Controls Parts Catalog

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REVISION F



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Part Number Quick Price Reference		
AAON P/N	Part Description	Page No.
ASM01621	E-BUS Return Air Temp/Humidity Sensor Emulator Board with 1.5 ft. E-BUS Cable	page 42
ASM01622	E-BUS Space CO2 Sensor Emulator Board with 1.5 ft. E-BUS Cable	page 43
ASM01623	E-BUS Return Air CO2 Sensor Emulator Board with 1.5 ft. E-BUS Cable	page 43
ASM01624	Strap-On Temperature Sensor Kit	page 26
ASM01626	MiniLink Polling Device 5	page 35
ASM01629	VAV/Zone Controller Expansion Module (E-BUS)	page 30
ASM01635	E-BUS Adapter Hub with 1.5 ft. E-BUS Cable	page 42
ASM01640	Duct Static Pressure Sensor	page 22
ASM01643	Standard Room Sensor – with Override and Slide Adjust	page 25
ASM01646	3% Room Mounted Relative Humidity Sensor – 0-5 VDC Output	page 21
ASM01647	3% Outdoor Air Relative Humidity Sensor – 0-5 VDC Output	page 21
ASM01668	MODGAS-X Module	page 12
ASM01670	MHGRV-X Module	page 12
ASM01686	Refrigerant System Module for VFD Compressors (RSMV)	page 16
ASM01687	MHGRV-X Reheat Expansion Module	page 14
ASM01688	PREHEAT-X Module	page 13
ASM01689	PREHEAT-X-EXT Module	page 13
ASM01690	Water Source Heat Pump X2 Module	page 46
ASM01691	VCC-X EM1 Expansion Module	page 18
ASM01693	Refrigerant System Module for VFD Compressors – Heat Pump (RSMV-HP)	page 17
ASM01695	MODGAS-XWR2 Module	page 13
ASM01696	E-BUS Space Temp/Humidity Sensor Emulator Board with 1.5 ft. E-BUS Cable	page 42
ASM01697	E-BUS Outdoor Air Temp/Humidity Sensor Emulator Board with 1.5 ft. E-BUS Cable	page 42
ASM01820	E-BUS Digital Room Sensor with LCD Display – Temperature & Humidity	page 23
ASM01829	E-BUS CO_2 Sensor – Wall Mounted	page 23
ASM01831	E-BUS CO2 Sensor with Remote Pickup – Duct Mounted	page 23
ASM01832	Building Static Pressure Sensor	page 22
ASM01835	3% Return Air Relative Humidity Sensor – 0-5 VDC Output	page 21
ASM01836	E-BUS Horizontal Outdoor Air Temperature & Humidity Sensor	page 24
ASM01838	E-BUS Vertical Outdoor Air Temperature & Humidity Sensor	page 25
ASM01840	E-BUS Return Air Temperature & Humidity Sensor	page 24
ASM01841	Slaved Zone Interface Card with Cable	page 44
ASM01845	VCB-X Suction Pressure Transducer Kit with E-BUS Adapter	page 26
ASM01846	Zone Damper Actuator	page 30
ASM01851	Slaved VAV/Zone Damper Kit	page 30
ASM01868	GPC-XP Controller	page 12
ASM01870	BACnet® General Purpose Controller	page 10
ASM01873	E-BUS 12 Relay Expansion Module	page 11
ASM01878	E-BUS Adapter Board	page 42
ASM01887	Dual Digital Compressor Module	page 46
ASM01889	Full Digital Compressor Module	page 46
ASM01890	One Condenser Head Pressure Module	page 46
ASM01891	Two Condenser Head Pressure II Module	page 47
ASM01893	Refrigerant System Module for Digital Compressors (RSMD-R22)	page 15

Part Number Quick Price Reference		
AAON P/N	Part Description	Page No.
ASM01897	System Manager TS II Operator Interface for VCM, VCM-X E-BUS & VCB-X	page 37
ASM01898	System Manager TS II Operator Interface for the GPC-XP Controller	page 37
ASM01900	System Manager TS-L Operator Interface for Most Controllers (Limited Access)	page 37
ASM01956	Slaved Zone Interface Card	page 44
ASM01961	Modular Service Tool Adapter	page 43
ASM01963	USB-Link 2 Adapter	page 43
ASM01979	E-BUS to USB Mini Adapter Board	page 42
ASM02188	VAV/Zone Controller Power/Comm Cable Modular Adapter	page 44
ASM02201	Refrigerant System Module for Digital Compressors (RSMD)	page 15
ASM02215	Comm Driver Chips – Fault Tolerant – Package of 10	page 43
ASM02221	E-BUS Digital Room Sensor (No LCD Display) – Temperature & Humidity	page 23
ASM02222	Suction Pressure Transducer	page 2
ASM02224	Power/Comm Board	page 44
ASM02227	Standard Room Sensor – Plain	page 25
ASM02236	CO2 Sensor – Return Air	page 22
ASM02237	CO2 Sensor – Wall Mount	page 22
ASM02242	Duct Static Pressure Pick-up Tube	page 22
ASM02244	USB-Link 2 Kit	page 35
ASM02252	Slaved Zone Rectangular Damper Kit	page 34
ASM02261	2 Pole Terminal Block	page 43
ASM02262	3 Pole Terminal Block	page 43
ASM02263	4 Pole Terminal Block	page 43
ASM02264	12 Pole Terminal Block	page 43
ASM02265	7 Pole Terminal Block	page 43
ASM02266	9 Pole Terminal Block	page 43
ASM02267	10 Pole Terminal Block	page 43
ASM02268	6 Pole Terminal Block	page 43
ASM02269	8 Pole Terminal Block	page 43
ASM02293	CNTLR RSMVQ	page 17
ASM02338	Bypass Rectangular Damper Kit	page 34
ASM02350	CNTLR SUBCOOL MONITOR	page 18
ASM02351	CNTLR RSMZ MODULE	page 17
ASM02352	SNSR SUPPLY AIR EBUS RIGHT ANGLE	page 24
ASM02426	P.D. VAV/Zone BACnet® Controller	page 29
ASM02427	P.I. VAV/Zone BACnet® Controller	page 29
ASM02627	CNTLR RSMV W/O EXV CONTROL	page 16
ASM02652	RSMVQ2R	page 17
ASM02653	P.D. BACnet® Rectangular Damper Kit	page 34
ASM02661	P.D. VAV/Zone BACnet® Controller Package	page 29
ASM02662	P.I. VAV/Zone BACnet® Controller Package	page 30
ASM02771	VCCX2 Suction Pressure Transducer	page 26
ASM02786	CNTLR RSMVHPQ	page 17
ASM02869	Refrigerant System Module for Digital Compressors (RSMD2R)	page 16
ASM08077	Motor Speed Controller - 240V	page 13

Part Number Quick Price Reference		
AAON P/N	Part Description	Page No.
ASM08070	Motor Speed Controller - 480V	page 13
ASM07681	Compressor Protection Module	page 11
ASM06709	Refrigerant System Module for Digital Compressors – CM Cond Fan	page 16
ASM06852	CNTRL RSMD-A MODULE	page 16
ASM06926	CNTLR MHGRVX-A2 WITH OPTION FOR DIFFERENT POWER SUPPLIES	page 12
ASM07272	PT-Link II BACnet 5	page 35
ASM07274	Defrost Controller	page 11
ASM07413	SENSOR SUPPLY AIR TEMP/HUMIDITY	page 26
ASM07420	COMMLINK 6	page 35
ASM07424	CNTLR VCCX-IP	page 19
ASM07430	5 Pole Terminal Block	page 43
ASM07491	CNTLR RSMZ 2500	page 18
ASM07503	VCCX-454	page 18
ASM07527	REMOTE LCD SPACE TEMP/RH EBUS	page 23
ASM07559	CNTLR FAN ARRAY	page 11
ASM07563	CNTLR A2L MITIGATION	page 10
ASM07687	RSM - DEV1	page 15
ASM07716	CNTLR RM454 - D MODULE	page 14
ASM07717	CNTLR RM454 - Z MODULE	page 15
ASM07718	CNTLR RM454 - V MODULE	page 14
ASM07719	CNTLR RM454 - SC MONITOR	page 14
ASM07771	BD - 3PI	page 10
ASM07804	CNTLR BD - FANCOMM - S	page 11
ASM07805	CNTLR BD - FANCOMM - R	page 10
ASM08150	Stratus UNIT MANAGER	page 2
ASM08153	Stratus POWER-COMM	page 2
ASM08156	Stratus AIR HANDLER I-O	page 2
ASM08159	Stratus COOLING I-O	page 2
ASM08162	Stratus HEATING I-O	page 2
ASM08165	Stratus OUTDOOR AIR I-O with Enclosure	page 3
ASM08171	Stratus PREHEAT I-O	page 3
ASM08196	Stratus Touch Screen SPACE SENSOR	page 3
ASM08419	Stratus OUTDOOR AIR I-O BOARD only	page 3
ASM08866	Stratus SHOWCASE	page 4
ASM08945	Stratus RELAY ADAPTER	page 3
G012870	E-BUS Cable Assembly – 3 ft. Long	page 39
G018870	E-BUS Cable Assembly – 1,000 ft. Long Spool	page 39
G018890	E-BUS Bulk Connectors	page 39
G029440	E-BUS Cable Assembly – 1.5 ft. Long	page 39
G029450	E-BUS Cable Assembly – 100 ft. Long	page 39
G029460	E-BUS Cable Assembly – 10 ft. Long	page 39
G029470	E-BUS Cable Assembly – 150 ft. Long	page 39
G029500	E-BUS 3 Foot HB Service Tool Replacement Cable	page 43
G029510	E-BUS Cable Assembly – 50 ft. Long	page 43

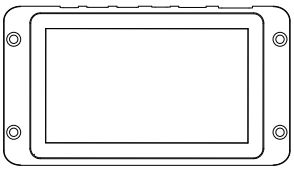
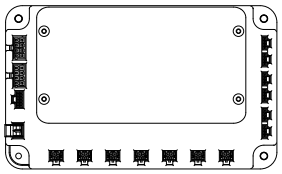
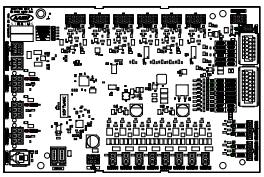
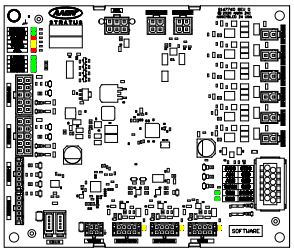
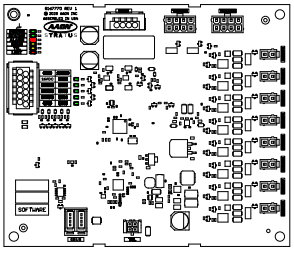
Part Number Quick Price Reference		
AAON P/N	Part Description	Page No.
G029530	E-BUS Cable Assembly – 75 ft. Long	page 39
G030890	Modular Cable for Modular Service Tool and USB-Link – 6 ft. Long	page 40
G030900	Power/Comm Pigtail Cable Assembly – 12 ft. Long	page 47
G030910	Power/Comm Pigtail Cable Assembly – 120 ft. Long	page 47
G030920	Power/Comm Pigtail Cable Assembly – 25 ft. Long	page 47
G030930	Power/Comm Pigtail Cable Assembly – 50 ft. Long	page 47
G030940	Power/Comm Pigtail Cable Assembly – 80 ft. Long	page 47
G030980	USB Cable for USB-Link – 2 ft. Long	page 40
G030990	USB Cable for CommLink III, IV, 5 or Remote Link II – 6 ft. Long	page 40
G033970	E-BUS Adapter Hub	page 42
G034180	E-BUS Crimp Tool	page 39
G034540	Power Supply for CommLink II, III, IV, 5, or 6	page 40
G034560	Power Supply for Modular Service Tool	page 40
G042230	Outdoor Air Temperature Sensor	page 25
G043260	Power/Comm Cable Assembly – 120 ft. Long	page 47
G043270	Power/Comm Cable Assembly – 25 ft. Long	page 47
G043280	Power/Comm Cable Assembly – 3 ft. Long	page 47
G043290	Power/Comm Cable Assembly – 40 ft. Long	page 47
G043300	Power/Comm Cable Assembly – 80 ft. Long	page 47
G043310	Power/Comm Extension Cable Assembly – 10 ft. Long	page 47
G043320	Power/Comm Extension Cable Assembly – 20 ft. Long	page 47
G045270	E-BUS Cable Assembly – 25 ft. Long	page 39
G045890	Bypass Damper Actuator	page 29
G051240	Duct Temperature Sensor – 6 in. Probe Length	page 23
G051250	Duct Temperature Sensor – 12 in. Probe Length	page 23
G075510	Wire 22AWG BACnet Communication Cable	page 40
G132540	A2L 9 ft.	page 6
G132550	A2L 14 ft.	page 6
G132560	A2L 17 ft.	page 6
G132570	A2L 25 ft.	page 6
G132580	A2L 38 ft.	page 6
G145190	A2L Leak Detection Sensor Plug	page 21
G167870	MOUT 2 ft.	page 7
G167880	Limit Cable 2 ft.	page 7
G167900	T1L Cable 3 ft.	page 8
G167910	Stepper Cable 5 ft.	page 7
G167930	Damper Cable 5 ft.	page 6
G167940	EXV Cable 4 ft.	page 6
G167950	Cooling Cable 8 ft.	page 6
G167960	Overload Relay 3 ft.	page 7
G174310	Gas Valve no Spade 4 ft.	page 6
G174320	Gas Valve w/ Spade 4 ft.	page 6
G174610	Stratus SEALED ENCLOSURE	page 4
G178450	EXV Cable 18 in.	page 6

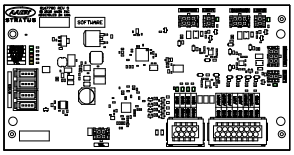
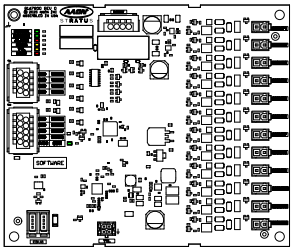
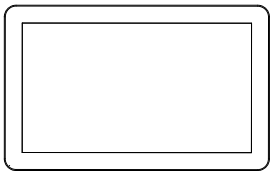
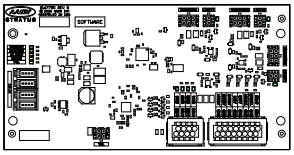
Part Number Quick Price Reference		
AAON P/N	Part Description	Page No.
G178460	EXV Cable 22 in.	page 6
G178470	EXV Cable 3 ft.	page 6
G178480	EXV Cable 9 ft.	page 6
G178490	EXV Cable 15 ft.	page 6
G178520	T1L Cable 18 in.	page 8
G178530	T1L Cable 30 in.	page 8
G178540	T1L Cable 5 ft.	page 8
G178550	T1L Cable 8 ft.	page 8
G178560	T1L Cable 15 ft.	page 8
G178570	T1L Cable 20 ft.	page 8
G178580	T1L Cable 25 ft.	page 8
G178590	T1L Cable 35 ft.	page 8
G178600	T1L Cable 10 ft.	page 8
G178610	T1L Cable 50 ft.	page 8
G178620	T1L Cable 100 ft.	page 8
G178630	T1L Cable 30 ft.	page 8
G178650	T1L Cable 150 ft.	page 8
G178680	MOUT 1 ft.	page 7
G178690	MOUT 3 ft.	page 7
G178700	MOUT 5 ft.	page 7
G178710	MOUT 6 ft.	page 7
G178720	MOUT 8 ft.	page 7
G178730	MOUT 10 ft.	page 7
G178740	MOUT 20 ft.	page 7
G178750	Stepper Cable 2 ft.	page 7
G178760	Stepper Cable 10 ft.	page 7
G178770	Cooling Cable 2 ft.	page 6
G178780	Cooling Cable 3 ft.	page 6
G178800	Cooling Cable 4 ft.	page 6
G178810	Cooling Cable 12 ft.	page 6
G178820	Damper Cable 2 ft.	page 6
G178830	Damper Cable 3 ft.	page 6
G178840	Damper Cable 8 ft.	page 6
G178850	Damper Cable 15 ft.	page 6
G178870	Limit Cable 3 ft.	page 7
G178880	Limit Cable 5 ft.	page 7
G178890	Limit Cable 8 ft.	page 7
G178900	Limit Cable 15 ft.	page 7
G178910	VFD Cable 2 ft.	page 8
G178920	VFD Cable 5 ft.	page 8
G178930	VFD Cable 6 ft.	page 8
G178940	VFD Cable 10 ft.	page 8
G178950	VFD Cable 12ft.	page 8
G178960	VFD Cable 4 ft.	page 8

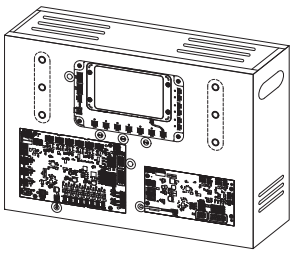
Part Number Quick Price Reference		
AAON P/N	Part Description	Page No.
G178970	Gas Valve no Spade 3 ft.	page 6
G178980	Gas Valve no Spade 6 ft.	page 6
G178990	Gas Valve w/ Spade 3 ft.	page 6
G179000	Gas Valve w/ Spade 6 ft.	page 6
G179010	A2L 2 ft.	page 6
G179020	A2L 5 ft.	page 6
G180000	Power Cable STD 3 ft.	page 7
G180010	Power Cable STD 6 ft.	page 7
G180020	Power Cable STD 10 ft.	page 7
G181870	A2L 50 ft.	page 6
G181880	A2L 100 ft.	page 6
G182440	Overload Relay 6 ft.	page 7
G182450	Overload Relay 9 ft.	page 7
G182460	Overload Relay 15 ft.	page 7
G185070	POWERCOMM 3 ft.	page 7
G185080	POWERCOMM 6 ft.	page 7
G190420	POWERCOMM 10 ft.	page 7
G190430	POWERCOMM 15 ft.	page 7
R69330	Modular Cable for Actuator to VAV/Zone Controller – 18 in. Long	page 39
R88450	Modular Cable for Actuator to VAV/Zone Controller – 2 ft. Long	page 39
V36590	E-BUS Cable Assembly – 250 ft. Long	page 39
Varies	Pressure Dependent BACnet Round Zone Damper Assembly	page 32
Varies	Pressure Dependent Round Slaved Zone Damper Assembly	page 33
Varies	Pressure Independent BACnet Round Zone Damper Assembly	page 32
Varies	Round Bypass Damper Assembly	page 33

Stratus

Boards and Devices

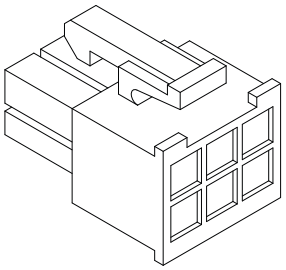
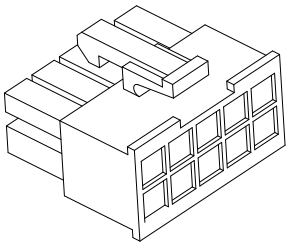
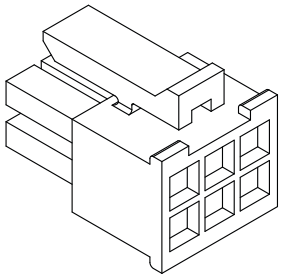
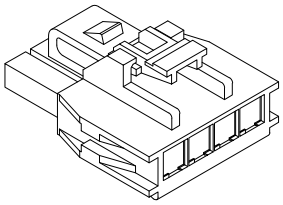
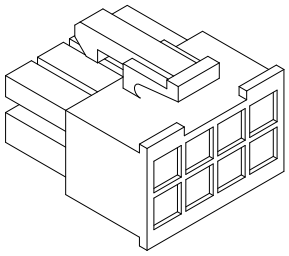
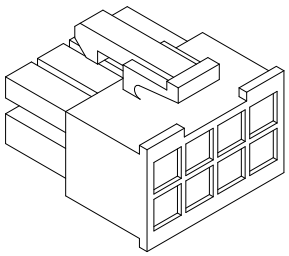
Part Number	Stratus Controls and Boards	
	Description	
ASM02222	Suction Pressure Transducer	
ASM08150	**Stratus Unit Manager** Field wiring connections for: • In Unit Board Communications • MS/TP or BACnet IP Communications • Building IP Network Communications • EBUS Sensor Communications • TS Space Sensor Communication	
ASM08153	Stratus POWER-COMM Main power and communications board for the Stratus system.	
ASM08156	**Stratus Air Handler I-O** Field wiring connections for: • Fan Control • OA\RTN Damper • A2L Sensors • Duct Static Sensor • Supply, Return, and Space Air Temperatures • Chilled\Hot Water Valve Controls • Remote Shutdown • Supply Fan Airflow Status • Hood On Status • BACnet Passthroughs	
ASM08159	**Stratus Cooling I-O** Field wiring connections for: • Compressors • Reversing Valve Control • Reheat Valve Control • Line Temperature Sensors • Refrigerant Pressure Sensors • Oil Level Sensor • Defrost Switch • Condenser Fan • A2L Sensors • BACnet Passthroughs	
ASM08162	**Stratus Heating I-O** Field wiring connections for: • ModGas Valves • Ignition Proof Status • SCR Electric Signals • Heat Enables • Inducer Fan Low Speed • BACnet Passthroughs	

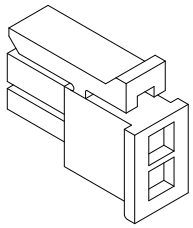
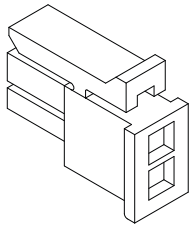
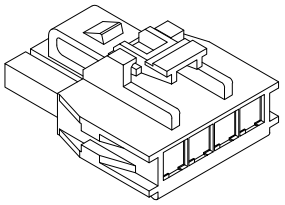
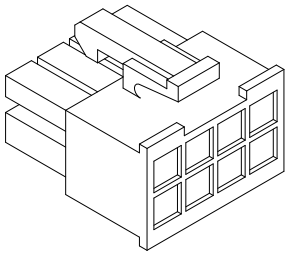
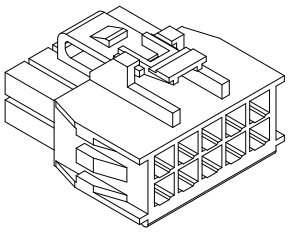
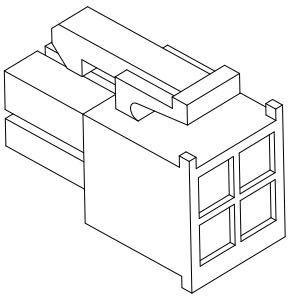
Part Number	Stratus Controls and Boards	
	Description	
ASM08165	**Stratus Outdoor Air I-O with Enclosure** Field wiring connections for: • OA/RTN Air Damper • Exhaust Air Damper • ERV Bypass Damper • Outside Air Temperature • Return Air Temperature • Supply Airflow Switch • Return Airflow Switch • Exhaust Airflow Switch • Dirty Filter Switch • Building Pressure Sensor • Exhaust Pressure Sensor • BACnet Passthroughs	
ASM08171	**Stratus Preheat I-O** Field wiring connections for: • Stage Enables • PWM SCR Signal • Entering Air Temperatures • Leaving Air Temperatures • BACnet Passthroughs	
ASM08196	**Stratus Touch Screen Space Sensor** • See and adjust desired space temperature • See and adjust desired occupancy schedule • Override Cooling\Vent\Heating mode • Override Unit Schedule • See Alarms • User Management • Air Balance Service Mode	
ASM08419	**Stratus Outdoor Air I-O Only** Field wiring connections for: • OA/RTN Air Damper • Exhaust Air Damper • ERV Bypass Damper • Outside Air Temperature • Return Air Temperature • Supply Airflow Switch • Return Airflow Switch • Exhaust Airflow Switch • Dirty Filter Switch • Building Pressure Sensor • Exhaust Pressure Sensor • BACnet Passthroughs	

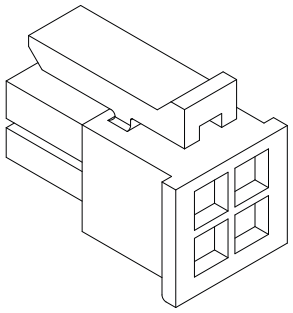
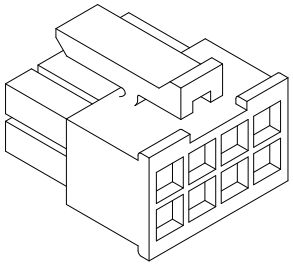
Part Number	Stratus Controls and Boards	
	Description	
ASM08866	**Stratus Showcase** The Stratus Showcase is a sales demonstration display for Stratus controls. Mounted on the wrapped plexiglass display are the Stratus Unit Manager, Power-Comm Board, Air Handler I-O Board, Outdoor Air I-O Board, Cooling I-O Board, Heating I-O Board, Preheat I-O Board, and Stratus Space Sensor. T1L cables are routed through the display from the Power-Comm Board for power and communication to each of the I-O Boards and Space Sensor. • Six Potentiometer dials are accessible on the front side for adjustment of Space Temperature, Space RH%, Supply Temperature, Outdoor Air Temperature, Outdoor Air RH%, and Return Temperature. • Includes a 24VDC Power Supply mounted inside of the display box.	
ASM08945	**Stratus Relay Adapter**	
G174610	**Stratus Sealed Enclosure for ASM08419**	

Stratus

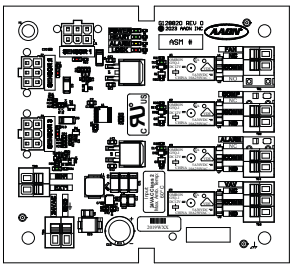
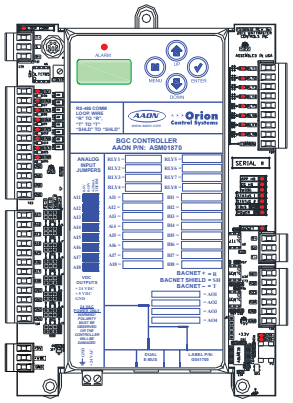
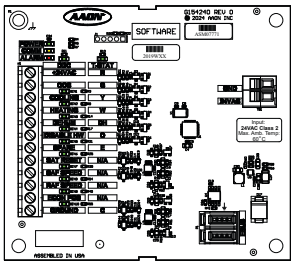
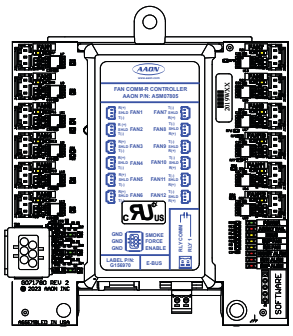
Cables

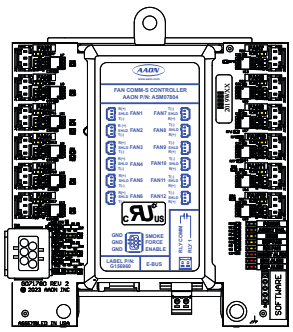
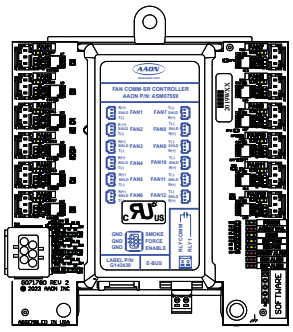
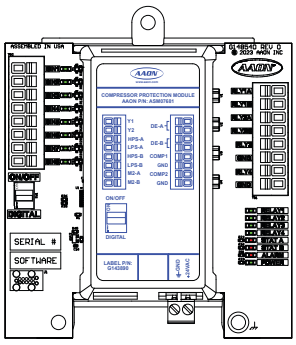
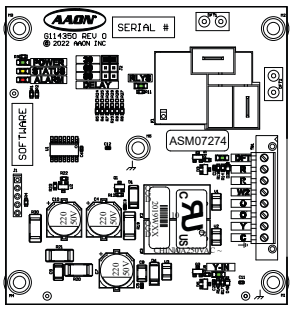
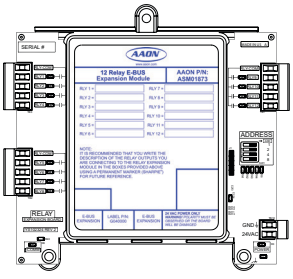
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	Description	
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G178770 (2 ft.) G178780 (3 ft.) G178800 (4 ft.) G167950 (8 ft.) G178810 (12 ft.)	Stratus Cooling Cable	
G178820 (2 ft.) G178830 (3 ft.) G167930 (5 ft.) G178840 (8 ft.) G178850 (15 ft.)	Stratus Damper Cable	
G178450 (18 in.) G178460 (22 in.) G178470 (3 ft.) G167940 (4 ft.) G178480 (9 ft.) G178490 (15 ft.)	Stratus EXV Cable	
G178970 (3 ft.) G174310 (4 ft.) G178980 (6 ft.)	Stratus Gas Valve, No Spade Cable	
G178990 (3 ft.) G174320 (4 ft.) G179000 (6 ft.)	Stratus Gas Valve with Spade Cable	

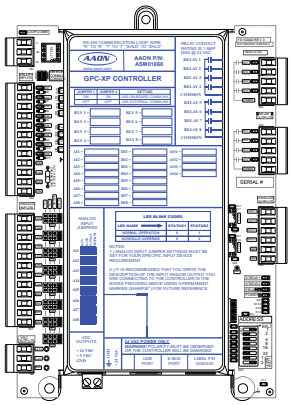
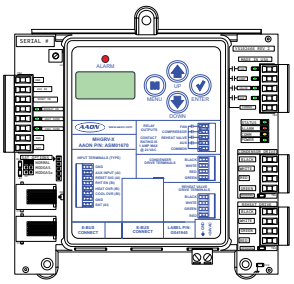
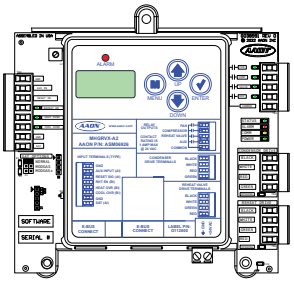
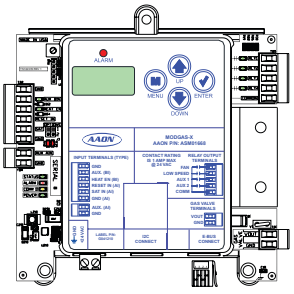
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	Description	
G167880 (2 ft.) G178870 (3 ft.) G178880 (5 ft.) G178890 (8 ft.) G178900 (15 ft.)	Stratus Limit Cable	
G178680 (1 ft.) G167870 (2 ft.) G178690 (3 ft.) G178700 (5 ft.) G178710 (6 ft.) G178720 (8 ft.) G178730 (10 ft.) G178740 (20 ft.)	Stratus MOUT Cable	
G167960 (3 ft.) G182440 (6 ft.) G182450 (9 ft.) G182460 (15 ft.)	Stratus Overload Relay Cable	
G180000 (3 ft.) G180010 (6 ft.) G180020 (10 ft.)	Stratus Power Cable, Standard	
G185070 (3 ft.) G185080 (6 ft.) G190420 (10 ft.) G190430 (15 ft.)	Stratus POWERCOMM Cable	
G178750 (2 ft.) G167910 (5 ft.) G178760 (10 ft.)	Stratus Stepper Cable	

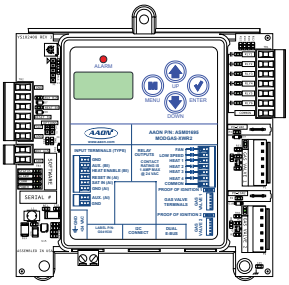
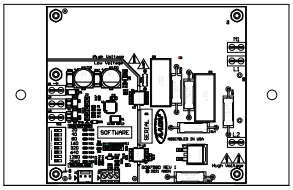
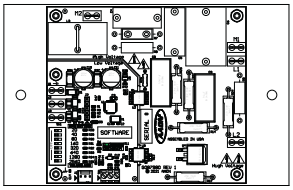
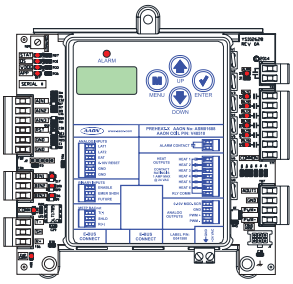
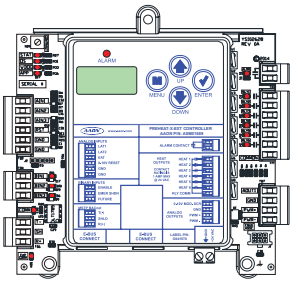
Part Number	Stratus Cables	
	Description	
G178520 (18 in,) G178530 (30 in) G167900 (3 ft.) G178540 (5 ft.) G178550 (8 ft.) G178600 (10 ft.) G178560 (15 ft.) G178570 (20 ft.) G178580 (25 ft.) G178630 (30 ft.) G178590 (35 ft.) G178610 (50 ft.) G178620 (100 ft.) G178650 (150 ft.)	Stratus T1L Cable	
G178910 (2 ft.) G178960 (4 ft.) G178920 (5 ft.) G178930 (6 ft.) G178940 (10 ft.) G178950 (12 ft.)	Stratus VFD Cable	

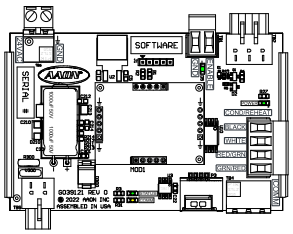
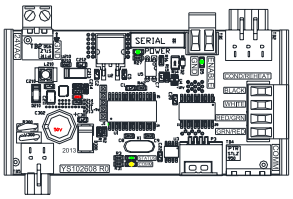
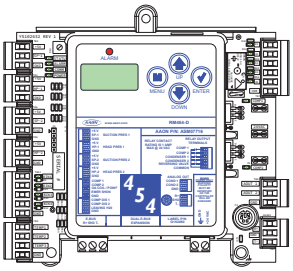
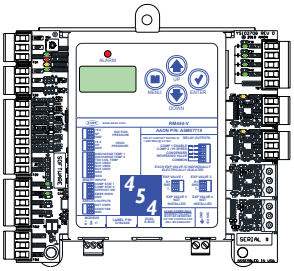
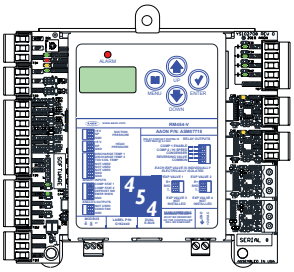
Unit Controllers and Modules

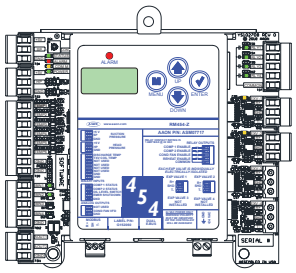
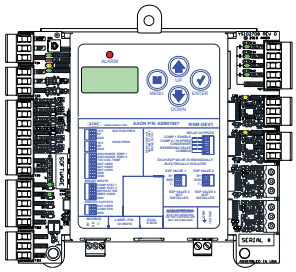
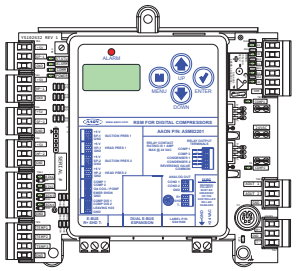
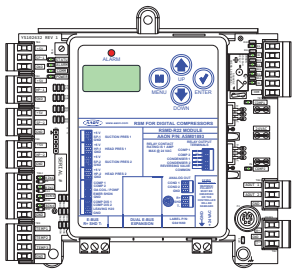
Part Number	Unit Controllers and Modules Description	
ASM07563	**A2L Mitigation Controller** **Used on units with R454.** The A2L Mitigation Controller is required for installation and operation in all A2L AAON Units. It features 3 sensor inputs, 1 binary input, and 4 relays. The controller functions as part of the safety measures by detecting refrigerant gas leaks and dispersing gas through proper means. The A2L Mitigation controller functions as either standalone or with the VCCX-454 Controller	
ASM01870	**BACnet® General Controller (BGC)** The BGC is a stand-alone Input/Output device that uses BACnet® MS/TP communications. Features • 8 Analog Inputs - 10k Type III thermistor, 4-20mA, 0-5 VDC,0-10 VDC • 4 Analog Outputs - 0-10 VDC • 8 Binary Inputs • 8 Relay Outputs In addition to the physical points listed above, it also has two modular sensor ports for specific communicating E-BUS temperature, humidity, and CO_2 sensors. The BGC has no internal logic, but allows a BACnet® front end to read the status of the analog and binary inputs. It also allows the front end to command the relay outputs to an On or Off mode and to command the 0 - 10 VDC analog outputs to specific voltages. The on-board 2 x 8 LCD display and buttons allow viewing of input and output status, configuration of the BACnet® settings, and setting of the WattCom network address.	
ASM07771	**BD - 3PI** Used for Supervisory Control of the VCCX-454. Inputs available for Remote Occupied, Cooling, Heating, Dehumidification, Disable Heat Wheel, Spare, Supply Air Temp Reset, Supply Fan Speed, Return Fan Speed, and Economizer Position. The BD-3PI has three configurable modes of operation: DDC, Thermostat, and HP Thermostat. Some inputs vary in functionality based on the selected mode. See VCCX-454 technical guide for full input descriptions.	
ASM07805	**BD Controller – Fancomm - R** Fan Array Controller used with just the Return/Exhaust fans. This cannot be used in conjunction with the FANCOMM-SR. Can control up to 12 supply fan	

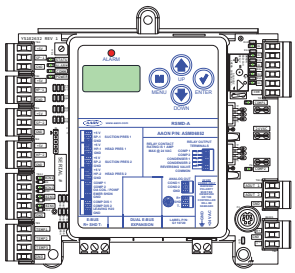
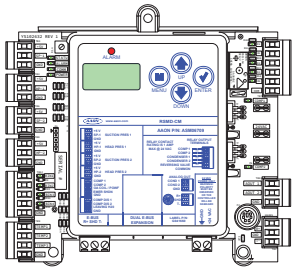
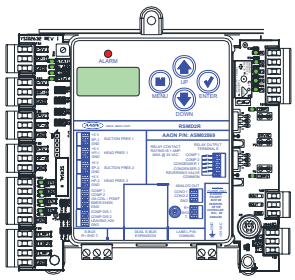
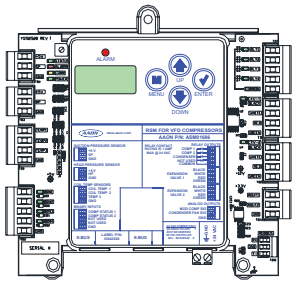
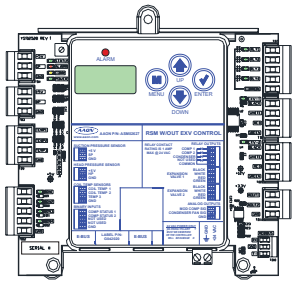
Part Number	Unit Controllers and Modules Description	
ASM07804	**BD Controller – Fancomm- S** Fan Array Controller used with just the supply fans. This cannot be used in conjunction with the FANCOMM-SR. Can control up to 12 supply fans.	
ASM07559	**BD Controller – Fancomm – SR** Fan Array Controller used to control up to 12 fans including supply, return, or exhaust fans. This cannot be used in conjunction with either the FANCOMM-R or FANCOMM-S.	
ASM07681	**Compressor Protection Module** The Compressor Protection Module is used in split systems as a stand-alone module. It provides additional protection for compressors in systems with self-resetting pressure switches. The module uses high pressure and low pressure switches to disable the compressor and enforce a minimum compressor off time when a fault occurs. It also limits the number of retries and locks out the compressor if it exceeds the maximum number of allowed faults. The Compressor Protection Module sequence is intended to help with the start up of units with microchannel coils and prevent nuisance lockouts when the coil is cold.	
ASM07274	**Defrost Controller** The Defrost Controller is used to manage the defrost cycle on a unit without AAON controls. This controller manages the timing and duration of the defrost cycle and allows for time interval configuration between each defrost cycle.	
ASM01873	**E-BUS 12 Relay Expansion Module** The E-BUS 12 Relay Expansion Module provides an additional 12 Relay Outputs to VCB-X and newer controllers. The module connects to the controllers using the included E-BUS cable.	

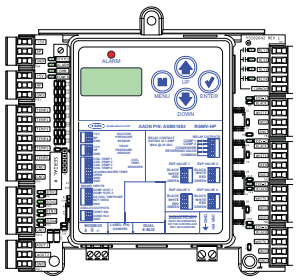
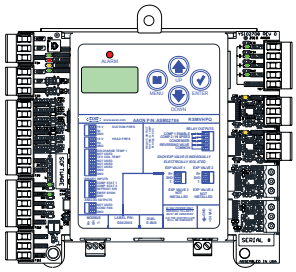
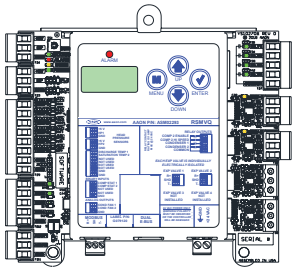
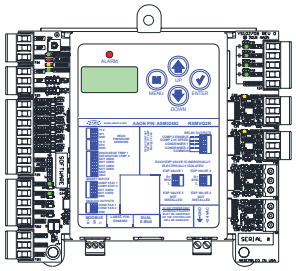
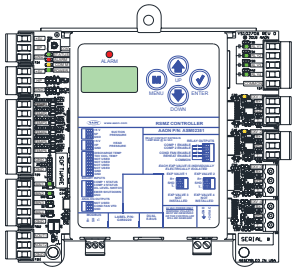
Part Number	Unit Controllers and Modules Description	
ASM01868	**General Purpose Controller (GPC-XP)** The GPC-XP is used for controlling equipment or processes that cannot be controlled using a standard HVAC unit controller. Prism 2 software is required to interface with the GPC-XP Controller. The GPC-XP Controller provides the flexibility to control, schedule and/or monitor equipment such as pumps, unit heaters, exhaust fans, motorized louvers, and lighting. Features • On-board CommLink • Customizable • Weekly schedules • 8 Analog Inputs - 10k Type III thermistor, 4-20mA, 0-5 VDC,0-10 VDC • 4 Analog Outputs - 0-10 VDC • 8 Binary Inputs • 8 Relay Outputs • High/Low/Average calculations of Analog Inputs • Broadcasting values to other controllers • Lead/Lag function	
ASM01670	**MHGRV-X Module** The MHGRV-X Module controls a Modulating Hot Gas Reheat Valve to maintain a desired Supply Air Temperature and Dehumidification Setpoint. The MHGRV-X Module connects to VCB-X and newer controllers via an included E-BUS cable.	
ASM06926	**MHGRVX-A2 Controller** The MHGRVX-A2 is designed to control a Modulating Hot Gas Reheat Valve to maintain a desired Supply Air Temperature Setpoint. Option for different power supplies. The MHGRVX-A2 can be used as a stand-alone module or can be used in conjunction with an AAON unit controller with E-BUS capability. In addition, up to seven Reheat Expansion Modules can be connected to the MHGRVX-A2 and to each other for additional reheat valve control. The MHGRVX-A2 connects to an AAON unit controller or expansion module via an E-BUS cable.	
ASM01668	**MODGAS-X Module** The MODGAS-X Module modulates up to two gas valves to maintain a desired Discharge Air Temperature. It also controls the speed of the induced draft fan to maintain proper combustion in the heat exchanger. The MODGAS-X Module connects to VCB-X and newer controllers via an included E-BUS cable.	

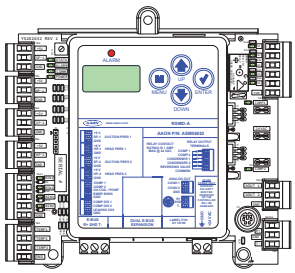
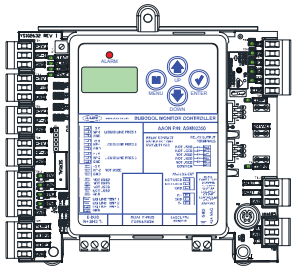
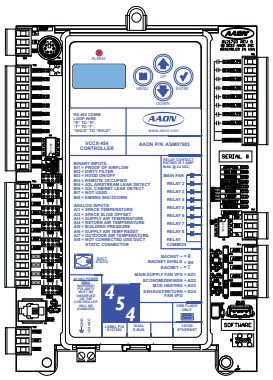
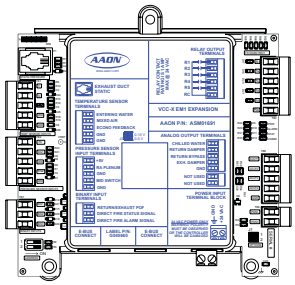
Part Number	Unit Controllers and Modules Description	
ASM01695	**MODGAS-XWR2 Module** The MODGAS-XWR2 Module is used in units with White Rogers gas valves. It modulates up to two gas valves to maintain a desired Discharge Air Temperature. It also controls the speed of the induced draft fan to maintain proper combustion in the heat exchanger. The MODGAS-XWR2 Module connects to the VCB-X and newer controllers via an included E-BUS cable.	
ASM08077	**Motor Speed Controller - 240V** The Motor Speed Controller is designed to control the speed of alternating current (AC) induction motors in combustion air blowers. The Motor Speed Controller is used with blower motors with Hall effect tachometer sensors included to help facilitate blower speed control.	
ASM08070	**Motor Speed Controller - 480V** The Motor Speed Controller is designed to control the speed of alternating current (AC) induction motors in combustion air blowers. The Motor Speed Controller is used with blower motors with Hall effect tachometer sensors included to help facilitate blower speed control.	
ASM01688	**PREHEAT-X Module** The PREHEAT-X Module is designed to control fixed stages of Preheat and optional modulating Preheat to maintain a desired Preheat Leaving Air Temperature Setpoint. It can be used as a communicating module in conjunction with the VCB-X and newer controllers or as a stand-alone module. The PREHEAT-X Module is limited to a 35°F Leaving Air Temperature Setpoint. The module contains a 2 x 8 LCD character display and 4 buttons that allow status display, setpoint changes, and configuration changes. Connects to the unit controller with an E-BUS cable (supplied separately).	
ASM01689	**PREHEAT-X-EXT Module** The PREHEAT-X-EXT Module is designed to control fixed stages of Preheat and optional modulating Preheat to maintain a desired Preheat Leaving Air Temperature Setpoint. It can be used as a communicating module in conjunction with the VCB-X and newer controllers or as a stand-alone module. The PREHEAT-X-EXT Module has an extended Leaving Air Temperature Setpoint range down to 0°F. Use of this module on any given unit should be reviewed by AAON applications team. The Module contains a 2 x 8 LCD character display and 4 buttons that allow status display, setpoint changes, and configuration changes. Connects to the unit controller with an E-BUS cable (supplied separately).	

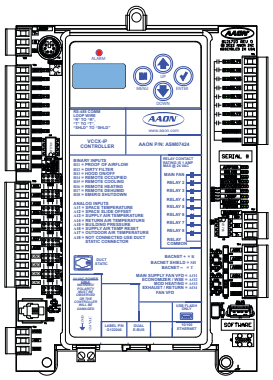
Part Number	Unit Controllers and Modules Description	
ASM01687	**Reheat Expansion Module** Includes: Snap track mounting base The Reheat Expansion Module connects to the MHGRV-X Module via an included E-BUS cable and allows control of multiple sets of valves.	 
ASM07716	**RM454 Controller – D Module (RM454-D)** **Used on units with R454.** The RM454-D does not operate as a stand-alone controller and must be used with a VCCX-454 Controller. The RM454-D monitors and controls one or two refrigeration circuits. The module is designed for R454 Refrigerant. Up to 4 RM454-D's can be connected. There are 2 E-BUS ports for communication with the VCCX-454 and other E-BUS devices. The RM454-D provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary. RM-454's are required in applications with digital compressors, head pressure control, dehumidification, or heat pumps.	
ASM07719	**RM454 Controller – SC Monitor (RM454-SC)** **Used on units with R454.** The Subcool Monitor Module is optional. It is used to read the Liquid Line Temperature sensors to calculate the subcooling. One or two subcool monitor modules can be connected depending on the size of the system.	
ASM07718	**RM454 Controller – V Module (RM454-V)** **Used on units with R454.** The RM454-V does not operate as a stand-alone controller and must be used with a VCCX-454 Controller. Up to 4 RM454-V's can be connected. The RM454-V is used with VFD compressors with Independent Electronic Expansion Valve (EXV) to control and monitor the refrigeration circuits of the AAON unit. There are 2 E-BUS ports for communication with the VCCX-454 and other E-BUS devices. The RM454-V provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary.	

Part Number	Unit Controllers and Modules Description	
ASM07717	RM454 Controller – Z Module (RM454-Z) **Used on units with R454.** The RM454-Z does not operate as a stand-alone controller and must be used with a VCCX-454 Controller. The RM454-Z monitors and controls one refrigeration circuit. The module is designed for R454 Refrigerant. The RM454-Z is used on RZ units and RN-E with Danfoss compressors. 3 or 6 RM454-Z's can be connected depending on the size of the system. There are 2 E-BUS ports for communication with the VCCX-454 and other E-BUS devices. The RM454-Z provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary.	
ASM07687	RSM Module – DEV1 **Used on units with R410-A** The Refrigerant System Module for VFD compressors with Independent Electronic Expansion Valve (EXV) monitors and controls the refrigeration circuits of the AAON unit. It connects to DMQ Universal SuperHeat Controller (USHC) or Sporlan S3C Superheat Controller and is used in conjunction with VCCX2 and VCCX-IP series controllers.	
ASM02201	Refrigerant System Module for Digital Compressors (RSMD) **Used on units with R410-A** The RSMD does not stand alone and must be used with VCCX2 and VCCX-IP series controllers. The RSMD monitors and controls one or two refrigeration circuits of the HVAC unit. The module is designed for R410-A refrigerant. Up to 4 RSMD's can be connected. There are 2 E-BUS ports for communication with the VCCX2 and VCCX-IP series controllers and other E-BUS devices. The RSMD provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary. RSMD's are required in applications with digital compressors, head pressure control, dehumidification, or heat pump.	
ASM01893	Refrigerant System Module for Digital Compressors – R22 (RSMD-R22) **Used on units with R22 refrigerant** The RSMD does not stand alone and must be used with VCCX2 and VCCX-IP series controllers. The RSMD monitors and controls one or two refrigeration circuits of the HVAC unit. The module is designed for R22 refrigerant. Up to 4 RSMD's can be connected. There are 2 E-BUS ports for communication with the VCCX2 and other E-BUS devices. The RSMD provides a 2 x 8 LCD character display and four buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary. RSMD's are required in applications with digital compressors, head pressure control, dehumidification, or heat pump.	

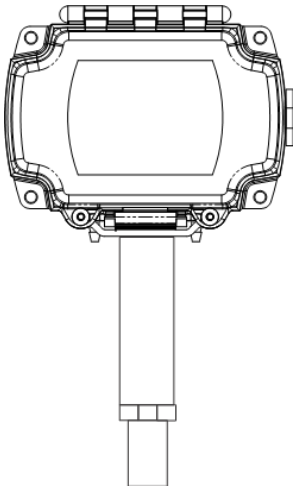
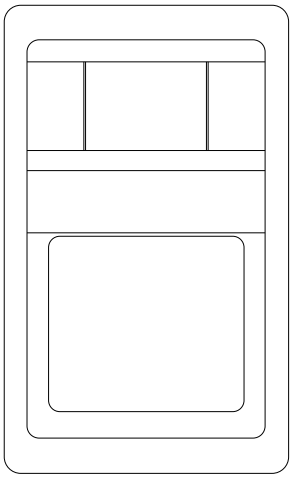
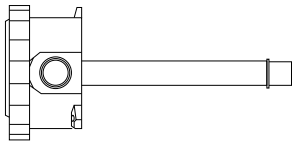
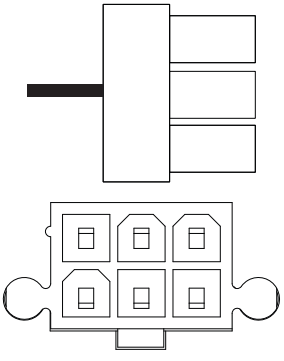
Part Number	Unit Controllers and Modules Description	
ASM06852	RSMD-A Module **Used on units with R410-A** The RSMD-A does not operate as a standalone controller and must be used with VCCX2 and VCCX-IP series controllers. The RSMD-A monitors and controls one refrigeration circuit with up to two compressors and one condenser. Up to 2 RSMD-A's can be connected depending on the size of the system. There are 2 E-BUS ports for communication with VCCX2 and VCCX-IP series controllers and other E-BUS devices. The RSMD-A provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary.	
ASM06709	Refrigerant System Module for Digital Compressors – CM Cond Fan **Used on units with R410-A** The Refrigerant System Module for Digital Compressors with Condenser Fans with Microchannel Coils (RSMD-CM) can monitor and control up to two compressors and condensers. The compressors can be in either a tandem or non-tandem configuration. The module is designed for R410-A refrigerant.	
ASM02869	Refrigerant System Module for Digital Compressors-with 2nd circuit reheat (RSMD2R) **Used on units with R410-A** The RSMD2R can monitor and control up to two compressors and condensers. The compressors can only be in non-tandem configuration. The module is designed for R410-A refrigerant.	
ASM01686	Refrigerant System Module for VFD Compressors (RSMV) **Used on units with R410-A** Includes: E-BUS cable The RSMV does not stand alone and must be used with VCCX2 and VCCX-IP series controllers. The RSMV monitors and controls one tandem refrigeration circuit of the HVAC unit. The module is designed for R410-A refrigerant. Up to 4 RSMV's can be connected. There are two E-BUS ports for communication with VCCX2 and VCCX-IP series controllers and other E- BUS devices. The RSMV provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary. RSMV's are required in applications with VFD compressors, head pressure control, dehumidification, or heat pump.	
ASM02627	RSMV Controller without EXV Control **Used on units with R410-A** The Refrigerant System Module for VFD compressors without EXV Superheat Control monitors and controls two refrigeration circuits of the AAON unit. It is used with VCCX2 and VCCX-IP series controllers.	

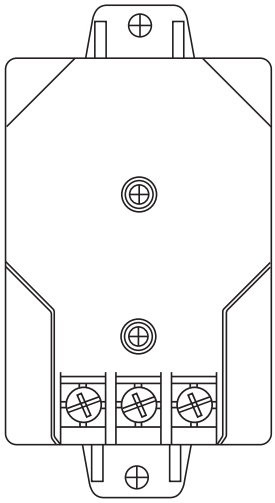
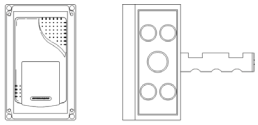
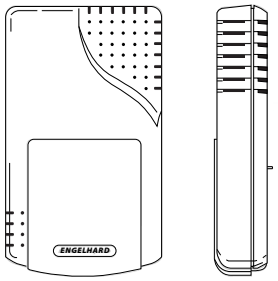
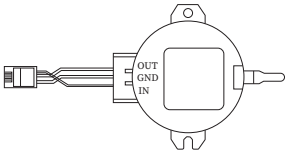
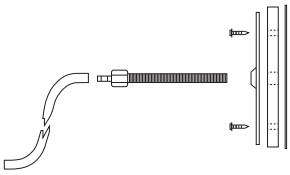
Part Number	Unit Controllers and Modules Description	
ASM01693	Refrigerant System Module for VFD Compressors - Heat Pump (RSMV-HP) **Used on units with R410-A** The RSMV-HP does not stand alone and must be used with VCCX2 and VCCX-IP series controllers. The RSMV-HP monitors and controls one tandem refrigeration circuit of the HVAC heat pump unit. The module is designed for R410-A refrigerant. Up to 4 RSMV-HP's can be connected. There are 2 E-BUS ports for communication with VCCX2 and VCCX-IP series controllers and other E-BUS devices. The RSMV-HP provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary. RSMV-HP's are required in applications with VFD compressors, head pressure control, dehumidification, or heat pump.	
ASM02786	RSMVHPQ Controller **Used on units with R410-A** The Refrigerant System Module for VFD compressors with DMQ Superheat Control monitors and controls two refrigeration circuits of the AAON unit. It is used in conjunction with VCCX2 and VCCX-IP series controllers. It connects to the DMQ Universal SuperHeat Controller or Sporlan S3C Superheat controller.	
ASM02293	RSMVQ **Used on units with R410-A** The Refrigerant System Module for VFD compressors with the DMQ Superheat Control monitors and controls two refrigeration's circuits of the AAON unit. It is used in conjunction with VCCX2 and VCCX-IP series controllers.	
ASM02652	RSMVQ2R **Used on units with R410-A** The Refrigerant System Module (RSM) for VFD compressors with DMQ® Superheat Control and second circuit reheat (RSMVQ2R) monitors and controls two refrigeration circuits of the AAON unit. It is used in conjunction with VCCX2 and VCCX-IP series controllers.	
ASM02351	RSMZ Controller Module **Used on units with R410-A** The RSMZ does not operate as a stand-alone controller and must be used with VCCX2 and VCCX-IP series controllers. The RSMZ monitors and controls one refrigeration circuit. The RSMZ is used on RZ units and RN-E ones with Danfoss compressors. 3 or 6 RSMZ's can be connected depending on the size of the system. There are 2 E-BUS ports for communication with VCCX2 and VCCX-IP series controllers and other E-BUS devices. The RSMZ provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary.	

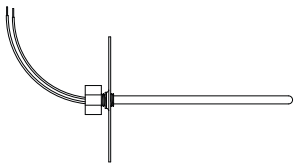
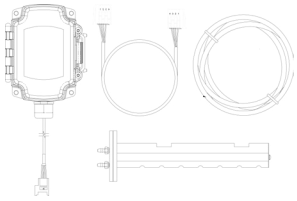
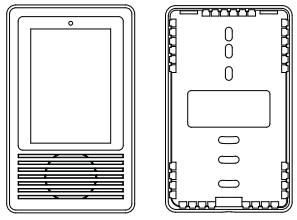
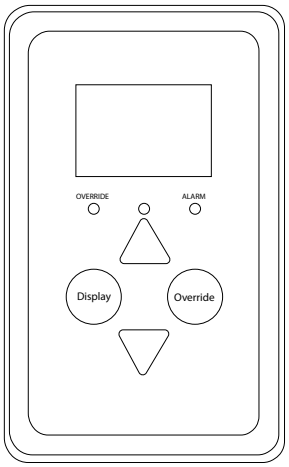
Part Number	Unit Controllers and Modules Description	
ASM07491	**RSMZ Controller-2500** **Used on units with R410-A** The RSMZ does not operate as a stand-alone controller and must be used with VCCX2 and VCCX-IP series controllers. The RSMZ monitors and controls one refrigeration circuit. The RSMZ is used on RZ units and RN-E with Danfoss compressors with specifically the 2500 Step Sporlan Valves. 3 or 6 RSMZ's can be connected depending on the size of the system. There are 2 E-BUS ports for communication used with VCCX2 and VCCX-IP series controllers and other E-BUS devices. The RSMZ provides a 2 x 8 LCD character display and 4 buttons that allow for status of system operation, system setpoints, system configurations, sensors, and alarms and to change the module's address, if necessary.	
ASM02350	**Subcool Monitor Module** The Subcool Monitor Module is optional. It is used to read the Liquid Line Temperature sensors to calculate the subcooling. One or two subcool monitor controller modules can be connected depending on the size of the system.	
ASM07503	**VCCX-454** **Used on units with R454.** Used for Constant Volume, VAV, Single Zone VAV, MUA, Space Temperature Control of High Percentage of Outdoor Air and DOAS Applications. Air to Air and Water Source Heat Pump operations can also be configured. It also has on board BACnet® MS/TP and BACnet® IP. The Controller contains 2 x 8 LCD Character display and four buttons that allow for status and alarm display as well as BACnet® configuration	
ASM01691	**VCC-X EM1 Expansion Module** Features • Title 24 (FDD) Economizer Feedback • Modulating Chilled Water control • 3 analog outputs for controlling a Return Air Bypass Damper and a Return Damper in Return Air Bypass applications • 5 configurable relay outputs • Return/Exhaust fan proof of flow It connects with an included E-BUS cable to the VCCX series controller	

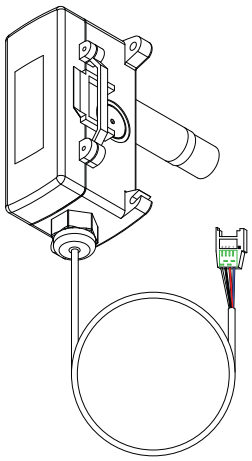
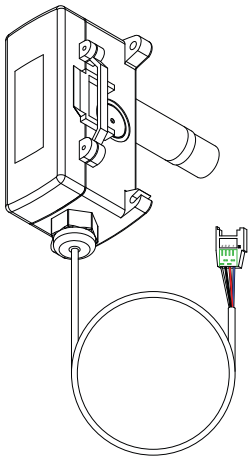
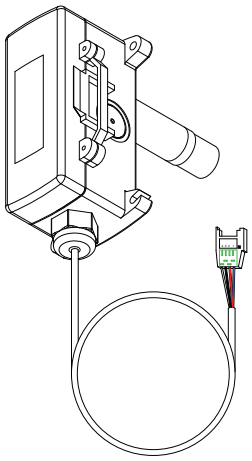
Part Number	Unit Controllers and Modules	
	Description	
ASM07424	VCCX-IP Controller **Used on units with R410-A** Used for Constant Volume, VAV, Single Zone VAV, MUA, Space Temperature Control of High Percentage Outdoor Air, and DOAS applications. Air to Air and Water Source Heat Pump operations can be configured. It also has on-board BACnet® MS/TP and BACnet® IP. The Controller contains a 2 x 8 LCD character display and four buttons that allow for status and alarm display as well as BACnet® configuration.	

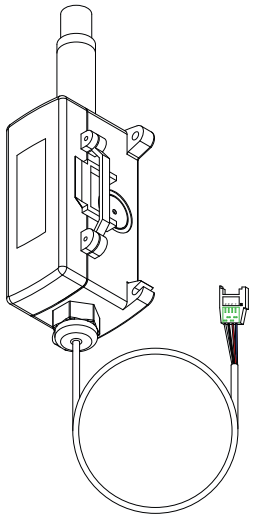
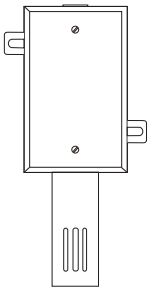
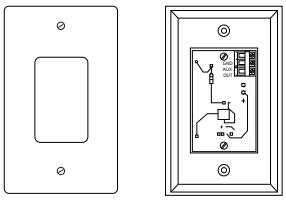
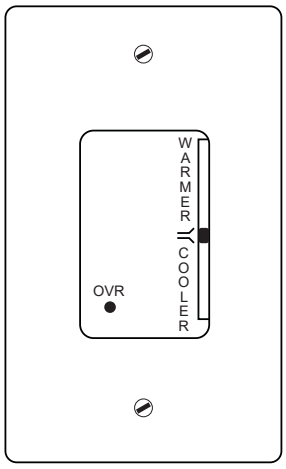
Sensors

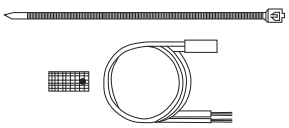
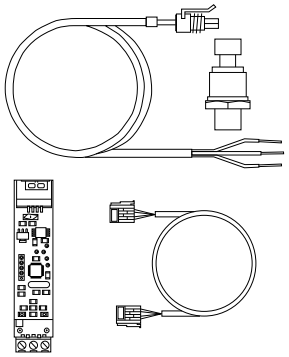
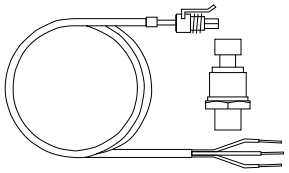
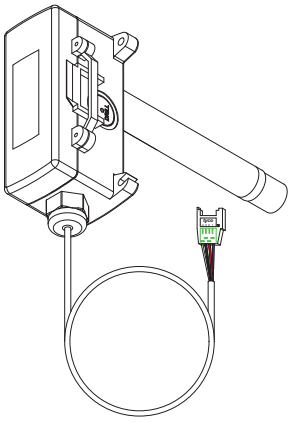
Part Number	Sensors Description	
ASM01647	**3% Outdoor Air Relative Humidity Sensor 0-5 VDC Output** 0-5 VDC, Outdoor Air Relative Humidity Transmitter mounted in a weatherproof, enclosure only. Used for outdoor air humidity sensing applications. Can be used with GPC-XP and BGC Controller.	
ASM01646	**3% Room Mounted Relative Humidity Sensor 0-5 VDC Output** The sensor is 0-5 VDC, Room Mounted Relative Humidity Sensor only Used for room air humidity sensing applications. Can be used with GPC-XP and BGC Controller.	
ASM01835	**3% Return Air Relative Humidity Sensor 0-5 VDC Output** 0-5 VDC, Return Air Relative Humidity Sensor mounted in a weatherproof, handy box only. Used for return air humidity sensing applications. Can be used with GPC-XP and BGC Controller.	
G145190	**A2L Leak Detection Sensor Plug** Includes: 1 Sensor Plug. Used on the A2L Mitigation Board to fill an open A2L Leak Detection Sensor Port.	

Part Number	Sensors	
	Description	
ASM01832	**Building Static Pressure Sensor** The Building Static Pressure Sensor is -0.25 to +0.25" W.C., 0-5 VDC, and requires a 24 VAC/VDC power supply. Connects via 3-conductor field wiring.	
ASM02236	**CO_2 Sensor – Return Air** Includes: 20-30 VAC Power Input, 0-10 VDC or 4-20 mA output, and CO_2 Sensor for return air duct mounting with aspiration box. Accuracy of 20 PPM at 78°F. Can be used with GPC-XP and BGC Controller.	
ASM02237	**CO_2 Sensor – Wall Mount** Includes: 20-30 VAC Power Input, 0-10 VDC or 4-20 mA output, and CO_2 Sensor for wall mounting. Accuracy of 20 PPM at 78°F. Can be used with GPC-XP and BGC Controller.	
ASM01640	**Duct Static Pressure Sensor** The Duct Static Pressure Sensor is 0-5 inch W.C., 0-5 VDC and is connected to controller via integral "RJ" connector.	
ASM02242	**Duct Static Pressure Pick-up Tube Kit** Includes: Duct Static Pressure Pick-up Tube, 1 ft. length of FRP tubing, gasketed mounting bracket, and screws. Used with Duct Static Pressure Sensor.	

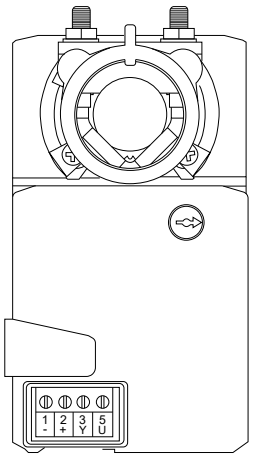
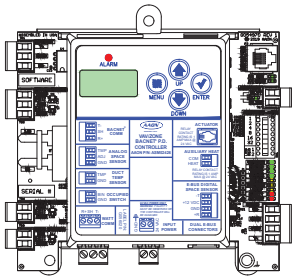
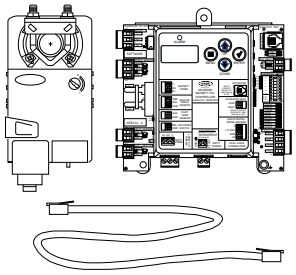
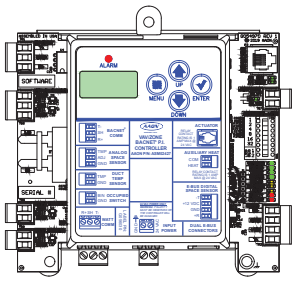
Part Number	Sensors Description	
G051240	**Duct Temperature Sensor – 6 inch Duct Temperature Sensor** Includes: Mounting hardware 10k Ohm type III thermistor. Used for supply or return air temperature sensing applications.	
G051250	**Duct Temperature Sensor – 12 inch Duct Temperature Sensor** Includes: Mounting hardware 10k Ohm type III thermistor. Used for supply or return air temperature sensing applications.	
ASM01831	**E-BUS CO_2 Sensor – Duct Mounted with Remote Pickup Tube** Includes: Integral Aspiration Box, Airflow Pickup Tube, 10 ft. of ¼ inch tubing, and 10 ft. E-BUS cable. Used with the VCB-X and newer controllers for Return Air CO_2 sensing applications.	
ASM01829	**E-BUS CO_2 Sensor – Wall Mounted** Used with the VCB-X and newer controllers for CO_2 sensing applications where wall mounting in the space is desired. Connects to controller with E-BUS cable of required length. Cable sold separately. See page 34 for available cable lengths.	
ASM01820	**E-BUS Digital Room Temperature & Humidity Sensor** E-BUS communicating Room Temperature and Humidity Sensor with LCD for display of certain status and setpoints and buttons for setpoint adjustment and override.	
ASM02221	**E-BUS Digital Room Temperature & Humidity Sensor (No LCD Display)** The E-BUS Digital Room Temp & Humidity Sensor without display has no LCD Display or buttons. All models are used with the VCB-X and newer controllers and require an E-BUS cable, sold separately. See page 34 for available cable lengths.	
ASM07527	**E-BUS Remote Space Temperature & Humidity (with LCD Display)** E-BUS communicating display of the current space temperature that the VCCX is configured to read. This display has no sensing functionality. Equipped with an LCD display with buttons for override and setpoint adjust.	

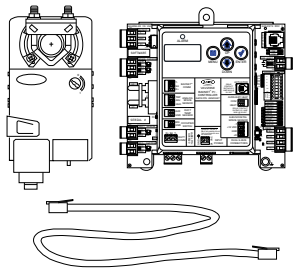
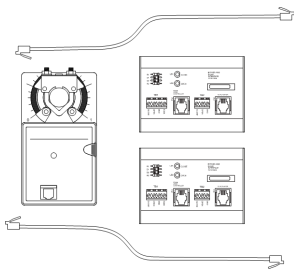
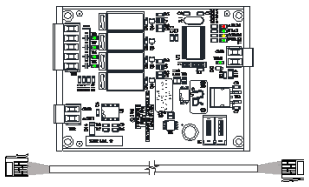
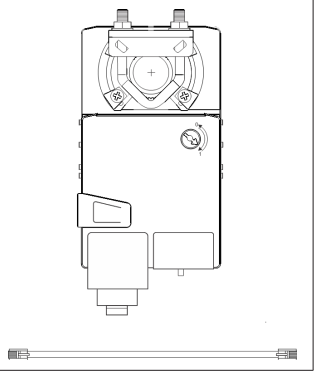
Part Number	Sensors Description	
ASM01836	**E-BUS Horizontal Outdoor Air Temperature & Humidity Sensor** Includes: Plastic weatherproof enclosure with attached 3 ft. pigtail with female E-BUS connector. 25 ft. cable sold separately. If a longer E-BUS cable is required, it must be ordered separately. See page 34 for available cable lengths. Connects to VCB-X and newer controllers or the E-BUS Adapter Hub.	
ASM02352	**E-BUS Supply Air Temperature and Humidity Sensor** Includes: Plastic weatherproof enclosure with attached 3 ft. pigtail with female E-BUS connector. E-BUS cable sold separately. See page 34 for available cable lengths. Connects to VCB-X and newer controllers or the E-BUS Adapter Hub.	
ASM01840	**E-BUS Return Air Temperature & Humidity Sensor** Includes: Plastic weatherproof enclosure with attached 3 ft. pigtail with female E-BUS connector and an 50 ft. E-BUS cable. If a longer E-BUS cable is required, it must be ordered separately. See page 34 for available cable lengths. Connects to VCB-X and newer controllers or the E-BUS Adapter Hub.	

Part Number	Sensors Description	
ASM01838	**E-BUS Vertical Outdoor Air Temperature & Humidity Sensor** Includes: Plastic weatherproof enclosure with attached 3 ft. pigtail with female E-BUS connector. If a longer E-BUS cable is required, it must be ordered separately. See page 34 for available cable lengths. Connects to VCB-X and newer controllers or the E-BUS Adapter Hub.	
G042230	**Outside Air Sensor** Standard Outside Air Sensor. Connects to controller via 2-conductor field wiring. 10K Ohm type III thermistor.	
ASM02227	**Standard Room Sensor – Plain** Standard Room Sensor. Connects to controller via 2-conductor field wiring. 10K Ohm type III thermistor.	
ASM01643	**Standard Room Sensor with Override and Slide Adjust** Standard Room Sensor with Override Button and Slide Adjust. Connects to controller via 3-conductor field wiring. 10K Ohm type III thermistor.	

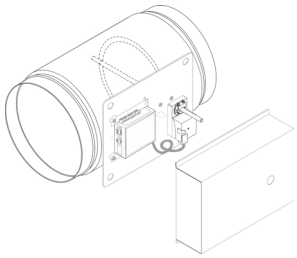
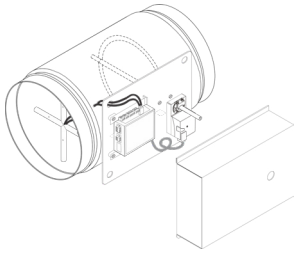
Part Number	Sensors Description	
ASM01624	**Strap-on Temperature Sensor Kit** Includes: 10k Ohm Type III thermistor, Strap-on Temperature Sensor, two wire thermal mastic, and plastic mounting strap. Used for water temperature sensing applications.	
ASM01845	**VCB-X Suction Pressure Transducer Kit with E-BUS Adapter** Includes: Suction Pressure Transducer, modular cable with a modular connector on one end and bare stripped wires on the opposite end, E-BUS Adapter, and 3 ft. E-BUS cable. The Suction Pressure Transducer is 0-250 psi and is used to monitor refrigerant suction line pressure of a DX cooling coil. The Suction Pressure Transducer has a ¼ inch SAE flare connection for connection to the refrigerant suction line.	
ASM02771	**VCCX2 Suction Pressure Transducer** Includes: Modular cable The cable is supplied with a modular connector on one end and bare stripped wires on the opposite end. The Suction Pressure Transducer is 0-250 psi and is used to monitor refrigerant suction line pressure of a DX cooling coil. The Suction Pressure Transducer has a ¼ inch SAE flare connection for connection to the refrigerant suction line.	
ASM07413	**Supply Air Temperature and Humidity Sensor** E-BUS communicating Supply Air Temperature & Humidity Sensor. Connects to a VCCX controller anywhere on the E-BUS daisy chain. Required for the DOAS sequence of operation. Includes: Plastic enclosure with attached 3 ft. pigtail with female E-BUS connector. Required E-BUS cable is sold separately.	

Zone Controllers and Modules

Part Number	Zone Controllers and Modules Description	
G045890	**Bypass Damper Actuator** Used for control of bypass damper to maintain static pressure in a VAV/Zone system. Can be field or factory mounted. Accepts a 2-10 VDC signal.	
ASM02426	**Pressure Dependent VAV/Zone BACnet® Controller** The controller has terminal block connections to connect a transformer and to daisy-chain communications between VAV/Zone BACnet® Controllers using 2-conductor shielded communication wire. Note: Discount when ordering a new system. Contact Parkville.sales@aaon.com for details.	
ASM02661	**Pressure Dependent VAV/Zone BACnet® Controller Package** Includes: Pressure Dependent VAV/Zone BACnet® Controller and Zone Damper Actuator with 18in modular cable. The Pressure Dependent VAV/Zone BACnet® Controller is designed for pressure dependent VAV box and zone damper applications. One stage of auxiliary heat is provided on the controller. The controller has terminal block connections to connect a transformer and to daisy-chain communications between VAV/Zone controllers using a 2-conductor shielded communication wire. The VAV/Zone Controller Expansion Module (sold separately) is also available for applications using fan terminals and/or more than one stage of electrical heat, SCR electrical heat, or modulating HW heat. Note: Discount when ordering a new system. Contact parkville.sales@aaon.com for details.	
ASM02427	**Pressure Independent VAV/Zone BACnet® Controller** The controller has terminal block connections to connect a transformer and to daisy-chain communications between VAV/Zone BACnet® Controllers using 2-conductor shielded communication wire. Note: Discount when ordering a new system. Contact Parkville.sales@aaon.com for details.	

Part Number	Zone Controllers and Modules	
	Description	
ASM02662	**Pressure Independent VAV/Zone BACnet® Controller Package** Includes: Pressure Independent VAV/Zone BACnet® Controller and Zone Damper Actuator with 18 inch modular cable. The Pressure Independent VAV/Zone BACnet® Controller is designed for pressure independent VAV box and zone damper applications. It is supplied with an integral airflow sensor. One stage of auxiliary heat is provided on the controller. The controller has terminal block connections to connect atransformer and to daisy-chain communications between VAV/Zone Controllers using 2-conductor shielded communication wire. The VAV/Zone Controller Expansion Module (sold separately) is also available for applications using fan terminals and/or more than one stage of electrical heat, SCR electric heat, or modulating HW heat. Note: Discount when ordering a new system. Contact parkville.sales@aaon.com for details.	
ASM01851	**Slaved VAV/Zone Damper Kit** Includes: Damper Actuator, two Interface Boards and modular cables for controller to actuator connection. Used to operate two actuators simultaneously. Refer to the VAV/Zone Controller technical guide for wiring instructions.	
ASM01629	**VAV/Zone Controller Expansion Module Includes: 18 inch E-BUS cable** The Expansion Module is used in conjunction with the VAV/Zone BACnet® Controllers and allows fan and heat control of terminal units with up to three stages of electric heat, SCR electric heat, or modulating hot water heat.	
ASM01846	**Zone Damper Actuator** Includes: 18 inch modular cable. Generally used as a replacement zone actuator. Will connect with the VAV/Zone controllers via modular cable.	

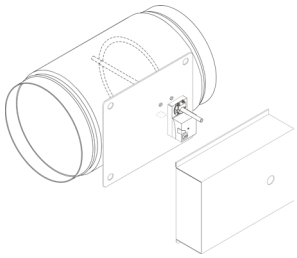
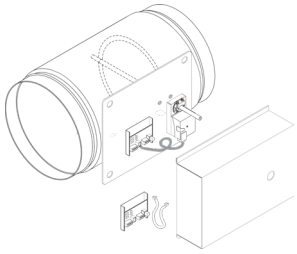
Zone Dampers

Part Number	Zone Dampers	
	Description	
ASM02605 (6" Diameter) ASM02606 (8" Diameter) ASM02607 (10" Diameter) ASM02608 (12" Diameter) ASM02609 (14" Diameter) ASM02610 (16" Diameter)	**Pressure Dependent BACnet® Round Zone Damper Assembly** Includes: Pressure Dependent VAV/Zone BACnet® Controller and actuator with modular cable mounted in a sheet metal control enclosure on a round damper assembly. One stage of on/off heat is available on the controller. For fan control or other heat options, see the ASM01629 Module. This controller uses the Standard Room Sensor or the E-BUS Digital Room Temperature Sensor.	
ASM02611 (6" Diameter) ASM02612 (8" Diameter) ASM02613 (10" Diameter) ASM02614 (12" Diameter) ASM02615 (14" Diameter) ASM02616 (16" Diameter)	**Pressure Independent BACnet® Round Zone Damper Assembly** Includes: Pressure Independent VAV/Zone BACnet® Controller and actuator with modular cable mounted in a sheet metal control enclosure on a round damper assembly. One stage of on/off heat is available on the controller. For fan control or other heat options, see the ASM01629 Module. This controller uses the Standard Room Sensor or the E-BUS Digital Room Temperature Sensor.	

NOTES:

All round dampers are non-returnable

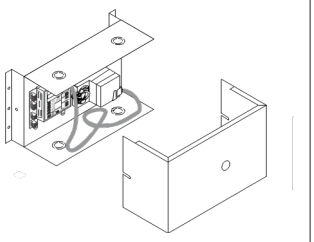
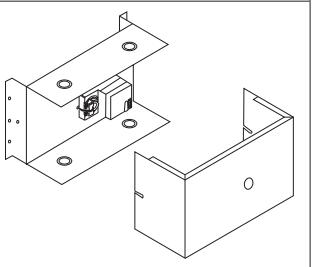
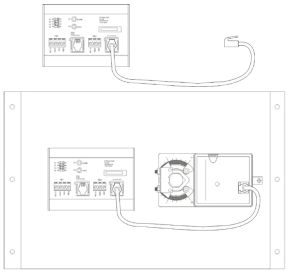
For damper sizing information, see "**Sizing of Zone Dampers" on page 48**.

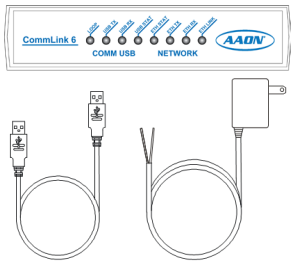
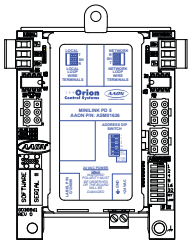
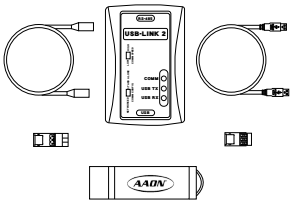
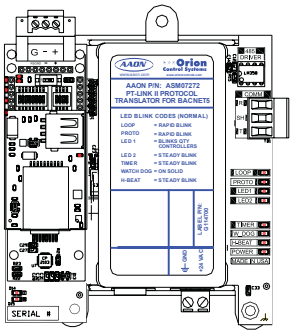
Part Number	Zone Dampers	
	Description	
ASM01928 (10" Diameter) ASM01929 (12" Diameter) ASM01930 (14" Diameter) ASM01931 (16" Diameter)	**Round Bypass Damper Assembly** Includes: Modulating damper actuator, mounted in a sheet metal control enclosure on a round damper assembly.	
ASM01932 (6" Diameter) ASM01933 (8" Diameter) ASM01934 (10" Diameter) ASM01935 (12" Diameter) ASM01936 (14" Diameter) ASM01937 (16" Diameter)	**Pressure Dependent Round Slaved Zone Damper Assembly** Includes: Damper Actuator, Slave Interface Card, modular cables for controller to interface card connection, and Interface card to actuator connection, mounted in a sheet metal control enclosure on a round damper assembly. Also includes a second Slave Interface Card and modular cables shipped loose for field connection to master zone controller.	

NOTES:

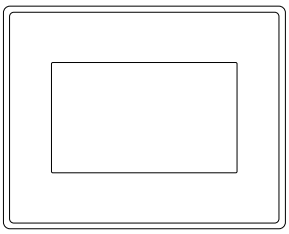
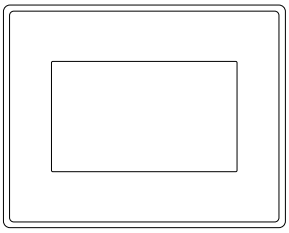
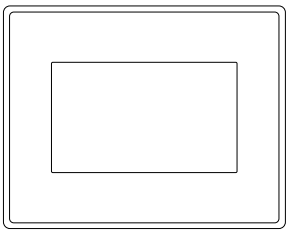
All round dampers are non-returnable

For damper sizing information, see "**Sizing of Zone Dampers" on page 48**.

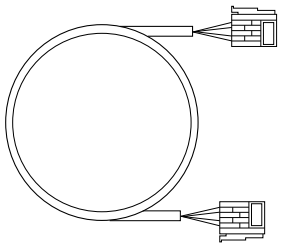
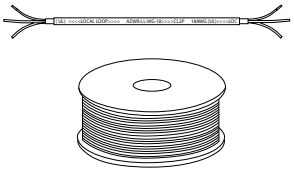
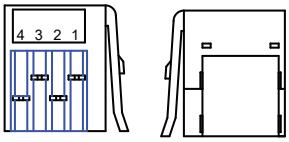
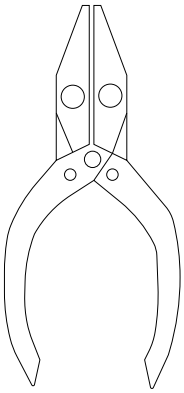
Part Number	Zone Dampers	
	Description	
ASM02653	**Pressure Dependent BACnet® Rectangular Damper Kit** Includes: Pressure Dependent VAV/Zone BACnet® Controller, actuator and 18 inch long modular cable all mounted in a sheet metal enclosure. One stage of on/off heat is available on the controller. for fan control or other heat options, see the ASM01629 Module. This controller uses the Standard Room Sensor or the E-BUS Digital Room Temperature Sensor.	
ASM02338	**Bypass Rectangular Damper Kit** Includes: Modulating damper actuator, factory mounted in a sheet metal enclosure. Used when a rectangular damper is to be used as a bypass damper for a zoning system.	
ASM02252	**Slaved VAV/Zone Rectangular Damper Kit** Includes: Damper Actuator, two Interface Boards and modular cables for controller to actuator connection. Mounted in a metal enclosure. Used to operate two actuators simultaneously. Refer to the VAV/Zone Controller technical guide for wiring instructions.	

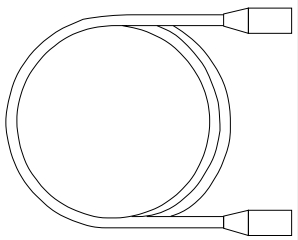
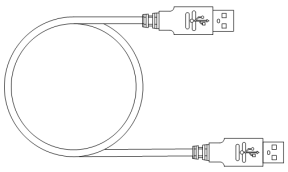
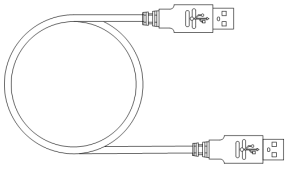
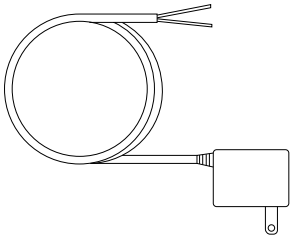
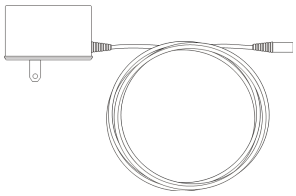
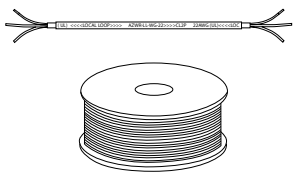
Part Number	Communication Devices Description	
ASM07420	**CommLink 6** Includes: CommLink 6, 6 ft. long USB cable, and 120/24 VAC power supply. The CommLink 6 connects to your control system using a USB computer connection to provide direct communication with the control system from a computer with the Prism 2 software installed. The CommLink 6 has a built-in IP Module which provides an Ethernet connection to the controls system form any computer with Prism 2 software that is connected to a building's LAN. It can also be configured to allow access to the control system from the Internet through your LAN (if your Ethernet firewall is configured for this option).	
ASM01626	**MiniLink PD 5** Used with all Orion controllers to provide network communications, zone voting, alarming, and tenant logging capabilities. A MiniLink PD 5 is required on each loop of a Networked system.	
ASM02244	**USB-Link 2 Kit** Includes: USB-Link 2, USB cable, modular connection cable, two mini-DIN to terminal adapters, and Prism 2 software and manual on USB flash drive. The USB-Link 2 is a pocket-sized communications interface used to connect a laptop computer to your controls system for configuration and monitoring purposes. Requires laptop with Prism 2 software installed.	
ASM07272	**PT-Link II BACnet 5** Includes: PT-Link II board complete with one communication protocol module and a 10 ft. crossover cable. Supplied mounted in plastic enclosure. The AAON PT-Link II (Protocol Translator) is used to provide bi- directional translation of data and information between the Orion System controllers and BACnet® 4 control protocol.	

User Interface

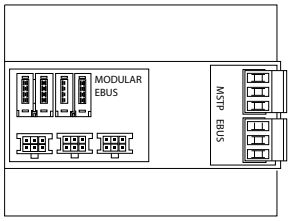
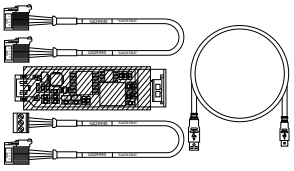
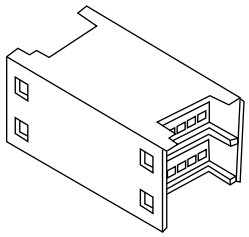
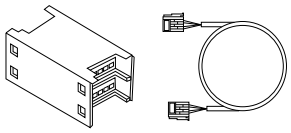
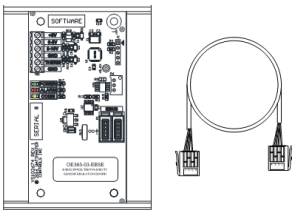
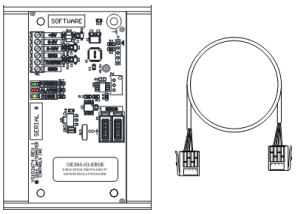
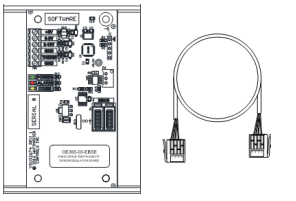
Part Number	User Interfaces	
	Description	
ASM09214	**System Manager Touch Screen Limited Access** The SMTS-L is an end-user interface only and allows the end user to view status points, change Space Temperature Setpoint and schedules, and view certain alarms of compatible controllers on the Orion Controls System. The SMTS-L is furnished with hardware for flush mounting into hollow drywall or surface mounting on concrete brick or plaster surfaces. Compatible controllers: VCCX2, VCCX-IP, VCB-X, VCM-X, VAV/ZoneControllers	
ASM01897	**System Manager TS II** The SMTS II is an end-user interface only and allows the end user to view status and adjust setpoints of any compatible controller on the Orion controls system. The SMTS II is furnished with hardware for flush mounting into hollow drywall or surface mounting on concrete brick or plaster surfaces. Compatible controllers: VCB-X, VCM-X E-BUS and VCM Controllers	
ASM01898	**System Manager TS II for the GPC-XP** This System Manager is designed specifically for the GPC-XP. It allows the end user to view status and adjust setpoints. The package includes hardware for flush mounting into hollow drywall or surface mounting on concrete brick or plaster surfaces.	

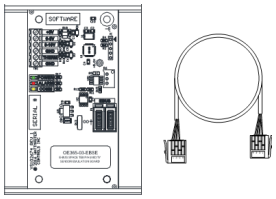
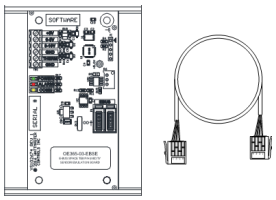
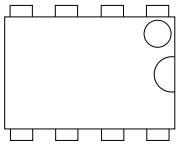
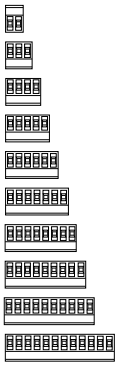
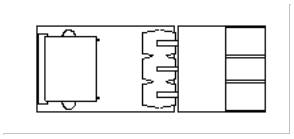
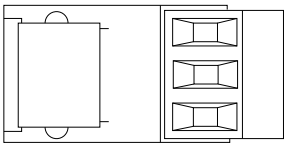
User Interface

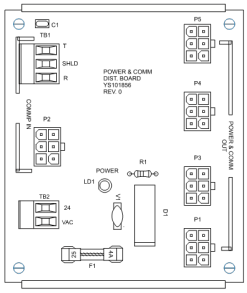
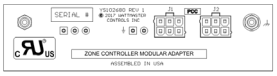
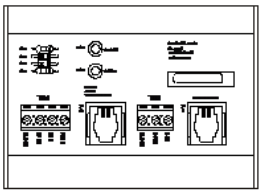
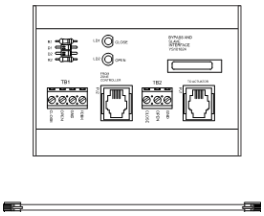
Part Number	Cables Description	
G029440 (1.5ft.) G012870 (3 ft.) G029460 (10 ft.) G045270 (25 ft.) G029510 (50 ft.) G029530 (75 ft.) G029450 (100 ft.) G029470 (150 ft.) V36590 (250 ft.)	**E-BUS Cable Assembly** The E-BUS cables are used to connect the VCB-X and newer controllers to their associated expansion modules and E-BUS sensors. Premade E-BUS cables are available in the standard lengths shown.	
G018870	**Bulk E-BUS Cable** Includes: 1000 ft. spool Allows field fabrication of E-BUS cables using G018890 E-BUS connectors. The E-BUS connectors can be crimped to the E-BUS cable.	
G018890	**E-BUS Bulk Connector** Crimps to E-BUS spool cable. Note: Must be crimped using G034180 crimp tool or equivalent 3M E-9E E-BUS crimp tool.	
G034180	**E-BUS Crimp Tool** Parallel Jaw Pliers for crimping G018890 E-BUS connectors to G018870 E-BUS cable.	
R69330	**Modular Cable for Actuator to VAV/Zone Controller** Used with the ASM01846 Actuator to a VAV/Zone Controller. Also used to connect expansion base boards to each other and/or to the VCM Controller. Includes: 18 inch modular cable only.	
R88450	**Modular Cable for Actuator to VAV/Zone Controller** Used with the ASM01846 Actuator to a VAV/Zone Controller. Also used to connect expansion base boards to each other and/or to the VCM Controller. Includes: 2 ft. modular cable only.	

Part Number	Cables	
	Description	
G030890	**Modular Cable for Modular Service Tool and USB-Link** Includes: 6 ft. modular cable with mini DIN connectors on both ends for Modular Service Tool and USB-Link.	
G030980	**USB Cable for USB-Link** Includes: 2 ft. USB cable.	
G030990	**USB Cable for CommLink III, IV, 5, 6, or Remote Link II** Includes: 6 ft. USB cable used with CommLink III or IV or Remote Link II.	
G034540	**Power Supply for CommLink II, III, IV, 5, or 6** Includes: Plug in 120/24 VAC power supply for CommLink II, III, 5, or 6.	
G034560	**Power Supply for Modular Service Tool** Includes: Plug-in 120 VAC / 5 VDC power supply for Modular Service Tool.	
G075510	**Wire 22AWG BACnet® Comm Cable** Includes: 1,000 ft. spool, 22 AWG, plenum rated, 2-conductor with aluminum foil shield and drain wire. UL NEC rating CL2P/CMP.	

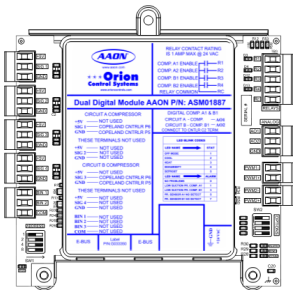
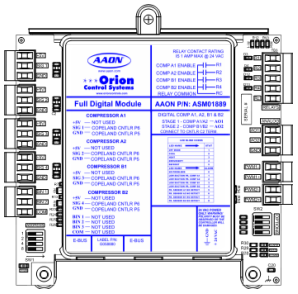
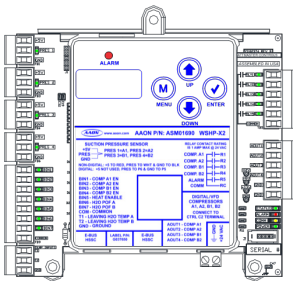
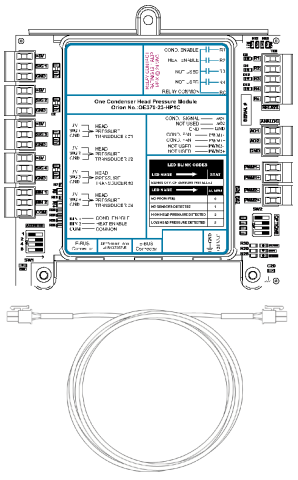
Accessories

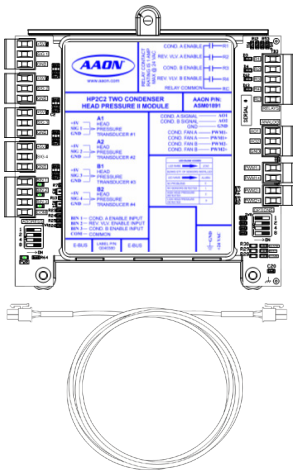
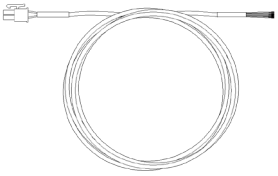
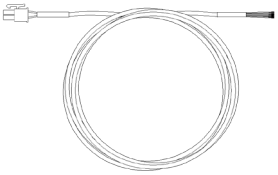
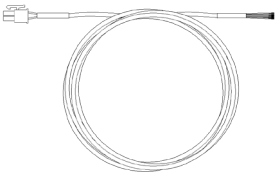
Part Number	Accessories Description	
ASM01878	**E-BUS Adapter Board** The E-BUS Adapter Board is used for connecting approved EBTRON® or Paragon Airflow Measurement Digital Transmitters to the VCCX2 and VCB-X controllers. The E- BUS Adapter Board connects to the VCB-X and newer controllers with a E-BUS cable, sold separately.	
ASM01979	**E-BUS to USB Mini Adapter Board Kit** Includes: E-BUS to USB Mini Adapter Board, 6 ft. USB A to USB Mini-B mini cable, a 1.5 ft. E-BUS to three pin cable, and a 1.5 ft. E-BUS to E-BUS cable. The E-BUS to USB Mini Adapter Board is an interface used to update E-BUS modules and controllers as well as the PT-Links using Prism 2 software.	
G033970	**E-BUS Adapter Hub** The E-BUS Adapter Hub provides additional E-BUS ports when needed to add more E-BUS devices. An E-BUS cable is required to connect the additional devices.	
ASM01635	**E-BUS Adapter Hub Kit** Includes: E-BUS Adapter Hub and 1.5 ft. E-BUS cable. The E-BUS Adapter Hub provides additional E-BUS ports when needed to add more E-BUS devices. An additional E -BUS cable is required to connect the additional devices.	
ASM01696	**E-BUS Emulator Board - Space Temperature and Humidity** Includes: 1.5 ft. E-BUS cable. The E-BUS Emulator Board allows the use of third party analog sensors to emulate the E-BUS sensors. Both temperature and humidity sensors must be connected to the Emulator Board. Space temperature slide adjust and override button functions are not available when using the Emulator Board. See spec sheet for details of the type of sensors that can be used.	
ASM01697	**E-BUS Emulator Board - Outdoor Air Temperature and Humidity** Includes: 1.5 ft. E-BUS cable. The E-BUS Emulator Board allows the use of third party analog sensors to emulate the E-BUS sensors. Both temperature and humidity sensors must be connected to the Emulator Board. See spec sheet for details of the type of sensors that can be used.	
ASM01621	**E-BUS Emulator Board - Return Air Temperature and Humidity** Includes: 1.5 ft. E-BUS cable. The E-BUS Emulator Board allows the use of third party analog sensors to emulate the E-BUS sensors. Both temperature and humidity sensors must be connected to the Emulator Board. See spec sheet for details of the type of sensors that can be used.	

Part Number	Accessories Description	
ASM01622	**E-BUS Emulator Board - Space CO_2** Includes: 1.5 ft. E-BUS cable. The E-BUS Emulator Board allows the use of third party analog sensors to emulate the E-BUS sensors. See spec sheet for details of the type of sensors that can be used.	
ASM01623	**E-BUS Emulator Board - Return Air CO_2** Includes: 1.5 ft. E-BUS cable. The E-BUS Emulator Board allows the use of third party analog sensors to emulate the E-BUS sensors. See spec sheet for details of the type of sensors that can be used.	
ASM02215	**Communication Driver Chips – Fault Tolerant** Includes: 10 driver chips.	
ASM02261 ASM02262 ASM02263 ASM07430 ASM02268 ASM02265 ASM02269 ASM02266 ASM02267 ASM02264	**Pluggable Terminal Blocks (Screw Terminal Portion Only)** Each package includes 5 blocks. 2 Pole Terminal Block 3 Pole Terminal Block 4 Pole Terminal Block 5 Pole Terminal Block 6 Pole Terminal Block 7 Pole Terminal Block 8 Pole Terminal Block 9 Pole Terminal Block 10 Pole Terminal Block 12 Pole Terminal Block	
ASM01961	**Modular Service Tool Adapter** Used for Connecting Standard DIN Cable Supplied with Modular Service Tool to Controllers without DIN connectors. Used by unplugging the controller's communications terminal block and plugging into its terminal block socket. Does not provide for communications with other controllers on the loop. For temporary communication, port connection use only.	
ASM01963	**USB-Link 2 Adapter** Used for Connecting Standard DIN cable supplied with USB-Link 2 to controllers without DIN connectors. Used by connecting wire from the adapter's terminal block to the controller's or network device's communications terminal block. Provides for communications with all controllers on the loop. Can be left on loop as a permanent communications port connection.	
G029500	**E-BUS to HSS Replacement Cable for the HB Controller** Includes: E-BUS to HSS 3 ft. communication cable. The cable allows you to connect the HB Modular Service Tool to the HB Controller.	

Part Number	Accessories	
	Description	
ASM02224	**Power/Communication Board** Includes: Power/Communication Board mounted on snap track. Used to connect VAV/Zone Controllers to communication and power wiring. Branch devices plug into board using prefabricated Power/Communication Cable. Four branch connections available per Power/ Communication Board. Each of the four branch terminals can supply a maximum of six controllers. Total power load allowed per board is 100 VA at 24 VDC.	
ASM02188	**VAV/Zone Controller Power/Comm Cable (PCC) Modular Adapter** The VAV/Zone Controller Modular Adapter is used to provide two modular PCC connections to the VAV/Zone BACnet® Controllers so that these controllers can be used with PCC cables. The VAV/Zone Controller Modular Adapter is only available as a field-installable kit. It plugs into the three pin comm connector, and the two pin 24 VAC power connector that is on the VAV/Zone BACnet® Controller.	
ASM01956	**Slaved Zone Interface Card** Used to connect slaved zone actuators together. Interface card only. Generally used as a replacement.	
ASM01841	**Slaved Zone Interface Card with Cable** Includes: Modular cable. Used to connect slaved zone actuators together. Generally used as a replacement.	

Legacy Controls

Part Number	Legacy Controls Description	
ASM01887	**Dual Digital Compressor Module** Includes: Dual Digital Compressor Module in a plastic enclosure and modular cable. Used with the VCM-X Modular E-BUS Controller for AAON units with two digital scroll compressors and that are not water source heat pump units.	
ASM01889	**Full Digital Compressor Module** Includes: Full Digital Compressor Module in a plastic enclosure and modular cable. Used with the VCM-X Modular E-BUS Controller. For AAON units with multiple digital scroll compressors and that are not water source heat pump units.	
ASM01690	**Water Source Heat Pump X2 Module** Includes: Water Source Heat Pump X2 (WSHP-X2) Module in a plastic enclosure and E-BUS cable. Provides monitoring and compressor control for all AAON WSHP-X2 units. It can be used as a VCM-X-WSHP or SA E-BUS Controller communicating module or as a stand-alone module. The WSHP-X2 Module's water circuit configuration can be either single or dual. There are eight R-410A glycol configurations for the WSHP-X2 Module—0%-40% in increments of 5%.There are two refrigerant selections—R410-A refrigerant and R-22 refrigerant. If R-22 refrigerant is selected, the glycol will automatically default to 0%. The WSHP-X2 Module can also be used stand-alone. The Module contains a 2 x 8 LCD character display and four buttons that allow status display, setpoint changes, and configuration changes.	
ASM01890	**One Condenser Head Pressure Module** Includes: One Condenser Head Pressure Module in a plastic enclosure and E-BUS cable. This module is used on units with one condenser section and is able to monitor up to four individual head pressure transducers to control the condenser fan or water valve based on the highest of the four readings. It is also capable of monitoring a heating enable control signal (Heat Pump Mode) and forces the condenser signal to 100% while in this mode. This module can be used as a communicating module with a VCM-X Modular E-BUS controller or a VCM-X WSHP E-BUS Controller. It can also be used in a stand-alone application.	

Part Number	Legacy Controls	
	Description	
ASM01891	**Two Condenser Head Pressure II Module** Includes: E-BUS cable This module is used on units with two physically separate condenser sections and is able to monitor up to four individual head pressure transducers (two per section) to control the condenser fans or water valves based on the highest of the two readings for each section. It is also capable of monitoring a heating enable control signal (Heat Pump Mode) and forces the condenser signal to 100% while in this mode. This module can be used as a communicating module with a VCM-X Modular E-BUS Controller, VCM-X WSHP E-BUS Controller, or SA Controller. It can also be used in a stand-alone application.	
G030900 (12 ft.) G030920 (25 ft.) G030930 (50 ft.) G030940 (80 ft.) G030910 (120 ft.)	**Power/Comm Pigtail Cable Assembly** Includes: 16 AWG, plenum rated, 5-conductor with aluminum foil shield and drain wire. UL NEC rating CL2P/CMP. One end terminated with Molex® Mini-Fit Jr. Plug connector and other end has 5 stripped wire ends. Use to connect from devices, which have Molex® Mini-Fit Jr. Receptacle connectors to devices with wire terminal connections. Available in 12, 25, 50, 80 & 120 foot lengths.	
G043280 (3 ft.) G043270 (25 ft.) G043290 (40 (ft.) G043300 (80 ft.) G043260 (120 ft.)	**Power/Comm Cable Assembly** Includes: 16 AWG, plenum rated, five conductor with aluminum foil shield and drain wire. UL NEC rating CL2P/CMP. Both ends terminated with Molex® Mini-Fit Jr. Plug connectors. Available in 3, 25, 40, 80, and 120 ft. lengths.	
G043310 (10 ft.) G043320 (20 ft.)	**Power/Communication Extension Cable Assembly** Includes: 16 AWG, plenum rated, five conductor with aluminum foil shield and drain wire. UL NEC rating CL2P/CMP. One end terminated with Molex® Mini-Fit Jr. plug connector and other end terminated with Molex® Mini-Fit Jr. receptacle connector. Used to extend Power/Communication cable assembly length. Available in 10 and 20 ft. lengths.	

SIZING OF ZONE DAMPERS

Size all zone dampers based on the required zone CFM per design calculations. The recommended velocity for selecting Pressure Dependent Zone Dampers is 1000 to 1500 FPM. **Pressure Independent Zone Dampers must be selected below 1250 FPM for proper airflow sensor operation.** For quiet operation, it is recommended all zone dampers be selected for 1000 FPM or less velocity.

SIZING OF BYPASS DAMPERS

Size all bypass dampers to handle 60% to 70% of the HVAC units rated CFM. The recommended velocity for selecting bypass dampers is 1750 to 2250 FPM.

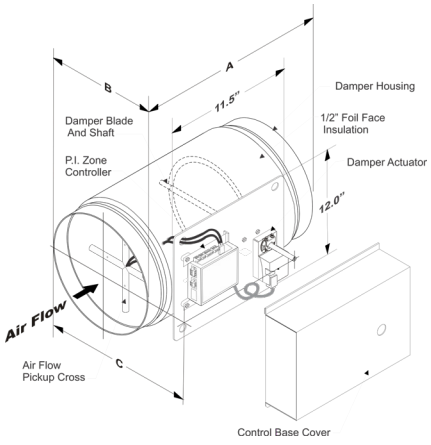
SLAVING OF ZONE DAMPERS

Whenever possible, a single zone damper should be used. If space limitations or airflow requirements dictate, up to two slaved zone dampers can be used. When ordering zone dampers for slaving, calculate the zones total required CFM and divide by two or three depending on the total number of zones that are to be slaved together. Go to the chart below and select the correct size of damper needed. Order one Pressure Dependent Zone Damper of the size selected. Please note that Pressure Independent Zone Dampers cannot be slaved. Order (one or two as required) slaved zone dampers of the same size as the zone damper that was selected. Each slaved zone damper is supplied with a slave wiring adapter for connecting to the Pressure Dependent Zone Damper.

SLAVING OF BYPASS DAMPERS

Whenever possible, a single bypass damper should be used. If space limitations or airflow requirements dictate, multiple bypass dampers can be used. When ordering multiple bypass dampers for slaving, calculate the bypass total required CFM and divide by two or three depending on the total number of bypass dampers that are to be slaved together. Go to the chart below and select the correct size of damper needed. Order (two or three as required) bypass dampers of the size selected.

Round Damper Selection						
Round Damper Duct Size (Area ft²)	6 in. (0.196)	8 in. (0.349)	10 in. (0.545)	12 in. (0.785)	14 in. (1.069)	16 in. (1.396)
Velocity through Round Damper (FPM)	Volume through Round Damper (CFM)					
750 - P.I. or P.D. Zone	147	262	409	589	802	1047
1,000 - P.I. or P.D. Zone	196	349	545	785	1069	1396
1,250 - P.I. or P.D. Zone	245	436	681	981	1336	1745
1,500 - P.D. Zone only	294	523	818	1178	1604	2094
1,750 - Bypass only	Bypass dampers are not available in these sizes		954	1374	1871	2443
2,000 - Bypass only			1090	1570	2138	2792
2,250 - Bypass only			1226	1766	2405	3141



Round Damper Dimension Data			
Duct Diameter	A	B	C
6"	23.00	5.88	9.88
8"	23.00	7.88	12.13
10"	23.00	9.88	14.31
12"	23.00	11.88	16.43
14"	23.00	13.88	18.50
16"	23.00	15.88	20.56

GENERAL

This price list is not an offer to sell any of the products herein at the price shown other than to AAON approved accounts. All prices are list prices.

PRICING

All prices are subject to change without notice. In the event of a price change, all undelivered items will be billed at the prices in effect at the time of shipment. Unless otherwise noted, all prices contained herein are list prices expressed in U.S. dollars and do not include shipping, local, state, or federal taxes.

EXPEDITE FEES

AAON Stock Controls Products Any order received that requires product shipment within 24 hours of receipt of order (in stock items only) will have a 15% expedite fee added to the standard product order net amount, plus shipping costs.

ORDERING

Verbal orders will not be accepted. All purchase orders must be e-mailed to AAON Parkville.

E-mail: controls-orderentry@aaon.com

All order changes must conform to the following:

Additions to orders will require a separate customer purchase order.

TAXES

AAON, Inc. will collect applicable sales/use tax on all orders due to the establishment of sales tax nexus in all states. To avoid taxes being collected, submit exemption paperwork during account setup or, if job specific, include with purchase order.

DELIVERY

Any delivery or ship dates shall be deemed to be only an approximation or estimate, and AAON, Inc. shall not be liable for failure to deliver on such dates nor for delays or for failure to deliver products hereunder resulting from the failure of AAON, Inc. or any other manufacturer thereof to manufacture or deliver such products by reason of factory or labor conditions, or labor controversies, product shortages, errors in manufacturing, fire, delay of common carrier, or delays in the usual sources of supply of raw material, or resulting from any causes beyond the control of AAON, Inc.

FREIGHT

All sales are FOB shipping point. All freight charges are prepaid (PPA) and billed including any fuel surcharges that may be assessed by the carrier. AAON, Inc. assumes no liability for damage or loss of shipments. Claims for damage or lost shipments in transit must be made with the carrier, by the customer.

PAYMENT TERMS

Customers with approved credit are invoiced net amount due within 30 days from the date of invoice.

Accounts with unpaid balances over 30 days are subject to credit hold.

WARRANTY

All AAON Controls products, unless otherwise specified, are warranted to be free from defects in workmanship or material under normal use and service for a period of one year from date of original installation, or 18 months from date of original shipment from the factory, whichever occurs first. Under no circumstances will AAON, Inc. be liable for any consequential damages including, but not limited to, such losses as personal injury, personal damage, labor, transportation, repairs, and the like. These guarantees are in lieu of all other guarantees, expressed or implied, and no agent or employee of AAON, Inc. is authorized to assume any other liability on behalf of AAON, Inc.

RETURNS

All products that are listed as non-returnable in the pricing are manufactured by other vendors. They can only be returned if they are defective unless otherwise noted in the pricing. Any allowable product or material returned must have a return goods authorization number (RGA No.) before it will be considered for credit or warranty. Any material received without a valid return authorization number will be returned at the expense of the shipper. Any item returned for credit must be in sellable condition and in its original packaging. All returns are subject to restocking charges. Dampers cannot be returned for credit.

AAON

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Tulsa, OK 74107-2728

www.AAON.com

AAON Controls 2026
Parts List Catalog

Rev. F • 261020

Factory Technical Support: 918-382-6450

Note: Before calling Technical Support, please have the model and serial number of the unit available.

Parts: For replacement parts, please contact your local AAON Representative.

It is the intent of AAON to provide accurate and current product information. However, in the interest of product improvement, AAON reserves the right to change pricing, specifications, and/or design of its product without notice, obligation, or liability.

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