



Price Sheet

Library	Product Literature
Product Section	Air Terminal Devices
Product	VAV Systems
Model	VADA
Literature Type	Price Sheet
Sequence	1
Date	January 7, 2019
File No.	VAV-PRS002-EN
Supersedes	VAV-PRS002-EN- May 2017

Ordering No. **VAV-PRS002-EN**

Terms: Net 30 days. Shipment shall be F.O.B. factory or warehouse at Company designated shipping point with the title passing to the Buyer upon delivery to the carrier by the Company, freight allowed and prepaid for continental U.S. distribution only. Prices are subject to change without notice.

Distributors and Dealers must be certified to sell VariTrac

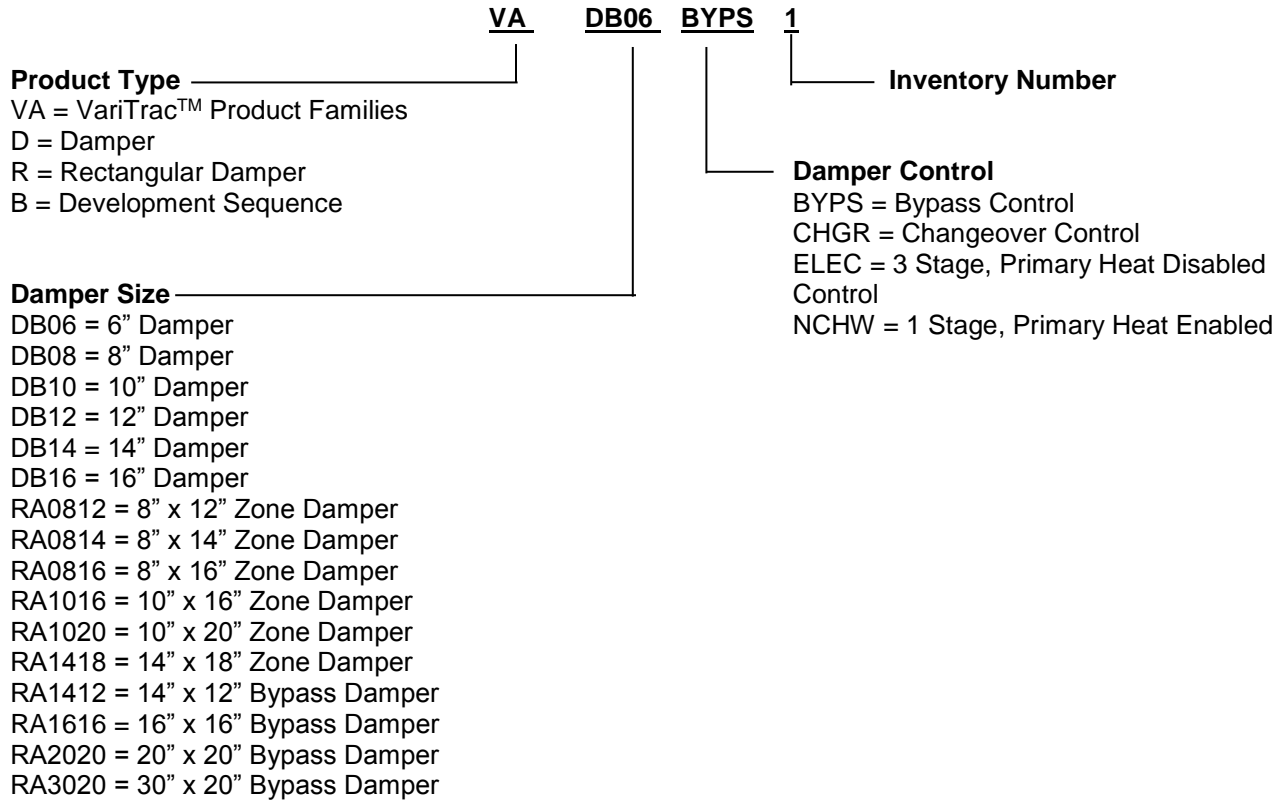
VariTrac™ Changeover-Bypass VAV Dampers and Accessories

Manufacturing location: Rushville, IN
 Ship from: 041
 Product codes: 473, 109, 273
 Effective date: January 7, 2019

VariTrac™ Equipment Planned Obsolescence December 31, 2019

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VariTrac Model Number Nomenclature



Production Cycle

Standard Cycle (DS3) – 15 production days
 Quick Ship Cycle (DS1) – 5 production days

FAX Purchase Order to (765) 932-4168. Include order numbers, pricing, ship cycle and contact.

Note:

1) Minimum order entry value is \$500 list price.

VariTrac Dampers, Controls

Model Number	Power Supply	Description	Shipping Weight	Manufacturer's Suggested List Price
VADB06BYPS30	24 VAC	6" BYPS Control	11	\$372
VADB08BYPS30	24 VAC	8" BYPS Control	12	\$385
VADB10BYPS30	24 VAC	10" BYPS Control	17	\$404
VADB12BYPS30	24 VAC	12" BYPS Control	18	\$471
VADB14BYPS30	24 VAC	14" BYPS Control	27	\$484
VADB16BYPS30	24 VAC	16" BYPS Control	31	\$493
VARA1412BYPS2	24 VAC	14" x 12" BYPS Control	16	\$742
VARA1616BYPS2	24 VAC	16" x 16" BYPS Control	21	\$838
VARA2020BYPS2	24 VAC	20" x 20" BYPS Control	29	\$920
VARA3020BYPS2	24 VAC	30" x 20" BYPS Control	40	\$994
VADB06CHGR60	24 VAC	6" CHGR Control	11	\$866
VADB08CHGR60	24 VAC	8" CHGR Control	12	\$881
VADB10CHGR60	24 VAC	10" CHGR Control	17	\$898
VADB12CHGR60	24 VAC	12" CHGR Control	18	\$964
VADB14CHGR60	24 VAC	14" CHGR Control	27	\$979
VADB16CHGR60	24 VAC	16" CHGR Control	31	\$989
VARA0812CHGR10	24 VAC	8" x 12" CHGR Control	8	\$1,007
VARA0814CHGR10	24 VAC	8" x 14" CHGR Control	10	\$1,015
VARA0816CHGR10	24 VAC	8" x 16" CHGR Control	12	\$1,021
VARA1016CHGR10	24 VAC	10" x 16" CHGR Control	14	\$1,026
VARA1020CHGR10	24 VAC	10" x 20" CHGR Control	16	\$1,039
VARA1418CHGR10	24 VAC	14" x 18" CHGR Control	18	\$1,051
VADB06ELEC60	24 VAC	6" ELEC Control	11	\$866
VADB08ELEC60	24 VAC	8" ELEC Control	12	\$881
VADB10ELEC60	24 VAC	10" ELEC Control	17	\$898
VADB12ELEC60	24 VAC	12" ELEC Control	18	\$964
VADB14ELEC60	24 VAC	14" ELEC Control	27	\$979
VADB16ELEC60	24 VAC	16" ELEC Control	31	\$989
VARA0812ELEC10	24 VAC	8" x 12" ELEC Control	8	\$1,007
VARA0814ELEC10	24 VAC	8" x 14" ELEC Control	10	\$1,015
VARA0816ELEC10	24 VAC	8" x 16" ELEC Control	12	\$1,021
VARA1016ELEC10	24 VAC	10" x 16" ELEC Control	14	\$1,026
VARA1020ELEC10	24 VAC	10" x 20" ELEC Control	16	\$1,039
VARA1418ELEC10	24 VAC	14" x 18" ELEC Control	18	\$1,051
VADB06NCHW60	24 VAC	6" NCHW Control	11	\$866
VADB08NCHW60	24 VAC	8" NCHW Control	12	\$881
VADB10NCHW60	24 VAC	10" NCHW Control	17	\$898

VariTrac Dampers, Controls

Model Number	Power Supply	Description	Shipping Weight	Manufacturer's Suggested List Price
VADB12NCHW60	24 VAC	12" NCHW Control	18	\$964
VADB14NCHW60	24 VAC	14" NCHW Control	27	\$979
VADB16NCHW60	24 VAC	16" NCHW Control	31	\$989
VARA0812NCHW10	24 VAC	8" x 12" NCHW Control	8	\$1,007
VARA0814NCHW10	24 VAC	8" x 14" NCHW Control	10	\$1,015
VARA0816NCHW10	24 VAC	8" x 16" NCHW Control	12	\$1,021
VARA1016NCHW10	24 VAC	10" x 16" NCHW Control	14	\$1,026
VARA1020NCHW10	24 VAC	10" x 20" NCHW Control	16	\$1,039
VARA1418NCHW10	24 VAC	14" x 18" NCHW Control	18	\$1,051

Notes:

See Data Catalog for Damper Sizing.

See Factory Default Parameters.

Above price includes a damper actuator, and when applicable, a UCM microprocessor for one VariTrac zone damper.

Features

- Galvanized steel casing
- Maximum velocity of 2,400 fpm
- Soft-Seal damper blade for more efficient shut-off
- 90 degree damper rotation for superior modulation range
- Transformers, disconnect switch and fuse options available for factory installation on VADB
- Damper control is factory preprogrammed and software editable
- All control boards have 24 volt “wet” heat contacts

Controls Description

BYPS, Bypass

Damper motor and gear assembly are wired to a terminal strip mounted in the bypass damper control box. A 12-foot interface cable with a polarized plug is wired and supplied with the bypass damper for connection to the VariTrac III Communicating Sensor/Bypass Control Assembly. Bypass damper is controlled by the VariTrac Central Control Panel.

CHGR, Zone Changeover

Zone damper motor and gear assembly are controlled by a changeover UCM. No remote heat can be energized. (Heat type 0)

NCHW, 1 Stage Remote Heat

Zone changeover with remote heat staging capabilities. With both Primary Cool and Heat, one stage of remote heat may be energized. May be used to operate a normally closed water valve. (Heat type 5)

ELEC

Zone damper motor and gear assembly with three-stage electric heat control for the local zone. Local heat disabled with primary heat. (Heat type 1)

VariTrac™
System Accessories

Model Number	Description	Shipping Weight	Manufacturer's Suggested List Price
VACOMMSENS10	Communicating Sensor/Bypass Control Assembly		\$744
VA277VXMFR10	277 Volt Transformer – 24 VAC, 40 VA	2	\$35
VA120VXMFR10	120 Volt Transformer – 24 VAC, 40 VA	2	\$35
VADAMPUCM40	Damper UCM (in enclosure)	3	\$551
VASNSRSTAT20	Zone Sensor Only	1	\$71
VASEACSTAT20	Zone Sensor, Externally Adjustable Setpoint, Communication Jack	1	\$90
VASEBCSTAT10	Sensor with Night Setback Button and Cancel	1	\$90
VASENCSTAT30	Zone Sensor, Night Setback Button, Externally Adjustable Setpoint, Communication Jack, Cancel	1	\$122
VADIGITLSNR1	Digital Display Zone Sensor		\$189
VACOMMODL010	Zone Sensor Communication Module (Box of 12)	1	\$83
VAOCCSENS010	Zone Occupancy Sensor (ceiling mount)		\$182
VAC02ZONE010	Zone C02 Sensor (wall mount)		\$464
VAC02DUCT010	Duct C02 Sensor (duct mount)		\$438
VATEMPSNSR10	Duct Temperature Sensor	1	\$158
VADMPCABL10	Bypass Damper Cable Harness		\$30
VAJCMOTRO10	Direct coupled actuator (60 second drive time)	2	\$117
VAWLESZSEN01	Wireless zone sensor (deg F)		\$241
VAWLESZSEN02	Wireless zone sensor (deg C)		\$241
VAWLESZSEN03	Wireless Display Sensor		\$301

VariTrac™
FACTORY INSTALLED OPTIONS (VADB only)

Model Number	Description	Used With	Manufacturer's Suggested List Price
FIYXFMR120A	120/24 VOLT (50VA)	VADB	\$70
FIYXFMR208A	208/24 VOLT (50VA)	VADB	\$70
FIYXFMR240A	240/24 VOLT (50VA)	VADB	\$70
FIYXFMR277A	277/24 VOLT (50VA)	VADB	\$70
FIYXFMR480A	480/24 VOLT (50VA)	VADB	\$70
FIYXFMR347A	347/24 VOLT (50VA)	VADB	\$70
FIYXFMR575A	575/24 VOLT (50VA)	VADB	\$70
FIYXFMR380A	380/24 VOLT (50VA)	VADB	\$70
FIYDISW100A	POWER DISCONNECT	VADB	\$50
FIYFUSE100A	POWER FUSE	VADB	\$36
FIYWLES100A	WIRELESS RECEIVER	VADB	\$226
FIYTEMPSNSR1	DUCT TEMPATURE SENSOR	VADB	\$171

Quick Reference (Accessories/ Dampers/ Sensors)

Ordering Number	Item	Expanded Description
VAOCCSENS010	Zone Occupancy Sensor (ceiling mount)	Ceiling mount PIR occupancy sensor to be used with VariTrac zone damper UCM for controlling the occupied zone standby function. Detects motion over a 360 degree range (adjustable) for up to a 1200 square foot area. SPDT isolated contact for connection to UCM input. Requires 24 VAC. (may share power supply with UCM)
VAC02ZONE010	Zone CO2 Sensor (wall mount)	Compact wall mount transmitter for use with the VariTrac UCM CO ₂ input for doing demand control ventilation. Measurement range of 2000ppm CO ₂ input with an output of 0-10vdc. Transmitter housing size is approximately 4.25inches wide by 3.15 inches high. Requires 24 VAC.
VAC02DUCT010	Duct CO2 Sensor (duct mount)	Compact zone return duct mount transmitter for use with the VariTrac UCM CO ₂ input for doing demand control ventilation. Measurement range of 2000ppm CO ₂ input with an output of 0-10vdc. Transmitter housing size is approximately 4.25inches wide by 3.15 inches high by 2.5 inches deep. Duct probe is .6 inches in diameter by 3 inches to 5.5 inches, adjustable depth. Requires 24 VAC.
VADIGITLSNR1	Digital Display Zone Sensor	Digital LCD display zone sensor with the look and functionality of the standard Trane zone sensor. Sensor includes digital display of setpoint adjustment and space temperature in F or C. Includes ON and CANCEL buttons(supports the *, ** service functions of the standard sensor), and communications jack which can be accessed without removing the cover. Non-volatile memory stores last programmed setpoints. Requires 24VAC. (may share power supply with UCM) Will work with VAV UCMs generations 1A, 1, 2, 3, and 4.
VATEMPSNSR10	Duct Temperature Sensor	RTD with 24" harness terminated with two ¼" QCs for connecting to UCM boards. The sensor sends temperature data to the UCM. It mounts to the duct with two screws. Mounting hole must be drilled in duct.
VADMPRCABL10	Bypass Damper Cable Harness	Cable for wiring existing bypass dampers to the new Communicating Sensor/Bypass Control Assembly. Plenum rated 3 conductor cable assemblies with tinned leads on one end to attach to bypass damper and an AMPs connector on the other end to mate with the VAV UCM actuator output. For retrofit work only(cable is included with all new bypass dampers).
VACOMMSSENS10	Communicating Sensor/Bypass Control	One required per Tracker System CB. Integrated supply air and static pressure sensors connected to a communicating controller (UCM). Communicates directly to the Central Control Panel (CCP) over Comm4 link. Wires to the bypass damper with 12 foot interface cable (supplied with bypass damper). Requires 24 VAC. Works with new Tracker System CB III only.
VADAMPRUCM40	Damper UCM	UCM in a damper control box; used to represent large constant volume zones.
VA277VXMFR10	277 Volt Transformer	277-volt primary, 24-volt secondary, 40 VA transformer. It is field mounted and wired.
VA120VXMFR10	120 Volt Transformer	120-volt primary, 24-volt secondary, 40 VA transformer. It is field mounted and wired.
VAJCMOTR010	Actuator Only	Direct coupled actuator with 60 second drive time
VASNSRSTAT20	Zone Sensor	Sensor only. Vertical single-gang mounting.
VASEACSTAT20	Zone Sensor	Sensor, externally adjustable setpoint, communication jack. Vertical single-gang mounting.
VASENCSTAT30	Zone Sensor	Sensor, Night Setback button, externally adjustable setpoint, communication jack, cancel. Vertical single-gang mounting.
VASEBCSTAT10	Zone Sensor	Sensor with On and Cancel. Vertical single mounting.

Ordering Number	Item	Expanded Description
VASTATLCPC20	Zone Sensor Wall Plate	Available for use with UCM zone sensors. Designed to cover a 4 x 4 junction box mounted horizontally or vertically. Construction is of thermoplastic material with pebble grain finish, which matches the zone sensor. This is a field-installed component.
VAWLESZSEN01	Wireless zone sensor (deg F)	Wireless sensor, externally adjustable, on/cancel, deg F
VAWLESZSEN02	Wireless zone sensor (deg C)	Wireless sensor, externally adjustable, on/cancel, deg C
VAWLESZSEN03	Wireless Display sensor	Wireless zone sensor, digital display

VariTrac II Only

System Accessories

Model Number	Description	Shipping Weight	Manufacturer's Suggested List Price
VATEMPSNSR10	Duct Temperature Sensor	1	\$163
VAVELOSNSR10	VariTrac II Velocity/Static Sensor	4	\$201

Quick Reference Accessories

Ordering Number	Item	Expanded Description
VATEMPSNSR10	Duct Temperature Sensor	Duct mounted temperature sensor for use with VariTrac I and VariTrac II only. (Not for use with VariTrac III).
VAVELOSNSR10	Velocity/Static Sensor	Duct mount Velocity/Static Pressure Sensor for use with VariTrac I and VariTrac II only.

Note: See VariTrac III for sensors, dampers, and accessories list. All components (except for the Communicating Sensor/Bypass Control Assembly- VACOMMSSENS10, and CO2 sensor- VAC02ZONE010 & VAC02ZONE010) are backward compatible with VariTrac II systems.

UCM Software Parameter Default Values

Parameter	Default Value
Occupied Cool Setpoint	74° F
Occupied Heat Setpoint	71° F
Unoccupied Cool Setpoint	85° F
Unoccupied Heat Setpoint	60° F
Flow Override AUTO	1
Maximum Position %	100%
Minimum Cool Position %	10%
Minimum Heat Position %	10%
T-Stat Mounted Setpoint	Yes
Occupied Vote	Yes
UCM Communication Address	Field Set
Unit Size	Factory Set
Unit Control (CHGR, ELEC, NCHW)	Factory Set

NOTE: It is recommended that a >0% minimum be kept for an ELEC damper control. Consult with heater manufacturer for required minimum airflow.