Thermo Pride®

OIL FIRED UPFLOW FURNACE SPECIFICATIONS

MODEL NO.	OL6*A072D48/DV5 B			OL6*A072D48/DV5 R			OL6*A072D48/DV5 C		
HEATING CAPACITY	High Fire	Med Fire	Low Fire	High Fire	Med Fire	Low Fire	High Fire	Med Fire	Low Fire
HEAT INPUT RATE (BTUH)	106,250	85,000	70,000	106,250	85,000	70,000	106,250	85,000	70,000
OUTPUT BTUH[1]	89,000	72,000	60,000	90,000	73,000	60,000	89,000	72,000	60,000
SEASONAL EFFICIENCY[2]	86.5%			87.0%			86.0%		
LARGEST REC A/C[3]	4 Tons / 5 Tons			4 Tons / 5 Tons			4 Tons / 5 Tons		
NOMINAL TEMP RISE	66°	66°	66°	66°	66°	66°	66°	66°	66°
HEAT EXCHANGER AREA									
CASING HEIGHT (IN.):	34-3/4"			34-3/4"			34-3/4"		
CASING WIDTH (IN.):	20"			20"			20"		
CASING DEPTH (IN.):	50"			50"			50"		
NOMINAL FLUE OUTLET DIA.	5"			5"			5"		
APPROX SHIPPING WEIGHT LBS	250			250			250		
APPROVAL STANDARDS	UL727 CAN/CSA B140.4			UL727 CAN/CSA B140.4			UL727 CAN/CSA B140.4		
QTY AND SIZE OF PERMANENT FILTERS	(2) 19-3/4" X 13-3/4"			(2) 19-3/4" X 13-3/4"			(2) 19-3/4" X 13-3/4"		
ELECTRICAL REQUIREMENTS VAC/HZ/PH	120/60/1			120/60/1			120/60/1		
MAX FUSE SIZE (AMPS) PSC/ECM	15 / 15			15 / 15			15 / 15		
TOTAL CURRENT (AMPS) PSC/ECM	8.7 / 12.3			8.7 / 12.3			8.7 / 12.3		
HEIGHT FROM FLOOR TO CENTER OF FLUE	28-3/8"			28-3/8"			28-3/8"		
SUPPLY AIR OUTLET SIZE (W-IN. X D-IN.)	18" X 20" (20" X 20")[5]			18" X 20" (20" X 20")[5]			18" X 20" (20" X 20")[5]		
RETURN AIR INLET OPENING SIZE (W-IN. X D-IN.)	18" X 18" (20" X 18")[5]			18" X 18" (20" X 18")[5]			18" X 18" (20" X 18")[5]		
	ACCESSORY ITEMS								
2-LINE SYSTEM KIT FOR RIELLO	N/A			380705			N/A		
COMBUSTION AIR KIT	AOPS8397			AOPS8416			AOPS8433		
FIELD VENT TERMINATION KIT	AOPS8393			AOPS8393			AOPS8393		
SIDEWALL VENT ACCESSORIES KIT	AOPS8394			AOPS8395			AOPS8432		
BLOCKED VENT KIT[4]	AOPS2686			AOPS2686			AOPS2686		
OIL BURNER	BECKETT AFG (380692)			RIELLO BF3 (380693)			CARLIN EZ-1HP (380835)		
SUPPLY PLENUM	PK202X202			PK202X202			PK202X202		
RETRUN PLENUM	PK181X201			PK181X201			PK181X201		
CASED COIL 2-3 TON	HE33936PA212			HE33936PA212			HE33936PA212		
CASED COIL 2-3 TON HIGH EFF.	HE47936PA212			HE47936PA212			HE47936PA212		
CASED COIL 3.5-5 TON	HE50960PA212			HE50960PA212			HE50960PA212		

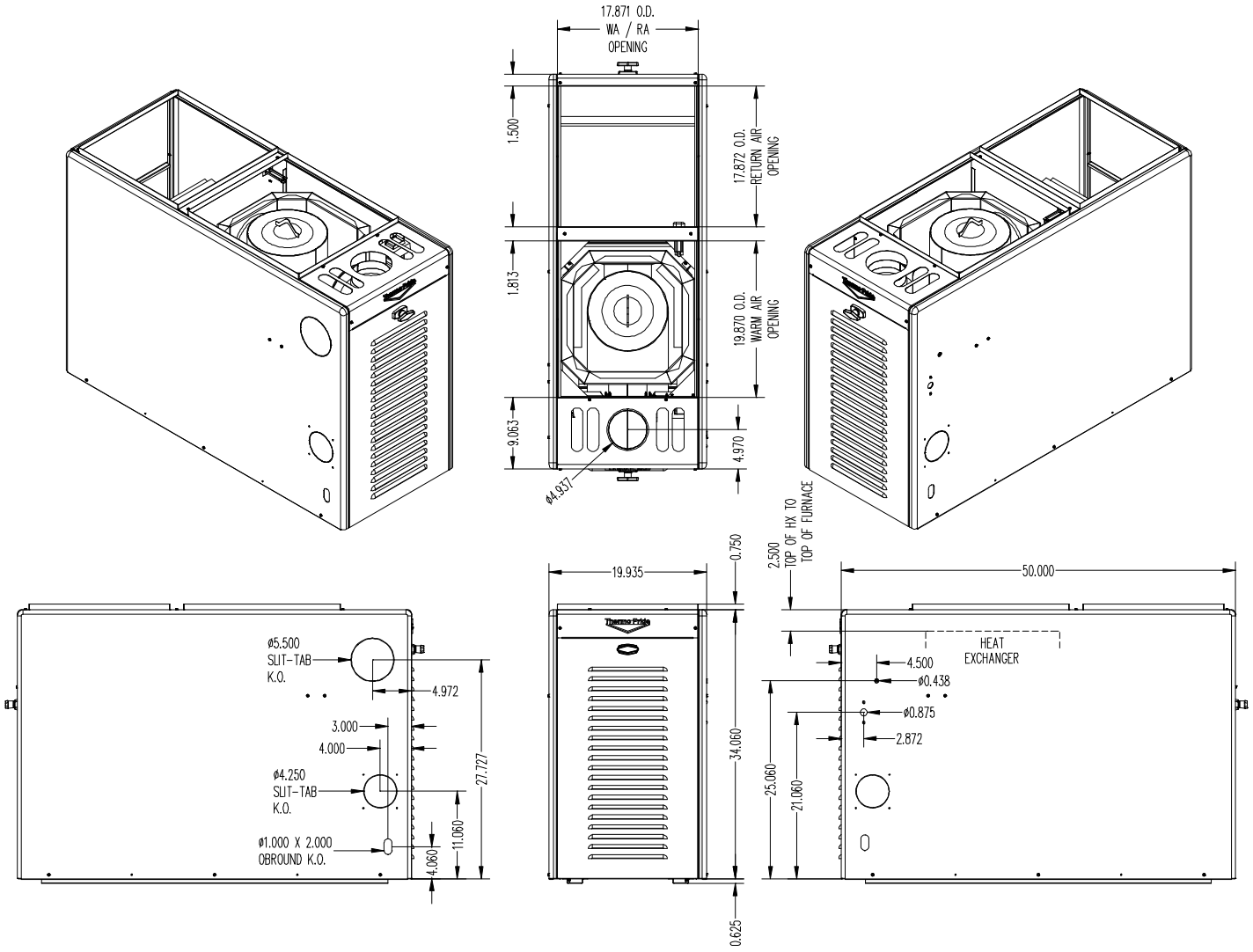
[1] OUTPUT BTUH BASED ON ANNUAL FUEL UTILIZATION EFFICIENCY RATED BY MANUFACTURER.
[2] SEASONAL EFFICIENCY (ALSO CALLED AFUE - ANNUAL FUEL UTILIZATION EFFICIENCY) RATINGS ARE BASED ON TESTS FOLLOWING U.S. DEPARTMENT OF ENERGY TEST PROCEDURES.
[3] TO PERMIT LARGEST RECOMMENDED AIR CONDITIONING (AT .5 STATIC PRESSURE), SELECTION OF THE HIGHEST MOTOR SPEED IS REQUIRED.
[4] NOT TO BE USED IN SIDEWALL VENT APPLICATIONS, USE ONLY WHEN CHIMNEY VENTED.
[5] PLENUM ADAPTERS, INCLUDED WITH UNIT, MUST BE INSTALLED FOR 20" PLENUM WIDTH.

Model Number Digit	1	2	3	4	5	6	7	8	9	10	11	12
	Fuel	Configuration	Heat Exchanger Identifier	Flue	Design Change	Capacity	Capacity	Capacity	Blower Type	Clg Airflow Cap.	Clg Airflow Cap.	Burner
Oil Furnace Model Nomenclature Example Model Numbers	O	L	6	F	A	0	7	2	D	4	8	B
	O	L	6	F	A	0	7	2	D	V	5	B
	O	L	6	R	A	0	7	2	D	V	5	R
O = Oil	O											
L=Lowboy		L										
6 = Heat Exchanger Size Identifier			6									
F = Front				F								
R = Rear				R								
A = Design Change					A							
Heating Capacity MBTUH (000's) with factory installed nozzle						0	7	2				
D = Direct Drive									D			
Clg. Airflow: Example = 48MBTUH = 4 tons @ 400cfm/ton										4	8	
Clg. Airflow Variable Speed (ECM) V5= 5tons										V	5	
B = Beckett, R = Riello, C = Carlin												B

- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OL6FA072D**



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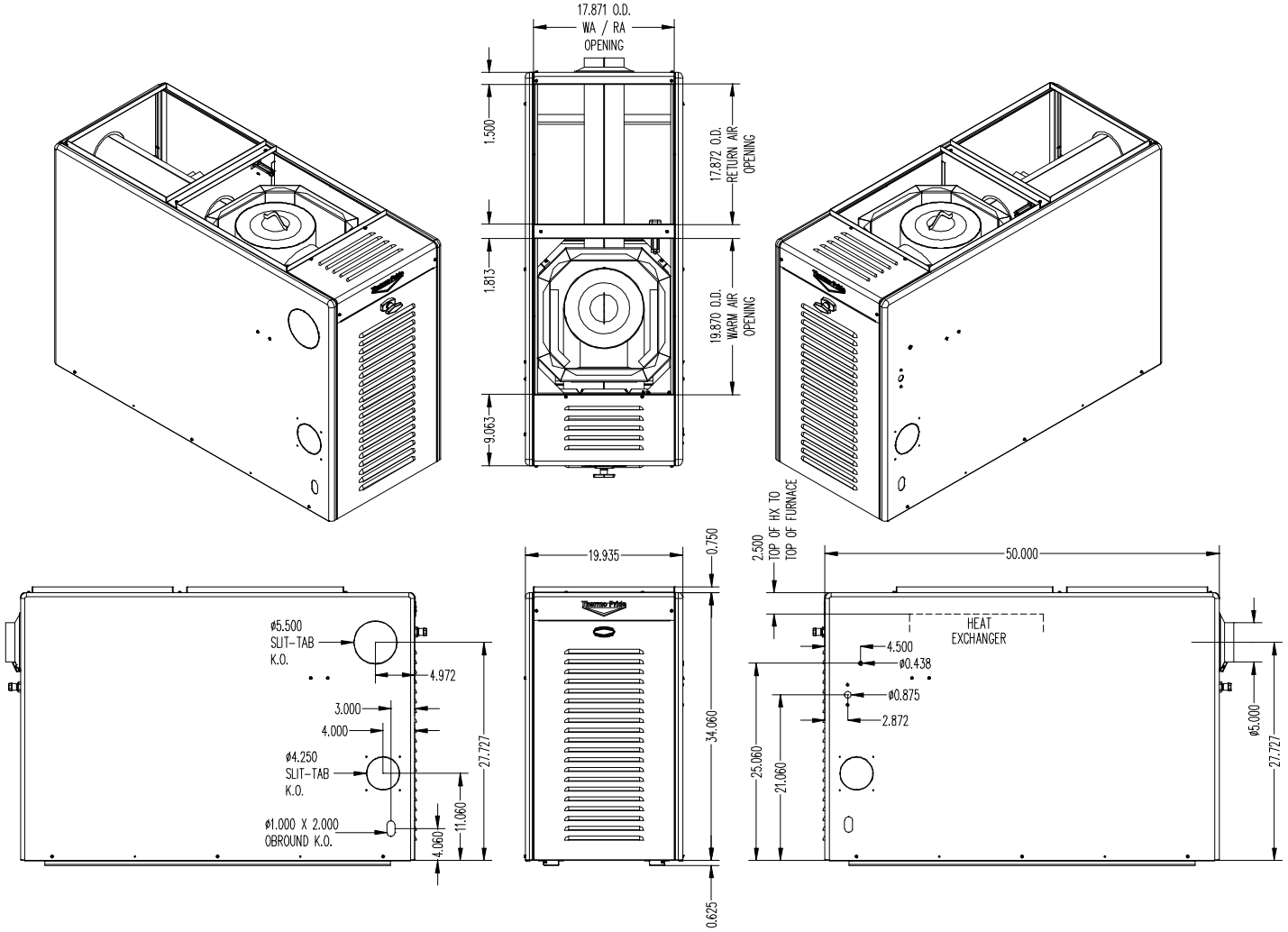
OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OL6RA072D**



CLEARANCES	
	MINIMUM CLEARANCES TO COMUSTIBLE MATERIALS:
SIDES	0”
FRONT (SERVICE ACCESS)	(Clearance to Combustibles) 6”/ 24” (Service)
REAR	(Clearance to Combustibles) 0”/ 24” (Service)
FLUE	7”
TOP PLENUM	1”
SIDES PLENUM	1”

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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

BLOWER DATA:	OL6*A072D48	OL6*A072DV5
BLOWER MODEL (DIRECT DRIVE)	DD 120-9T	DD 120-9T
MOTOR H.P.	½ HP	1 HP
MOTOR TYPE & NUMBER OF SPEEDS	PSC - 5	ECM (CONSTANT CFM)
HIGH SPEED AIRFLOW (SCFM) @ 0.5 IN. W.G. EXTERNAL STATIC PRESSURE:	1566	2000
Diameter x Width (IN.)	12 x 9	12 x 9

BURNER DATA	RIELLO "BF3" WITH CERA-FELT SLEEVE		
AIR TUBE LENGTH (IN.)	4 ½"		
BURNER HEAD TYPE:	Fixed		
FUEL TYPE:	#2		
NOZZLE RATING (GPH):	.70	.60	.50
SPRAY ANGLE (DEG.):	80°	80°	80°
SPRAY PATTERN:	HOLLOW (A)	HOLLOW (A)	HOLLOW (A)
OIL PUMP PRESSURE (PSIG):	140 PSI		
COMBUSTION CHAMBER TYPE:	REFRACTORY (SOFT CHAMBER)		

BURNER DATA	BECKETT "AFG" S - PLATE 3912 (3 5/8") 31517 CERAMIC		
AIR TUBE LENGTH (IN.)	4 ½"		
BURNER HEAD TYPE:	F-3		
FUEL TYPE:	#2		
NOZZLE RATING (GPH):	.75	.60	.50
SPRAY ANGLE (DEG.):	70°	70°	70°
SPRAY PATTERN:	SOLID (B)	SOLID (B)	HOLLOW (A)
OIL PUMP PRESSURE (PSIG):	120 PSI		
COMBUSTION CHAMBER TYPE:	REFRACTORY (SOFT CHAMBER)		

BURNER DATA:	CARLIN "EZ-1HP"		
AIR TUBE LENGTH (IN.)	4 ½"		
BURNER HEAD TYPE:	N/A		
FUEL TYPE:	#2		
NOZZLE RATING (GPH):	.75	.60	.50
SPRAY ANGLE (DEG.):	60º	60º	60º
SPRAY PATTERN:	HOLLOW (A)	HOLLOW (A)	HOLLOW (A)
OIL PUMP PRESSURE (PSIG):	120 PSI		
COMBUSTION CHAMBER TYPE:	REFRACTORY (SOFT CHAMBER)		

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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OL6*A072D48

ALTERATIONS REQ'D FOR A/C @ DESIGN EXTERNAL STATIC PRESSURE				
	HTG Speed by Input			
COOLING UNIT	Low fire	Mid Fire	High Fire	Recommended CLG Speed
24,000	ML	MED	MH	Med Low
30,000	ML	MED	MH	Med
36,000	ML	MED	MH	Med High
42,000	ML	MED	MH	High
48,000	ML	MED	MH	High

Speed Tap\ Static Pressure	Furnace Airflow (CFM) vs. External Static pressure (in. WC.)				
	0.2	0.3	0.4	0.5	0.6
Low	712	691	682	667	664
ML	902	899	896	883	874
MED	1113	1113	1109	1091	1073
MH	1270	1266	1250	1239	1215
High	1670	1637	1605	1566	1527
	Motor Current Draw (Amps/Watts) vs. External Static pressure (in. WC.)				
Low	4.1/408	4.0/398	4.0/395	3.9/385	3.8/378
ML	5.3/540	5.3/535	5.2/527	5.1/512	4.9/500
MED	6.6/665	6.4/644	6.2/634	5.9/609	5.6/584
MH	7.6/772	7.2/739	6.9/713	6.6/682	6.4/663
High	9.6/951	84/830	9.0/887	8.8/869	8.4/835

Speed Tap\ Static Pressure	High Fire Temperature Rise vs. External Static pressure (in. WC.)				
	0.2	0.3	0.4	0.5	0.6
Low	119	122	124	127	127
ML	94	94	94	96	97
MED	76	76	76	77	79
MH	66	67	68	68	70
High	51	52	53	54	55

Speed Tap\ Static Pressure	Mid Fire Temperature Rise vs. External Static pressure (in. WC.)				
	0.2	0.3	0.4	0.5	0.6
Low	96	99	100	102	103
ML	75	76	76	77	78
MED	61	61	61	62	63
MH	54	54	54	55	56
High	41	42	42	43	45

Speed Tap\ Static Pressure	Low Fire Temperature Rise vs. External Static pressure (in. WC.)				
	0.2	0.3	0.4	0.5	0.6
Low	79	81	83	84	85
ML	62	63	63	64	64
MED	51	51	51	52	53
MH	44	44	45	45	46
High	34	34	35	36	37

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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

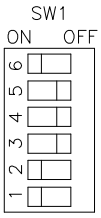
OL6*A072DV5

Heating Speed Set-ups

Furnace Motor Current Draw (Amps/ / Watts) vs. External Static Pressure (in W.C.)

	NRGMAX Control	BTUH	Low Fire 60,000	Med Fire 72,000	High Fire 90,000			UT Control
	ECM Blower Heat Switch Settings	Heating CFM	Aprox. Rise (F^0)	Aprox. Rise (F^0)	Aprox. Rise (F^0)	0.2	0.5	Fan Control SW 1 Switch Settings
	3-OFF 2-OFF 1-OFF	755	73°			1.1/93	1.7/154	3-OFF 2-OFF 1-OFF
	3-OFF 2-OFF 1-ON	826	66°	80°		1.2/105	1.9/168	3-OFF 2-OFF 1-ON
	3-OFF 2-ON 1-OFF	898	61°	74°		1.8/180	2.3/219	3-OFF 2-ON 1-OFF
Factory Switch Settings	3-OFF 2-ON 1-ON	983	56°	67°		2.0/199	2.7/270	3-OFF 2-ON 1-ON
	3-ON 2-OFF 1-OFF	1068		62°	77°	2.2/224	3.0/297	3-ON 2-OFF 1-OFF
	3-ON 2-OFF 1-ON	1168		57°	71°	2.5/254	3.4/336	3-ON 2-OFF 1-ON
	3-ON 2-ON 1-OFF	1282			64°	3.0/298	3.8/380	3-ON 2-ON 1-OFF
	3-ON 2-ON 1-ON	1397			60°	3.5/338	4.4/420	3-ON 2-ON 1-ON

= Recommended Heating Speed Setting



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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OL6*A072DV5

Cooling Speed Set-ups

Furnace Motor Current Draw (Amps / Watts) vs. External Static Pressure (in W.C)

	NRGMAX Control		Air Flow				UT Control
	ECM Blower Cool Switch Settings	Clg. Tonnage	Cool	Continuous	0.2	0.5	Fan Control SW 1 Switch Settings
	3-OFF 2-OFF 1-OFF	2	799	500	1.2/100	1.9/162	6-OFF 5-OFF 4-OFF
	3-OFF 2-OFF 1-ON	2.5	1017	508	1.8/155	2.5/223	6-OFF 5-OFF 4-ON
	3-OFF 2-ON 1-OFF	3	1210	605	2.5/223	3.2/298	6-OFF 5-ON 4-OFF
	3-OFF 2-ON 1-ON	3.5	1404	702	3.4/310	4.2/394	6-OFF 5-ON 4-ON
Factory Switch Settings	3-ON 2-OFF 1-OFF	4	1622	799	4.7/444	5.5/535	6-ON 5-OFF 4-OFF
	3-ON 2-OFF 1-ON	-	1817	897	6.1/590	7.1/693	6-ON 5-OFF 4-ON
	3-ON 2-ON 1-OFF	5	2010	993	7.9/789	8.8/883	6-ON 5-ON 4-OFF