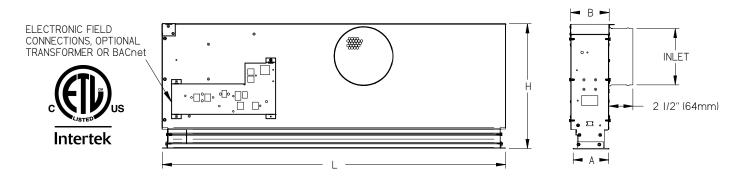


# **Submittal Sheet**

## ADVL- ADVANTAGE LINEAR MOTORIZED VAV DIFFUSER



### **DIFFUSER TYPE:**

MASTER - INCLUDES ONBOARD CONTROLS, MAY ALSO CONTROL AND DISTRIBUTE POWER UP TO 5 DRONES FROM EACH MASTER

□ DRONE - REPLICATES THE DAMPER POSITION OF THE MASTER. INCLUDES NETC35 PLENUM RATED 35 FT. (10.7m) CABLE WITH

RJ-12 CONNECTORS (DRONE BOARD NOT SHOWN)

## **POWER REQUIREMENTS:**

24 VAC INPUT POWER, 3.0 VA PER UNIT (MASTER OR DRONE)

- □ 60Hz
- □ 50Hz

SEE MODEL PPM FOR STAND-ALONE POWER MODULE (UP TO 15 UNITS)

OPTIONAL ON-BOARD TRANSFORMERS (MASTER ONLY):

- ☐ TR115 115/24, 20 VA TRANSFORMER
- ☐ TR240 240/24, 20 VA TRANSFORMER
- ☐ TR277 277/24. 20 VA TRANSFORMER

### **NETWORK OPTION (MASTER ONLY):**

☐ BACnet SYSTEM INTERFACE (MS/TP) INCLUDES NETC35 PLENUM RATED 35 FT. (10.7m) NETWORK CONNECTION CABLE (RJ45)

**DIFFUSER FACE - EXTRUDED ALUMINUM** PLENUM - COATED STEEL CONSTRUCTION

☐ FF - INSULATED PLENUM (FIBER FREE FOAM)

☐ B12 - WHITE POWDER COAT (OPTIONAL FINISHES AVAILABLE)

## OPTIONAL AUXILIARY HEAT CONTROL OUTPUT: (12VA MAX. MASTER UNIT ONLY)

- □ PDM PULSE DELAY MODULATION
- ☐ PWM PULSE WIDTH MODULATION
- ☐ BIN BINARY ON/OFF

### NOTES:

**CUSTOMER:** 

- FACTORY TOLERANCE ±1/16" (2mm)
- STANDARD PLENUM HEIGHT H = 13" (330mm)
- FOR MATCHING RETURN USE MODEL TL-RAP (PLENUM) OR TL-RAD (DUCTED)
- END ANGLES FOR CONTINUOUS UNITS
- ARE SHIPPED LOOSE FOR FIELD INSTALLATION AT ENDS OF RUN
- · CONTINUOUS DIFFUSERS FIELD TRIMMING MAY ONLY BE DONE ON MODEL TL-RAP

RETURN SECTIONS

NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

**ADVL PROJECT:** SUBMITTAL NO: 271995

**ADVANTAGE LINEAR** REV 0 **ENGINEER: SELF MODULATING** 

**SUBMITTAL DATE:** 2020/03/23



	1.0	1 Clat 1 Way		2 9/16"	4"
		Slot, 1 Way		65mm	102mm
		Clat 1 Mar.		3 3/4"	4"
_   2		Slot, 1 Way		95mm	102mm
	2 Slot, 2 Way			4"	4"
□   <b>2</b>	2	Siot, 2 way		102mm	102mm
_	4 Slot, 1 Way			6"	6 5/16"
	Ť	4 310t, 1 Way		152mm	160mm
]	4 Slot, 2 Way			6 3/8"	6 5/16"
_		4 310t, 2 way		162mm	160mm
NOM. LENGT		ты		L	
		NOW. LENGTH		Single Unit	Continuous

В

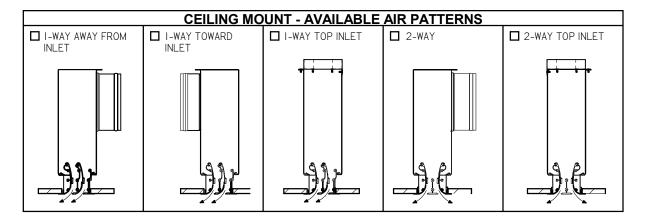
**PATTERN** 

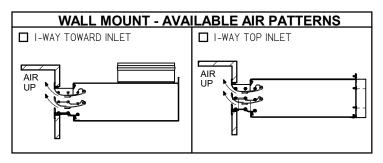
NOM. LENGTH	L	
NOW. LENGTH	Single Unit	Continuous
24"	23 3/4"	24 5/8"
36"	35 3/4"	36 5/8"
48"	47 3/4"	48 5/8"
60"	59 3/4"	60 5/8"
600mm	594mm	616mm
900mm	894mm	916mm
1200mm	1194mm	1216mm
1500mm	1494mm	1516mm

END CONDITION		
SINGLE MODULE	CONTINUOUS	

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NOMINAL LENGTH:		Standard Plenum - Side Inlet	Low Profile Plenum - Side Inlet	Top Inlet
24" / 600mm	1 & 2 Slot	6" (152mm)	6" (152mm)	4" x 8" (102mm x 203mm)
24 / 000111111	4 Slot	8" (203mm)	6 3/8" x 8 3/4" (8" equivalent)	6" x 10" (152mm x 254mm)
26!! / 000*****	1 & 2 Slot	6" (152mm)	6" (152mm)	4" x 8" (102mm x 203mm)
36" / 900mm	4 Slot	8" (203mm)	6 3/8" x 11 7/8" (10" equivalent)	6" x 10" (152mm x 254mm)
48" / 1200mm	1 & 2 Slot	8" (203mm)	6 3/8" x 11 7/8" (10" equivalent)	4" x 16" (102mm x 406mm)
48" / 1200mm	4 Slot	10" (254mm)	6 3/8" x 15 1/32" (12" equivalent)	6" x 18" (152mm x 457mm)
60" / 1500mm	1 & 2 Slot	8" (203mm)	6 3/8" x 11 7/8" (10" equivalent)	4" x 16" (102mm x 406mm)
	4 Slot	9 7/8" x 12 3/4" (12" equivalent)	6 3/8" x 18 3/16" (14" equivalent)	6" x 18" (152mm x 457mm)

NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

**SUBMITTAL DATE:** 

**ADVL PROJECT:** SUBMITTAL NO: 271995

**ADVANTAGE LINEAR ENGINEER:** REV 0 **SELF MODULATING** 

**MOTORIZED VAV DIFFUSER CUSTOMER:** 

2020/03/23

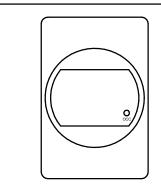
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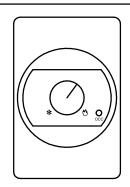
SHEET 2 OF 6



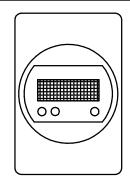
SETPOINT ADJUSTMENT OPTIONS (MASTER ONLY):



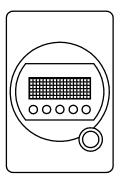
☐ SENS - THERMOSTAT SENSOR WITH BLANK FACE



☐ DIAL - THERMOSTAT WITH DIAL SETPOINT ADJUSTMENT

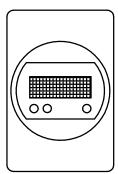


☐ LCD THERMOSTAT (°F) ☐ LCD THERMOSTAT (°C)

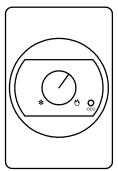


☐ MOT - LCD THERMOSTAT WITH MOTION SENSOR (°F)

☐ MOT - LCD THERMOSTAT WITH MOTION SENSOR (°C)

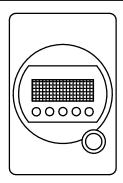


WIRELESS BASE RECEIVER



WIRELESS REMOTE DIAL THERMOSTAT

☐ WL - WIRELESS THERMOSTAT WITH DIAL SETPOINT ADJUSTMENT



☐ CO2H - LCD THERMOSTAT CO AND HUMIDITY SENSORS (°F)

☐ CO2H - LCD THERMOSTAT CO AND HUMIDITY SENSORS (°C)

### NOTE:

- THERMOSTATS ARE WALL MOUNTED
- RJ-45 CONNECTION ON BACK SIDE OF THERMOSTATS FOR EASE OF INSTALLATION
- THERMOSTATS ALSO INCLUDE ONE NETC35 - 35 FT. (10.7m) PLENUM RATED CABLE INCLUDED FOR CONNECTION TO DIFFUSER

NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

**PROJECT:** 

**ENGINEER:** 

**CUSTOMER: SUBMITTAL DATE:**  SUBMITTAL NO: 271995

REV 0

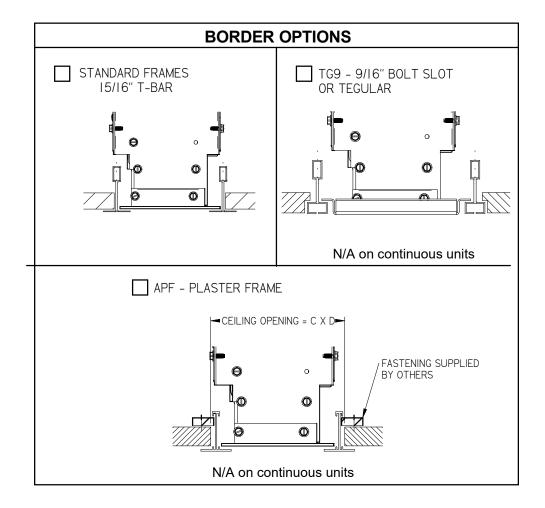
**ADVANTAGE LINEAR SELF MODULATING MOTORIZED VAV DIFFUSER** 

**ADVL** 

2020/03/23

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## **Opening Dimensions for Optional APF Plaster Frame:**

	С
1 Clot 1 Way	3 1/4"
1 Slot, 1 Way	83mm
2 Slot, 1 Way	4 7/16"
	113mm
2 Slot, 2 Way	4 11/16"
	119mm
4 Slot, 1 Way	6 11/16"
4 310t, 1 Way	170mm
4 Slot, 2 Way	7 1/16"
4 310t, 2 Way	179mm

Nom. Length	D
24"	24 7/16"
36"	36 7/16"
48"	48 7/16"
60"	60 7/16"
600mm	611mm
900mm	911mm
1200mm	1211mm
1500mm	1511mm

 ALUMINUM PLASTER FRAME OPTIONS AVAILABLE FOR CONTINUOUS UNITS AS A **SPECIAL** 

NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

**ADVL PROJECT: SUBMITTAL NO:** 271995

**ADVANTAGE LINEAR ENGINEER:** REV 0 **SELF MODULATING MOTORIZED VAV DIFFUSER CUSTOMER:** 

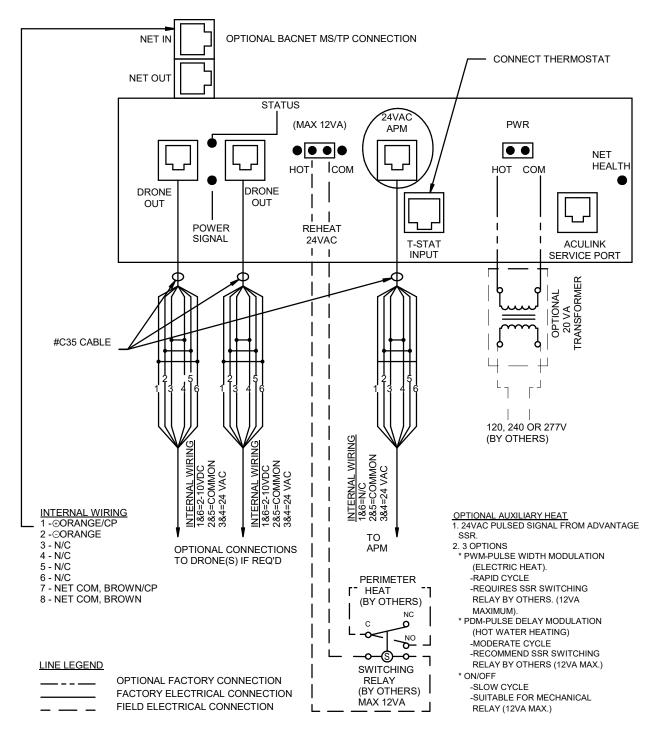
**SUBMITTAL DATE:** 

2020/03/23

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CIRCUIT BOARD CONNECTIONS - MASTER UNITS:



NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

**CUSTOMER:** 

**ADVL PROJECT: SUBMITTAL NO:** 271995

**ADVANTAGE LINEAR** REV 0 **ENGINEER: SELF MODULATING MOTORIZED VAV DIFFUSER** 

**SUBMITTAL DATE:** 2020/03/23

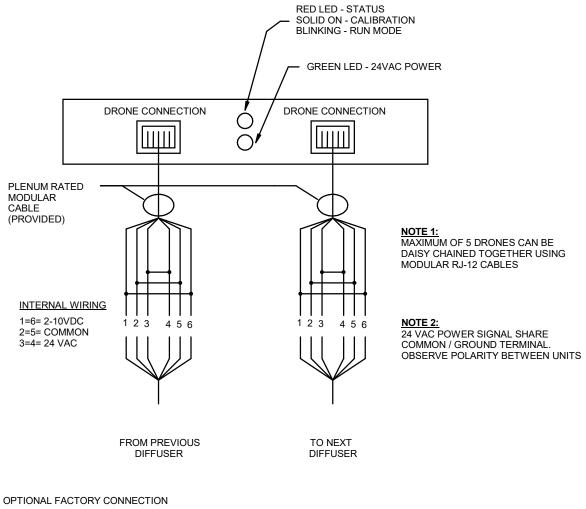
9

SHEET 5 OF 6

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CIRCUIT BOARD CONNECTIONS - DRONE UNITS:



### LINE LEGEND

**SUBMITTAL DATE:** 

\_\_\_\_\_ OPTIONAL FACTORY CONNECTION
\_\_\_\_\_ FACTORY ELECTRICAL CONNECTION
\_\_\_\_ FIELD ELECTRICAL CONNECTION

SIGNAL	DAMPER POSITION
0-2 VDC	NO SIGNAL DAMPER GOES TO 50%
2-10 VDC	PROPORTIONAL 2 VDC = MIN, 10 VDC = MAX

POWER
EACH DRONE USES 3.0VA
INPUT IMPEDANCE 200K (2-10 VDC SIGNAL)

NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

PROJECT: SUBMITTAL NO: 271995 ADVL

**ENGINEER:**REV 0

ADVANTAGE LINEAR
SELF MODULATING

CUSTOMER: MOTORIZED VAV DIFFUSER

2020/03/23

9

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SHEET 6 OF 6