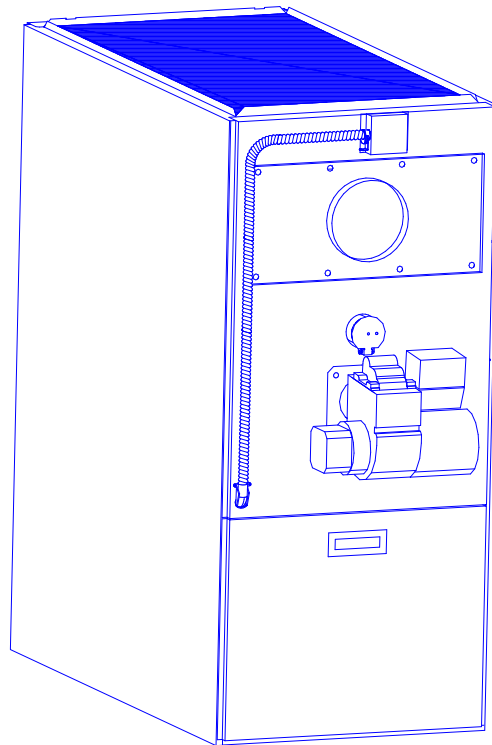


AMP-300



WARM AIR FURNACE OIL FIRED – UPFLOW & HORIZONTAL



Features

Color

- Standard: grey

Voltage

- 115 V, 1-phase, 60 Hz

Construction

- Powder coated baked painted steel casing

Energy Efficiency

- Up to 86.3% AFUE

Fan

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

Motor

- Standard 3/4 HP motor (PSC), permanently lubricated

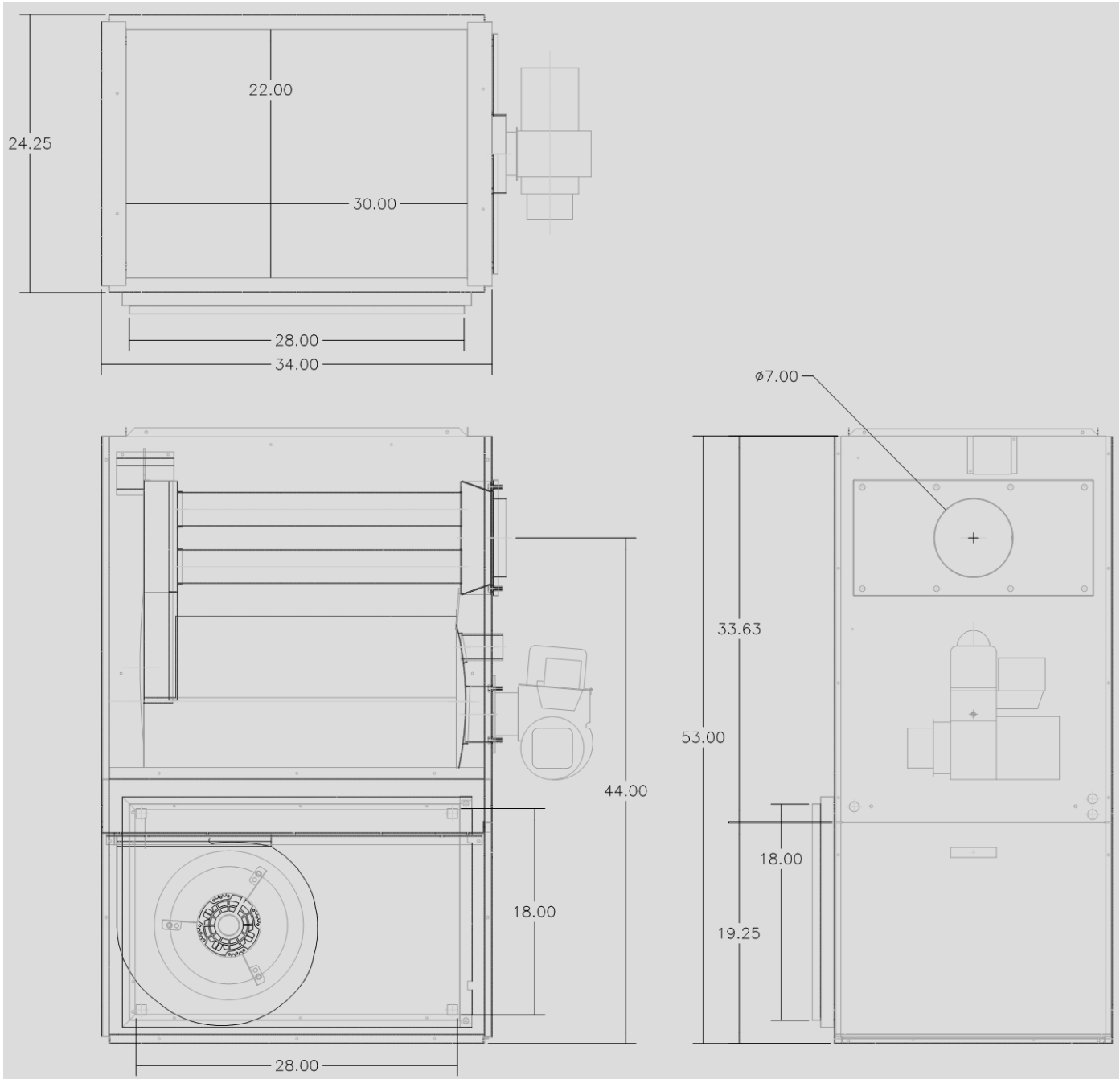
Installation

- Upflow & horizontal position, Hi-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

LOCATION	APPLICATION	UPFLOW	HORIZONTAL
SIDE	FURNACE	5.08 cm (2")	5.08 cm (2")
	SUPPLY PLENUM WITHIN 6 FEET OF FURNACE	2.54 cm (1")	2.54 cm (1")
BACK	FURNACE	5.08 cm (2")	5.08 cm (2")
TOP	FURNACE OR PLENUM	2.54 cm (1")	7.6 cm (3")
	HORIZONTAL WARM AIR DUCT WITHIN 6 FEET OF FURNACE	2.54 cm (1")	7.6 cm (3")
BOTTOM	FURNACE	∅	*∅
FLUE PIPE	HORIZONTAL OR BELOW FLUE PIPE	23 cm (9")	23 cm (9")
	VERTICALLY ABOVE FLUE PIPE	23 cm (9")	23 cm (9")
FRONT	FURNACE	61 cm (24")	61 cm (24")

* When used with floor base model HFB-101

Air Delivery – CFM with Air Filter

SPEED	AMP300B34-SE2PMA / OTF210G21B EXTERNAL STATIC PRESSURE WITH AIR FILTER	
	0.25"	0.50"
MED-HI	2 200	N/A
HIGH	2 300	2 150

Technical Specifications

RATING AND PERFORMANCE									
Firing rate (USGPH)		1.20		1.35		1.50			
Input (BTU/h)		168 000		189 000		210 000			
Maximum heating temperature rise		18 - 29°C (65 - 85°F)							
BECKETT BURNER (3450 RPM)					AFG-F6 (TUBE INSERTION 2 7/8")				
Low firing rate baffle / Static disc, model					NOT APPLICABLE / 2 3/4 #3383				
AHRI model #		AMP/OTF		168-BF		189-BF		210-BF	
Heating capacity (BTU/h)				140 000		154 000		172 000	
Nozzle (Delavan)				1.00 - 80B		1.10 - 80B		1.25 - 80B	
Pump pressure (PSIG)				145		150		145	
Combustion air adjustment (band / shutter)				0 / 6		1 / 3		1 / 5	
AFUE % (From CSA B212 standard and Canadian regulation)**				85.4%		84.4%		84.4%	
AFUE % (From ASHRAE 103 standard and US regulation)**				84.6%		83.0%		83.2%	
RIELLO BURNER ; MODEL 40					F5 (TUBE INSERTION 3 9/16")				
AHRI model #		AMP/OTF		168-RF		189-RF		210-RF	
Heating capacity (BTU/h)				139 000		155 000		171 000	
Nozzle (Delavan)				1.00-70W		1.10 - 70W		1.25 - 70W	
Pump pressure (PSIG)				145		150		145	
Combustion air adjustment (turbulator / damper)				0 / 3		1 / 3.25		4 / 4	
AFUE % (From CSA B212 standard and Canadian regulation)**				86.3%		85.3%		85.0%	
AFUE % (From ASHRAE 103 standard and US regulation)**				85.0%		83.8%		83.2%	
ELECTRICAL SYSTEM									
Volts - Hertz - Phase		115 - 60 - 1							
Operating voltage range		104 - 132							
Electrical load (Amps)		15.7							
Minimum ampacity for wiring sizing		18.1							
Max. fuse size (Amps)		20.0							
BLOWER DATA									
Blower speed at 0.25" W.C. static pressure				MED-HIGH		HIGH		HIGH	
Blower speed at 0.50" W.C. static pressure				HIGH		HIGH		HIGH	
Motor				3/4 HP - 4 speeds					
Blower size				12" x 10 DD (tight housing)					
Filter quantity and size				(1) 20" x 30"					
GENERAL DATA									
Overall W x L x H less burner				24.25" x 34" x 53"					
Shipping weight				250 lb					
Supply air duct W x L				22" x 30"					
Return air duct W x L				28" x 18"					
Maximum cooling capacity				5 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	
	1.20	1.35	1.50						
AMP300B34-SE2PM	140 000	154 000	172 000	20	3/4	5	2300	2150	
Burners	Part #	Head	Insertion depth	Qty					
BECKETT AFG	N01J045	F6	2 7/8"						
RIELLO 40	N01F040	F5	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>	