
HVAC&R INSTALLATION ACCESSORIES

SECTION

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ALLIED REFRIGERATION INC. EST. 1934
SERVING ALL OF CALIFORNIA AND NEVADA
www.alliedrefrigeration.com

METAL-FAB

ADJUSTABLE LENGTHS

METAL-FAB INC.



PART#	DESCRIPTION	SIZE	LENGTH
4M12A	Adjustable Length from 3" to 8"	4"	12"
5M12A	Adjustable Length from 3" to 8"	5"	12"
6M12A	Adjustable Length from 3" to 8"	6"	12"

PIPE ADAPTER

METAL-FAB INC.



• For easy connection to other brands of B-Vent.

PART#	DIAMETER	LENGTH
4M6A	4"	6"

B-VENT

DRAFTHOOD CONNECTOR

METAL-FAB INC.



PART#	SIZE
3MDC	3"
4MDC	4"
5MDC	5"
6MDC	6"

INCREASERS

METAL-FAB INC.



PART#	SIZE
3MIN4	3 X 4"
3MIX5	4 X 5"
4MIN5	4 X 5"
4MIX6	4 X 6"
5MIN6	5 X 6"

90 ADJUSTABLE ELBOW

METAL-FAB INC.



PART#	SIZE
4M90	4"
5M90	5"
6M90	6"

SWIVEL WYE

METAL-FAB INC.



PART#	SIZE
5M4SY3	5 X 4 X 3"
6M5SY4	6 X 5 X 4"

VENT CAP

METAL-FAB INC.



PART#	SIZE
4MCHP	3"
5MCHP	5"
6MCHP	6"

STANDARD FLASHING (2/12 - 5/12)

METAL-FAB INC.



• Fits roof pitch from 2/12 to 5/12.

PART#	SIZE
4MF	4"
5MF	5"
6MF	6"

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HVAC&R INSTALLATION ACCESSORIES

STORM COLLAR

METAL-FAB INC.



PART#	SIZE
4MSC	4"
5MSC	5"
6MSC	6"

FIRESTOP

METAL-FAB INC.



• Space ring attached to plate ensures 1" clearance to combustible.

PART#	SIZE
4MFS	4"
5MFS	5"
6MFS	6"

SINGLE WALL FLEX CONNECTOR



• For easy connection of appliance to common B-Vent.

PART#	SIZE	LENGTH
MSWF0305	3"	60"
MSWF0405	4"	60"

SINGLE WALL FLEX CONNECTOR



• Use as a connection of appliance to common B-Vent or as a segment of B-Vent except where it penetrates the structure; walls, floors, ceilings, roof.

PART#	SIZE	LENGTH
MDWF0405	4"	60"

VENTING PRODUCTS

METAL-FAB INC.

B-VENT - ROUND PIPE



Sure-Lock feature requires no sheet metal screws to hold connections together, simply twist and push tab to lock pieces together. To unconnect pieces, simply unbend tab and twist to pull pieces apart.

PART#	SIZE	LENGTH
4M12	4"	12"
4M24	4"	24"
4M3	4"	36"
4M4	4"	48"
4M5	4"	60"
5M12	5"	12"
5M24	5"	24"
5M3	5"	36"
5M4	5"	48"
5M5	5"	60"
6M12	6"	12"
6M24	6"	24"
6M3	6"	36"
6M4	6"	48"
6M5	6"	60"

Gas Connectors with Valves



Connectors & Tubing

- ANSI Z21.24/CSA 6.10 – Connectors for Gas Appliances
- ANSI Z21.75/CSA 6.27 – Connectors for Outdoor Appliances and Homes
- Tubing Annealed, 304 stainless steel (ASTM A240)
- **Approved for indoor & outdoor use.**

PART#	DESCRIPTION	SIZE	O.D.	SERIES
20-3135	1/2" MIP x 1/2" FIP Ball	18,24,30,36,48	1/2"	20
30-4145	3/4" MIP x 3/4" FIP Ball	18,24,30,36,48	5/8"	30
30-3135	1/2" MIP x 1/2" FIP Ball	18,24,30,36,48	5/8"	30

TracPipe



TracPipe is a flexible stainless steel piping material used for natural gas and propane installations. TracPipe is currently in use for gas piping systems in single and multi-family residential as well as commercial and industrial buildings. TracPipe's superior corrugated tubing coupled with AutoFlare fittings combine to make the best CSST product available. TracPipe's full range of sizes (3/8" to 2") and proven reliability make it the first choice at all residential, commercial, and industrial job sites.

PART#	DESCRIPTION	PKG. QTY.
FGP-SS4-500-250	1/2 in.	250 ft/reel
FGP-SS4-500-100	1/2 in.	100 ft/reel
FGP-SS4-500-50	1/2 in.	50 ft/reel
FGP-SS4-750-250	3/4 in.	250 ft/reel
FGP-SS4-750-100	3/4 in.	100 ft/reel

CONDENSATE PUMPS

LOW PROFILE

Little GIANT



- Tank Capacity: 3/10 Gallon
- Discharge: 3/8" OD Barbed Adapter
- Power Chord: 6 ft.
- Dimensions (hxwxl): 5 x 5 x 12"

PART#	VOLTAGE	SAFETY SWITCH	HP	GALLONS/HOUR @ LIFT		
				1FT.	5FT.	10FT.
VCC20ULS	115V	YES	1/30	80	70	45

HEAVY DUTY

Little GIANT



- Tank Capacity: 1 Gallon
- Discharge: 3/8" OD Copper Tube
- Power Chord: 6 ft.
- Dimensions (hxwxl): 10.85 x 12.11 x 6.0"

PART#	VOLTAGE	HP	GALLONS/HOUR @ LIFT				
			1FT.	3FT.	5FT.	9FT.	15FT.
VCL45ULS-115	115V	1/5	450	445	440	415	380
VCL45ULS-230	230V	1/5	450	445	440	415	380

MICRO PUMP

Little GIANT



- Compact two-piece design allows flexible installation for mini-split air conditioning units.
- Maximum flow is 4 GPH
- Pump is self-priming and can be located up to 3' above reservoir
- Includes Safety Switch, Suction Tubing (3' x 5/32" ID), Vent Tubing (8" x 5/32" ID), Drain Tubing (3" x 1/2" ID)
- Dimensions (hxwxl): Reservoir: 1.4 x 1.5 x 3.25"; Pump/Controller: 1.75 x 1.4 x 4.4"

PART#	VOLTAGE	SHUT OFF	SUC. LIFT	MAX FLOW
EC400-230	230V	40 ft.	3 ft.	4 GPH @ 1 ft.
EC400-115	115V	40 ft.	3 ft.	4 GPH @ 1 ft.

CONDENSATE PUMP



- Tank Capacity: 1/2 Gallon
- Discharge: 3/8" OD Barbed Adapter
- Power Chord: 6 ft.
- Dimensions(hxwxl): 6-1/4 x 5 x 11-1/8"

PART#	VOLTAGE	HP	GALLONS/HOUR @ LIFT			SHUT OFF
			1FT.	5FT.	10FT.	
CB151LSUL	115	1/50	85	70	39	15
CB151UL	115	1/50	85	70	39	15
CB201UL	115	1/30	105	95	73	20
CB202UL	115	1/30	105	95	73	20

LOW PROFILE



- Tank Capacity: 2/10 Gallon
- Discharge: 3/8" OD Barbed Adapter
- Power Chord: 6 ft.
- Dimensions(hxwxl): 4-3/4 x 5 x 11-1/8"

PART#	VOLTAGE	HP	GALLONS/HOUR @ LIFT			SHUT OFF
			1FT.	5FT.	10FT.	
CL201UL	115	1/30	115	92	62	20

CONDENSATE PUMP

Little GIANT



- Tank Capacity: 1/2 Gallon
- Discharge: 3/8" OD Barbed Adapter
- Power Chord: 6 ft.
- Dimensions (hxwxl): 7 x 5 x 11"

PART#	VOLTAGE	SAFETY SWITCH	HP	GALLONS/HOUR @ LIFT		
				1FT.	5FT.	10FT.
VCMA15UL	115V	NO	1/60	65	50	25
VCMA15ULS	115V	YES	1/60	65	50	25
VCMA20ULS	230V	YES	1/30	80	70	48

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HVAC&R INSTALLATION ACCESSORIES

Glenkote Seal-Flex



Glenkote Seal-Flex is a flexible adhesive compound that will bond to metal surfaces of structures, air conditioning ducts, etc. It serves as a mending or patching membrane for the many requirements related to the repair industry on new or old equipment.

PART#	CONTAINER SIZE
11-500	1 GALLON

Lagging Adhesive



This water based adhesive and coating is suitable for bonding and coating canvas, cloth or other lagging jackets over insulation.

PART#	CONTAINER SIZE
LA-76	1 GALLON

Duct Liner Aerosol Adhesive



This spray adhesive is an aerosol package specifically formulated for a quick tack and strong bond when bonding fiberglass onto sheet metal. It can also be used to bond foam to wood, metal or cloth. This product offers good resistance to oxidation and moisture.

PART#	CONTAINER SIZE
15-114	14 oz aerosol can

Solvent Based Duct Sealant Cartridge



This flexible, gray-colored duct sealant is suitable for use on interior and exterior metal surface slip joints, flanges and connecting seams in high velocity heating and air conditioning ductwork systems. It may also be used to seal leaks, gutter seams, downspouts or any metal seam. D-617 may be used for both interior and exterior applications. It exhibits excellent resistance to moisture and oxidation.

PART#	CONTAINER SIZE
D-617	10.6 oz (313.5 mL) tube

Versa-Grip



- Indoor/outdoor
- Water based
- All pressure classes

PART#	CONTAINER SIZE
VG-102-4	1 GALLON

Lag Tape



PART#	DESCRIPTION
2577-T	4", 4oz. Lag Tape

DP 1010



A smooth water-based, UL listed, high velocity grey duct sealant for commercial and residential use.

PART#	CONTAINER SIZE
DP1010	1 GALLON

DP 1020



A fiber reinforced, water-based, UL listed, high velocity grey duct sealant for commercial and residential use.

PART#	CONTAINER SIZE
DP1020	1 GALLON

SEALANTS & ADHESIVES

TAPES

ELECTRICAL TAPE



PART#	DESCRIPTION
34X60B	3/4" x 60 ft.

FOAM INSULATION TAPE

FOAM INSULATION TAPE



- Prevents condensation drip on pipes and tubing.
- Black elastomeric nitrile closed-cell foam.
- Service temperature range from -40 to 160°F.
- K-Factor of 0.21 @ 60°F.

PART#	BOX QTY.
K-501	1/8" Thick x 2" x 30 ft.

CORK INSULATION TAPE

PRESSTITE



- Designed to prevent condensation on pipes and tubing.
- Soft and pliable enough to wrap around fittings and connections.
- Service temperature of -20°F to 158°F.
- Thermal Conductivity is 1.60 BTU-in./(hr-ft²·°F).

PART#	BOX QTY.
PT-1	1/8" Thick x 2" x 30 ft.

CAULKING

PART#	COLOR	CONTAINER SIZE
CAULKG	Aluminum	10.1 oz. Cartridge
CAULKW	White	10.1 oz. Cartridge

HIGH TEMP SILICONE



- Hi Temp Red Silicone Sealant is a one-part, non-slumping paste that cures to a tough, rubbery solid.
- Ideal use for around heat exchangers, restaurant hoods and furnace pipes
- Operating Range: -85 to 500F continuous, 600F intermittent

PART#	COLOR	CONTAINER SIZE
CAULKHI	Red	10.1 oz. Cartridge

FIRESTOP SEALANT



- Intumescent Latex Fire/Smoke & Draft Sealant, in the event of a fire, expands to form an insulating char that prevents the spread of fire, smoke and toxic gases through construction openings.
- Meets ASTM E-814 (UL 1479)

PART#	CONTAINER SIZE
814	10.1 oz. Cartridge

CAULK GUNS



PART#
CAULKGUN

SEALING GUM



Non-hardening. For plugging openings through foundations or around refrigeration tube entry.

PART#	DESCRIPTION
GUM	2 lb. Slug

HVAC&R INSTALLATION ACCESSORIES

DP1020T



A fiber reinforced, water-based, UL listed, high velocity grey duct sealant for commercial and residential use.

PART#	CONTAINER SIZE
DP1020T	10.3 FL. OZ.

DP3050



Water based, premium quality, UL classified, quick drying, low odor lagging adhesive and protective coating. Colored white.

PART#	CONTAINER SIZE
DP3050	1 GALLON
DP30505	5 GALLON

DP77



Industrial strength aerosol spray adhesive.

PART#	CONTAINER SIZE
DP77	NET. WT. 12 OZ.

Air-Lock 181



Water based duct sealant. For indoor & outdoor use. Excellent elasticity. Strong adhesive grip.

PART#	CONTAINER SIZE
81875	1 GALLON

FOIL TAPES



Typical Usage: High strength sealing of fiberglass ductboard and sheet metal ducts
 Thickness: 3.7 mils
 Tensile Strength: 34 lb/inch width
 Peel Adhesion: 100 oz/in
 Shear Strength: 2.2 psi Indefinite
 Low Application Temperature: -35°F
 High Temperature Resistance: 260°F

PART#	WIDTH	LENGTH	COLOR
3520CW-2	2"	50 YARDS	SILVER
3520CW-3	3"	50 YARDS	SILVER

FOIL TAPE UL181AP & UL181B-FX



Typical Usage: Sealing fiberglass ductboard
 Thickness: 4.0 mils Tensile Strength: 25 lb/inch width
 Peel Adhesion: 66 oz/in Shear Strength: 2.2 psi Indefinite
 Low Application Temperature: -20°F
 High Temperature Resistance: 260°F

PART#	WIDTH	LENGTH	COLOR
3520CW-2	2"	50 YARDS	SILVER
3520CW-3	3"	50 YARDS	SILVER

FOIL SCRIM KRAFT TAPE - FSK



Typical Usage: Sealing fiberglass blanket and ductboard FSK faced systems.
 Thickness: 6.5 mls Tensile Strength: 40 lb/inch width
 Peel Adhesion: 92 oz/in Shear Strength: 2.0 psi Indefinite
 Low Application Temperature: -25°F
 High Temperature Resistance: 260°F

PART#	WIDTH	LENGTH	COLOR
1525-3	3"	50 YARDS	SILVER

DUCT TAPE



Typical Usage: Sealing metal ductwork
 Thickness: 10 mils
 Tensile Strength: 34 lb/inch width
 Shear Strength: 2.2 psi Indefinite
 High Temperature Resistance: 175°F
 Peel Adhesion: 34 oz/in
 Low Application Temperature: 40°F

PART#	WIDTH	LENGTH	COLOR
1500-2S	2"	60 YARDS	SILVER
1500-2B	2"	60 YARDS	BLACK

FLEX DUCT TAPE UL181B-FX



Typical Usage: Sealing flexible ducts
 Thickness: 3.0 mils Tensile Strength: 22 lb/inch width
 Peel Adhesion: 41 oz/in Shear Strength: 2.2 psi Indefinite
 Low Application Temperature: -35°F
 High Temperature Resistance: 260°F

PART#	WIDTH	LENGTH	COLOR
1599B-2S	2"	120 YARDS	SILVER

HARDWARE

FASTENERS

BIT-TIP SCREWS - CONVENIENCE PACK

PART#	SCREW SIZE	HEAD SIZE
6945CX	8-18 x 3/4"	1/4"
6946CX	8-18 x 1"	1/4"
6953CX	10-16 x 1/2"	5/16"
6955CX	10-16 x 3/4"	5/16"
6956CX	10-16 x 1"	5/16"
6900AX	Assorted Pack	

ZIP-IN SCREWS



Malcor

- A single starting thread is formed down to the very tip of the point and is the source of Zip-In's® penetrating power. A second thread above the point engages after initial penetration and drills in the screw double fast.
- Zip-In® screws are faster driving, with a greater capacity for fastening heavier gauges of sheet metal than any other self-piercing type.

PART#	SCREW SIZE	HEAD SIZE	PKG. QTY.
HW8X1/2Z	8 x 1/2"	1/4"	1,000
HW8X1/2P	8 x 1/2"	1/4"	7,000
HW8X3/4Z	8 x 3/4"	1/4"	1,000
HW8X1Z	8 x 1"	1/4"	500
HW8X2Z	8 x 2"	1/4"	250

White Painted Screws

PART#	SCREW SIZE	HEAD SIZE	PKG. QTY.
HW8X11/2ZW	8 x 1-1/2"	1/4"	250

ZIP-IN SCREWS - CONVENIENCE PACK

PART#	SCREW SIZE	HEAD SIZE
6822H	6 x 3/8"	1/4"
6843H	8 x 1/2"	1/4"
6845H	8 x 3/4"	1/4"
6846H	8 x 1"	1/4"
6853H	10 x 1/2"	5/16"
6855H	10 x 3/4"	5/16"
6856H	10 x 1"	5/16"

NUTS, BOLTS AND WASHERS

STOVE BOLTS



PART#	SIZE	LENGTH	PKG. QTY.
6401	#10 - 24	1/2"	46
6402	#10 - 24	3/4"	42
6403	#10 - 24	1"	37
6404	#10 - 24	1-1/2"	30
6411	1/4" - 20	1/2"	25
6412	1/4" - 20	3/4"	22
6413	1/4" - 20	1"	20
6414	1/4" - 20	1-1/2"	17
6415	1/4" - 20	2"	14
6416	1/4" - 20	2-1/2"	12

TOGGLE BOLTS



PART#	HOLE SIZE	LENGTH	PKG. QTY.
7033	1/2"	4"	6
7034	5/8"	4"	5
7036X	1"	4"	4

COMBO HEAD SCREWS



PART#	HOLE SIZE	LENGTH	PKG. QTY.
6843	#8	1/2"	78
6845	#8	3/4"	64
6853	#10	1/2"	54
6855	#10	3/4"	50
6858	#10	1-1/2"	29
6859	#10	2"	21
6865	#12	3/4"	34

SLOTTED ROUND HEAD MACHINE SCREW



PART#	SCREW SIZE	HEAD SIZE	PKG. QTY.
6843	#8	1/2"	78

COMBO HEAD SCREWS



Malcor

- Bit-Tip drills its own hole which produces the optimum hole size, resulting in better thread engagement and a tighter fit.
- Bit-Tip Type: Hex Washer

PART#	SCREW SIZE	HEAD SIZE	PKG. QTY.
BT131	8-18 x 1/2"	1/4"	500
BT133	8-18 x 3/4"	1/4"	500
BT141	10-16 x 1/2"	5/16"	500
BT143	10-16 x 3/4"	5/16"	500

BIT-TIP SCREWS - CONVENIENCE PACK

- 6900AX Includes #12 x 3/4", #12 x 1", #14 x 3/4", #14 x 1".
- For use in stripped holes

PART#	SCREW SIZE	HEAD SIZE
6943CX	8-18 x 1/2"	1/4"

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HVAC&R INSTALLATION ACCESSORIES

HOSE CLAMPS



- Stainless steel housings and bands
- Plated steel screw

PART#	SAE#	DIAMETER RANGE
HC6202	8-18 x 3/4"	1/4"
HC6203	8-18 x 1"	1/4"
HC5410	10-16 x 1/2"	5/16"
HC5416	10-16 x 3/4"	5/16"

NYLON TIES

Black ties are weather and UV resistant. Items in this section are Underwriters' Laboratories listed or recognized under the prime manufacturer's name.

PART#	SIZE	COLOR	PKG. QTY.
60264CX	6" w/ Mounting Hole	Natural	100
6261CX	6"	Natural	100
6264CX	7" w/ Mounting Hole	Natural	100
6262CX	7-1/2"	Natural	100
TY7	7-1/2"	Black	100
6263CX	11"	Natural	100
TY11	11"	Black	100
60265LX	14"	Natural	50

CABLE TIE MOUNTS



- Approximately 1" square w/ adhesive back
- Can be mounted with a screw
- Mounts will accept up to 75 lb. ties

PART#	PKG. QTY.
6269LX	50

COTTER PINS



PART#	DESCRIPTION	PKG. QTY.
6011	Includes: 1/16" x 1-1/2", 3/32" x 1-1/2", 1/8" x 1-1/2"	66

FAST NUTS



PART#	DESCRIPTION	PKG. QTY.
6350A	Assortment of #8, #10, #14	12

HEX NUTS



PART#	SIZE	PKG. QTY.
6501	1/4" - 20	68
6501CX	1/4" - 20	100
6502	5/16" - 18	43
6502CX	5/16" - 18	100
6503	3/8" - 16	30
6503CX	3/8" - 16	100
6505	1/2" - 13	13
6505LX	1/2" - 13	50

MACHINE SCREW HEX NUTS



PART#	SIZE	PKG. QTY.
6528	#10 - 24	44
6500A	Assortment of #6-32, #8-32, #10-32	78

FLAT WASHERS



PART#	SIZE	INNER DIAMETER	OUTER DIAMETER
6701	3/16"	1/4"	9/16"
6702	1/4"	5/16"	3/4"
6703	5/16"	3/8"	7/8"
6704	3/8"	7/16"	1"
6706	1/2"	9/16"	1-3/8"
6700AX	Assortment	1/4" - 9/16"	9/16 - 1-3/8"
6505	1/2" - 13	1/2" - 13	1/2" - 13
6505LX	1/2" - 13	1/2" - 13	1/2" - 13

FENDER WASHERS



PART#	SIZE	INNER DIAMETER	OUTER DIAMETER
6722	1/4"	9/32"	1-1/4"
6724	3/8"	13/32"	1-1/2"

ANCHOR KIT



- Anchor Kits include drill bit

PART#	PKG. QTY.	COLOR	SCREW SIZE
6701	1/4"	1/4"	9/16"
6702	5/16"	5/16"	3/4"
6703	3/8"	3/8"	7/8"
6704	7/16"	7/16"	1"

ZONE CONTROLS & ACCESSORIES

TrueZone HZ311 Panel - Good

Honeywell



FEATURES

- Universal Application
- Robust Push Terminals
- Common-Sense LEDs
- Clean, Professional Installation
- Smaller Footprint
- Variable-Speed Fan Control

TrueZONE™ HZ311 Panel for conventional, single stage applications up to 3 zones (1H/1C).

PART#

HZ311

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HVAC&R INSTALLATION ACCESSORIES

TrueZONE HZ322 Panel -Better

Honeywell



FEATURES

- Intuitive Installer setup. Easy-to-follow, digital display uses real language to guide installer through four easy steps.
- Universal Application
- Standard Checkout Procedure
- Robust Push Terminals
- Common-Sense LEDs
- Clean, Professional Installation
- Smaller Footprint
- Variable-Speed Fan Control
- Discharge Air Temperature Staging

TrueZONE™ HZ322 Panel for conventional and heat pump applications up to 3 zones (2H/2C).

PART#

HZ322

TrueZONE HZ432 Panel - Best

Honeywell



FEATURES

- Intuitive Installer setup. Easy-to-follow, digital display uses real language to guide installer through four easy steps.
- Universal Application
- Standard Checkout Procedure
- Robust Push Terminals
- Common-Sense LEDs
- Clean, Professional Installation
- Smaller Footprint
- Variable-Speed Fan Control
- Discharge Air Temperature Staging
- Advanced Dual-Fuel Operation

TrueZONE™ HZ432 Panel for conventional, heatpump or dual fuel applications expandable up to 32 zones (3H/2C)

PART#

HZ432

TotalZone® Add-A-Zone - Zone Control Panel

Honeywell



APPLICATION

The TAZ-4 is a zone panel used to add zones to the TZ-4. The TZ-4 provides up to four zones. Each TAZ-4 can add up to four additional zones for a total of 32 zones. The TAZ-4 is also compatible with the TZ-3, Rev 4.2.2, zone control panel and with the TAZ-1, TAZ-2 and TAZ-3, Rev 4, Add-A-Zone panels. Heat Pump Compatible, Stages 3 Heat/2 Cool

PART#

TAZ-4

Discharge Air Temperature Sensor

Honeywell



APPLICATION

The C7735A1000 Discharge Air Temperature Sensor (DATS) is a duct-mounted temperature probe that provides capacity control of heating and cooling equipment. The DATS is used only with zoning solutions, including TZ-3, MABS EZ-2 and MABS EZ-4, and EMM-3 and EMM-3U control panels. Mounted in the supply air duct, the DATS senses the delivered air temperature and cuts off the heating or cooling when the delivered air temperature goes above or below normal operating limits.

PART#

C7735A1000

TrueZone HZ311 Panel - Good

Honeywell



FEATURES

- Up to three stages heat and two stages cooling can be controlled by thermostat, built-in timer, or based on the percentage of zones calling.
- Controls single-stage, multi-stage, conventional, heat pump or dual-fuel equipment.
- Controls up to four zones and can be expanded up to 32 zones with Add-A-Zone Control Panels.
- Uses Honeywell four-wire, single-stage, multi-stage, or select heat pump thermostats.
- Zone-A-Lone central setback feature.
- Purge timer protects equipment between calls for heat or cool with choice of panel or HVAC equipment controlled fan.
- System and zone damper LEDs indicate system and damper status.
- Individual zone fan control.
- Discharge Air Temperature Sensor for capacity control with adjustable high and low limits.
- Thermal circuit breaker protects panel and transformer from damage if miswired.

APPLICATION

The TZ-4 TotalZone Zone Control Panel controls single-stage, multi-stage, conventional or heat pump heat/cool equipment. It controls 2, 3 or 4 zones, and is expandable up to 32 zones with optional TotalZone® Add-A-Zone Four Zone Control Panel.

PART#

TZa-4

Automatic Round Damper (ARD)

Honeywell



FEATURES

- Adjustable damper position range stops.
- Single-blade damper.
- Shipped as power closed/spring return open damper.
- Galvanized steel.
- Can be field-converted to power open/spring return closed damper.
- Blade closes off tightly against gasket for minimal leakage.
- Rated to operate up to 1 in. wc.
- Male (crimped) and female (uncrimped) ends to connect to any rigid or flexible round duct.

PART#

SIZE

ARD8	8
ARD10	10
ARD12	12
ARD14	14
ARD16	16
ARD18	18

Static Pressure Regulating Damper (SPRD)

Honeywell



FEATURES

The Static Pressure Regulating Damper (SPRD) is a round or rectangular single-blade barometric relief damper. It is a mechanical damper with no electrical connections. The blade has a counter-balance weighted arm that can be adjusted to open when necessary. It is recommended for use on zone damper systems up to .5 in. static pressure and up to 2000 cfm. Systems above 2000 cfm may require use of the SPC static pressure control and MARD damper.

The SPRD is used on zoned systems when the automatic closing of zone dampers can create an excessive increase in the air pressure and velocity

through the duct system. This increase can reduce the volume of air through the air handler and cause it to trip on high limit or to create ice on the coil.

The SPRD automatically opens as the air pressure in the duct system increases, and ducts the air into the return or dump zone. Both the position of the counterweight and the swing of the arm can be adjusted to allow the SPRD to open when necessary.

PART#

SIZE

SPRD10	10
SPRD12	12
SPRD14	14
SPRD16	16

SMOKE DETECTORS & ACCESSORIES

Conventional 4-Wire Photoelectronic Duct Smoke Detector with Low-Flow Technology



System Sensor's Innovair DH100ACDCLP reduces the spread of smoke through HVAC air duct systems, including low-flow applications. As a photoelectric detector, it's ultra-responsive to the large smoke particles commonly found in duct systems.

PART#	TYPE
DH100ACDCLP	Photoelectronic

Conventional 4-Wire Photoelectronic Watertight NEMA 4 Rated Smoke Duct Detector with Low-Flow Technology



The System Sensor DH100ACDCLWP Watertight Innovair™ is a NEMA 4 duct smoke detector rated for installation and use in non-hazardous indoor and outdoor applications.

PART#	TYPE
DH100ACDCLWP	Photoelectronic, Watertight

Ionization Duct Smoke Detector - SL-2000 Series Hi-Temp, Low-Flow & No-Tools



The SL-2000 Series Smoke Duct Detector is the latest innovation for early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential applications. The unit is designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down in the event of smoke detection. The SL-2000 is designed and built to meet all local code requirements, as well as the NFPA and ICC standards regarding HVAC supply and return duct smoke detectors. Output terminals are provided for a wide range of remote accessories such as horns, strobes, remote status indicators, and test/reset key switches or push buttons.

PART#	LENGTH
SL-2000-N	Ionization
SL-2000-P	Photoelectronic

Ionization Duct Smoke Detector - SM-501 Series



The SM-501 Series Duct Smoke Detector provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential applications. The unit is designed to prevent the re-circulation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down in the event of smoke detection. The SM-501 model will operate on any one of four input voltages (230VAC, 115VAC, 24VAC, or 24VDC). The SM-501 allows up to 30 detectors to be interconnected for many common functions.

PART#	TYPE
SM-501-N	Ionization

WP SERIES Weatherproof Enclosures for Duct Smoke Detectors



The WP-1 enclosure provides protection for the RW and SM Series duct smoke detectors. These enclosures offer outdoor protection from rain, sleet and snow, or indoor protection from dripping water.

PART#	DESCRIPTION
WP-1	Weatherproof Enclosure

Annunciator with Piezo Alarm



The APA451 provides a red alarm LED, with an audible annunciation of an alarm signal, and a green power LED. It is intended for use in System Sensor 4-wire conventional duct smoke detector applications without a system control panel, to comply with NFPA 90A.

PART#	DESCRIPTION
APA451	Annunciator

Magnet Remote Test Station



The RTS451 is an automatic fire detector accessory designed to test remotely located duct detectors. The LED illuminates red for alarm.

PART#	DESCRIPTION
RTS451	Remote Test Station

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HVAC&R INSTALLATION ACCESSORIES

MS SERIES REMOTE ACCESSORY



The MS Series remote accessories are designed to be used with the Air Products and Controls Duct Smoke Detectors to provide audible and visual indication as well as remote test/reset functions. These devices are constructed of attractive, yet durable brushed stainless steel and mount on a standard single or double gang electrical backbox.

PART#	DESCRIPTION
MS-KA/P/R	Controls Duct Smoke Detectors

Sampling Tube for System Sensor



PART#	LENGTH
ST-1.5	1'-2'
ST-3	2'-4'
ST-5	4'-8'
ST-10	8'-10'

Sampling Tubes for Air Products



The WP-1 enclosure provides projection for the RW and SM Series duct smoke detectors. These enclosures offer outdoor protection from rain, sleet and snow, or indoor protection from dripping water.

PART#	LENGTH
STN-1.0	12"
STN-2.5	6"-2.5'
STN-5.0	2.5'-5'

Smoke Test for SL2000



PART#	DESCRIPTION
TG-2000	Aerosol test gas with nozzle

Firex Carbon Monoxide Alarm

120V AC Direct Wire



With an advanced new design, the 6030 carbon monoxide alarm has a unique alarm action guide that fits conveniently and discretely behind the unit. For easy access, the card simply slides out from behind the unit with illustrated emergency instructions. In addition, the 6030 has a rotatable plug for flexible outlet installation.

PART#	DESCRIPTION
6030	Carbon Monoxide Alarm

Smoke in a Can



- Makes smoke detector testing easy
- Will not contaminate smoke detector
- Evaporates completely
- Non-Toxic

PART#	DESCRIPTION
SM200	Smoke in a Can

Smokey's Smoke Bomb



PART#	DESCRIPTION
14175	75 second burn time, 600 cu. ft., pkg. of 10

Air Check Smoke Bottles



PART#	DESCRIPTION
330-100	Ventilation Smoke Bottle

ACCESSORIES

Condenser Pads



PART#	SIZE	THICKNESS	PAD WEIGHT
UC2424-2	24 x 24	2"	15 lb.
UC3232-2	32 x 32	2"	24 lb.

Whips



PART#	DESCRIPTION
84136	6' x 1/2" #10 ga. metallic whip UL
84138	6' x 3/4" #8 ga. metallic whip UL

Stat Wire - 18 Gauge



PART#	No. OF CONDUCTORS	FT/SPOOL
55302	2	55302
55303	3	55303
55304	4	55304
55305	5	55305
55306	6	55306
55307	7	55307
55308	8	55308
55309	9	55309
55310	10	55310
55312	12	55312

Copper Linesets



- Includes insulated suction line and non-insulated liquid line.
- Insulated wall thickness: 3/8"

PART#	TUBE SIZE (OD)		FT/SPOOL
	LIQUID	SUCTION	
LS583850	3/8"	5/8"	50 Ft.
LS343825	3/8"	3/4"	25 Ft.
LS343850	3/8"	3/4"	50 Ft.
LS783850	3/8"	7/8"	50 Ft.
LS1183850	3/8"	1-1/8"	50 Ft.

TIME DELAYS DELAY ON MAKE



PART#	VOLTAGE	TIME DELAY
MS-KA/P/R	18-240 VAC	1.5-600 sec. adj.

TIME DELAYS DELAY ON MAKE



- Compressor lockout/anti-short cycle timer
- Helps to protect compressors from damage caused by rapid short cycling
- Simple, 2-wire hookup
- Adjustable timing
- Universal voltage

PART#	VOLTAGE	TIME DELAY
ICM203	18-240 VAC	1.8-600 sec. adj.

FAN CONTROL CENTER



PART#	VOLTAGE	TIME DELAY
ICM271	18-30 VAC	ON: 75 sec. OFF: 105 sec.
ICM275	18-30 VAC	ON: 60 sec. fixed OFF: 60-240 sec. adj.

ULTRA LOW COST HEAT PUMP DEFROST TIMER



- Ultra low cost
- Simple time and temperature control
- Must have external relays for fan reversing valve and auxiliary heat
- High installed base
- Defrost Time: Fixed 10 minutes + 5%
- Interval Time Between Defrosts: Pin-selectable 30/60/90 min•
- Power on Reset Time: 500ms
- Test Time: Short across test terminals reduces test time 256x

PART#	VOLTAGE
ICM301	18-30 VAC

SINGLE-PHASE HEAD PRESSURE CONTROL (120-480 VAC)



- Integral heat pump bypass circuitry allows electronic bypass of speed control
- Eliminates overshoots common to on/off and pressure switch controls
- Helps prevent evaporator freeze-ups, low pressure cut-outs and liquid-slugged compressors in low ambient conditions
- Features: hard start, low temperature bypass, isolated 24 VAC supply
- Control: 18-30 VAC
- 50/60 Hz 1.8 VA maximum
- Line input: 120-480 VAC
- Maximum 10 amps
- Minimum 100 mA

PART#
ICM325H

SINGLE-PHASE HEAD PRESSURE CONTROL (120, 208/240 VAC)



- Recommended for use on Sanyo
- Built in transformer eliminates cost, reduces installation time and simplifies wiring
- Helps prevent evaporator freeze-ups, low pressure cut-outs and liquid-slugged compressors in low ambient conditions
- Features: hard start, low temperature cutoff, high temperature bypass
- Ideal for line voltage air conditioning and refrigeration
- Input: 120 or 208/240 VAC
- Frequency: 50/60 Hz
- Output: Maximum: 10 amps Minimum: 100 mA

PART#
ICM326H

SENSOR PROBES



- For use with ICM325K head pressure controls
- Choose from 3 temperature ranges:
 - ICM375: 50-80°C)
 - ICM376: 70-100°C)
 - ICM377: 95-120°C)

PART#	LENGTH
ICM377	79 in.

ACCESSORIES

SENSOR PROBE



- Probe for use with ICM325H, ICM326H, ICM327H and ICM330 head pressure controls with optional heat pump bypass

PART#	LENGTH
ICM379	79 in.

Three-Phase Line Voltage Monitor Programmable



- Fully programmable with LCD diagnostic display
- 25-fault memory storage, non-volatile
- Identifies front and back side faults
- Protects against: voltage unbalance, high/low voltage, phase loss, phase reversal, faulty power, incorrect sequencing and rapid short cycling
- Universal voltage operation: 190-630 VAC
- Voltage: 190-630 VAC
- Frequency: 50/60 Hz
- Voltage Unbalance: Adjustable: 2-25%
- Control: 18-240 VAC
- Delay on break timer 1-5 minutes
- Output: Relay, SPDT
- N.O.: 10 amps N.C.: 6 amps

PART#
ICM450

FAN CONTROL CENTER



- Low cost single phase motor protection
- Built in anti-short cycle protection
- Detects high/low voltage conditions
- Helps prevent rapid short cycling
- LED indicators:
 - Green for normal conditions
 - Red for fault
- Heavy duty SPDT, isolated relay output
- Output: Relay, SPDT, N.C./N.O.: 5 amps

PART#	VOLTAGE	TIME DELAY
ICM491	95-270 VAC	Adjustable 6-600 seconds

Rapid Start® - Current Sensing



- Operates from 95-288 VAC
- Maximum input voltage: 502VAC
- Patented current sensing circuitry
- Self-adjusting to voltage fluctuation
- Easy to install, 2 wires, clip, or screw mounted
- For scroll or reciprocating compressors
- Solid-state circuitry
- Boost starting torque
- Disengages upon start
- Intrinsically safe, fuse protected (fuse not user replaceable)
- UL recognized
- Ideally suited for 2 thru 5 HP
- Capacitor: 145-175 Mfd., 330V
- Operating temperature range -40°C

PART#	VOLTAGE
ICM805	95-288 VAC

HVAC&R INSTALLATION ACCESSORIES