



PRODUCT SPECIFICATION

MODEL: V8540H

PRODUCT CODE: 1641

DESCRIPTION: EXPLOSIONPROOF HOUSING

- Complies with National Electrical Code and UL standards
- Heater and blower accessories available
- Outdoor, explosionproof
- Easy installation and serviceability



The V8540H Explosionproof Housing is suitable for both indoor and outdoor installations. It is constructed of seamless aluminum tubing, and the front window is made of tempered glass for distortion-free viewing.

The housing is equipped with an adjustable mounting bracket, a slide-out camera platform, and removable end caps. Conduit fittings are supplied on the rear end caps for ease of installation and service. See Figure 1 for outline drawing and Figure 2 for mounting plate hole pattern.

Accessory kits are available to provide a heater and blower with a thermostat control to maintain constant temperature within the housing. The heater provides 50 watts of heating power and may be used with 120 VAC and 230 VAC power. A preset thermostat turns on the heater when the temperature falls below 40° F (4.4° C) and turns on the blower when the internal temperature rises above 90° F (32.2° C).

The V8540H Explosionproof Housing complies with the National Electrical Code and UL 1203 Class I, Division 1, Groups C and D, and Class II, Division 1, Groups E, F, and G.

NOTES	SPEC NO.	REV.	SEC.
SUPERSEDES PRODUCT SPECIFICATION 626-295	626	198	6



V8540H EXPLOSIONPROOF HOUSING

NOTE: The internal diameter of the housing is 4.7 in. (11.9 cm), and the free space above the camera mounting rail is 3.8 in. (9.6 cm). Refer to Figure 3. The dimensions given for maximum camera/lens height and width are based on a rectangular solid. Other sizes and shapes of camera/lens combinations may fit, but they must be physically tested for fit.

ASSOCIATED EQUIPMENT AND ACCESSORIES

Model V8540H-H Heater and Thermostat Assembly: Provides 50 watts of heating power. Thermostat preset for closure at temperatures below +40° F (+4.4° C). Weighs 0.25 lb (0.1 kg). One model may be used with either 120 VAC or 230 VAC input power. Product code 1644. Product Specification 760.

Model V8540H-B Blower and Thermostat Assembly: Turns on when temperature rises above +90° F (+32.2° C). Requires 8.5 W power. Weighs 0.09 lb (0.04 kg). Product code 1645 for 120 VAC; product code 1645-01 for 230 VAC. Product Specification 760.

CONTRACTORS' SPECIFICATION

EXPLOSIONPROOF HOUSING

The housing shall be an explosionproof enclosure for small CCTV camera/lens combinations. Construction shall be of aluminum for protection from radio frequency (RF) interference. The housing shall be a seamless cylinder. Exterior dimensions shall not exceed: height, 6.0 in. (15.2 cm); width, 5.25 in. (14.0 cm); length, 26.7 in. (67.8 cm). It shall be suitable for use with camera/lens systems with dimensions not exceeding: height, 2.75 in. (7.0 cm); width, 3.5 in. (8.9 cm); length, 11.0 in. (27.9 cm). A tempered glass viewing window, 3.1 in. (7.9 cm) diameter, shall be installed in the front end cap. The unloaded unit weight shall not be greater than 16 lb (7.3 kg). Withdrawal of the rear end cap shall provide full access to the camera/lens assembly and any housing accessories. All electrical connections to the unit shall be made through conduit fittings in the rear end cap. The housing shall comply with the National Electrical Code and UL standard 1203 Class I, Division I, Groups C and D, and Class II, Division I, Groups E, F, and G. The following options shall be available: thermostatically-controlled heater; thermostatically-controlled blower. The thermostats shall turn on the heaters when the internal housing temperature falls below 40° F (4.4° C) and turn on the blower when the temperature rises above 90° F (32.2° C). The explosionproof housing shall be Vicon model V8540H.

Product specifications subject to change without notice.

Vicon part number 8006-7626-02-00

TECHNICAL INFORMATION

ELECTRICAL

Accessory Power: See Table 1.

MECHANICAL

External Dimensions: See Figure 1.
Height: 6.0 in. (15.2 cm).
Width: 5.25 in. (13.3 cm).
Length: 20.1 in. (51.1 cm).
With fittings, 26.7 in. (67.8 cm).

Maximum Camera/Lens Dimensions: See NOTE, page 1.
Height: 2.75 in. (7.0 cm).
Width: 3.5 in. (8.9 cm).
Length: 11.0 in. (27.9 cm).

Construction: Housing: tubular aluminum alloy.
Window: 3/8-in. tempered glass.

Clear Window Area: 3.1 in. (7.9 cm) diameter.

Finish: Exterior: white baked enamel.

Cable Entry Ports: Two Crouse-Hinds EYS11 explosionproof factory sealed fittings, with 54 inches of signal and power cable attached. (Belden 9254 13-conductor closed-circuit cable; Belden 19230 3 conductor power cable.)

Housing Mounting: Adjustable mounting bracket. Seven 0.281 in. (0.714 cm) dia. holes. See Figure 2.

Camera Mounting: Slide-out platform.

NEMA Standard: 3*.

CE Standard: IP54*.

UL Standard: 1203 Class I, Division 1, Groups C and D, and Class II, Division 1, Groups E, F and G.

Weight: 16 lb (7.3 kg).
With options: 17.5 lb (7.94 kg).

Shipping Dimensions: Height: 11.5 in. (29.2 cm).
Width: 10.75 in. (27.3 cm).
Length: 30.4 in. (77.2 cm).

Shipping Weight: 20 lb (9.1 kg).

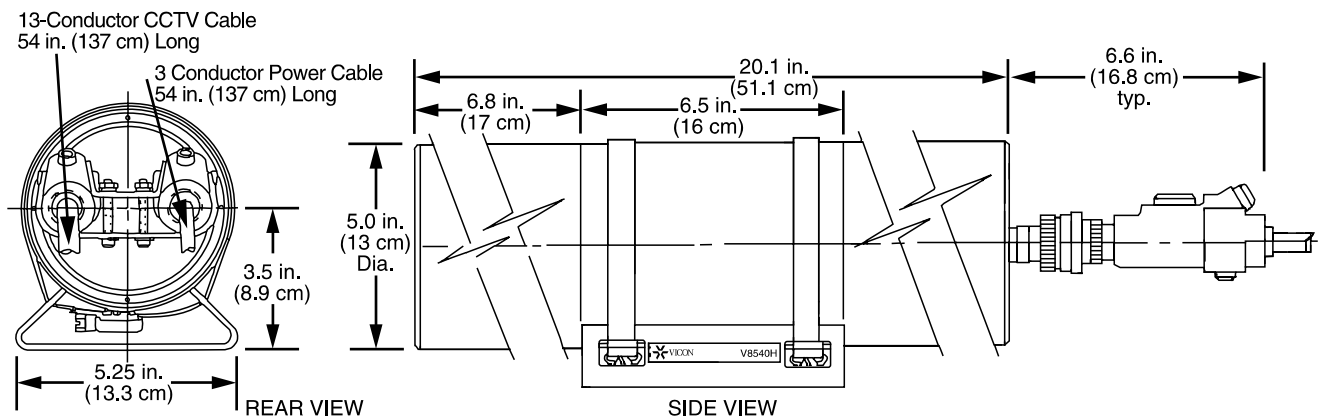
Shipping Volume: 2.2 ft³ (0.06 m³).

**Based on engineering evaluation and test. Not tested independently.*

**TABLE 1
ACCESSORY POWER**

Model	Power Consumption	Heat Equivalent [†]
V8540H-H	50 W	2.8 btu/min (0.7 cal/min)
V8540H-B	8.5 W	0.5 btu/min (0.1 cal/min)

[†]These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.



**Figure 1
Outline Drawing**

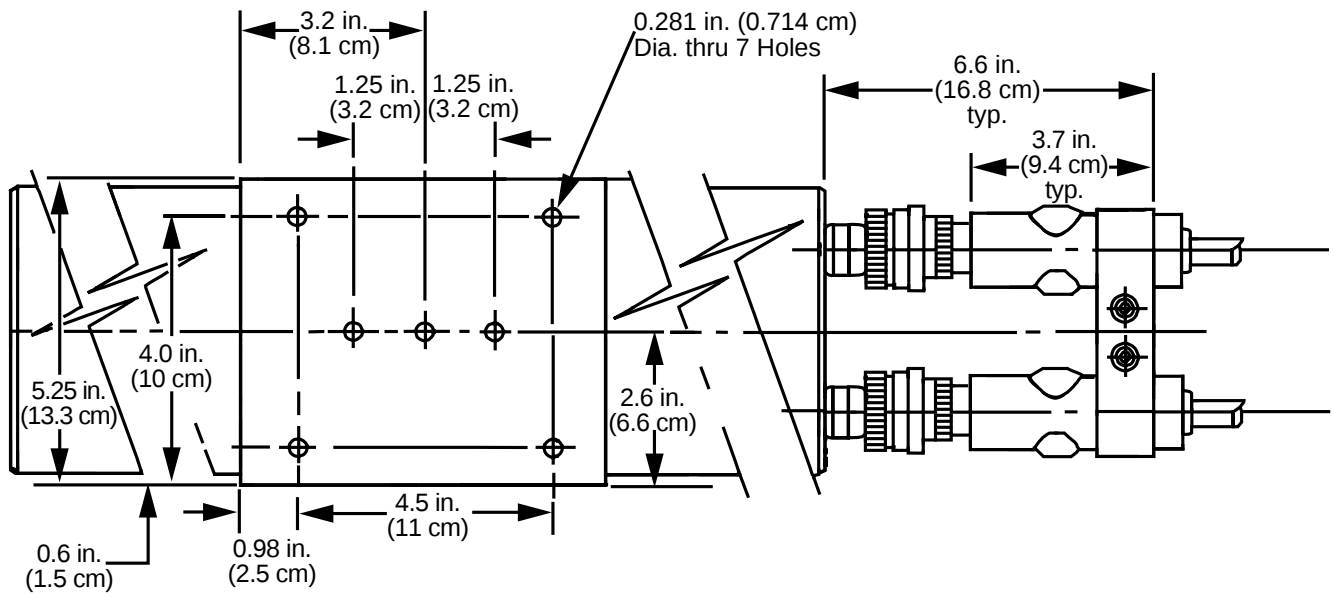


Figure 2
Mounting Plate Dimensions

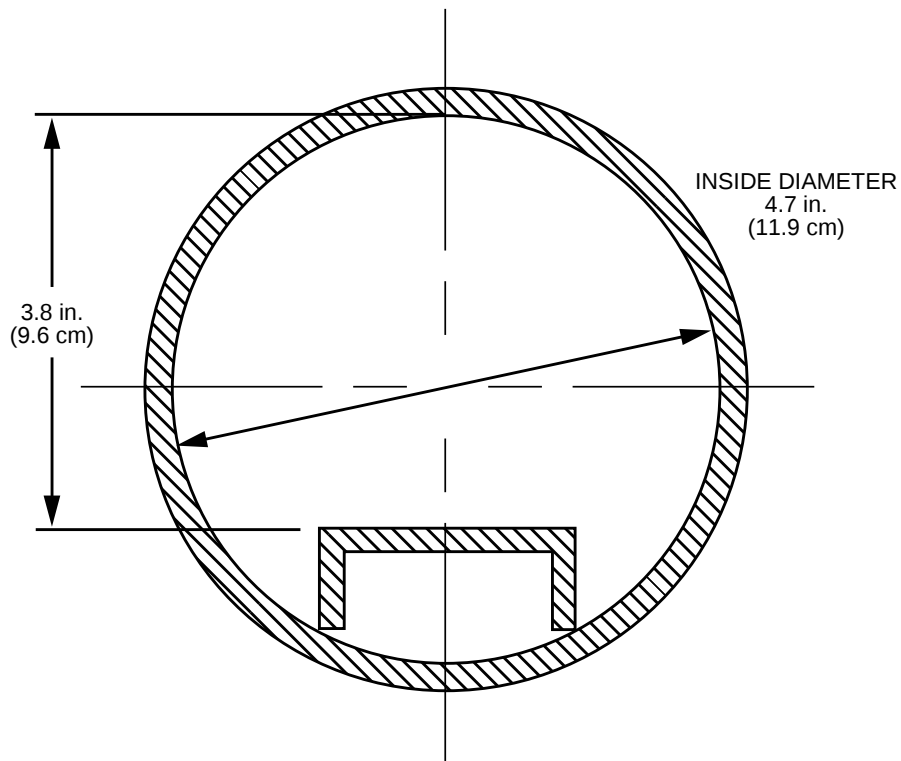


Figure 3
Internal Cross-Section Dimensions