20" EzySlide BotMt
STKSB-E10X22	10" x 22" EzySlide BotMt
STKSB-E10X24	10" x 24" EzySlide BotMt
STKSB-E10X26	10" x 26" EzySlide BotMt
STKSB-E10X28	10" x 28" EzySlide BotMt
STKSB-E10X30	10" x 30" EzySlide BotMt
STKSB-E12X14	12" x 14" EzySlide BotMt
STKSB-E12X16	12" x 16" EzySlide BotMt
STKSB-E12X18	12" x 18" EzySlide BotMt
STKSB-E12X20	12" x 20" EzySlide BotMt
STKSB-E12X22	12" x 22" EzySlide BotMt
STKSB-E12X24	12" x 24" EzySlide BotMt
STKSB-E12X26	12" x 26" EzySlide BotMt
STKSB-E12X28	12" x 28" EzySlide BotMt
STKSB-E12X30	12" x 30" EzySlide BotMt

Side-Mount EzySlide®

Actuator is on the shorter dimension. Dampers are not position-sensitive and can be installed in any orientation.

Part#	Description
STKSS-E 6x6	6" x 6" EzySlide SidMt
STKSS-E 8x 8	8" x 8" EzySlide SidMt
STKSS-E 8x10	8" x 10" EzySlide SidMt
STKSS-E 8x12	8" x 12" EzySlide SidMt
STKSS-E 8x14	8" x 14" EzySlide SidMt
STKSS-E 8x16	8" x 16" EzySlide SidMt
STKSS-E 8x18	8" x 18" EzySlide SidMt
STKSS-E 8x20	8" x 20" EzySlide SidMt
STKSS-E10x10	10" x 10" EzySlide SidMt
STKSS-E10x12	10" x 12" EzySlide SidMt
STKSS-E10x14	10" x 14" EzySlide SidMt
STKSS-E10x16	10" x 16" EzySlide SidMt
STKSS-E10x18	10" x 18" EzySlide SidMt
STKSS-E10x20	10" x 20" EzySlide SidMt
STKSS-E12x12	12" x 12" EzySlide SidMt
STKSS-E12x14	12" x 14" EzySlide SidMt
STKSS-E12x16	12" x 16" EzySlide SidMt
STKSS-E12x18	12" x 18" EzySlide SidMt
STKSS-E12x20	12" x 20" EzySlide SidMt
STKSS-E14x14	14" x 14" EzySlide SidMt

Need a Different Size?

We make custom damper sizes too! Order through your local distributor, and call us if you have questions about custom ordering.

Zoning Dampers - Special

These zoning dampers fit into spaces traditional dampers can't. Mix and match with EzySlide dampers to create a zoning system that wouldn't be possible with traditional dampers alone.

RegiDamper® Register Dampers

The RegiDamper is the answer when there is limited access or non-metallic ductwork. It installs directly into the register boot behind the register.

Part#	Description
REG-2 x10	RegiDamper 2" x 10"
REG-2 x12	RegiDamper 2" x 12"
REG-3x10	RegiDamper 3" x 10"
REG-3x12	RegiDamper 3" x 12"
REG-4 x10	RegiDamper 4" x 10"
REG-4 x12	RegiDamper 4" x 12"
REG-6 x10	RegiDamper 6" x 10"
REG-6 x12	RegiDamper 6" x 12"

EzyFit Concealed Retrofit Dampers

The EzyFit Dampers are versatile; slipping through the register boot, a strong magnet holds it securely in the metallic round pipe for zoning partly and mostly finished basements.

Part#	Description
STK-EZFT5	5" EzyFit retrofit boot-loading damper
STK-EZFT6	6" EzyFit retrofit boot-loading damper
STK-EZFT7	7" EzyFit retrofit boot-loading damper

InsertaDamper® Take-Off/Underground Dampers

The InsertaDamper features a spring-loaded belly band that holds it firmly in any type of round duct. This makes it a good fit for applications where the main trunk is accessible, but the take-off runs are not, or in rigid non-metallic ducting.

Part#	Description
INSRT-5	5" InsertaDamper
INSRT-6	6" InsertaDamper
INSRT-7	7" InsertaDamper
INSRT-8	8" InsertaDamper

Oval Dampers

The Oval Dampers have all of the convenience of the EzySlide for all of your space-saving duct applications. We provide standard sizes through your local distributor.

Part#	Description
STKO-ER0006	6" Oval stack Damper
STKO-ER0007	7" Oval stack Damper
STKO-ER0008	8" Oval stack Damper

Bypass Dampers

ModuPASS® Modulating Bypass System

The ModuPASS system works with variable speed motors, constantly monitors the trunk's static pressure, and adjusts to allow the prescribed amount of bypass air.

ModuPASS Modulating Bypass Kit with Damper

Part#	Description
MOD-BYP08	8" ModuPASS Modulating Bypass Kit
MOD-BYP10	10" ModuPASS Modulating Bypass Kit
MOD-BYP12	12" ModuPASS Modulating Bypass Kit
MOD-BYP14	14" ModuPASS Modulating Bypass Kit

ModuPASS Parts

Part#	Description
MOD-DMP08	8" ModuPASS Modulating damper (damper only)
MOD-DMP10	10" ModuPASS Modulating damper (damper only)
MOD-DMP12	12" ModuPASS Modulating damper (damper only)
MOD-DMP14	14" ModuPASS Modulating damper (damper only)
MOD-FDKIT	ModuPASS port kit (field install kit to add a ModuPASS port to a control panel that did not originally have one)
MOD-BYPAS1	Replacement ModuPASS transmitter

Barometric Bypass

For simple bypass applications with PSC blowers, Arzel offers barometric bypass dampers in many standard sizes.

Part#	Description
SPD-R0008	Barometric damper 8" round
SPD-R0010	Barometric damper 10" round
SPD-R0012	Barometric damper 12" round
SPD-R0014	Barometric damper 14" round
SPD-R0016	Barometric damper 16" round
SPD-S0812	Barometric damper 12" x 8"
SPD-S0820	Barometric damper 20" x 8"
SPD-S1210	Barometric damper 12" x 10"
SPD-S1212	Barometric damper 12" x 12"
SPD-S2010	Barometric damper 20" x 10"
SPD-S2012	Barometric damper 20" x 12"

Do I Need a Bypass?

Most Arzel Zoning applications do not require a bypass, but you may need to add bypass to avoid objectionable air noise. Find our bypass sizing chart on page 18.

Balancing Dampers

BalancePro® Balancing Damper

The Balance Pro damper balances airflow in existing systems based on the load calculation and measurements performed at each register or diffuser.
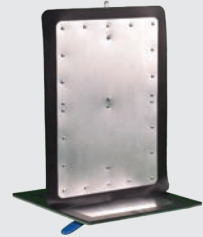
Round BalancePro® Dampers

Part#	Description
STK-BALR5	5" BalancePro
STK-BALR6	6" BalancePro
STK-BALR7	7" BalancePro
STK-BALR8	8" BalancePro
STK-BALR9	9" BalancePro
STK-BALR10	10" BalancePro
STK-BALR12	12" BalancePro

Rectangular BalancePro® Dampers

Part#	Description
STK-BLS08	8" x 8" BalancePro
STK-BLS10	10" x 10" BalancePro
STK-BLS12	12" x 12" BalancePro
STK-BLS810	8" x 10" BalancePro
STK-BLS812	8" x 12" BalancePro
STK-BLS814	8" x 14" BalancePro

Dampers for use with SpacePak® or Unico®

Zonocity® Small-Duct High-Velocity Damper

With our Zonocity damper, you are now able to zone small-duct, high-velocity applications. Trunk dampers and bypass dampers are also available for SDHV applications.

Part#	Description
STK-HYV02	2" high velocity damper (Qty: 5)
SLV-65INST	6.5" sq. damper in sleeve
SLV-85INST	8.5" sq. damper in sleeve
SLV-95INST	9.5" sq. damper in sleeve
MOD-HYP06	6" rd. high velocity ModuPASS bypass kit
MOD-DMP06	6" rd. high velocity ModuPASS bypass damper

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Installation Components

Tubing
Color-coded PVC tubing connects the dampers to the control panel, for easy zone identification.

Part#	Description
PVC-BLUE	blue
PVC-GREEN	green
PVC-ORANGE	orange
PVC-PINK	pink
PVC-PURPLE	purple
PVC-RED	red
PVC-WHITE	white
PVC-YELLOW	yellow

Plenum-Rated Tubing
We also offer plenum-rated (UL fire and smoke) tubing for use when you need to run tubing inside the ductwork for our insertable dampers.

Part#	Description
PLEN-BLUE	blue
PLEN-GREEN	green
PLEN-ORANGE	orange
PLEN-BLACK	black
PLEN-PURPLE	purple
PLEN-RED	red
PLEN-WHITE	white
PLEN-YELLOW	yellow

Fittings
Barbed fittings connect tubing with no tools required for use.

FIT-TT025 ....box of 25 tees
FIT-TE025 ....box of 25 elbows
FIT-TP025 ....box of 25 plugs
FIT-TC025 ....box of 25 couplings

tees

plugs

elbows

couplings

Installation Tools

Tool Kit
All the fittings and tools needed to install an Arzel Zoning system are included in the Tool Kit - tubing stapler, airflow indicator, ductfinder, EzyHub, proper length sheet metal screws, and fittings: connectors, tees, elbows, and plugs.

Part#	Description
TOOL-KIT	Tool Kit
TOOL-GUN	Stapler
TOOL-STPLS	Staples
TOOL-AIRFLOW	Airflow indicator
DUCTFINDER	Duct Finder
EZYHUB	EzyHub Air Distribution reservoir

Snip Kit
TOOL-SNKIT
90-degree right and left snips

Spare Parts Kit
The spare parts kit includes a ModuPASS transmitter, airflow indicator, 25 each of couplings, elbows, plugs, and tees, 5 20-amp fuses, a panel pump, 12 red caps, 2 sensors, 2 solenoids, and a transformer.

Part#	Description
TOOL-RPKIT	Spare Parts Kit

Replacement Parts

Control Boards

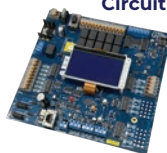| Part#	Description
PCB-PRO2..................	Pro Panel 2-zone circuit board
PCB-PRO3..................	Pro Panel 3-zone circuit board
PCB-PRO4	Pro Panel 4-zone circuit board
PCB-00202	202 MPS Circuit board
PCB-00203	203 MPS Circuit board
PCB-02002	AirBoss 2-zone circuit board
PCB-02003	AirBoss 3-zone circuit board
PCB-02004................	AirBoss 4-zone circuit board
PCB-02006	AirBoss 6-zone circuit board
PCB-02008	AirBoss 8-zone circuit board
PCB-HPP02...............	HeatPumPro 2-zone circuit board
PCB-HPP03...............	HeatPumPro 3-zone circuit board
PCB-HPP04	HeatPumPro 4-zone circuit board
PCB-COOLM.............	CoolMizer circuit board
PCB-GTP02................	GTPro 2-zone circuit board
PCB-GTP03................	GTPro 3-zone circuit board
PCB-GTP04...............	GTPro 4-zone circuit board
PCB-FACT...................	Fresh air control circuit board
PCB-SSZNG...............	Smart Zone circuit board
PCB-ZVIBD................	Zone Valve Control circuit board

Pro Panel Circuit Board

MPS Circuit Board

AirBoss Circuit Board

HeatPumPro Circuit Board

GTPro Circuit Board

CoolMizer Circuit Board

FACT

Smart Zone

ZVI

Other Parts

Part#	Description
SEN-UPS12.................	LAT sensor (AirBoss)
SEN-RESPRO............	LAT / OAT / LOOP sensor (HeatPumPro, GTPro, Evergreen)
SENS-COOLM	CoolMizer sensor
PMP-PUMP1..............	Pump pressure/vacuum assembly
PAN-SOLO5...............	24 VDC solenoid valve
BYP-SWICH...............	Pressure switch (automatic bypass)
TRANS-40VARS.......	24 VAC 40VA resettable transformer (2-4 zone)
TRANS-100VA...........	24 VAC 100VA transformer (6-8 zone)
MOD-BYPAS	Modulating bypass transmitter kit
PAN-FUSE2...............	MPS panel fuse (2amp) Qty. 5

ModuPASS transmitter

100 VA transformer

40 VA transformer

MPS fuses

CoolMizer sensor

pump

Sensor for most products

AirBoss LAT sensor

solenoid

Basic Zoning Design
5 Rules of Zoning

When you're designing a zoning application, start with our *5 Rules of Zoning*:

1. Get the homeowner's input

Ask the Homeowner about their usage patterns, such as the daytime and nighttime zones, if they have any special comfort requirements, and where their comfort problem areas are.

2. Do load calculations where needed

Is there enough ductwork to satisfy the load? Use block loads and consider load shift.

3. Place thermostats within zones

Pick a location for the thermostat within zones by asking yourself: What area will the thermostat measure? What does it know about anywhere else?

4. Main suite deserves a thermostat

We spend a large portion of our lives sleeping. Installing a thermostat in the main suite of the house makes sense so homeowners can sleep comfortably while saving energy in the rest of the house.

5. Small zones can be trouble

Determine the minimum zone size by the percentage of available ductwork. For PSC Blower Motors, try to limit zones to no smaller than 35% of total ductwork capacity and 25% on variable-speed / ECM blower motors with zone weighting and minimal bypass. **Do not microzone!**

Bypass

Use the modulating bypass damper for variable speed systems and precise control. Use the barometric bypass damper with a simple weighted arm for commercial systems, or when you have 2 or 3 relatively equal zones.

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						

N/A = no bypass required

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						

N/A = no bypass required

- **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.**

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.

Training Opportunities

Learn More at
www.arzelzoning.com/training

Training at Arzel's Cleveland Lab

NATE CREDITS: 10
OCILB CREDITS: 10

Our most comprehensive training is Comfort College®, a day-long training event at our facility in Cleveland, Ohio. It's worth the trip to get hands-on experience in our lab.

Comfort College®
Turning airflow into cashflow, one class at a time

On-Site Training
NATE AND OCILB CREDITS AVAILABLE

We'll come to you! If you have a group that needs training (typically 10-15 people), let's talk about on-site training. You can mix-and-match topics to tailor the class to fit your group.

Webinars

Our webinars are quick, convenient sessions that work around your schedule. Webinars have live facilitators, so you can get what you need from our experts.
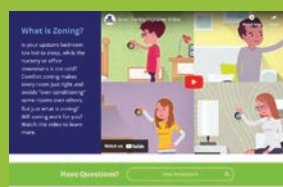
Training Videos

You can find quick demos and in-depth training sessions in the video section of our website. No login required.

Let us help you sell zoning!

1. Sign up for our contractor locator:
   www.arzelzoning.com/locator-signup

2. Use our homeowner website to help your customers get the facts about zoning:
   www.arzelcomfort.com

3. Let us send you some customer brochures:
   www.arzelzoning.com/literature-request

Limited Lifetime Warranty

Since 2013, all Arzel Zoning systems, if registered within 90 days of installation, are covered by a Limited Lifetime Warranty.

Scan the QR code or go to **arzelzoning.com/warranty** for more information.

Contractor Technical Support

(800) 611-8312

techsupport@arzelzoning.com

Contact Arzel Zoning Tech Support Monday through Friday from 8am EST - 5pm EST with any technical questions or issues.

Have questions after hours? Arzel offers after-hours tech support on weekdays from 5pm EST to 9pm EST, and on Saturdays and Sundays from 8am to 9pm EST.

Have you seen our How-To Videos?
arzelzoning.com/how-to-videos

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TECHNOLOGY

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