



Building Performance Equipment, Inc.®

Sustainable, Reliable and Energy Efficient Ventilation Systems

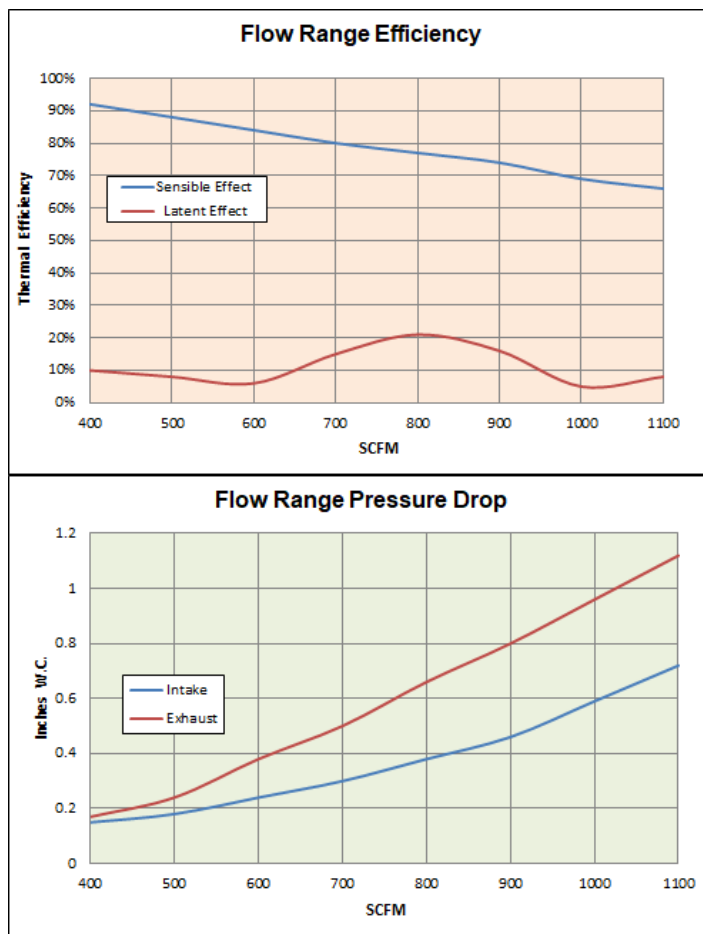
Model: BPE-SC-UNI-1000 (Air-to-air Energy Recovery Ventilator)



Model Number:	BPE-SC-UNI-1000, Energy Recovery Ventilator (ERV)
Energy Transfer:	Polymer Fixed Plate, Heat and Humidity Transfer
Air Flow Range:	500-1100 CFM
Energy Efficiency Ratio (EER) – (Btu/W):	(ARI 1060 at 95°) - Summer = 38.9 (ARI 1060 at 10°) - Winter = 81.3
Net Weight:	140 lbs.
Dimensions:	101" L x 17.5" W x 32.5" H
External Finish:	Galvanized Steel Sheet
Typical Fan:	Fantech FKD-10
Power Source:	120 V - Single Phase - 60 Hz
Power Consumption	1202 W @ 627 CFM

Note: For use in conditions below -10°F and/or 40% relative humidity, contact BPE for application assistance. Interior aligned with Reflectix Semi-Rigid Insulations (R-5 RMAX)

Note: BPE-ERMS can be purchased without fans for locations with existing fans



ARI 1060 Testing

Project Name: _____

Date: _____

Location: _____

Application: _____

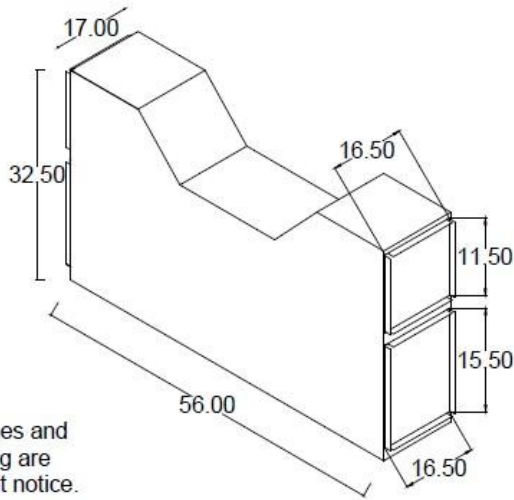
Contractor: _____

Design Conditions	Outdoor Air				Indoor Air				Thermal Efficiency	
	CFM	In. W.C.	°F WB	°F DB	CFM	In. W.C.	°F WB	°F DB	Sensible (%)	Latent (%)
Summer										
Winter										

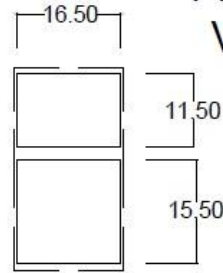
Component	Intake (in. W.C.)	Exhaust (in. W.C.)	Notes
Louver			Drain Connection (Left, Right, Field Installed):
Filter			
Duct work			
ERV			
Diffuser			Regenerative Condensate Return (Wick, Gap or Total Seal – No Latent 0.0%):
Total Static			
Add 25% - Safety Factor			
Fan Static			
Fan CFM			Special Considerations:
Fan Manufacture			
Fan Model			

ISOMETRIC VIEW

Note: Dimensions in inches and methods of manufacturing are subject to change without notice.

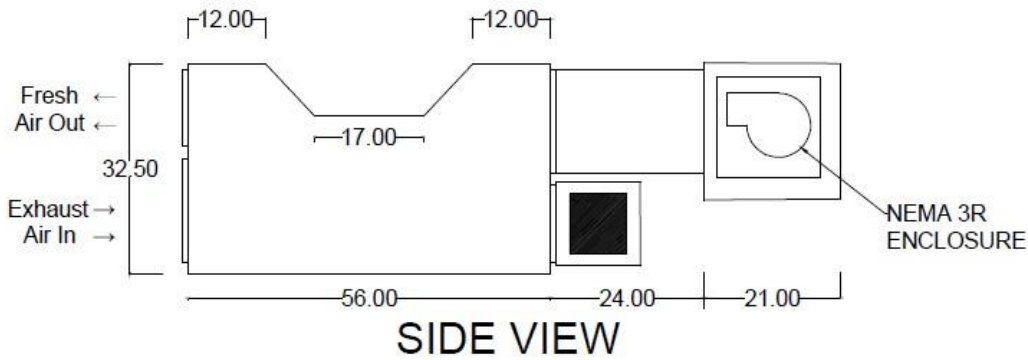
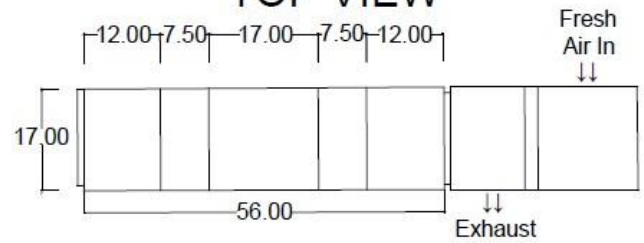


FRONT VIEW



Note: Dimensions can have a tolerance of about $\pm \frac{1}{4}$ "

TOP VIEW





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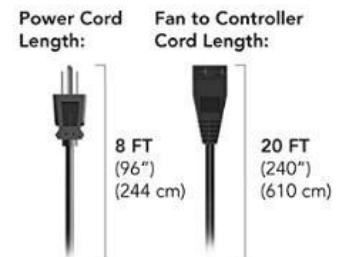
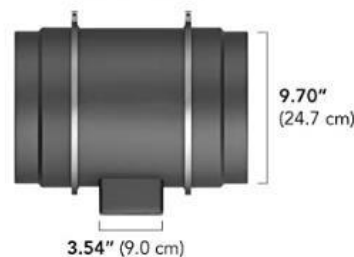


BPE S10, Quiet 10"
Inline Duct Fan with
Speed Controller -
Exhaust Fan for
Heating Cooling
Booster, Grow
Tents, Hydroponics

Electric fan	Exhaust Fan
Design	
Power Source	Corded Electric
Room Type	Kitchen, Bathroom
Recommended	Indoor, Home
Uses For	
Product	
Included	Remote, Cord
Components	
Brand	AC Infinity
Indoor/Outdoor	Indoor
Usage	
Color	Black
Number of Speeds	8
Control Method	App

SPECIFICATIONS

MODEL CLOUDLINE S10	ENGINE EC-Motor PWM
DUCT SIZE Ø 10"	AIRFLOW 1201 CFM
POWER USAGE 136 Watt	NOISE 48 dBA
CONTROLLER Speed Controller	SPEED 8 + Power Switch



SPEED CONTROLLER

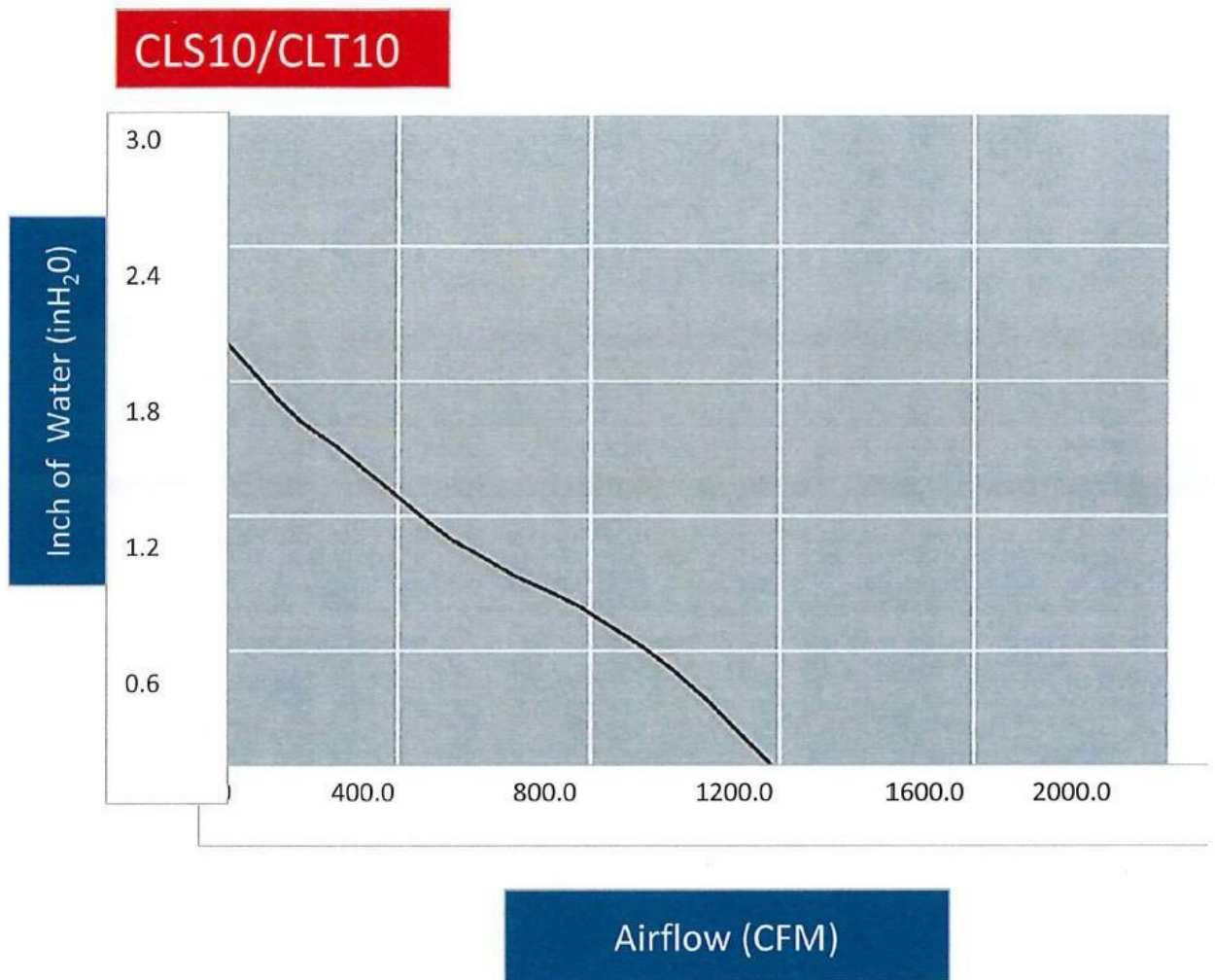


Eight fan speeds with power switch, controlled by PWM (Pulse Width Modulation).

Backup memory remembers speed settings even with power off and on cycles.

Includes machine and wood mounting screws to secure controller onto a wall.

This controller is designed to upgrade existing wired speed controllers to remotely adjust its settings, optimizing airflow and managing noise in HVAC.



About this item

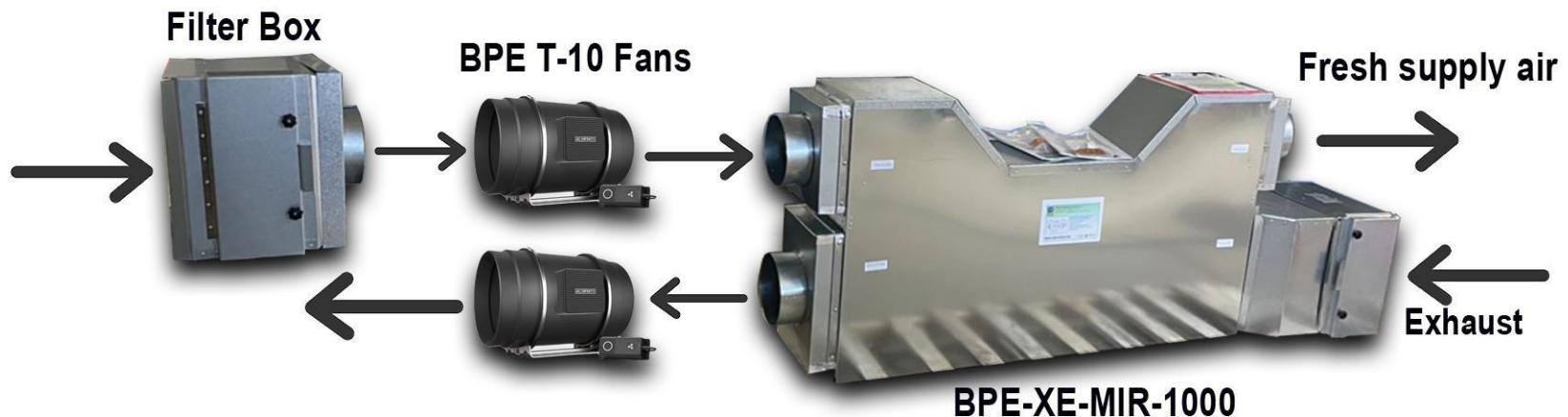
- Designed to ventilate hydroponic grow rooms, transfer heating/cooling, cool AV closets, and exhaust odors.
- Features an 8-speed manual controller utilizing PWM. See T-Series for temperature and humidity controls.
- Mixed flow design combined with a PWM-controlled EC-motor for a truly quiet and energy efficient performance.
- Kit also includes corded sensor probe, AC power plug, two duct clamps, and required mounting hardware.
- Duct Size: 10" | Dimensions: 11.3 x 15.1 x 12.2 in. | Airflow: 1201 CFM | Noise: 48 dBA | Bearings: Dual Bal

Note on Fan and Controller Selection:

When choosing fans for the BPE-SC-UNI-500, BPE-SC-UNI-1000, BPE-SC-UNI-2000, or BPE-SC-UNI-3000, you may choose the BPE S8, T8, T10, or T12. Remember, two sets of fans (4) are needed for the UNI 3000.

We recommend the BPE S8 for those who seek to use a simple wired straight forward controller.

For those interested in scheduling capabilities, Bluetooth, sensors for more precise temperature and humidity control, as well as triggers, and more, choose the BPE T8 or T12. You can pair these with controllers such as the BPE Controller 67 or 69.



Note: 10" diameter connections provided to ease installation.

SPECIFICATIONS

MODEL	CLOUDLINE T12A	CLT12	ENGINE	EC Motor PWM
DUCT SIZE	10	12"	AIRFLOW	1684 CFM
POWER USAGE	139	Watts	NOISE	62 dB(A)
CONTROLLER	67		SENSORS	Temp & Humidity



14.05"
(35.7 cm)

17.71" (45,0 cm)



12.91"
(7.4 cm)

5.19"(13.2 cm)



12.28"
(31.2 cm)

3.54" (9.0cm)

Probe Length:	Power Cord Length:	F.in to ControUer Cord l.ongth:
12 FT (14d")	8 FT (96")	20FT (240")



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BPE 4 FAN CONTROLLER – 69

CONTROLLER 69 PRO, INDEPENDENT PROGRAMS FOR FOUR DEVICES, DYNAMIC VPD, TEMPERATURE, HUMIDITY, SCHEDULING, CYCLES, LEVELS CONTROL, DATA APP, BLUETOOTH + WIFI

Introduction

Welcome to the BPE UIS™ ecosystem, the most advance and versatile environmental control platform in the world! Choose from an expanding selection of equipment that can work together to achieve your ideal environment. Mix and match any four to connect to our smart controller to provide each with their own advance programming, tailored to your application. Our innovative system can finely optimize each equipment's output levels from 0 to 10 such as fan speed and light intensity, to precisely reach your target climate.

MODELS - **CONTROLLER 69 PRO (CTR69P)**

EQUIPMENT CONTROLLED - All UIS™ Devices, see [Compatibility List](#)

NUMBER OF EQUIPMENT - 4 Devices, Independent Programming

CONNECTOR TYPE - UIS, and includes two **MOLEX-TO-UIS ADAPTERS**

CONTROL TYPE - PWM 10 Levels

PROGRAMS - Temperature and Humidity Triggers, VPD Triggers, Timers, Cycles, Schedules, Advance Programs via App

SETTINGS - Max/Min Levels, Dynamic Transitions, Lock/Hide Display, F°/C°, Calibration, and More

CLIMATE SENSORS - Temperature and Humidity

APP CONNECTION - Bluetooth or Wi-Fi (2.4 Ghz)



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Control system can control 4 fans at the same time.

Quick Start





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1. Plug the temperature/humidity sensor into the designated port behind the controller.
2. Plug your first UIS device into one of the four ports behind the controller, which will also power the controller.
3. Press the "Port Button" until you reach the port that your device was plugged in. See below for diagram.
4. Press the "Mode Button" until you reach the desired program for your device to run. See below for Mode info.
5. Press the "Up/Down Button" to adjust your Mode's parameters, program will automatically start running.
6. Check for settings that may affect your programming, see below. Return to desired Mode to resume program.
7. Plug in another UIS device if needed, then repeat steps 3 to 6.

Controller Diagram



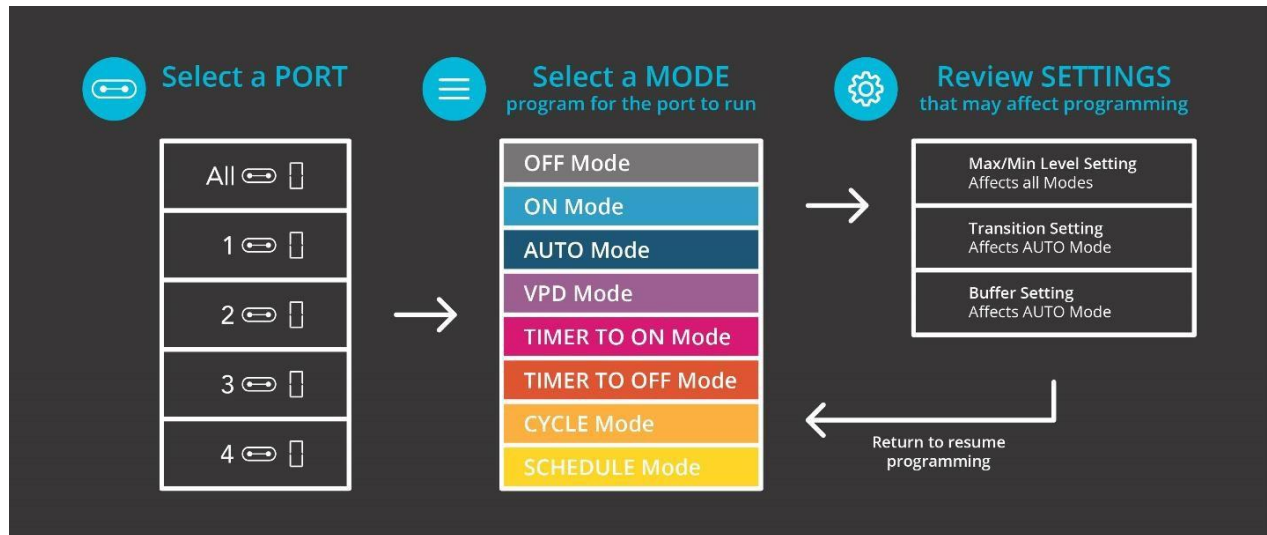
1. **Port Button** – Cycles through all of the connected devices.
2. **Mode Button** – Cycles through all of the controller's modes for that port.
3. **Setting Button** – Cycles through all of the controller's settings.
4. **Up/Down Buttons** – Adjusts the parameters of the mode or settings you are viewing.



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Programming Modes



- **OFF Mode** – Set the device to turn off.
- **ON Mode** – Set the device to run continuously at a level from 0 to 10.
- **AUTO Mode** – Set temperature and humidity triggers that will turn the device on or off.
- **VPD Mode** – Set VPD (vapor pressure deficit) triggers that will turn the device on or off.
- **TIMER TO ON Mode** – Set a one-time countdown that will turn the device on once it ends.
- **TIMER TO OFF Mode** – Set a one-time countdown that will turn the device off once it ends.
- **CYCLE Mode** – Set an on and off duration that your device will repeat continuously.
- **SCHEDULE Mode** – Set an on and off clock time that your device will repeat daily.

Controller Settings

- **Max and Min Level Setting** – Set the maximum and minimum level a device can run at, which affects all modes.
- **Transition Setting** – Set the device to ramp up in levels gradually as the temperature, humidity, and VPD gets further away from your set target. Only affects AUTO Mode.
- **Buffer Setting** – Set an on/off band to prevent your device from turning off too quickly as the temperature, humidity, and VPD fluctuate around your trigger point. Only affects AUTO Mode.
- **Other Settings** – Other controller settings including switching between F° and C°, display brightness, sensor calibrations, and more.



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Alert Icons



- 1. VPD Alert** – Flashes whenever either VPD mode triggers activate your device.
- 2. Trigger Alert** – Flashes whenever the temperature, humidity, or VPD triggers set *in the app* activate your devices.
- 3. Advance Programming** – Displays when an advance program set in the app is active.
- 4. Timer Alert** – Flashes when a countdown has completed in the TIMER, CYCLE, or SCHEDULE Mode.
- 5. Display Lock Alert** – Displays when you lock the controller.
- 6. Bluetooth/WiFi** – Appears when the physical controller is connected to the app via Bluetooth or WiFi.
- 7. Temperature/Humidity Alarm** – Flashes and beeps if the temperature/humidity meets the app trigger point.