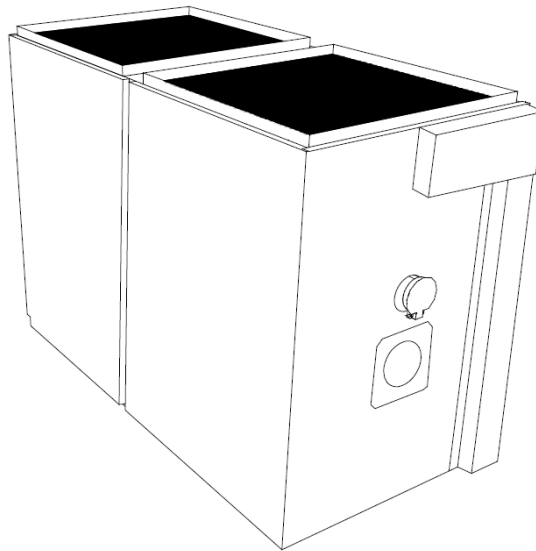


AMT-400



WARM AIR FURNACE OIL FIRED – LOW-BOY



Features

Color

- Standard: grey.

Voltage

- Blower: 230 V, 1-phase, 60 Hz.
- Burner: 115 V, 1-phase, 60 Hz.

Construction

- Powder coated baked painted steel casing.

Fan

- High quality precision balanced blower for quiet operation and optimal performance.

Motor

- Standard 1.5 HP motor (PSC), permanently lubricated.

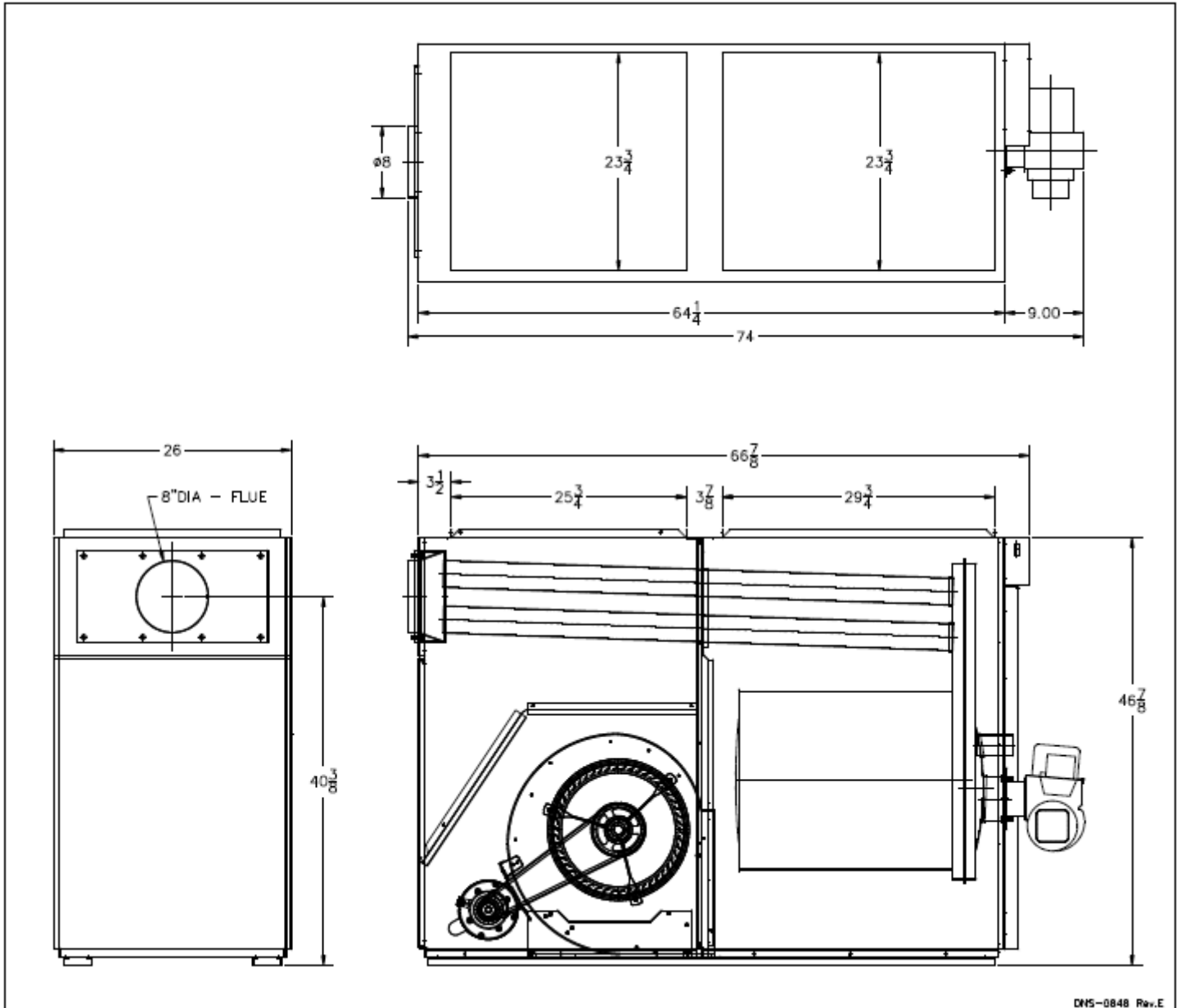
Installation

- Upflow position, Low-Boy
- Cooling coil may be installed on the supply air side ONLY

Warranty

- 1-year warranty on parts, 10 years on Heat Exchanger for residential applications and 5 years on Heat Exchanger for commercial applications.

Furnace dimensions



Minimum Clearances – combustible materials - CANADA

LOCATION	APPLICATION	CLEARANCE (combustible materials)	RECOMMENDED ACCESS FOR SERVICE
Sides	Left or right	0.6 m (24") *	
	Left or right	0.25 mm (9")	
Back	Access panel to blower	0.6 m (24") *	0.9 m (36")
Top	Furnace or plenum	0.15 m (6") *	
	Horizontal warm air duct within 1.8 m (6') of furnace	0.15 m (6") *	
Bottom	Furnace (combustible floor)	0"	
Flue pipe	Horizontally or below flue pipe	0.25 mm (9")	
	Vertically above flue pipe	0.25 mm (9")	
Front	From burner	0.6 m (24") *	

*Refer to the applicable installation code if a clearance reduction is required (ex: CSA B139 in Canada)

Minimum clearances – combustion materials – USA

LOCATION	APPLICATION	CLEARANCE (combustible materials)	RECOMMENDED ACCESS FOR SERVICE
Sides	Left or right	0.15 m (6")	
Back	Access panel to blower	0.15 m (6")	0.9 m (36")
Top	Furnace or plenum	50.8 mm (2")	
Bottom	Furnace (combustible floor)	0"	
Flue pipe	All around	0.5 m (18")	
Front	From burner	0.6 m (24")	

*Refer to the applicable installation code if a clearance reduction is required (ex: NFPA 31 in the USA)

Air Delivery – CFM with Air Filter

MODEL	INPUT (USGPH)	CFM EXTERNAL STATIC PRESSURE	
		0.25"	0.50"
AMT400B34-SM1PM / OLR350H28A	1.75	3 100	2 780
	2.00	3 100	2 780
	2.25	3 500	3 400
	2.50	3 500	3 400

Technical Specifications

RATING AND PERFORMANCE				
Firing rate (USGPH)	1.75	2.00	2.25	2.50
Input (BTU/h)	245 000	280 000	315 000	350 000
Heating capacity (BTU/h)	215 300	241 600	270 900	297 000
Maximum heating temperature rise	18 - 29°C (65 - 85°F)			
BECKETT BURNER (3450 RPM)	AFG-F12	AFG-F22		
	TUBE INSERTION 2 7/8"			
Low firing rate baffle	NOT APPLICABLE			
Static disc, model	NOT APPLICABLE			
Nozzle (Delavan)	1.50-70W	1.75-70B	2.00-70B	2.25-70B
Pump pressure (PSIG)	135	135	155	125
Combustion air adjustment (band / shutter)	2 / 4	2 / 5.5	3 / 3.5	4 / 4
RIELLO BURNER; MODEL F-40	F10 (TUBE INSERTION 3 9/16")			
Nozzle (Delavan)	1.50-70W	1.75-60B	2.00-60B	2.25-60B
Pump pressure (PSIG)	135	135	155	125
Combustion air adjustment (turbulator / damper)	2 / 2.4	2 / 3.2	2 / 3.8	4 / 3.6
ELECTRICAL SYSTEM				
Volts - Hertz - Phase (Blower)	230 - 60 - 1			
Volts - Hertz - Phase (Burner)	115 - 60 - 1			
Operating voltage range	14.6			
Minimum ampacity for wiring sizing	17.4			
Max. fuse size (Amps)	20.0			
BLOWER DATA				
Blower size	GT15-12			
Motor	1.5 HP			
Motor pulley adj. at 0.25" W.C. static pressure (turns)	3.5	3.5	3	3
Motor pulley adj. at 0.50" W.C. static pressure (turns)	2	2	1	1
GENERAL DATA				
Overall W x L x H less burner	26" x 66 7/8" x 46 7/8"			
Shipping weight	181 kg (400 lbs)			
Filter quantity and size	(2) 20" x 24"			
Supply air duct W x L	23 7/8" x 25 7/8" ou 23 7/8" x 29 3/4"			
Return air duct W x L	23 7/8" x 25 3/4"			
Maximum cooling capacity	8 tons			

Product #	Heating capacity (BTU/h)				Breaker size (A)	Motor (HP)	Max cooling (tons)	Max airflow		Qty
	Firing Rates (USGPH)							@ 0.25" ESP	@ 0.50" ESP	
	1.75	2.00	2.25	2.50						
AMT400B34-SM1PM	215 300	241 600	270 900	297 000	20	1.5	8	3500	3400	

Burners	Part #	Head	Insertion depth	Qty
BECKETT AFG	N01J046	F12 / F22	2 7/8"	
RIELLO 40	N01F041	F10	3 9/16"	

Specifications may change without prior notice.

<u>Project :</u>	<u>Approval Information</u>
<u>Consultant Engineer :</u>	
<u>Electrician Contractor :</u>	
<u>Distributor :</u>	
<u>Date :</u>	
<u>Contact at Dettson :</u>	
<u>Comments :</u>	