# Residential and Commercial Gas and Oil Furnaces

The most complete product line available. Low operation cost with maximum efficiency. C.S.A. design certified for U.S.A. and Canada.



#### **HIGHBOY SERIES**

Available for either residential, commercial or light industrial use. Input sizes from 70,000 to 1,000,000 BTU/Hr. These compact highboy models will fit into utility rooms, basements or right on a factory floor. Standard models are equipped with front flues; rear flues are available on special order. Two stage firing is available

on 700,000 and 1,000,000 BTU models.

#### **HORIZONTAL SERIES**

Especially designed for convenient installation in garages, attics or crawl space installations

in homes, stores, service stations, factories and

warehouses.



No furnace or utility room needed. Hanger channels, filters and 2-stage pump are optional. Two stage firing is available on 700,000 and 1,000,000 BTU models.



#### **COUNTERFLOW SERIES**

The Counterflow model is specifically designed for use in concrete slab buildings or those with crawl space areas using perimeter or radial type systems. Non-combustible base available for installation on wood floors. Available from 90,000 to 1,000,000 BTU/Hr. Standard models are equipped with

front flues; rear flues available on special order. Two stage firing is available on 700,000 and 1,000,000 BTU models.

#### **LOWBOY SERIES**

Designed for buildings or homes with basements; Heat exchangers are heavy gauge, cylindrical designed steel. Standard models are equipped with rear flue. Front flue models available on special order. Available from 90,000 to 1,000,000 BTU/Hr. Two stage firing is available on 700,000 and 1,000,000 BTU models.

#### **CONVERTS EASILY TO COOLING**

All of the furnaces shown here are easily adapted for use as summer air-conditioning units. Simply add a cooling package to an existing gas or oil-fired warm air furnace. All air-conditioners are air cooled and require no water source. Complete range of models and sizes are available.

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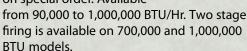
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#### **LOWBOY SERIES**

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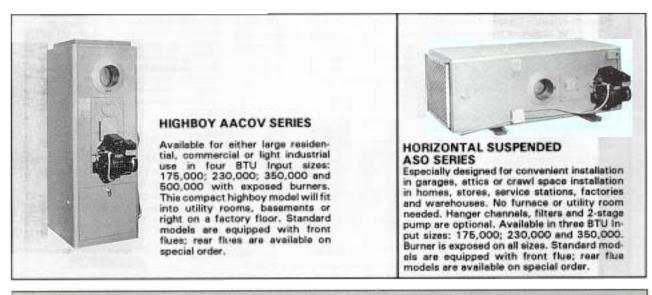
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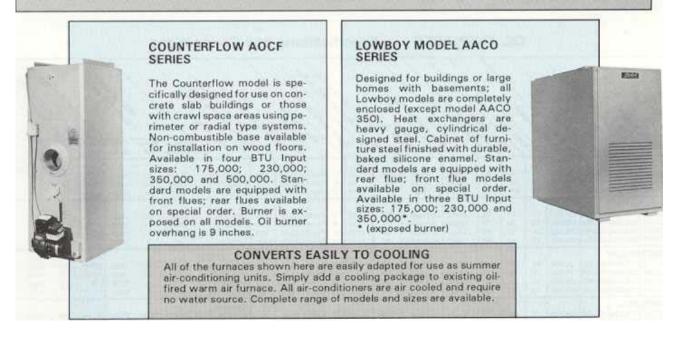
# **COMMERCIAL & LARGE RESIDENTIAL**

# ADAMS oil Furnaces

# Low operation cost ... with maximum efficiency



# ADAMS... Oil Fired Warm Air Furnaces





MANUFACTURING COMPANY

9790 Midwest Ave. ● Cleveland, OH 44125 (216) 587-6801 ● Fax (216) 587-6807

# **Features**



#### DRAFT-O-STAT

Each Oil Furnace is equipped with a patented Draft-O-Stat, "The World's Finast Barometric Control," Draft-O-Stat is the exclusive trademark for the barometric draft control manufactured by Adams Manufacturing Company.

#### BLOWERS

Each furnace equipped with blower assembly designed for the individual model. Blower requires no lubrication and motor is equipped with overload protection shielded against TV and radio interference. Belt Drive Blowers on 350,000 and 500,000 BTU input models.





#### **HEAT EXCHANGER**

Constructed of heavy gauge steel one piece, seamless, permanently gas tight. Center of combustion chamber is lined with pyro-ceramic fibers to further insure long life. Wrap around style.



CUTAWAY VIEW showing wrap around radiator type heat exchanger with long fuel passages and return air preheat.



# PYRO-CERAMIC FIBER COMBUSTION CHAMBER

Preformed pyro-ceramic fiber combustion is a one-piece, factory installed, molded unit. Warm-up is practically instanteneous, thereby gaining immediate utilization of fuel at the start of burner ON cycle. Material has been proved in the searing heat of missile applications and other high-temperature requirements.

#### HIGH EFFICIENCY FLAME RETENTION OIL BURNER

The newest, finest solid-state oil heat controls feature a burner designed especially for these oil furneces to give the most efficiency

... quietly, and to use less fuel.



### OIL FURNACES . . . Specifications and Connections

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8	E08/	50 B	1	8 4	8/4	1 10	36/3	100	# / a	10/0	39/4	de /	A 100	Blower Pulley	Motor HP	CFM 20 SP	Blower	Motor HP	CFM 50 SP	Cool
AACO330 230.0 *AACO330 230.0 *AACO330 350.0	00 184,00	178.000	27 29 36	58 63 611/4	50 54 53	22x22 24x24 34x34	16x22 20x24 18x34	33% 46 37	12 12 1216	S' Hear II' Rear II' Rear	1.65-70	530	2-16x20x1 2-20x25x1 2-20x25x1	Direct Drive	1/2 3/4	1400 1800 2600	Direct Orive	3/4	2000 2100 3000	5 5 7\v
HIGHBOY  AACOVI 75   175.0  AACOVI 75   175.0	00 184.00	0 174,000	27 36 36 43	27 30 36 42	72 74 76 96	22x27 26x28 34x34 36x38	2:19x24 2:19x24 2:19x24 4:18x22*x	56 63 60 86	12 12 1218 1515	d' Front d' Front 9" Front	1.25-70 1.65-70 2.50-70	366 470 670	3-20x25e1 3-20x25e1 2-20x25e1 4-20x25e1	Drect Orive 3" 8"	1/2 3/4	1400 1800 2900 4000	Direct Orive 5"	3/4 1 110 2	2000 2100 3000 4200	5 5 71 <sub>0</sub> 10
ADCR35 175.0 ADCR35 230.0 ADCR36 250.0 *ADCR36 250.0 *ADCR56 250.0	00 140,00 00 184,00 00 280,00	0 175L000 0 268,000	27 00 36 42	27 30 36 42	72 74 76 96	23-23 26-28 34-34 36x38	20×25 22×25 32×37 +30×38	36 38 40 66	12 12 1218 1515	6" Front 8" Front 9" Front 12" Front	1.65-70 2.50-70	670 670	1-20x25x1 2-16x25x1 0-16x16x1 4-20x25x1	Direct Drive 7" 8"	1/2 3/4	1400 1800 2600 4000	Direct Orive 5'	3/4 1 1/0 2	2000 2100 3000 4200	5 5 714 10
ASO175 175.0 ASO175 175.0 ASO180 220.0 *ASO180 350.0	00 184,000	176,000	72 74 76	27 30 36	27 30 36	23x23 26x26 34x34	20x25 32x25 32x32	13% 15 19	12 12 1218	6" From 8" From	1.65-70		Optional 1-20x25x1 2-16x25x1 4-16x16x1	Direct Dive	1/2 3/4	1400 1800 2800	Direct Orive 5"	3/4 1 1/9	2000 2100 3000	5 5 7/11

Two stage five units are optional on all Suspended ASO Series. Fifters and hanging channels are optional on all Suspended. ASO Series Furnaces.

Energy efficiency flating - Published in the Energy Guide - aik your dealer or distributor

<sup>\*</sup> Set Drive only model

Flear Flue models may be special ordered for Front Flues and Front Flue models may be special ordered for Rear Flues. This is a factory system and is not a field changeable option.

# ALL OIL FIRED FURNACES ARE NOT CREATED EQUAL

# ... that's why you need Adams , the worlds finest Furnaces

# **ADAMS**

# Deluxe High Efficiency OIL FURNACES

More Heat, Less Fuel for Comfort and Economy
Available in Four Different Models to Fit Every Heating Need
Available in up to Five Different BTU Ratings, From 70,000 To 140,000
All Models are Air Conditioning Ready - Simply add a Cooling Package
and You'll Have a Dual Purpose Comfort Machine . . . Heating in the
Winter and Whole House Air Conditioning in the Summer

# up 30 84.50|0\* AFUE

- The super high efficiency oil burner coupled with our wraparound heat exchanger and pyro-ceramic combustion chamber are the ingredients which boost up the efficiency level to make affordable and comfortable heating for today and tomorrow.
- More efficient combustion higher static air pressure provides better combustion, even in poor draft areas. Positive premixing of oil and air produces excellent combustion characteristics. This power burner action accounts for a hotter flame...less fuel consumption.
- Non-condensing combustion, no drain line or sewer hook-up is required.

\*Tested according to GAMA/D.O.E.Test procedures







9790 Midwest Ave., Cleveland, Ohio 44125 Telephone (216) 587-6801 Fax (216) 587-6807

### Draft-O-Stat

Each furnace is equipped with a patented Draft-O-Stat, the "World's finest" barometric control.

#### Direct-drive Blower

The furnace is equipped with a 3-speed, whisper quiet direct drive blower assembly. No lubrication is required. The motor is equipped with overload protection shielded against TV and radio interference. Blower assembly is isolated from the furnace by rubber pads to eliminate noise and vibration.

#### Pyro-ceramic Combustion Chamber Preformed pyro-ceramic fiber combustion chamber is a one piece. molded unit and factory installed in the heat exchanger. Warm-up is practically instantaneous.

gaining immediate utilization of fuel at the start of the burner ON cycle.







#### Flue gases to the chimney.

The Oil Gun Burner shoots an intense flame into the combustion chamber located in the bottom of the heat exchanger

#### Wrap Around Heat Exchanger

Constructed of heavy gauge, heat resistant steel . . . one piece, seamless, permanently gas tight . . . with a pyro-ceramic combustion chamber.



Hot combustion gases pass through these circular passage ways to create an extra long path for maximum heat extraction.

The powerful blower delivers return air over and between the concentric circular flue passage ways. transferring comfortable warm air to your home.





# High Efficiency Oil Furnaces . . . specifications and connections

		171						
Model Number	BTU Input	Heating Capacity	Approx Shipping Weight	Motor HP	Heating CFM .20 SP	Cooling CFM .50 SP	Tons Cooling	Dimensions
LOWBOY * AACO 90 & 90-3 AACO 105&105-3 AACO 120 AACO 120-3.5 AACO 140 AACO 140-4	90,000 105,000 120,000 120,000 140,000 140,000	75,690 87,360 99,440 99,440 115,640 115,640	240 240 250 250 260 260	1/3 1/3 1/3 1/2 1/2 3/4	800 1900 1200 - 1400	1200 1200 - 1400 - 1600	3 3 - 3.5 - 4	Cabinet Height 421/2", Width 22", Depth 511/2" Cold air intake opening 20" x 15" Warm air discharge 20" x 22" Height, floor to center of flue, 37" Two filters, one 10" x 20" x 1" and one 20" x 20" x 1"
HIGHBOY ** AUFO 70 & 70-2.5 AUFO 90 & 90-3 AUFO 105&105-3 AUFO 120 AUFO 120-3.5 AUFO 140 AUFO 140-4	90,000	57,820 75,600 87,570 101,400 101,400 117,460 117,460	240 240 240 250 250 260 260	1/3 1/3 1/3 1/3 1/2 1/2 3/4	800 1000 1000 1200 - 1400	1000 1200 1200 1400 1600	2.5 3 3 - 3.5 - 4	Cabinet Height 60", Width 22", Depth 34" Cold air intake opening 19" x 24" Warm air discharge 20" x 22" Height, floor to center of flue 50" Filter 20" x 25" x 1"
COUNTERFLOW AOCF 90 & 90-2.5 AOCF 105&105-3 AOCF 120 AOCF 120-3.5	90,000	76,230 88,305 100,000 100,000	235 245 245 245 245	1/3 1/3 1/3 1/2	800 1000 1200	1200 1200 - 1400	3 3 - 3.5	Cabinet Height 63", Width 23", Depth 25" Cold air intake opening, 20" x 20" Warm air discharge 18½" x 18½" Height, floor to center of flue 34½" Filter 20" x 20" x 1"
AOCF 140 AOCF 140-4	140,000 140,000	116,060 116,060	315 315	3/4 3/4	1400	1600	- 4	Cabinet Height 72", Width 27", Depth 27" Cold air intake opening, 20" x 25" Warm air discharge 23" x 23" Height, floor to center of flue 36" Filter 20" x 25" x 1"
HORIZONTAL ** ASO 90 & 90-2.5 ASO 105 & 105-3 ASO 120 ASO120-3.5	90,000 3 105,000 120,000 120,000	76,230 88,515 100,800 100,800	235 245 245 245 245	1/3 1/3 1/3 1/2	800 1000 1200	1200 1200 - 1400	3 3 - 3.5	Cabinet Height 23", Width 63", Depth 25" Cold air intake opening, 20" x 20" Warm air discharge 181/2" x 181/2" Height, floor to center of flue 111/2" Filter 20" x 20" x 1"
ASO 140 ASO 140-4	140,000 140,000	117,180 117,180	315 315	3/4 3/4	1400	1800	- 4	Cabinet Height 27", Width 72", Depth 27" Cold air intake opening, 20" x 25" Warm air discharge 23" x 23" Height, floor to center of flue 131/2" Filter 20" x 25" x 1"

<sup>\*</sup> Front flue models available on special order. \* \* Rear flue models are available on special order. Specifications are subject to change without notice

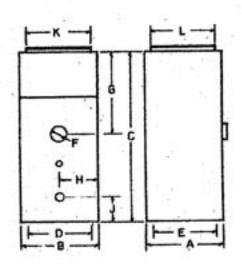
# **COUNTERFLOW SERIES**

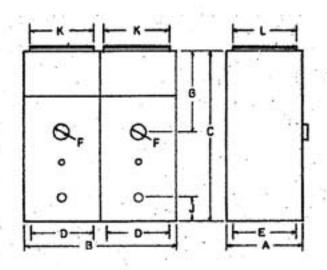
# **SPECIFICATIONS**

Model Number	BTU/Hr Input	BTU/Hr Output	CFM @.20 ESP Htg.	Mtr. H.P.	CFM @.50 ESP COOL	Mtr. H.P.	Flue Dia.
AOCF175	175,000	140,000	1400	1/2	2000	3/4	6.
AOCF230	230,000	184,000	1800	3/4	2100	1	8*
AOCF350	350,000	280,000	2600	1	3000	1-1/2	9,
AOCF500	500,000	400,000	4000	2	4200	2	12*
AOCF700	700,000	560,000	5200	(2) 2	6000	(2) 2	(2) 9"
AOCF1000	1,000,000	800,000	8000	(2)2	8400	(2) 2	(2) 12

Standard models are equipped with front flues; rear flues are available on special order.

# **DIMENSIONS**





AOCF175 - AOCF500

AOCF700 - AOCF1000

MODEL NUMBER	Α	В	<u>c</u>	₽	Ē	E	G	H	ĭ	K	Ŀ
AOCF175	27"	27"	72"	22"	22"	6"	30"	13.5"	9"	20"	25"
AOCF230	30"	30°	76"	26"	26"	8"	38"	15"	13"	32"	25"
AOCF350	36*	36"	76*	34"	34"	9"	30"	18"	13"	32"	32"
AOCF500	42"	42"	96"	38"	38"	12"	46"	. 21"	13"	40"	40"
AOCF700	36"	72"	76"	34"	34"	9"	30"	18"	13"	32"	32"
AOCF1000	42"	84"	96"	38"	38"	12"	46"	21"	13"	40"	40"

# ADAMS MANUFACTURING COMPANY

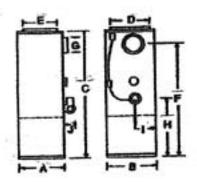
# **HIGHBOY SERIES**

## **SPECIFICATIONS**

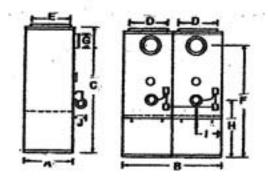
Model Number	BTU/Hr Input	BTU/Hr Output	CFM @.20 ESP Htg.	Mtr. H.P.	CFM @.50 ESP COOL	Mtr. H.P.	Flue Dia.
AACOV175	175,000	140,000	1400	1/2	2000	3/4	6"
AACOV230	230,000	184,000	1800	3/4	2100	1	8"
AACOV350	350,000	280,000	2600	1	3000	1-1/2	8.
AACOV500	500,000	400,000	4000	2	4200	2	12"
AACOV700	700,000	560,000	5200	(2)2	6000	(2)2	(2) 9"
AACOV1000	1,000,000	800,000	8000	(2)2	8400	(2)2	(2) 12"

Standard models are equipped with front flues; rear flues are available on special order.

### **DIMENSIONS**







AACOV-700 - AACOV-1000

MODEL NUMBER	Δ	B	<u>C</u>	D	E	E	G	H	1	ī
AACOV-175	27*	27*	72"	22"	22"	56"	6"	30"	13.5	. 8"
AACOV-230	30"	30"	76"	26"	26"	63"	8*	36"	15*	10"
AACOV-350	36"	36"	76"	34"	34"	69"	9"	35"	18*	10"
AACOV-500	42"	42"	96*	38"	38"	86"	12"	46"	21"	10"
AACOV-700	36"	72"	76"	34"	34"	69"	9"	35"	18"	10"
AACOV-1000	42"	84"	96"	38"	38"	86"	12"	46"	21"	10"

# ADAMS MANUFACTURING COMPANY

9790 Midwest Ave. • Cleveland, Ohio 44125 Telephone (216) 587-6801 Fax (216) 587-6807 E-mail: Adamsx@att.net MAKERS OF CLEANAIRE, HUMIDAIRE, SPEEDFLAME, INTERBURNER, SPEEDY, SPARKLITE, UNI-PAK, AND DRAFT-O-STAT:

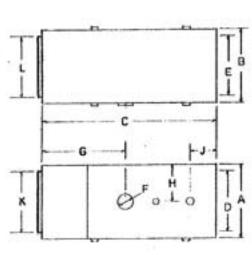
# HORIZONTAL SERIES

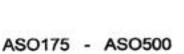
# **SPECIFICATIONS**

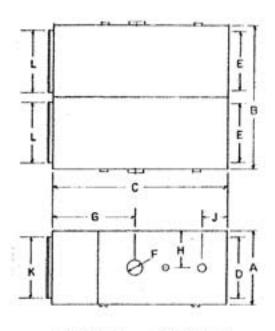
Model Number	BTU/Hr Input	BTU/Hr Output	CFM @.20 ESP Htg.	Mtr. H.P.	CFM @.50 ESP COOL	Mtr. H.P.	Flue Dia.
ASO175	175,000	140,000	1400	1/2	2000	3/4	6"
ASO230	230,000	184,000	1800	3/4	2100	1	8"
ASO350	350,000	280,000	2600	1	3000	1-1/2	9"
ASO500	500,000	400,000	4000	2	4200	2	12"
ASO700	700,000	560,000	5200	(2) 2	6000	(2) 2	(2) 9"
ASO1000	1,000,000	800,000	8000	(2) 2	8400	(2) 2	(2) 12"

Standard models are equipped with front flues; rear flues are available on special order.

### DIMENSIONS







ASO700 - ASO1000

MODEL NUMBER	A	B	C	D	Ē	E	G	H	ī	K	F
ASO175	27"	27*	72*	22"	22"	6"	30°	13.5"	9"	20°	25"
ASO230	30"	30"	76"	26"	26"	8"	38"	15"	13"	32"	25"
ASO350	36"	36*	76*	34"	34"	9"	30"	18"	13"	32"	32"
ASO500	42"	42"	96"	38"	38"	12"	46"	21"	13"	40"	40"
ASO700	36"	72"	76*	34"	34"	9"	30"	18"	13"	32"	32"
AS01000	42"	84"	96"	38"	38"	12"	46"	21"	13"	40"	40"

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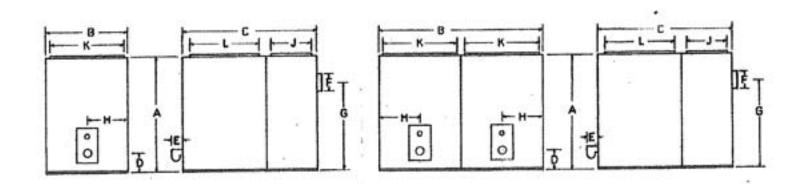
#### **LOWBOY SERIES**

## SPECIFICATIONS

Model Number	BTU/Hr Input	BTU/Hr Output	CFM @.20 ESP Htg.	Mtr. H.P.	CFM @.50 ESP COOL	Mtr. H.P.	Flue Dia.
AACO175	175,000	140,000	1400	1/2	2000	3/4	6.
AACO230	230,000	184,000	1800	3/4	2100	1	8.
AACO350	350,000	280,000	2600	1	3000	1-1/2	9,
AACO500	500,000	400,000	4000	2	4200	2	12"
AACO700	700,000	560,000	5200	(2) 2	6000	(2) 2	(2) 9*
AACO1000	1.000,000	800,000	8000	(2)2	8400	(2) 2	(2) 12

Standard models are equipped with front flues; rear flues are available on special order.

#### DIMENSIONS



AACO-175 - AACO-500

AACO-700 - AACO-1000

MODEL NUMBER	A	B	<u>c</u>	₽	E	E	G	H	ī	K	L
AACO175	48.5"	27°	59"	8"		8"	33"	13.5*	16*	22"	22"
AACO230	52.5"	29"	63"	9"		8"	45"	14.5"	19"	24"	24"
AACO350	53"	36"	61.5"	11"	8.5"	9"	37"	18"	18"	34"	34"
AACO500	65*	42.5"	72.5"	12.5	8.5"	12"	54"	21.25"	22"	38"	38"
AACO700	53"	72"	63"	11"	8.5"	9"	37"	18"	18"	34"	34"
AACO1000	65"	85"	72.5"	12.5"	8.5*	12"	54"	21.25"	22"	38"	38"

\*AACO175/230 burner enclosed in furnace housing.

# ADA MAS MANUFACTURING COMPANY

9790 Midwest Ave. • Cleveland, Ohio 44125 Telephone (216) 587-6801 Fax (216) 587-6807 E-mail: Adamsx@att.net MAKERS OF CLEANAIRE, HUMIDAIRE, SPEEDFLAME, INTERBURNER, SPEEDY, SPARKLITE, UNI-PAK, AND DRAFT-O-STAT