The Unico System®

M SERIES VERTICAL RETURN PLENUM MODULE

Model Number Key

M 2430 V 1 -
① ② ③ ④ ⑤

① **Unit Type**
M=Modular

② **Nominal Capacity**
2430=24000 to 30000 Btu/hr
(7.0 to 8.8 kW)
3036=30000 to 36000 Btu/h
(8.8 to 10.5 kW)
3642=36000 to 42000 Btu/hr
(10.5 to 12.3 kW)
4860=48000 to 60000 Btu/hr
(14.0 to 17.5 kW)

③ **Module Type**
V=Vertical Return Plenum

④ **Revision Number**
1, 2, 3, etc.

⑤ **Paint Color**
(blank) = None
1 = White

* A cross-reference chart listing current and past model numbers is
available at the end of this bulletin.

Figure 1. Typical Vertical Plenum Module. Hot water
coil available separately.

General

All Unico System modular air handlers are shipped from
the factory configured for horizontal airflow. They may
also be configured for vertical up-flow with the addition
of a vertical conversion kit. Most applications designed
for vertical configuration use a base plenum to elevate
the unit for proper condensate drainage. The Unico
System vertical plenum module eliminates the need for
the installer to build a base.

Features and Scope

The vertical plenum module features a built in secondary
drain pan with a 3/4" PVC socket connection, pleated
filter, and room for an optional hot water coil. There are
access panels on both sides so that the heating coil may
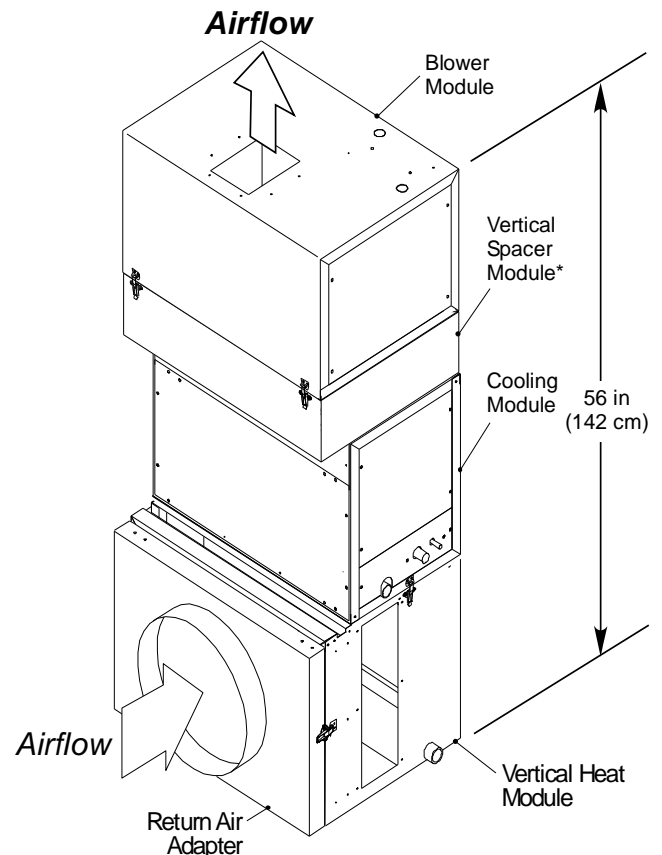be inserted from either side.

The plenum module may be connected to a heating
module return adapter, p/n: UPC-104, or operated as a
free or "wild" return. If the air is filtered elsewhere, such
as at a filter grille, then the central filter in the module
may be removed.

Cabinet Construction

The cabinet is constructed of 22 gauge (0.030 in, 0.76
mm) galvanized steel with removable access panels on
both sides for ease of service. All access panels are
secured with slotted hex head washer screws and
hardened steel U-clip nuts to prevent stripping. The
cabinet is fully lined with closed cell insulation and does
not contain fiberglass insulation. Easy snap latches are
included for quick field assembly with the matching
modules. See dimensional drawing for additional
information

**Typical Vertical Installation
with Vertical Heat Module**

Optional Hot Water Coil

Refer to Bulletin 20-020.4, *"M Series Heating Module"*, for hot water coil specifications and performance. The following table indicates the proper size hot water coil to use.
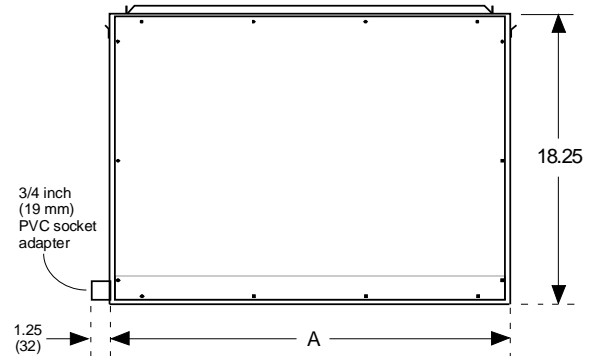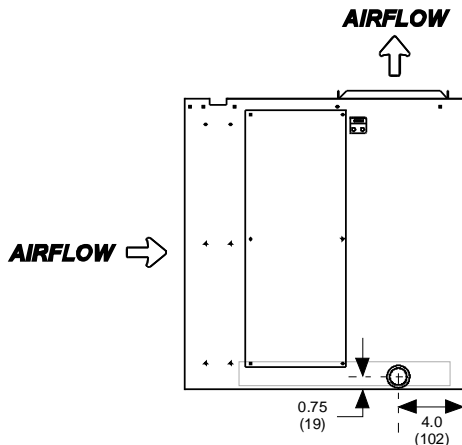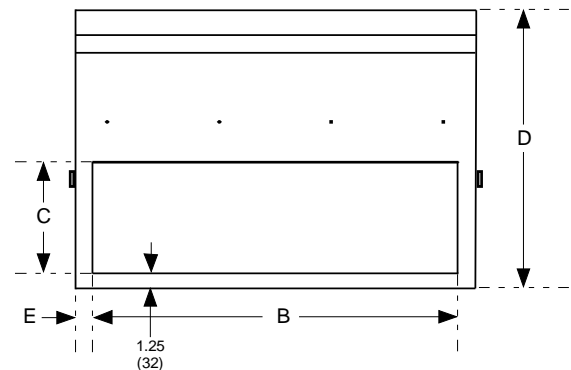
Vertical Plenum Model	Matching Hot Water Coil Model	Maximum Capacity [Btu/hr, (kW)]
M2430V1	HW2430	62,400 (18.3)
M3036V1	HW3036	81,600 (23.9)
M3642V1	HW3642*	120,000 (35.2)
M4860V1	HW4860*	120,000 (35.2)

Filter and Airflow Specifications

Model	Filter Size (Pleated filter recommended)		Filter Qty	Maximum Airflow [CFM, (L/s)]	Initial Filter Resistance
	inches	mm			
M2430V1	1 x 25 x 18	25 x 457 x 635	1	750 (354)	0.22 in. w.c. at 375 FPM (0.054 kPa at 1.9 m/s)
M3036V1	1 x 30 x 18	25 x 762 x 431	1	900 (425)	
M3642V1	1 x 20 x 18 \n 1 x 18 x 18	25 x 508 x 457 \n 25 x 457 x 457	1 \n 1	1000 (472)	0.40 in. w.c. at 500 FPM (0.100 kPa at 2.5 m/s)
M4860V1	1 x 20 x 18 \n 1 x 18 x 18	25 x 508 x 457 \n 25 x 457 x 457	1 \n 1	1250 (590)	

Cabinet Dimensions

Model		M2430V1	M3036V1	M3642V1	M4860V1
Dimensions [in., (mm)]	A	25.00 (635)	30.00 (762)	38.00 (965)	38.00 (965)
	B	22.76 (578)	27.76 (705)	35.76 (816)	32.08 (815)
	C	6.82 (173)	6.82 (173)	6.82 (173)	9.35 (237)
	D	17.50 (445)	17.50 (445)	17.50 (445)	23.00 (584)
	E	1.00 (25)	0.96 (24)	4.00 (102)	4.08 (104)

AIRFLOW

AIRFLOW

0.75 (19) 4.0 (102)

1.25 (32)

1.25 (32)

3/4 inch (19 mm) PVC socket adapter

18.25

A

D

C

E   B

IL00285c.cnv

Parts List

IL00408.cvx

Vertical Spacer Module**

A

A

6.0 (152)

18.25 (464)

17.5 (445)

D

Filter(s)

Vertical Plenum Module

Filler Plate
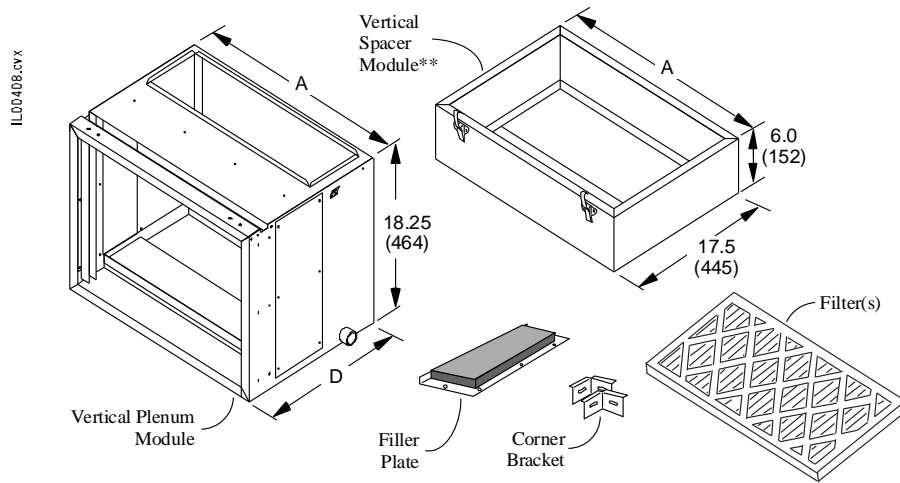
Corner Bracket

Vertical Plenum Kit

Kit Includes:
- Vertical Plenum Module
- Vertical Spacer Module**
- Pleated Filter(s)
- 1 Insulated Filler Plate
- 2 Corner Brackets
- Screws
- Latches
- Latch Keepers
- Insulation strips

Features:
- Horizontal to vertical system conversion kit included
- Easy to install.

**Vertical Spacer Module is not required or included with the MV4860.

Model Number Cross-Reference Chart

Current Model Number	Past Model Number
M2430V1	MV2430
M3036V1	None
M3642V1	MV3642
M4860V1	MV4860