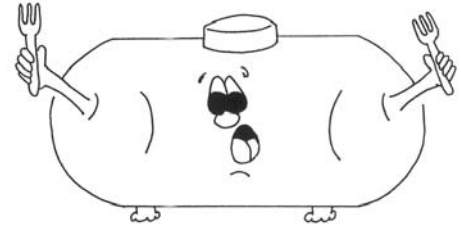


# APPLICATION HELPS

# HeatChoice™

This “helps” sheet is a step between the standard product literature and the installation manual furnished with each shipped product. This document should provide the information necessary for installer system design, details to quote the job, and to assist the sales personnel with the various installation details.

These units are approved (NEC 424.61, “suitable and so marked”) and ARL listed for zero clearance installation directly above the furnace heat exchanger/air conditioning A-coil. If “W” or “N” coil allow maximum space between coil cabinet and HeatChoice cabinet, 12” to 14” minimum.

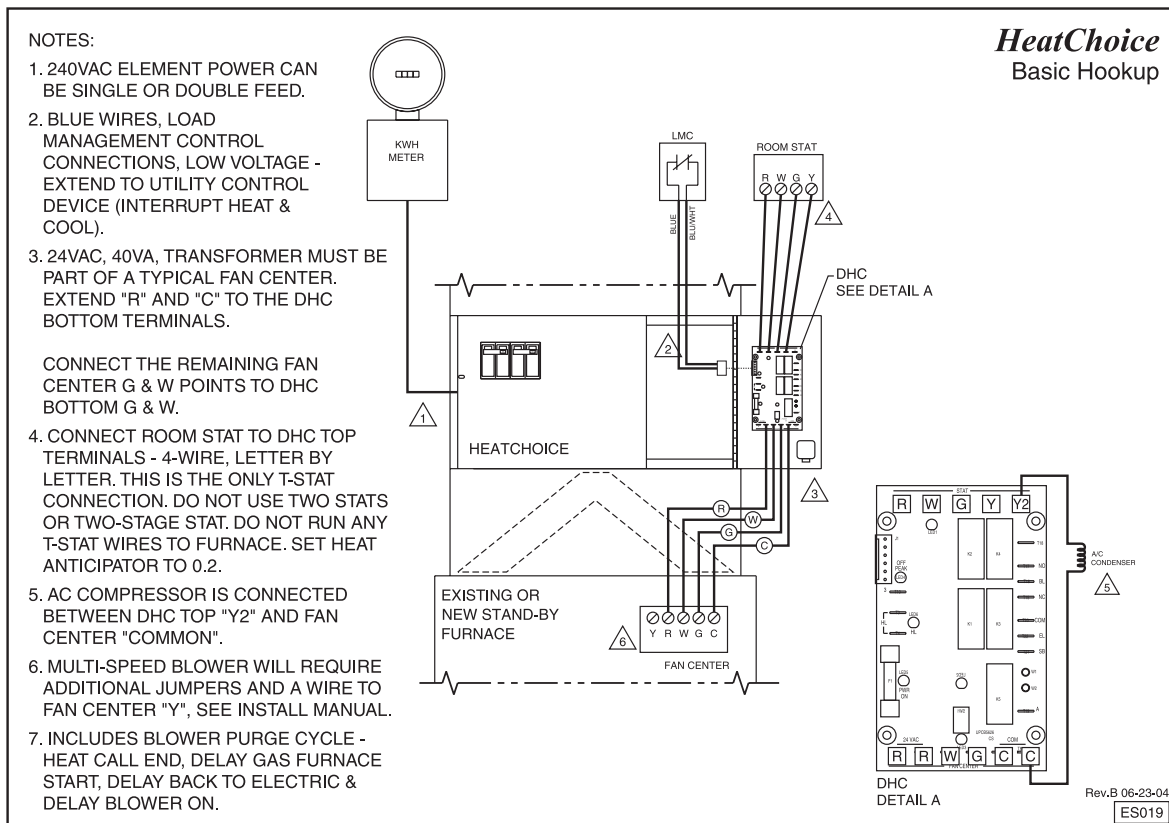


Note: This represents **upflow only**, downflow models are available.

## WHEN IS ELECTRIC HEAT COMPETITIVE?

Off-Peak Rate (Cents/kWh)	LP, Std (\$/Gal)	LP, 90+ (\$/Gal)	Fuel Oil (\$/Gal)	Nat Gas, 90+ (\$/Therm)
3.0	0.48	0.73	0.70	0.79
3.5	0.56	0.85	0.81	0.92
4.0	0.64	0.97	0.91	1.05
4.5	0.72	1.09	1.11	1.19
6.0	0.97	1.40	1.47	1.49

The kWh rate relates to one gallon, liquid fuel, at appropriate furnace type.



Specifications subject to change without notice, all rights reserved.



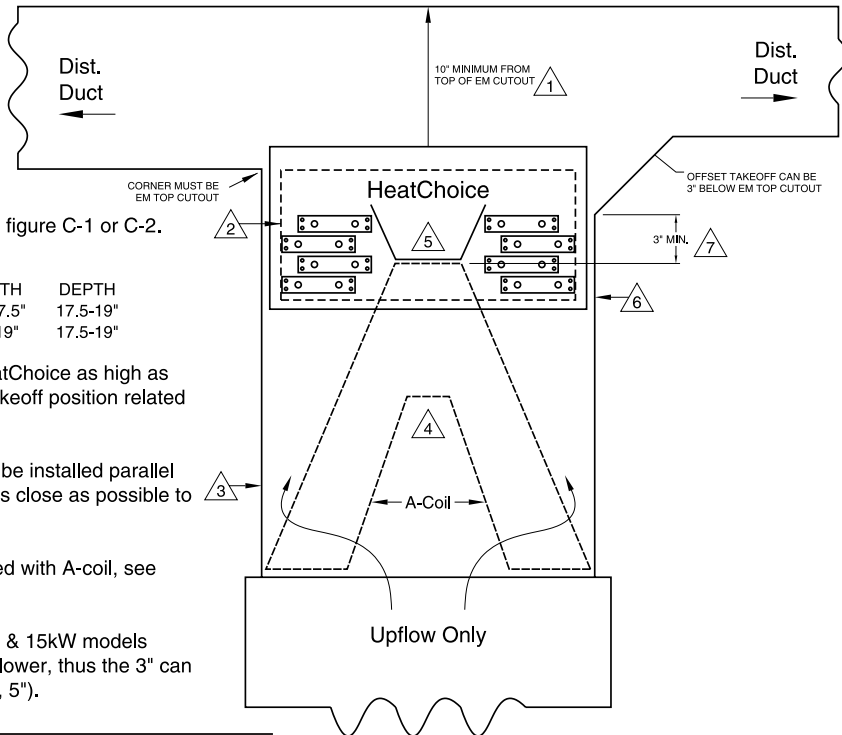
**ELECTRO INDUSTRIES, INC.**  
2150 West River Street, PO Box 538, Monticello, MN 55362  
763.295.4138 • 800.922.4138 • fax 763.295.4434  
sales@electromn.com • www.electromn.com

# BASIC MECHANICAL, UPFLOW

**Notes:**

1. If horizontal distribution is not equal, increase to 14".
2. HeatChoice hole opening - 8" x 15" or 8" x 18".
3. Plenum size - if larger see figure C-1 or C-2.
4. Without A-coil, install HeatChoice as high as possible but maintain side takeoff position related to the elements.
5. The HeatChoice "V" must be installed parallel to "A" frame of the coil and as close as possible to the A-coil top.
6. Side deflectors are required with A-coil, see figure C-1 and C-2.
7. Shown is 20kW model. 10 & 15kW models have the element stack 1.5" lower, thus the 3" can be considered 1" min (25kW, 5").

	WIDTH	DEPTH
15" MODEL	15-17.5"	17.5-19"
18" MODEL	18-19"	17.5-19"

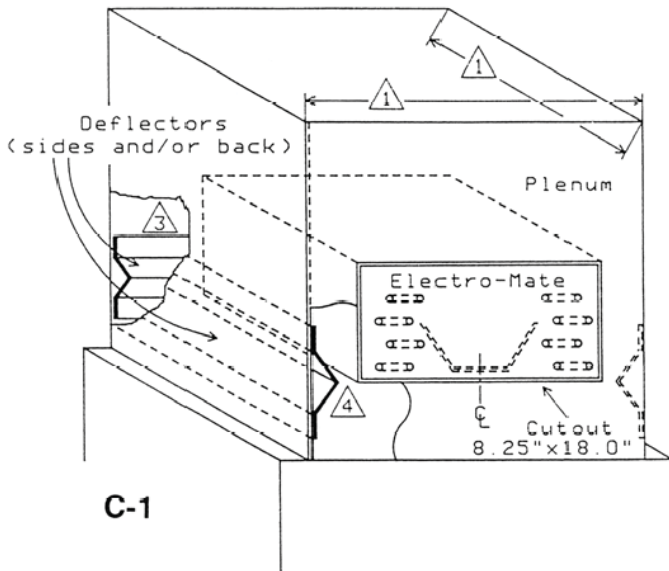


**NOTE:** Effective 6-25-04 the hi-limit probe is raised 15° and the manual reset is 250° F.

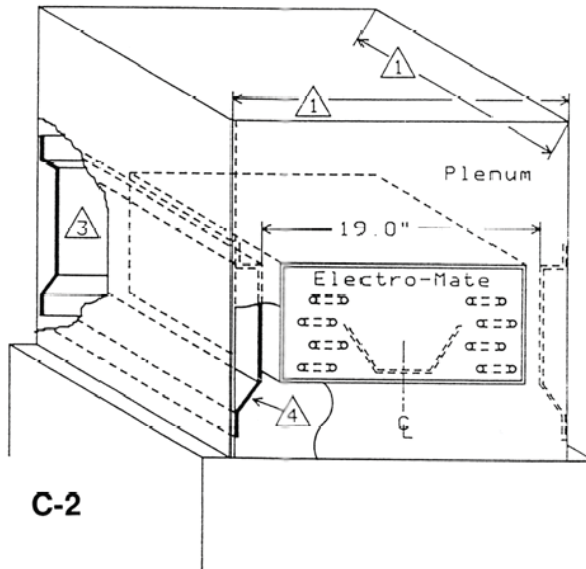
$$CFM = \frac{AMPS \times VOLTS \times 3.414}{1.08 \times TEMP. DIFF.}$$

04-23-03  
EA110

# LARGE PLENUMS, REQUIRED BAFFLING



**C-1**



**C-2**

**NOTES:**

1. Any plenum larger than 19" (width or depth) requires special deflectors. Use the following:
  - A. Any side 19" to 20 1/2", use kit A, P/N EM-5750.
  - B. Any side 21" to 22 1/2", use kit B, P/N EM-5751.
  - C. Any side larger than 23", refer to C-2.
2. Side deflectors are extremely important for A-coil installations.
3. Space behind the elements must be closed.
4. Deflector points to bottom element.
5. The above relates to 18" model, for 15" model reduce by 3".

**NOTES:**

1. Any plenum larger than 23" (width or depth) requires special deflectors. These must be field constructed to provide an internal 19" x 19" box.
2. Side deflectors are extremely important for A-coil installations.
3. Space behind the elements must be closed.
4. Note angled slope (45°).