



PV-AUV-CK Series

Highly Configurable UVC Systems for HVAC applications

The PV-AUV-CK Series is designed as a modular, highly flexible Ultraviolet-C (UVC) kit for Air Handling Unit (AHU) installations. The kit is simple to install and can be configured to provide exactly what's needed for a wide variety of AHU installations. The PV-AUV-CK Series is flexible enough to get everything you need and nothing you don't for almost any UVC application in an AHU. Standard configurations offer up to 16 lamps running from a single electronic enclosure. The PV-AUV-CK Series can be supplied with standard, coated or double-walled cell lamps, based on requirements of the installation. The Building Management System (BMS) option allows for lamp monitoring with relay output to a building's central monitoring system to ensure performance.



HVAC PV-AUV-CK Series Features

- Single control enclosure drives up to (16) lamp 36" or less (8 lamps up to 60")
- Lamp lengths: 18, 24, 36, 48, 60"
- Standard, shatterproof and double-wall cell lamps available all with proven, watertight lamp socket connection.
- Multi-voltage, multi-frequency for worldwide operation
- Main power switch and ballast on LED indication on front of enclosure
- Lamp cables available in 8, 12 and 30-foot lengths
- Easy to use mounting hardware utilizes snap-in lamp clips, allowing for tool-free lamp changes at end of lamp life
- Optional reflectors (upstream mounting) for additional UVC intensity

BMS option

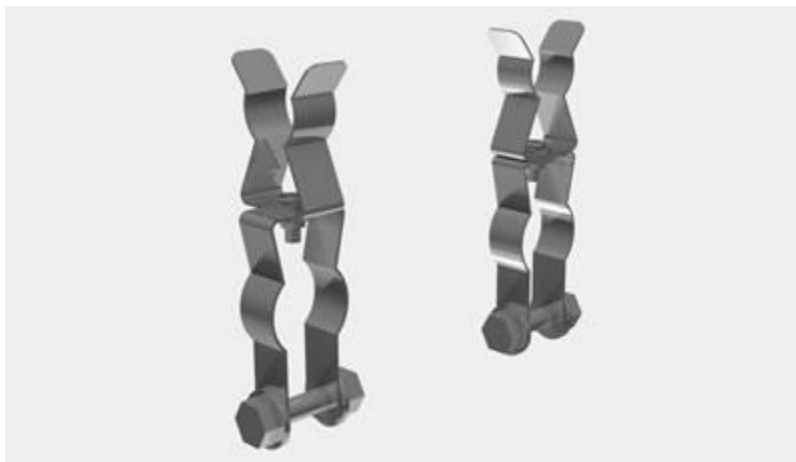
The addition of one or more lamp monitoring boards to a PV-AUV-CK enclosure allows remote monitoring of all lamps by external systems - such as a building management system - so PV-AUV-CK system status is available without anyone having to go inside the AHU.

Reflectors



Highly polished for maximum UVC reflectance, PV-AUV-CK series reflectors are designed to increase UVC energy delivered to the coil and drain pan in upstream installations

Mounting Clips



Snap-in stainless steel clips on one side allow tool-free lamp installation and replacement while securely holding lamps. The other side of the clip is made to clamp around standard electrical conduit

UVC Lamps



High Output, Low Mercury lamps are offered in 3 varieties for the PV-AUV-CK series: standard, "shatterproof" coated, and double-walled. All utilize a watertight connection to the incoming lamp power cable and are rated for 2 years of effective lamp life. Standard sizes from 18" to 60"

Prolonged, direct exposure to UVC light can cause temporary skin redness and eye irritation, but does not cause skin cancer or cataracts. These systems are designed with safety in mind and, when properly installed by a professional contractor, do not allow exposure to UV irradiation and allow for safe operation and maintenance.

(Specifications on the following page)

PV-AUV-CK Series Specifications

PV-AUV-CK Series Applications: The PV-AUV-CK Series is the perfect budget friendly, easy-to-install solution for existing or new air handling units. Lamps can be placed in multiple AHU's, and run from a single power enclosure.

Lamps

- High-output; 17,000 hour, low-mercury UVC lamps
- Lamps available as 18, 24, 36, 45 and 60"
- Water-tight lamp base connection
- Optional shatterproof coating

Power Supply

- Multi-voltage (110-277V) and multi-frequency (50/60Hz)
- LED indication of proper ballast functioning
- Lamp cables available up to 30' long
- Water-tight lamp cable connection into power supply
- Ballasts run single or dual lamp configurations

Mounting Hardware

- Designed to securely hold lamps
- Attach easily to rigid conduit

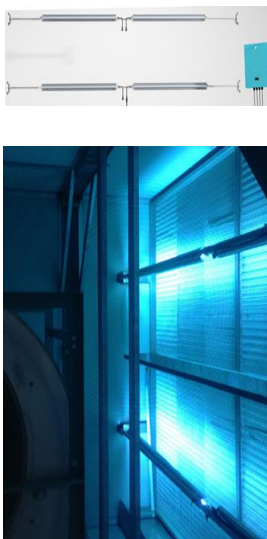
Features


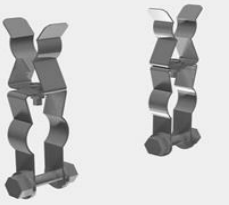
- Up to 16 lamps can run from a single enclosure
- Long-lasting lamps with high UVC output
- Multiple lamps of various lengths, and lamp cables, can be used from a single power enclosure
- Multi-voltage; multi-frequency for world wide compatibility
- Saves money while providing necessary UVC energy
- Moisture-resistant design ideal for AHU's
- 10-year warranty on ballasts


Benefits

- Decreased installation time
- Decreased installation costs
- Inexpensive conduit used as mounting rail
- Maximum installation flexibility because of modular design
- Decreased maintenance due to long lamp life (17,000 hours)
- Environmentally responsible low mercury content lamps

Support Information on the component variables:

CK series: In Duct + Coil Cleaning (or combination) subject to distance from Coil		
NOTES:	1: PV-AUV-CK series are not fixtures but devices that are assembled with a "kit of parts" on-site. These are ideal for plenums that are over 90" in width where (2) of the DC fixtures do not adequately cover the distance for the required dosage. The CK series is also ideal for plenums where the installation does not provide access to the outside of the AHU. This is sometimes the case when the AHU is situated against a wall.	
	2: The pricing does not include 3/4" conduit, which is the preferred mounting equipment for the Lamp Holders (Clips). The conduit is readily available by installers at local levels and is cut to the size of the plenum perpendicular to the lamps.	
ELECTRICAL ENCLOSURES		
Image	Model	Description
	PV-AUV-CK1	CK Series Electrical Enclosure - 1 ballast SMALL
	PV-AUV-CK2	CK Series Electrical Enclosure - 2 ballast SMALL
	PV-AUV-CK3	CK Series Electrical Enclosure - 3 ballast SMALL
	PV-AUV-CK4	CK Series Electrical Enclosure - 4 ballast SMALL
	PV-AUV-CK5	CK Series Electrical Enclosure - 5 ballast LARGE
	PV-AUV-CK6	CK Series Electrical Enclosure - 6 ballast LARGE
	PV-AUV-CK7	CK Series Electrical Enclosure - 7 ballast LARGE
	PV-AUV-CK8	CK Series Electrical Enclosure - 8 ballast LARGE
	CK Series electrical enclosures (2813-XX) can drive 2 high output lamps (up to 36") f or each ballast.	
	For 48 and 60" lamps, only one lamp can be driven per ballast	
All CK Enclosures are 120-277V/50-60Hz operation		
All CK Enclosures include (2) cord grip connectors for each ballast in the enclosure		

	BMS BOARDS (for monitoring via Building Management Systems)	
	PV-AUV-ACB-030	2-LAMP BOARD
	PV-AUV-ACB-031	4-LAMP BOARD
	REFLECTORS (these are for amplifying the coil cleaning, but not typically applicable in many cases for disinfection the air and the coil)	
	PV-AUV-2813-REF-18	REFLECTOR FOR 18" LAMP
	PV-AUV-2813-REF-24	REFLECTOR FOR 24" LAMP
	PV-AUV-2813-REF-36	REFLECTOR FOR 36" LAMP
	PV-AUV-2813-REF-48	REFLECTOR FOR 48" LAMP
	PV-AUV-2813-REF-60	REFLECTOR FOR 60" LAMP
	LAMP CABLES (1 per lamp)	
	PV-AUV-2567-02 8'	lamp cable with SureSeal connection
	PV-AUV-2567-04 12'	lamp cable with SureSeal connection
	PV-AUV-2567-05 30'	lamp cable with SureSeal connection
	LAMP HOLDERS (Clips)	
	PV-AUV-LHD165	LAMP CLIP ASSEMBLY (2 REQ'D PER LAMP)

	LAMPS	
	PV-AUV-GSL-18	18" CK SERIES LAMP
	PV-AUV-GSL-24	24" CK SERIES LAMP
	PV-AUV-GSL-36	36" CK SERIES LAMP
	PV-AUV-GSL-48	48" CK SERIES LAMP
	PV-AUV-GSL-60	60" CK SERIES LAMP 160.00
	PV-AUV-GTL-18	18" COATED LAMP
	PV-AUV-GTL-24	24" COATED LAMP
	PV-AUV-GTL-36	36" COATED LAMP
	PV-AUV-GTL-48	48" COATED LAMP
	PV-AUV-GTL-60	60" COATED LAMP
	PV-AUV-GCL-18	18" DOUBLE-WALL LAMP
	PV-AUV-GCL-24	24" DOUBLE-WALL LAMP
	PV-AUV-GCL-36	36" DOUBLE-WALL LAMP
	PV-AUV-GCL-48	48" DOUBLE-WALL LAMP
	PV-AUV-GCL-60	60" DOUBLE-WALL LAMP
CK structure and replacement lamps		
	The CK system structure	
	CK Replacement Lamps: See LAMPS (above)	