

TR HVA SERIES

Retrofit kit

The TR HVA retrofit kit is designed to offer the end user a cost effective way to increase the efficiency and lumen output of existing troffer fixtures.

Applications include general lighting, classrooms and retail applications.

TR HVA retrofit kits are available with a variety of lamp and ballast combinations allowing the customer to design the TR HVA system to meet or exceed existing light levels. The use of a ribbed acrylic center panel provides soft, comfortable illumination.

The TR HVA troffer retrofit is designed for easy installation in existing troffer fixtures.

Product Construction

The TR HVA fixture's socket bars are made from pre-painted heavy gauge cold rolled steel. They are designed to fit most standard troffer fixtures.

Optical Reflector

The system is precision brake formed. The one piece reflector is removable without the use of tools and is designed to simply snap into place.

Lampholders

Made of a Polycarbonate material; these locking-style lampholders are utilized to ensure positive lamp retention. Additionally, the material contributes to a longer life product in high temperature applications.

Lens

The TR HVA retrofit kit comes standard with a Diffuse Ribbed Acrylic.

Ballasts

All ballasts are electronic programmed-start (T5HO, Biax) or instant-start (T8) as a standard. Optional ballasts are available, consult factory for available systems and system specifications. Available voltages: 120v, 277v, 347v, voltage sensing 120-277v and 347-480v.

Listings

All fixtures are UL and CUL listed.

Please specify when ordering

Fixture Series	Lens	Size (FT)	# of Lamps	Lamp Type	Voltage	# Ballasts	Ballast Type	Reflector	Options	Lamp Color	Lamp Options
TR											

Fixture ordering guide

Fixture Series	Lens	Size (FT)	# of Lamps* 1	Lamp Type	Voltage	# Ballasts	Ballast Type	Reflector	Options	Lamp Color	Lamp Options* 3
TR	HVA	14	1	14	BLANK	BLANK	NB*2	E	E ()	BLANK	HP
		22	2	17	12	1	HI		F	830	A
		24		24	27	2	LI		SDT	835	TG*4
				28	34		SI		US*2	841	SS*4
				32	UV		SI+		NS	850	ES ()
				40	HV		PS				XL
				50			PSL				
				54			PSH				
				55			PD				
							SDH				
							AX				

*1 1x4 fixture available with up to 1 - 32/54w lamps or 2-28w lamps; 2x2 fixture available with up to 2 - 14/17/24/40/50/55w lamps; 2x4 fixture available with up to 2 - 28/32/54w lamps.

*2 TR HVA ordered with No Ballast will be shipped with Shunted Sockets, unless Unshunted Sockets are specified.

*3 Consult factory for manufacturing specific ordering codes/availability.

*4 Use in lensed fixtures is limited. Contact factory for specific application details.

Available fixture selections

Lens Selections	Lamp Type Selections	Ballast Selections	Options Selections	Lamp Color Selections
HVA Diffuse Ribbed Acrylic	14 F14T5HO System 17 F17T8 System 24 F24T5HO System 28 F28T5HO System 32 F32T8 System 40 FT40W/2G11 System 50 FT50W/2G11 System 54 F54T5HO System 55 FT55W/2G11 System	NB Ballast Not Included HI High Ballast Factor (HBF) Electronic* LI Low Ballast Factor (LBF) Electronic* SI Standard Ballast Factor (NBF) Electronic* SI+ I.OBF Electronic* PS Programmed Start (NBF) PSL Programmed Start LBF* PSH Programmed Start HBF** PD Programmed Start Dimming SDH Step Dimming HBF (100% to 60% Dimming)* AX Daylight Harvesting Ballast with Remote Mount Photosensor*	E () Emergency Pack (# Lumens) F Inline Fuse SDT Step Down Transformer (480V to 277V) US Unshunted Sockets NS No Sockets	BLANK Lamps Not Included 830 80+ CRI, 3000K 835 80+ CRI, 3500K 841 80+ CRI, 4100K 850 80+ CRI, 5000K
	Voltage Selections BLANK No Ballast 12 120V 27 277V 34 347V UV 120-277V HV 347-480V	* T8 Only ** T8, 40w & 50w Biax Only	Reflector Selections E Enhanced Aluminum W Highly Reflective White Aluminum B 95% Reflective Extreme White Aluminum	Lamp Options Selections HP High Performance, Long Life Lamps* A Amalgam Tip Lamps** TG Tubeguarded Lamps SS Shattershielded Lamps ES () Energy Saver (Specify Wattage)*** XL Long Life*
				* T8 Only ** 54w, T5HO Only *** 32, 40, 54w Only

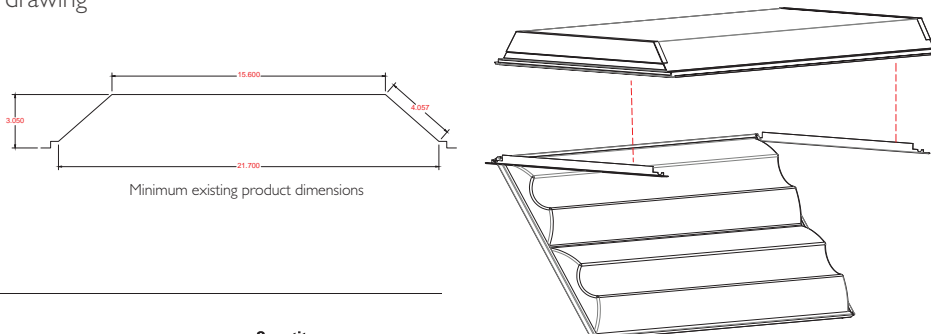
Common fixture selections

Catalog number	System	# of lamps	Wattage (120/277V)*	Initial system lumens (120/277V)*	Mean system lumens (120/277V)*
TR HVA 14 132 UV 1LI E	T8	1	25w / 25w	2,387	2,310
TR HVA 22 217 UV 1HI W	T8	2	41w / 41w	3,690	3,567
TR HVA 24 232 UV 1PSH B	T8	2	78w / 74w	7,316 / 7,192	7,080 / 6,960
TR HVA 24 254 UV 1PS E	T5HO	2	120w / 117w	10,000	9,500

*Wattages may vary depending on the ballast manufacturer and lamp type used.

Initial and mean system lumens are the initial/mean lumen output of the lamp/ballast system as rated by lamp and ballast manufacturer and may vary from manufacturer to manufacturer. Specifications and dimensions subject to change without notice. Contact Philips Optimum for current availability and ordering information

Dimensional drawing



Fixture Type: _____

Catalog #: _____ Quantity: _____

Project: _____