

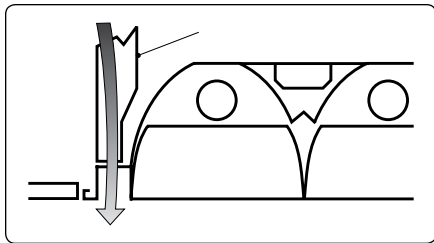
RECESSED OPTIONS

Air Handling

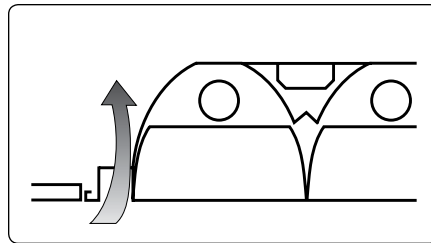
TECHNICAL

BASIC AIR FUNCTIONS

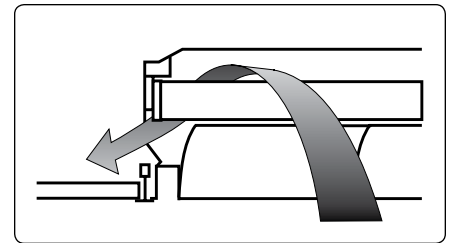
Designation	Description	Air Function
-S	Static	No air flows through fixture.
-A	Air Supply/Return	Air flows into room from plenum or back into plenum from room. We provide slots in housing. For optional vanes, see below.
-H	Heat Extract	Slots are provided in end cap or back of housing (instead of through black reveal). Units without a black reveal feature slots in door for air passage to lamp compartment. For optional dampers, see below.
-C	Combined	Both the -A and -H functions above are combined in one unit.



SUPPLY



RETURN



EXTRACT THROUGH END CAP
Note: Some units extract air through back of fixture housing.

AIR FUNCTION CONTROL OPTIONS

Vanes (V) Also referred to as air pattern blades or directional air vanes.

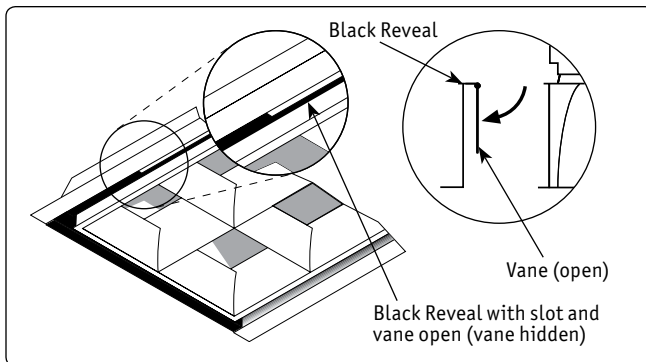
Vanes work with supply/return air (-A or -C). Vanes open outward, from 0 to 90 degrees, like a door swinging open. To control air flow, adjust opening as desired or close completely. When used on a -C fixture, vanes operate independently of dampers.

Dampers (D) Also referred to as heat removal dampers or control dampers.

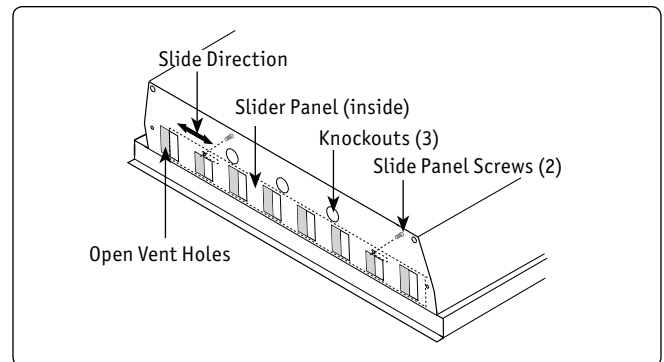
Dampers work with extract air (-H, -C). Dampers slide open, like a window. To control air flow, adjust opening as desired or close entirely. When used on a -C fixture, dampers are controlled independently of vanes.

Designation	Description
-AV	Air Supply/Return with Vanes
-CV	Combined with Vanes Only
-CVD	Combined with Vanes and Dampers

Designation	Description
-HD	Heat Extract with Dampers
-CD	Combined with Dampers Only



AIR WITH VANES (SUPPLY/RETURN OPTIONS)

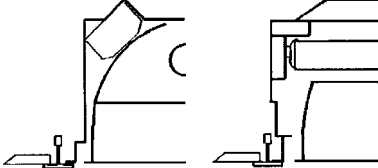
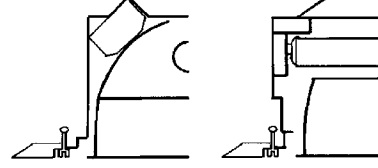
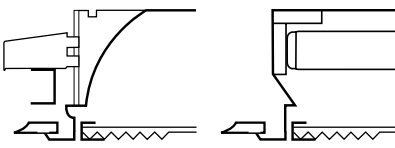
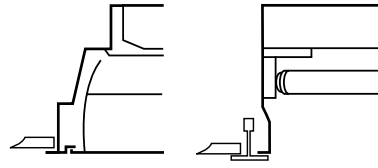
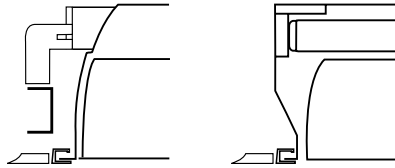


DAMPERS (EXTRACT OPTION)

RECESSED OPTIONS

Ceiling Trims

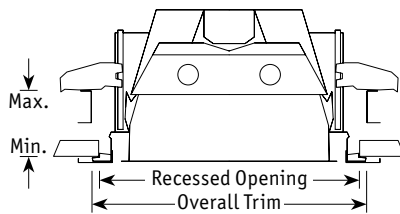
TECHNICAL

Ceiling Type	Recommended Trim	Cross Section	Availability
1" T-Bar	G (Grid)		45, 4PS, 4VS, 5PA, 6PA, AC, BR, CRC, CRF, CRS, EMI, EMS, EMX, EPC, FW, HC, HH, HV, JT8, STR, STRL, STS, STSL, VC, VHC, WT, ZPT
		For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 1½" allowed.	
¾" Slot Grid	SG (Slot Grid)		45, 5PA, 6PA, BR, HC, P4, PW, STR, STRL, STS, STSL
		For slot grid type ceilings with nominal ¾" face and ⅜" tall shoulder, louver will be level with the ceiling plane.	
Hard Ceiling	F (Flange)		45, 4PS, 4VS, 5PA, 6PA, AC, CRC, CRS, FLSB, HC, HH, HV, HZ, LHG, LSL, M46, P2, P4, ST8, VHC, WT
		For tile, plaster, or plasterboard type ceilings. Overlapping extruded aluminum trim conceals edges of ceiling opening. Wing hanger suspension system included. Designate INT (intermediate) or EOR (end of row) for fixtures in row applications.	NP and CRC series flange use yoke hanging system (not illustrated). For fixtures not available with integral (F) flanges, order (G) trim with corresponding Flange Kit (see pg. 106)
1" Tee across fixture ends. Supplied side trim support ceiling tile along length	GT (Integral Cross -tee)		4594, BR04, LSL84, NP, PVHC94, VHC94
		For lay-in installation in grid ceilings. Fixture mounts on exposed tees at ends of fixture. Sides act as integral cross-tee to support tile, eliminating need for intermediary tees. Designed for nominal 1" tees.	
Metal Pan	M (Modular)		45, 4PS, 4VS, 5PA, 6PA, HC, LHG, P2, P4
		For metal pan ceilings "Fit-in" style extruded trim aligns with modular tile joints. Fixture is supported from concealed suspension and includes all adjustable wing hangers.	

Recessed units available for Surface Mount (SM) applications:
45, BR, CRS, EMS, EPC, FW, HC, LHG, LSL, P2, P4, PW, STR, STRL, STS, STSL, VHC, ZPT. Refer to ordering guide to build.

RECESSED OPTIONS

Flange Trims



DIMENSIONAL EXAMPLE

PARABOLICS

Series	Size	Vertical Wing Hanger Adjust		Overall Trim Dimensions		Single or Row		Rough-In Dimensions			
		Min.	Max.	Width	Length	Width	Length	Specify option INT (intermediate) or EOR (end of row).			
								Row Length			
Nom. Length	Multiply by	Plus	Example								
P4, HC	1' x 4'	1 1/4"	4 1/4"	12 ¹³ / ₁₆ "	48 ¹³ / ₁₆ "	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	3 7/8"	24 ¹³ / ₁₆ "	24 ¹³ / ₁₆ "	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	3 7/8"	24 ¹³ / ₁₆ "	48 ¹³ / ₁₆ "	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
45	1' x 4'	1"	3 1/4"	12 ¹³ / ₁₆ "	48 ¹³ / ₁₆ "	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	3 7/8"	24 ¹³ / ₁₆ "	24 ¹³ / ₁₆ "	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	3 7/8"	24 ¹³ / ₁₆ "	48 ¹³ / ₁₆ "	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
VHC, PVHC	9" x 4'	2"	4"	10 1/2"	48 3/4"	9 7/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"

LENSED TROFFERS

Series	Size	Vertical Wing Hanger Adjust		Overall Trim Dimensions		Single or Row		Rough-In Dimensions			
		Min.	Max.	Width	Length	Width	Length	Specify option INT (intermediate) or EOR (end of row).			
								Row Length			
Nom. Length	Multiply by	Plus	Example								
4PS, 4VS	1' x 4'	7/8"	3"	12 3/4"	48 3/4"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	2 7/8"	24 3/4"	24 3/4"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	2 7/8"	24 3/4"	48 3/4"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
5PA	1' x 4'	7/8"	3"	12 3/4"	48 3/4"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1 1/4"	2 7/8"	24 3/4"	24 3/4"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	2 7/8"	24 3/4"	48 3/4"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
6PA	1' x 4'	1 1/4"	4 1/4"	12 ¹³ / ₁₆ "	48 ¹³ / ₁₆ "	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	3 7/8"	24 ¹³ / ₁₆ "	24 ¹³ / ₁₆ "	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	3 7/8"	24 ¹³ / ₁₆ "	48 ¹³ / ₁₆ "	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
ST8, WT	1' x 4'	1"	3 3/16"	12 3/4"	49 5/8"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	3 3/16"	24 3/4"	24 3/8"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	3 3/16"	24 3/4"	49 5/8"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
CRS (FA Door)	1' x 4'	1 3/4"	4 1/2"	12 ¹⁵ / ₁₆ "	49 ¹¹ / ₁₆ "	11 1/4"	48 1/4"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1 3/4"	4 1/2"	24 ¹⁵ / ₁₆ "	24 3/4"	23 1/4"	24 1/4"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1 3/4"	4 1/2"	24 ¹⁵ / ₁₆ "	49 ¹¹ / ₁₆ "	23 1/4"	48 1/4"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
CRS (FCS & FSS Door)	1' x 4'	1 3/4"	4 1/2"	12 ¹¹ / ₁₆ "	48 7/8"	12"	48 1/4"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1 3/4"	4 1/2"	24 ¹¹ / ₁₆ "	24 7/8"	24"	24 1/4"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1 3/4"	4 1/2"	24 ¹¹ / ₁₆ "	48 7/8"	24"	48 1/4"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
CRC	1' x 4'	3 5/8"	4 1/8"	12 3/4"	48 3/4"	12"	48"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	3 5/8"	4 1/8"	24 3/4"	24 3/4"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	3 5/8"	4 1/8"	24 3/4"	48 3/4"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"