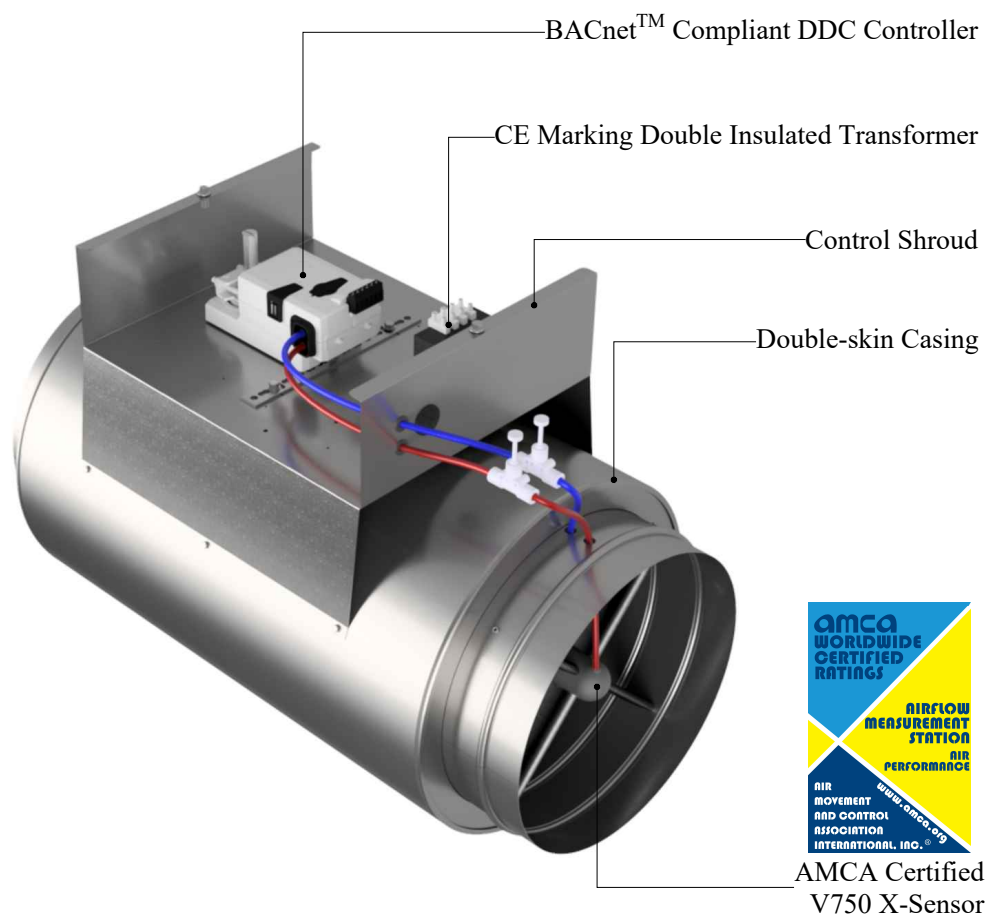


CONNOLS-AIR VAV AIR TERMINAL UNITS



Connols-Air DDC microprocessor based V750 air terminal units are the latest, state-of-the-art, high quality terminal units, which provide good control accuracy and capabilities required in every modern intelligent building of today. The air terminal units are capable of stand-alone operation. However, they may be connected with net-working devices and be integrated with the building automation system. The air terminal unit consists of an air valve with integrated pressure differential flow sensor, a digital thermostat and BACnet™ compliant DDC controller and is available in the following sizes 5, 6, 7, 8, 10, 12, 14, 16, and 18 covering air flow range up to 7,200 cmh (2,000 l/s).

We have attached the following tabulated submittal sheets, which will provide you necessary information about our Connols-Air VAV air terminal units for your selection and design purposes.

TABLE OF SUBMITTAL SHEETS:

Page No	Drawing No	Description
2	VAXEP007-R1	CONNOLS-AIR PRESSURE INDEPENDENT COOLING ONLY VAV AIR TERMINAL UNIT (V750-I)
3	VAXEP008-R1	CONNOLS-AIR CONSTANT AIR VOLUME COOLING ONLY AIR TERMINAL UNIT (V750-C)
4	VAXEP009-R1	CONNOLS-AIR PRESSURE DEPENDENT COOLING ONLY VAV AIR TERMINAL UNIT (V750-D)



OLS MANUFACTURING CO.

3-B, Joo Koon Circle, Singapore 629034

Tel.: 68615253 Fax.: 68619850

email: team.vav@connols-air.com <http://www.connols-air.com>

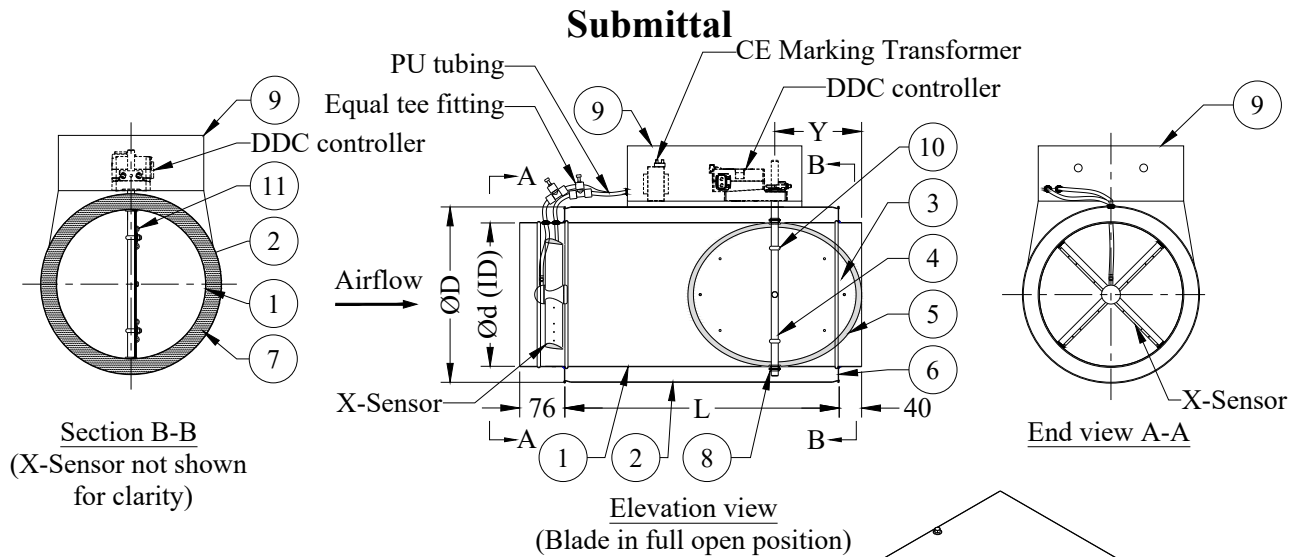


Cert. No.:
SG00/00080

Scope: Design and Manufacturing



Accredited
Laboratory
LA-2020-0755-G



No	PARTS	DESCRIPTIONS
1	Inner Casing	0.7mm thk. Refer to material options.
2	Outer Casing	0.7mm thk. Refer to material options.
3	Damper Blade (Double skin)	0.7/1.0mm thk. Refer to material options.
4	Blade Shaft	Ø12mm Aluminum
5	Blade Seal	1.5mm thk. Solid Silicone
6	End Ring	0.7mm thk. Refer to material options.
7	Insulation	25mm thk. 32kg/m ³ Fiberglass
8	Bush	Nylon
9	Controller Shroud	0.7mm thk. Refer to material options.
10	U-bolt	Refer to material options.
11	Blade Mounting Bracket	Refer to material options.

OLS Manufacturing Co Pte Ltd. certifies that the V750 X-Sensor with integral damper shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 611 and comply with the requirements of the AMCA Certified Ratings Program.

NOTE:

1. Connecting duct internal diameter should be 3mm bigger than Ød. Refer to installation instruction VAXEP010.
2. Equal tee fitting provided for easy flow verification.
3. Refer to datasheet for details of controller and temperature controller.
4. The performance of V750 X-Sensor is AMCA certified to accuracy of $\pm 3.7\%$ or better in the velocity range of 4m/s to 13m/s.

TABLE 1: DIMENSIONS

Options	Size	Ød	ØD	Y	L	Qty
<input type="checkbox"/>	5	125	175	125	370	
<input type="checkbox"/>	6	150	200	125	370	
<input type="checkbox"/>	7	175	225	125	370	
<input type="checkbox"/>	8	200	250	125	370	
<input type="checkbox"/>	10	250	300	175	470	
<input type="checkbox"/>	12	300	350	175	470	
<input type="checkbox"/>	14	350	400	225	540	
<input type="checkbox"/>	16	400	450	225	540	
<input type="checkbox"/>	18	450	500	250	600	

In the interest of product improvement, we reserved the right to make changes without notice.



MATERIAL OPTIONS:

- ☐ Hot-dip pregalvanized steel
- ☐ Stainless steel SS304
- ☐ Stainless steel SS316

CONTROLLER OPTIONS:

- ☐ Non
- ☐ Standalone
- ☐ Networked to BAS/ BMS via BACnet™ protocol

TEMPERATURE CONTROLLER OPTIONS:

- ☐ Non
- ☐ LCD Room Unit
- ☐ Blank Room Unit

TRANSFORMER OPTIONS:

- ☐ Non
- ☐ CE Marking double insulated (230 to 24VAC)

All dimensions are in mm

Title : **CONNOLS-AIR PRESSURE INDEPENDENT COOLING ONLY VAV AIR TERMINAL UNIT (V750-I)**

Project :



OLS MANUFACTURING CO.

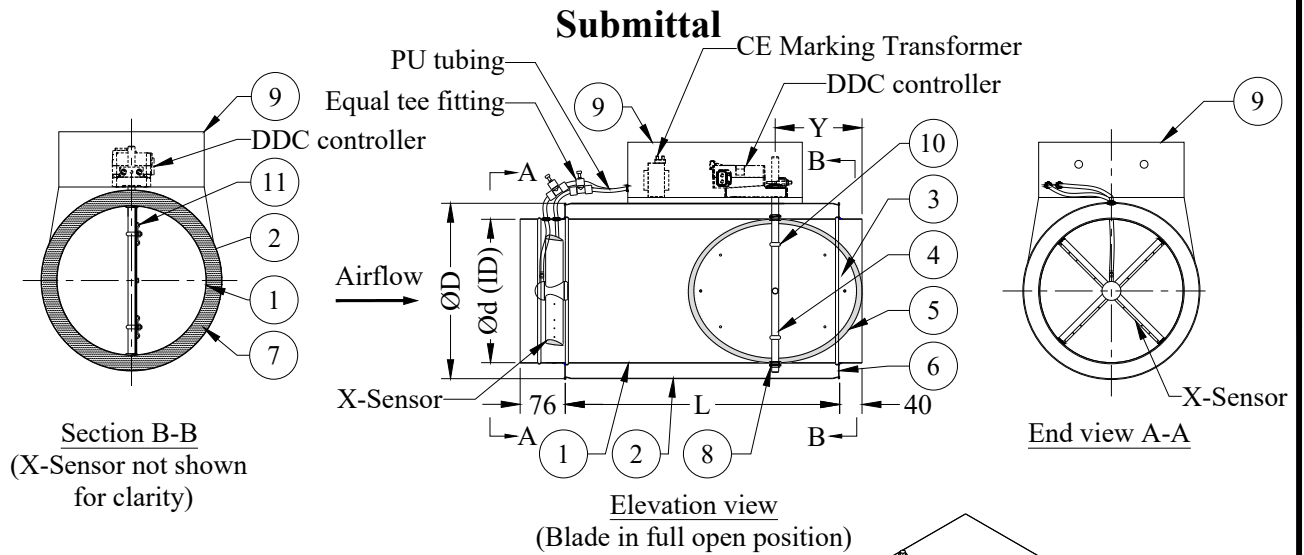
3-B, Joo Koon Circle, Singapore 629034

Tel.: 68615253 Fax.: 68619850

email: team.vav@connols-air.com http://www.connols-air.com

Dwn. By : San
Chk. By : John
App. By : Wong

Date : 12/10/2020 Scale :
Dwg. No. : VAXEP007-R1 N.T.S.



No	PARTS	DESCRIPTIONS
1	Inner Casing	0.7mm thk. Refer to material options.
2	Outer Casing	0.7mm thk. Refer to material options.
3	Damper Blade (Double skin)	0.7/1.0mm thk. Refer to material options.
4	Blade Shaft	Ø12mm Aluminum
5	Blade Seal	1.5mm thk. Solid Silicone
6	End Ring	0.7mm thk. Refer to material options.
7	Insulation	25mm thk. 32kg/m ³ Fiberglass
8	Bush	Nylon
9	Controller Shroud	0.7mm thk. Refer to material options.
10	U-bolt	Refer to material options.
11	Blade Mounting Bracket	Refer to material options.

OLS Manufacturing Co Pte Ltd. certifies that the V750 X-Sensor with integral damper shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 611 and comply with the requirements of the AMCA Certified Ratings Program.

NOTE:


1. Connecting duct internal diameter should be 3mm bigger than Ød. Refer to installation instruction VAXEP010.
2. Equal tee fitting provided for easy flow verification.
3. Refer to datasheet for details of controller and temperature controller.
4. The performance of V750 X-Sensor is AMCA certified to accuracy of $\pm 3.7\%$ or better in the velocity range of 4m/s to 13m/s.

TABLE 1: DIMENSIONS

Options	Size	Ød	ØD	Y	L	Qty
<input type="checkbox"/>	5	125	175	125	370	
<input type="checkbox"/>	6	150	200	125	370	
<input type="checkbox"/>	7	175	225	125	370	
<input type="checkbox"/>	8	200	250	125	370	
<input type="checkbox"/>	10	250	300	175	470	
<input type="checkbox"/>	12	300	350	175	470	
<input type="checkbox"/>	14	350	400	225	540	
<input type="checkbox"/>	16	400	450	225	540	
<input type="checkbox"/>	18	450	500	250	600	

In the interest of product improvement, we reserved the right to make changes without notice.

All dimensions are in mm

Title : CONNOLS-AIR CONSTANT AIR VOLUME COOLING ONLY AIR TERMINAL UNIT (V750-C)				Project :			
 OLS MANUFACTURING CO. 3-B, Joo Koon Circle, Singapore 629034 Tel.: 68615253 Fax.: 68619850 email: team.vav@connols-air.com http://www.connols-air.com	Dwn. By :	San	Date :	12/10/2020	Scale :		
	Chk. By :	John	Dwg. No. :	VAXEP008-R1	N.T.S		
	App. By :	Wong					



MATERIAL OPTIONS:

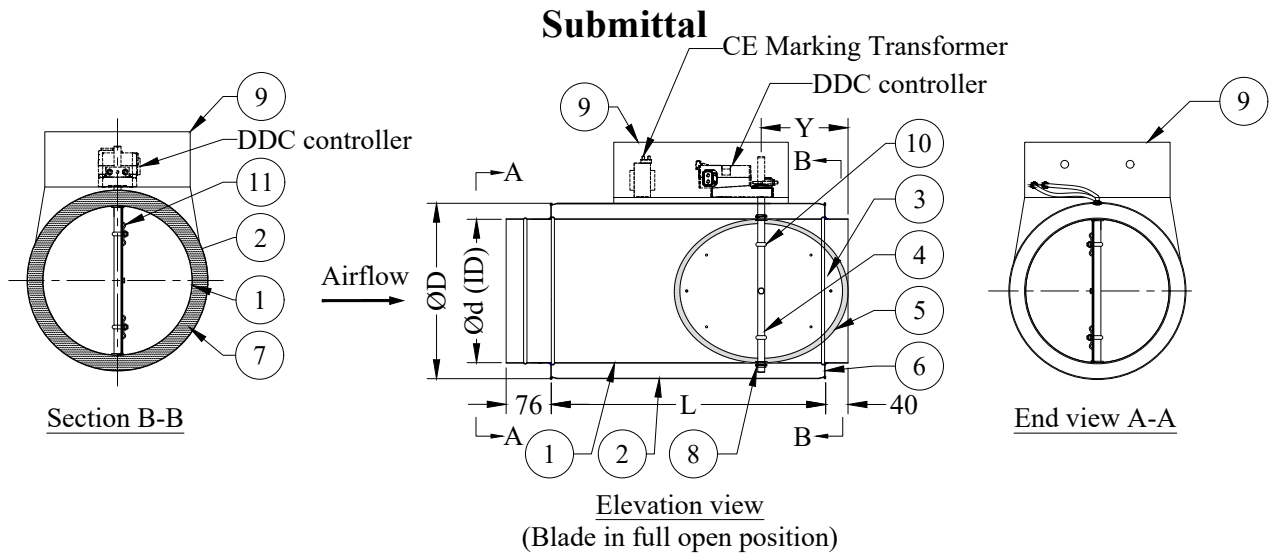
- ☐ Hot-dip pregalvanized steel
- ☐ Stainless steel SS304
- ☐ Stainless steel SS316

CONTROLLER OPTIONS:

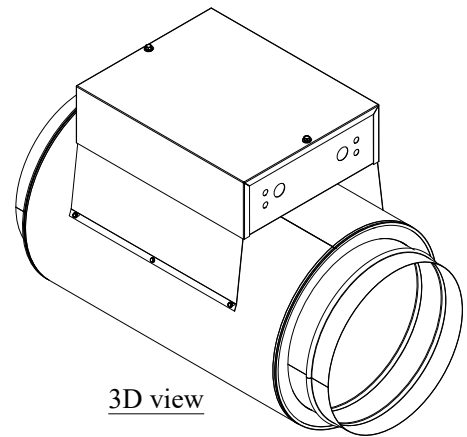
- ☐ Non
- ☐ Standalone
- ☐ Networked to BAS/ BMS via BACnet™ protocol

TRANSFORMER OPTIONS:

- ☐ Non
- ☐ CE Marking double insulated (230 to 24VAC)



No	PARTS	DESCRIPTIONS
1	Inner Casing	0.7mm thk. Refer to material options.
2	Outer Casing	0.7mm thk. Refer to material options.
3	Damper Blade (Double skin)	0.7/1.0mm thk. Refer to material options.
4	Blade Shaft	Ø12mm Aluminum
5	Blade Seal	1.5mm thk. Solid Silicone
6	End Ring	0.7mm thk. Refer to material options.
7	Insulation	25mm thk. 32kg/m ³ Fiberglass
8	Bush	Nylon
9	Controller Shroud	0.7mm thk. Refer to material options.
10	U-bolt	Refer to material options.
11	Blade Mounting Bracket	Refer to material options.



NOTE:

1. Connecting duct internal diameter should be 3mm bigger than Ød. Refer to installation instruction VAXEP010.
2. Refer to datasheet for details of controller and temperature controller.



Cert. No: SG00/00080

TABLE 1: DIMENSIONS

Options	Size	Ød	ØD	Y	L	Qty
<input type="checkbox"/>	5	125	175	125	370	
<input type="checkbox"/>	6	150	200	125	370	
<input type="checkbox"/>	7	175	225	125	370	
<input type="checkbox"/>	8	200	250	125	370	
<input type="checkbox"/>	10	250	300	175	470	
<input type="checkbox"/>	12	300	350	175	470	
<input type="checkbox"/>	14	350	400	225	540	
<input type="checkbox"/>	16	400	450	225	540	
<input type="checkbox"/>	18	450	500	250	600	

MATERIAL OPTIONS:

- ☐ Hot-dip pregalvanized steel
- ☐ Stainless steel SS304
- ☐ Stainless steel SS316

CONTROLLER OPTIONS:

- ☐ Non
- ☐ Standalone
- ☐ Networked to BAS/ BMS via BACnet™ protocol

TEMPERATURE CONTROLLER OPTIONS:


- ☐ Non
- ☐ LCD Room Unit
- ☐ Blank Room Unit

TRANSFORMER OPTIONS:

- ☐ Non
- ☐ CE Marking double insulated (230 to 24VAC)

In the interest of product improvement, we reserved the right to make changes without notice.

All dimensions are in mm

Title : CONNOLS-AIR PRESSURE DEPENDENT COOLING ONLY VAV AIR TERMINAL UNIT (V750-D)				Project :		
 OLS MANUFACTURING CO. 3-B, Joo Koon Circle, Singapore 629034 Tel.: 68615253 Fax.: 68619850 email: team.vav@connols-air.com http://www.connols-air.com	Dwn. By :	San	Date :	12/10/2020	Scale :	
	Chk. By :	John	Dwg. No. : VAXEP009-R1	N.T.S		
	App. By :	Wong				