

**COMMERCIAL HEAT-VENT-COOL
MODULAR INDOOR SYSTEM****COMMERCIAL
GSR21**

Bulletin #210114

July 1996

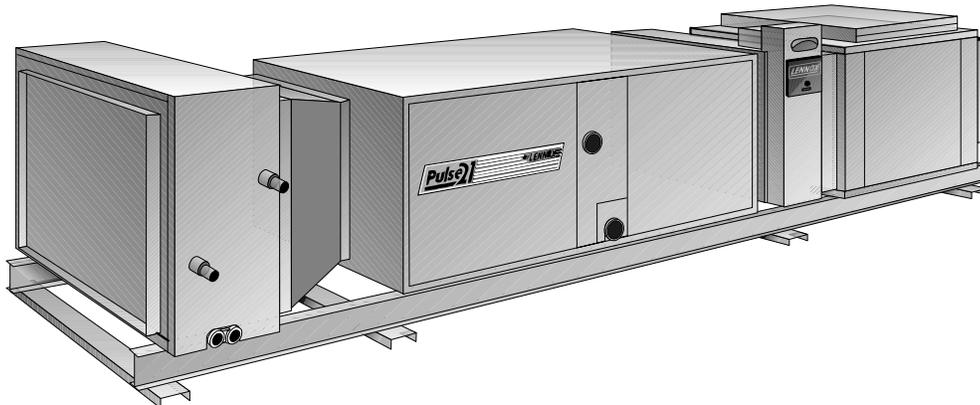
Supersedes

480076

June 1989 (U.S.)

485027

August 1989 (Canada)



Application – GSR21 Commercial HVAC modular indoor system concept consists of a horizontal support frame capable of handling several components in a suspended installation.

Components include:

- MF21-65 Horizontal Mounting Frame
- GSR21Q3-80, GSR21Q4/5-80 or GSR21Q4/5-100 Lennox PULSE21™ Horizontal Furnace or, GSR21V3-80, GSR21V5-80 or GSR21V5-100 Lennox PULSE21V™ Horizontal Furnace
- CH23 Horizontal Evaporator Coils
- EMD14-65 Economizer Dampers
- EAC12 Electronic Air Cleaner, CAC12 Clean Air Case or MF1-20 Air Cleaner (U.S. only)
- Adaptors
 - Air Cleaner to Furnace and Economizer
 - CH23 Evaporator Coil to Furnace

Telescoping mounting frame is capable of accepting various combination of these components and is applicable to ducted systems.

A wiring harness kit, programmable thermostat and subbase (2 stage heat – 2 stage cool) and related controls are available with the economizer damper section. Two complete HVAC systems may be controlled by one thermostat.

MF21-65 Horizontal Support Frame – Constructed of heavy gauge steel with a baked-on enamel paint finish. Frame telescopes to accommodate various combinations of system components. Four cross braces are furnished with frame. Only three braces are required when economizer dampers are not used. Support rails have assembly and suspending holes. Hardware is furnished for field assembly. Suspending rods must be furnished by installer.

Shipping weight: 60 lbs. (27 kg)

FA14 Air Cleaner Adaptor (U.S. Only)– Adaptor (15H36) is constructed of heavy gauge galvanized steel with a baked-on enamel paint finish, fully insulated with thick fiberglass insulation. Two adaptors (furnished per order no.) are required to match EAC12, CAC12 or MF1-20 air cleaner to furnace and economizer.

Shipping weight: 8 lbs. (4 kg)

Unit Reference Data – See individual unit Engineering Handbook bulletins in the following tab sections:

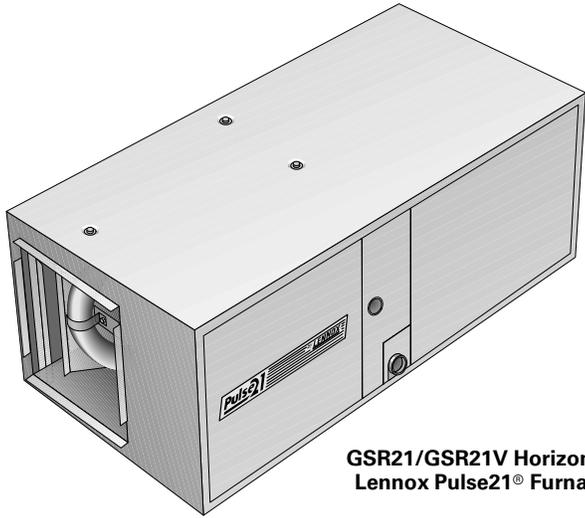
GSR21/GSR21V Horizontal Gas Furnaces – Gas Units Tab

EMD14-65 Economizer Dampers – Accessories Tab

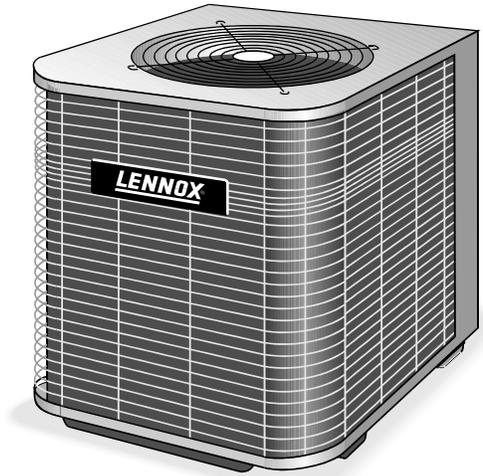
Condensing Units – Condensing Units Tab

EAC12, CAC12 and MF1-20 Air Cleaners – Accessories Tab

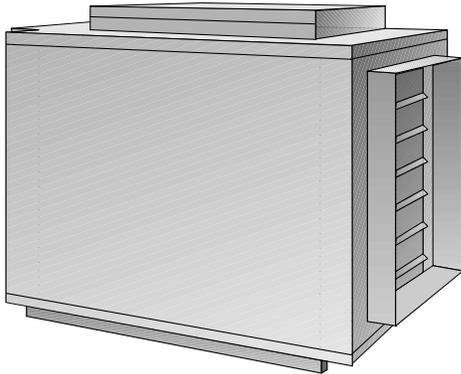
SYSTEM EQUIPMENT



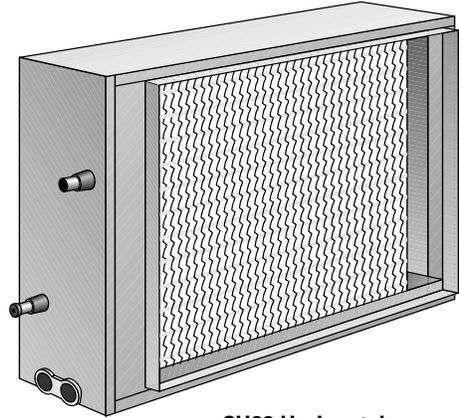
**GSR21/GSR21V Horizontal
Lennox Pulse21® Furnace**



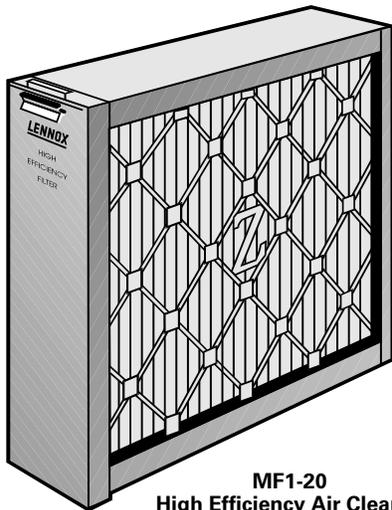
Matching Condensing Unit



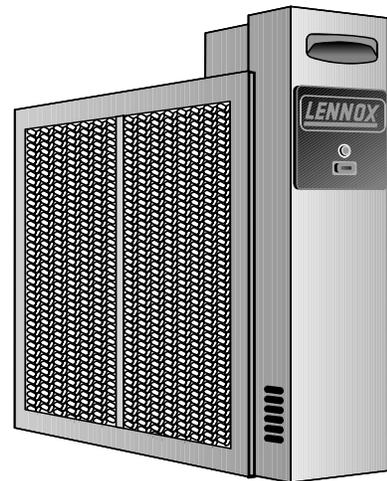
EMD14 Economizer Dampers



**CH23 Horizontal
Evaporator Coil**

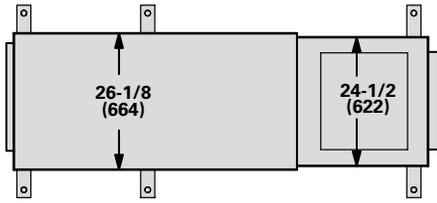


**MF1-20
High Efficiency Air Cleaner**

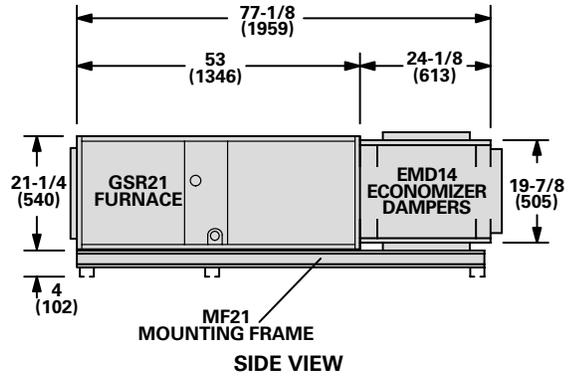


**EAC12
Electronic Air Cleaner**

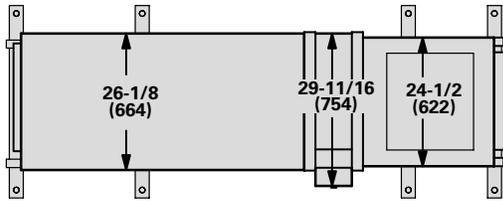
Not Shown – CAC12 (Similar to EAC12)



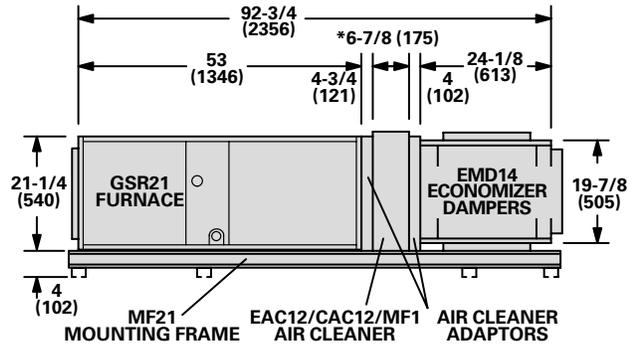
TOP VIEW



SIDE VIEW

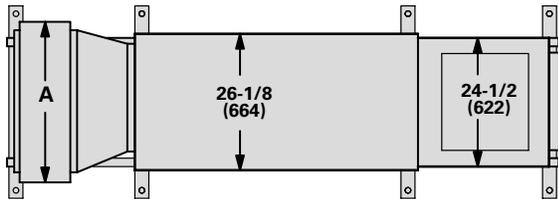


TOP VIEW



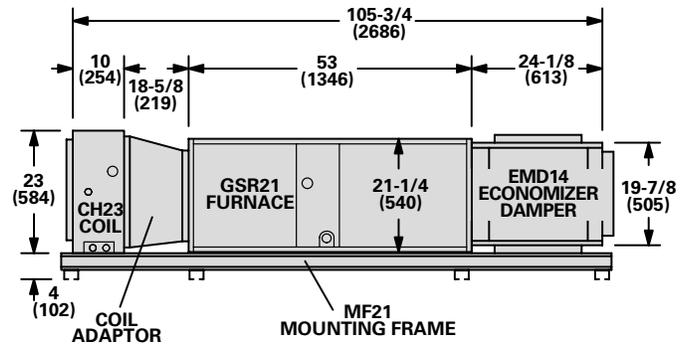
SIDE VIEW

*MF1-20 is 7-3/16 (183)

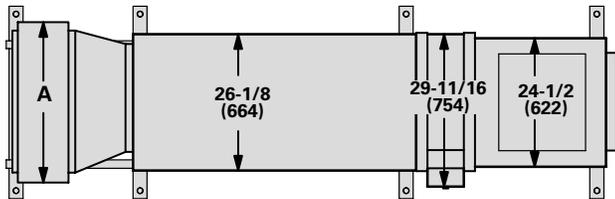


TOP VIEW

"A" Dimension
 CH23-41 31 in. (787 mm)
 CH23-51 35 in. (889 mm)
 CH23-65 41 in. (1041 mm)

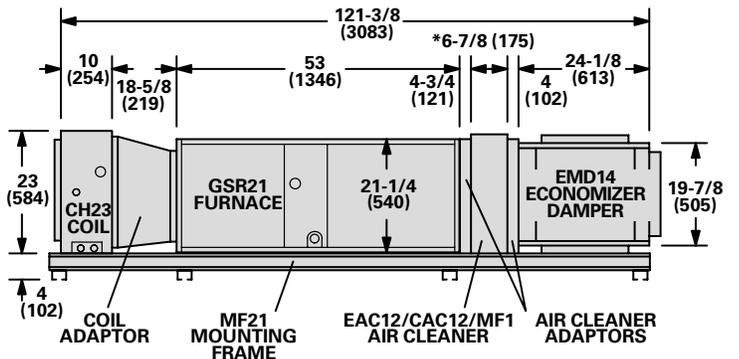


SIDE VIEW



TOP VIEW

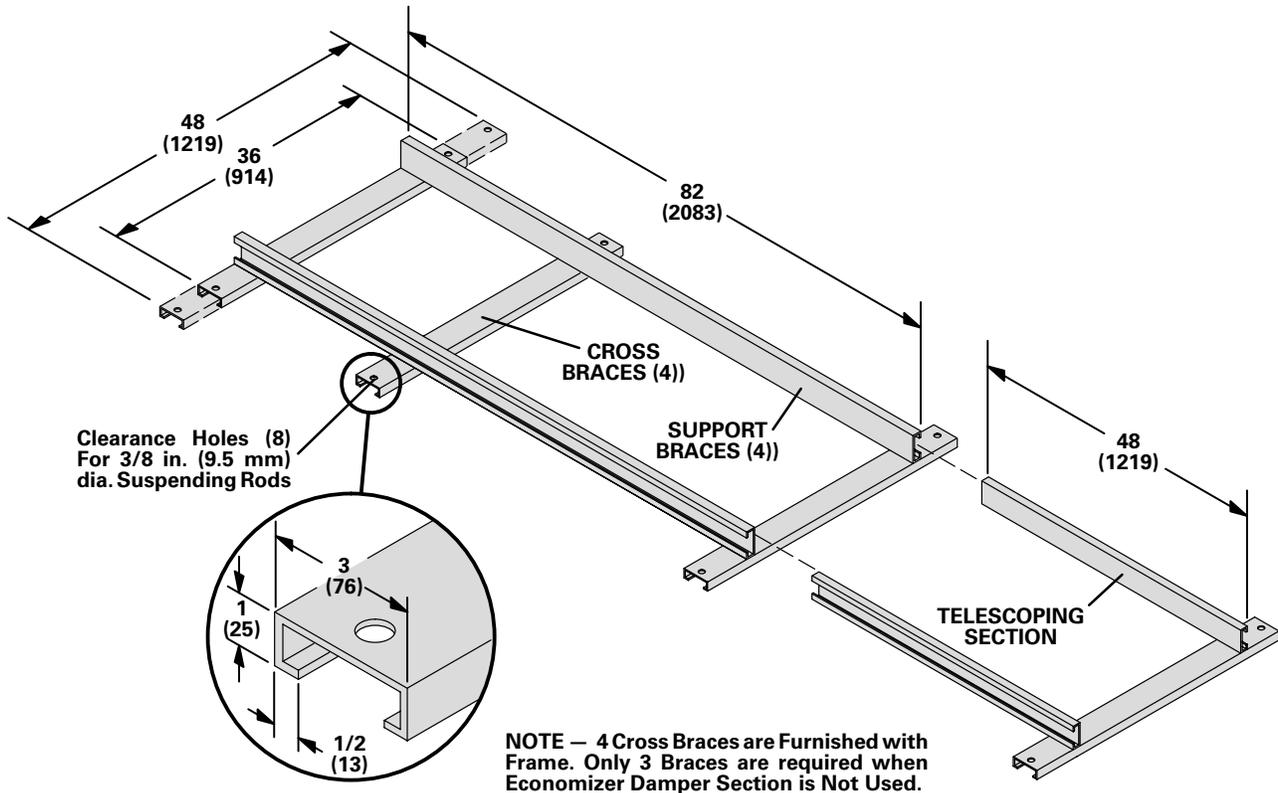
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SIDE VIEW

*MF1-20 is 7-3/16 (183)

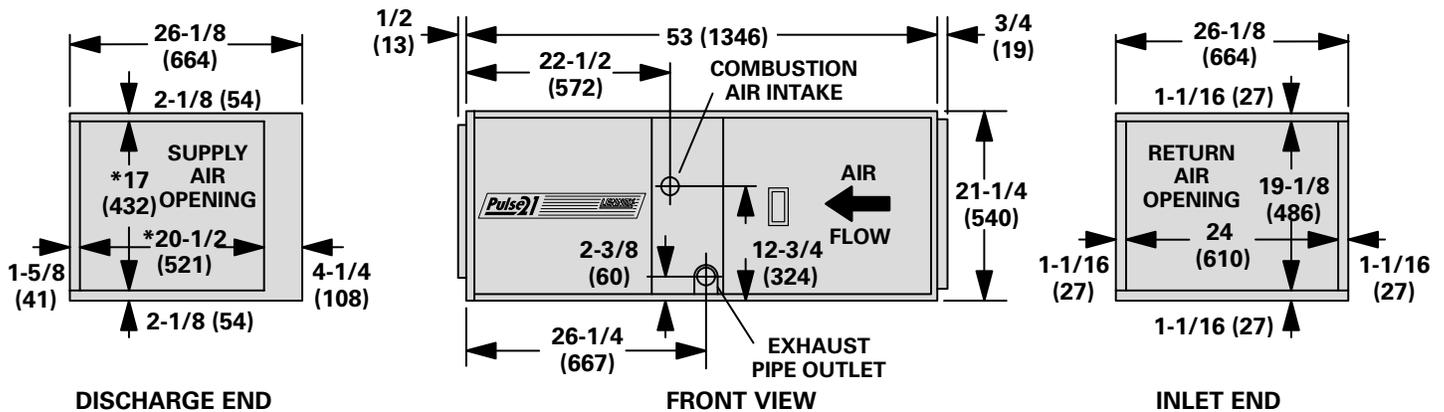
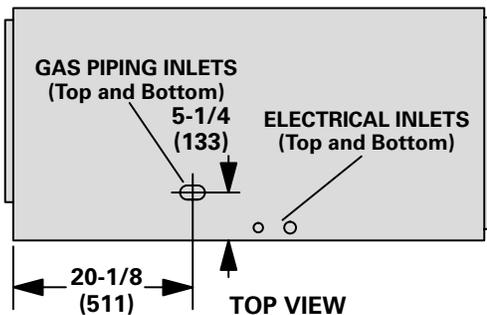
**MF21-65
HORIZONTAL SUPPORT FRAME**



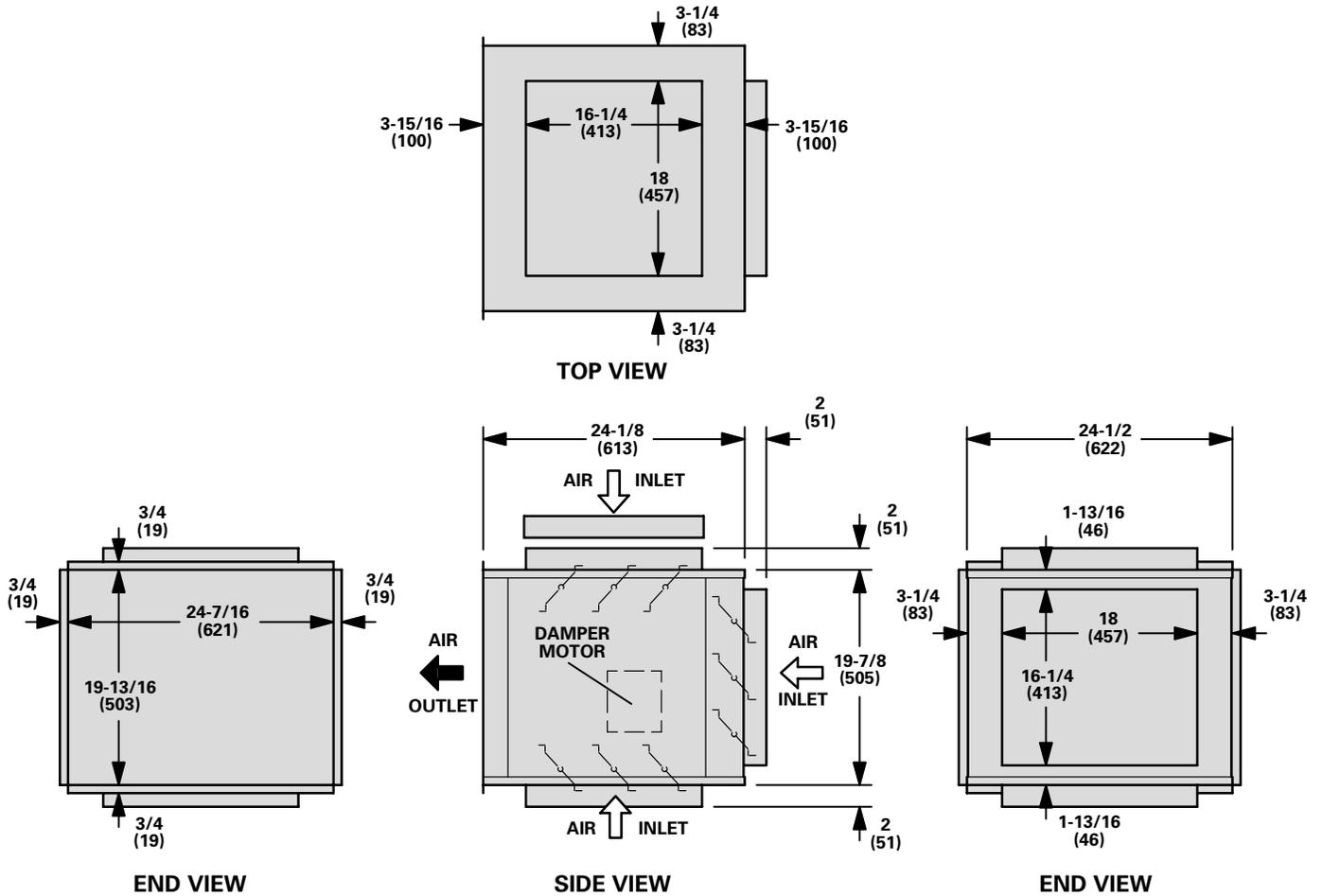
**GSR21-80 AND GSR21-100
HORIZONTAL GAS FURNACES**

***NOTE—** Supply air opening at back and sides of cabinet is equipped with a 3/4 inch (19 mm) flange that may be bent out 90° for plenum connection. Dimensions shown are after flange is bent out.

Front flange is furnished as standard equipment and field installed on supply air opening.

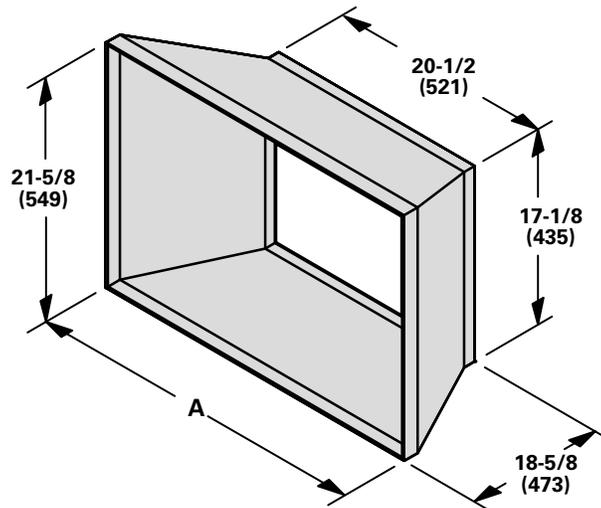


**EMD14-65 AND EMD14M-65
ECONOMIZER DAMPERS**



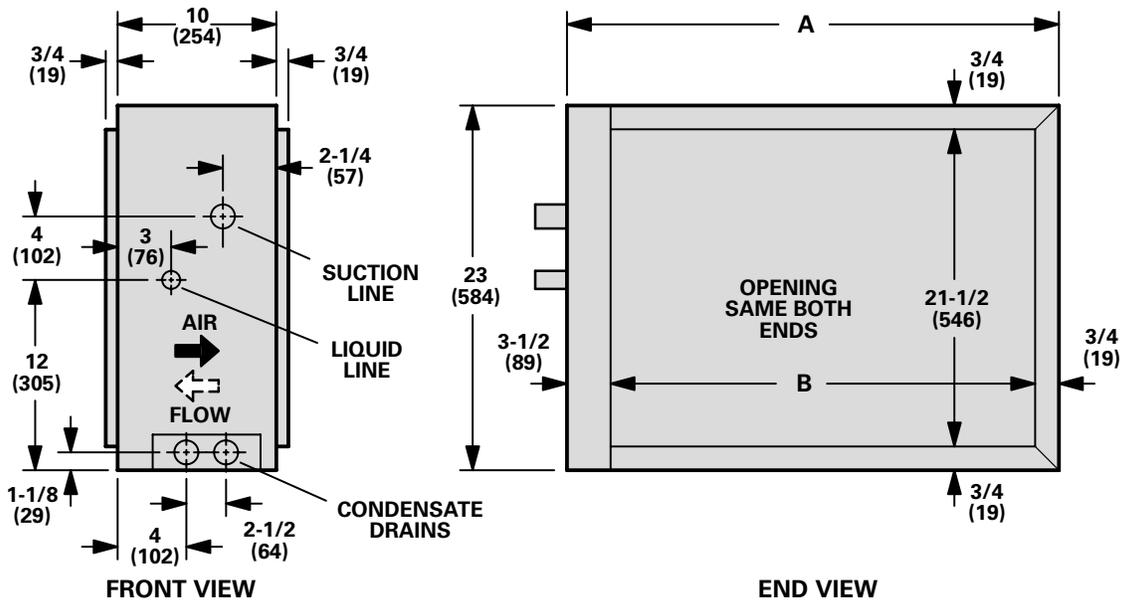
CA23 SERIES COIL ADAPTORS

Shipping Weights — CA23-41 16 lbs. (7 kg)
 CA23-51 16 lbs. (7 kg)
 CA23-65 16 lbs. (7 kg)



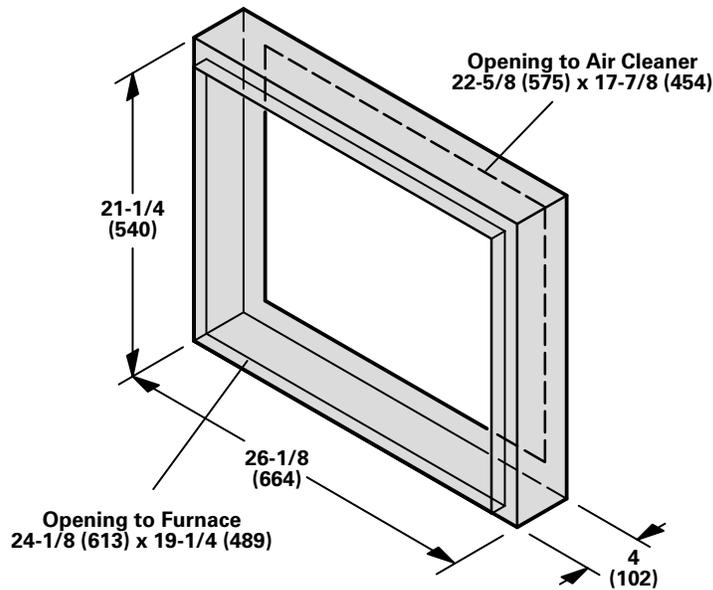
Model No.	A	
	inch	mm
CA23-41 (for CH23-41)	27	686
CA23-51 (for CH23-51)	31	787
CA23-65 (for CH23-65)	37	940

CH23 SERIES HORIZONTAL EVAPORATOR COILS

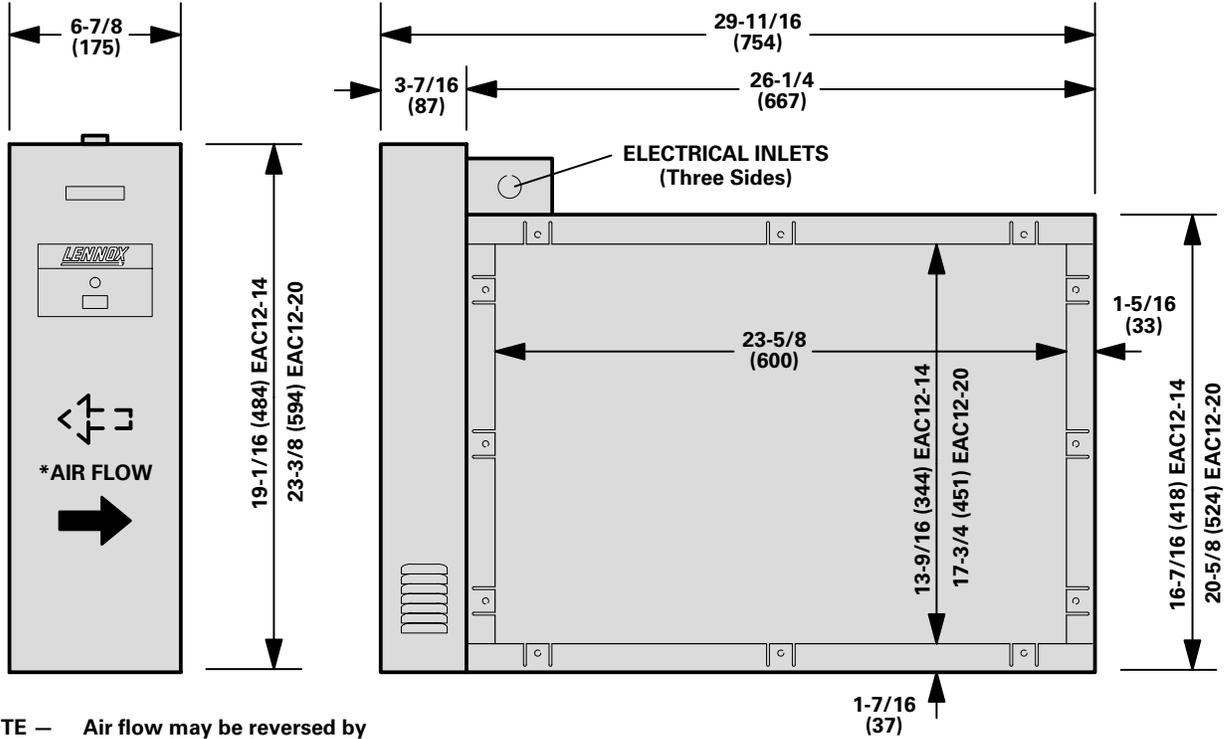


Model No.	A		B	
	in.	mm	in.	mm
CH23-41	31	787	26-3/4	679
CH23-51	35	889	30-3/4	781
CH23-65	41	1041	36-3/4	933

FA14 AIR CLEANER ADAPTOR

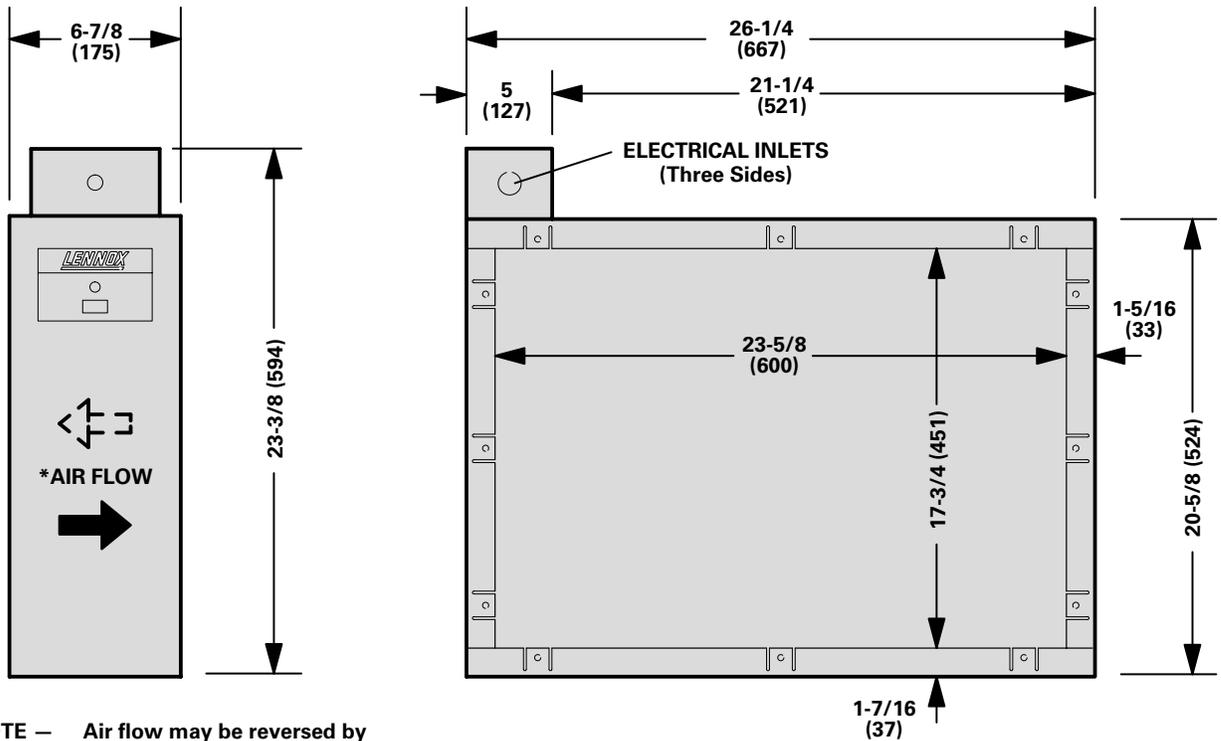


**EAC12
ELECTRONIC AIR CLEANER**



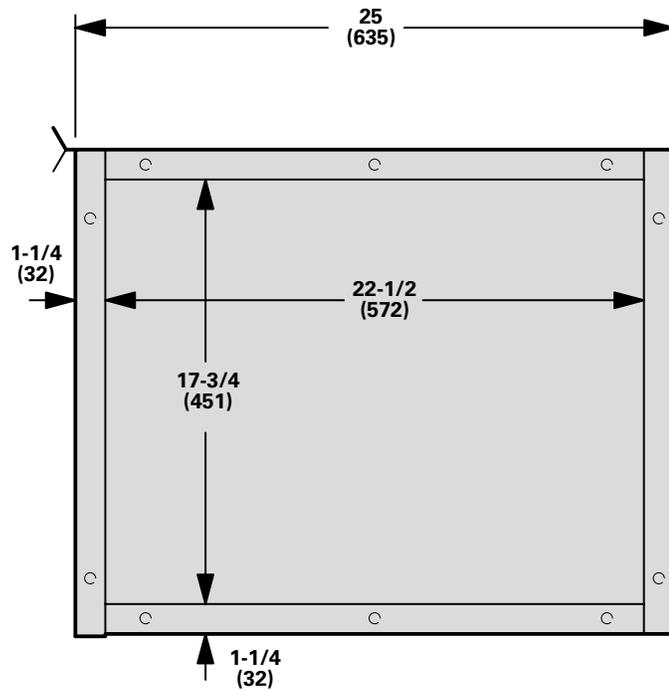
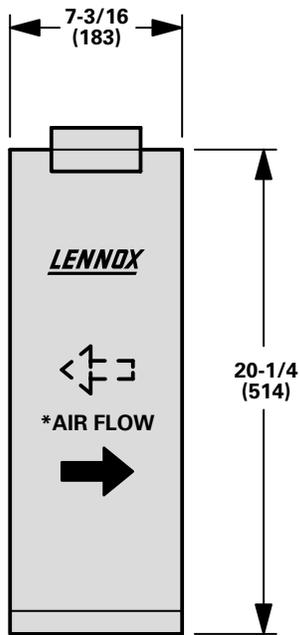
***NOTE –** Air flow may be reversed by relocating protective pre-filters and electronic cells.

**CAC12
CLEAN AIR CASE**



***NOTE –** Air flow may be reversed by relocating protective pre-filters and electronic cells.

**MF1-20
HIGH EFFICIENCY AIR CLEANER**



***NOTE – Air flow may be either direction providing that filter is installed with "Air Flow" arrows in direction of air flow.**