



## OIL FIRED COUNTERFLOW/\*HORIZONTAL FURNACE SPECIFICATIONS

MODEL NO.	OD6F/RA072D48(V5)B			OD6F/RA072D48(V5)R		
	High Fire	Med Fire	Low Fire	High Fire	Med Fire	Low Fire
HEATING CAPACITY						
HEAT INPUT RATE (BTUH)	106,250	85,000	70,000	106,250	85,000	70,000
OUTPUT BTUH <sup>1</sup>	89,000	72,000	60,000	89,000	72,000	60,000
SEASONAL EFFICIENCY <sup>2</sup>	85.7			85.7		
LARGEST REC A/C <sup>3</sup>	4 Tons (5 Tons)			4 Tons (5 Tons)		
NOMINAL TEMP RISE	60°	60°	60°	60°	60°	60°
HEAT EXCHANGER AREA						
CASING HEIGHT (IN.):	45"			45"		
CASING WIDTH (IN.):	20"			20"		
CASING DEPTH (IN.):	30"			30"		
NOMINAL FLUE OUTLET DIA.	5"			5"		
APPROX SHIPPING WEIGHT	250			250		
APPROVAL AGENCY	U.L. 727			U.L. 727		
QTY AND SIZE OF PERMANENT FILTERS	(2) 18-3/4" x 12-3/4"			(2) 18-3/4" x 12-3/4"		
ELECTRICAL REQUIREMENTS	120 / 60 / 1			120 / 60 / 1		
MAX FUSE SIZE PSC / ECM	15 / 15			15 / 15		
TOTAL CURRENT (AMPS) PSC / ECM	8.7 / 12.3			8.7 / 12.3		
HEIGHT FROM FLOOR TO CENTER OF FLUE (FRONT FLUE) (REAR FLUE)	20-1/2" 20-1/2"			20-1/2" 20-1/2"		
SUPPLY AIR OUTLET SIZE (W-IN. X D-IN.)	18" x 20"			18" x 20"		
RETURN AIR INLET OPENING SIZE	18" x 19"			18" x 19"		
	<b>ACCESSORY ITEMS</b>					
PROGRAMMABLE T-STAT STD/DELUXE	350164 / 350165			350164 / 350165		
COMBUSTION AIR INTAKE HOOD KIT	AOPS8397			AOPS8416		
FIELD VENT TERMINATION KIT	AOPS8393			AOPS8393		
SIDEWALL VENT ACCESSORIES KIT	AOPS8394			AOPS8395		
COMBUSTIBLE FLOOR BASE	D6-BASE			D6-BASE		
COTTAGE BASE	D6COT-BASE			D6COT-BASE		
COIL CABINET	CE112S, CE212T, CE312T			CE112S, CE212T, CE312T		
BLOCKED VENT KIT <sup>4</sup>	AOPS2686			AOPS2686		

\*Horizontal installation for left or right supply.

- SEE NEXT PAGE FOR MORE DATA -

<sup>1</sup> OUTPUT BTUH BASED ON ANNUAL FUEL UTILIZATION EFFICIENCY RATED BY MANUFACTURER.

<sup>2</sup> SEASONAL EFFICIENCY (ALSO CALLED AFUE - ANNUAL FUEL UTILIZATION EFFICIENCY) RATINGS ARE BASED ON TESTS FOLLOWING U.S. DEPARTMENT OF ENERGY TEST PROCEDURES.

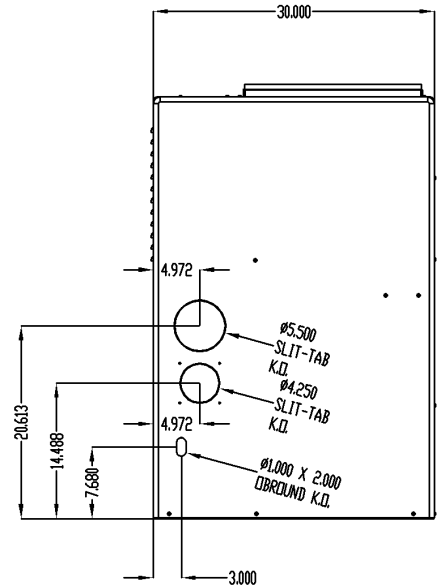
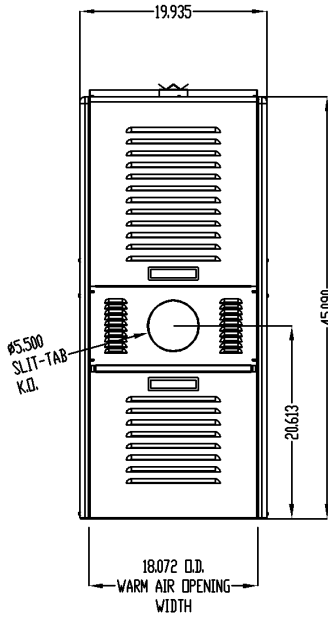
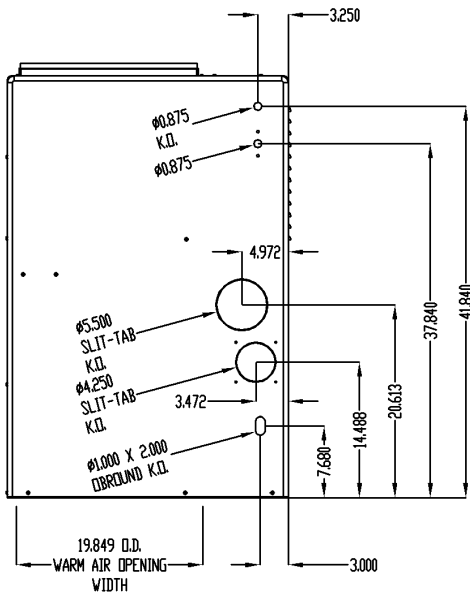
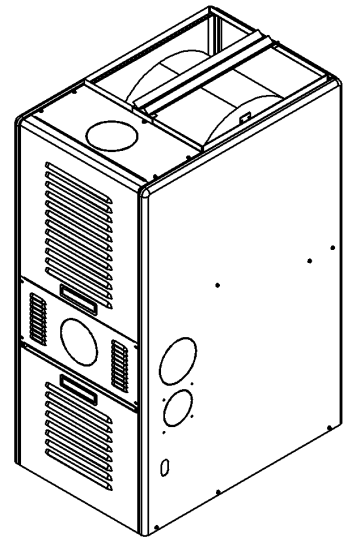
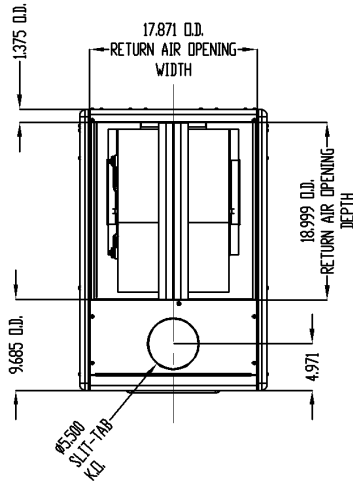
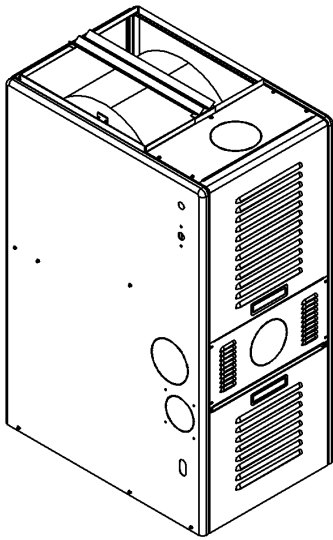
<sup>3</sup> TO PERMIT LARGEST RECOMMENDED AIR CONDITIONING (AT .5 STATIC PRESSURE), SELECTION OF THE HIGHEST MOTOR SPEED IS REQUIRED.

<sup>4</sup> NOT TO BE USED IN SIDEWALL VENT APPLICATIONS, USE ONLY WHEN CHIMNEY VENTED.

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

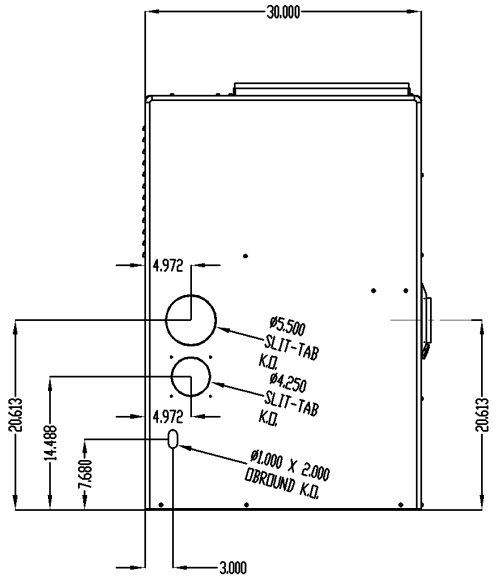
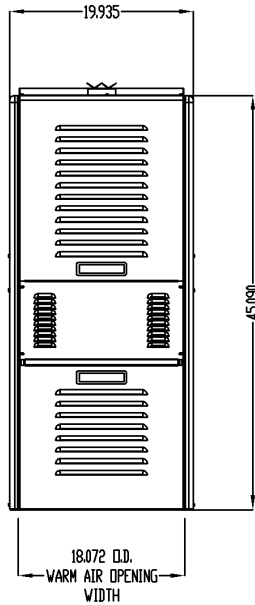
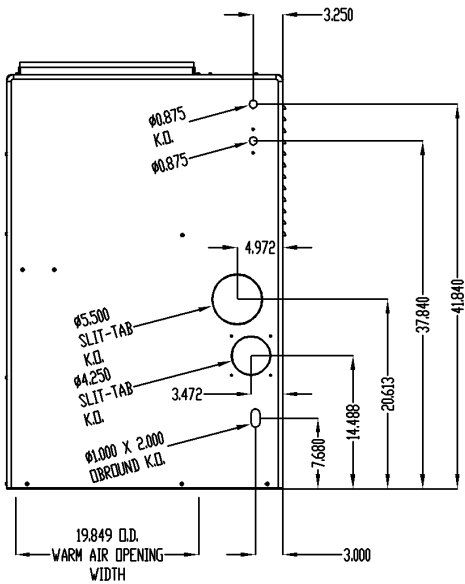
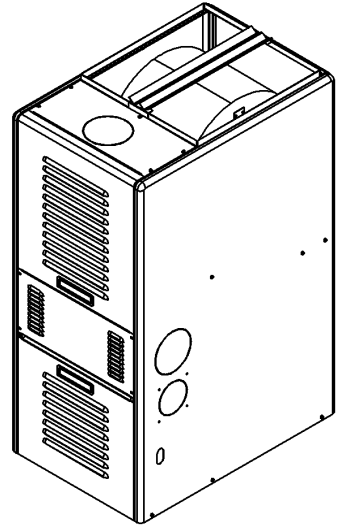
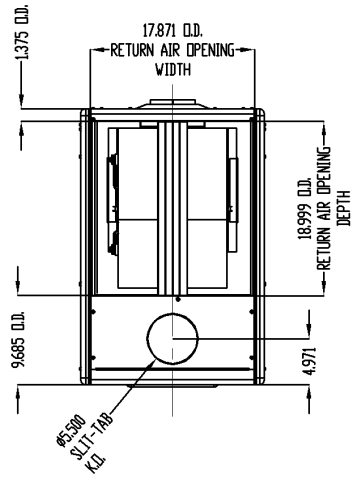
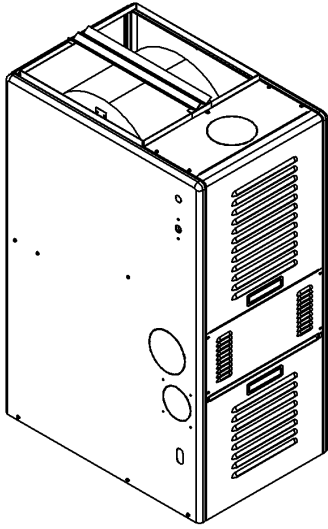
- SEE NEXT PAGE FOR MORE DATA -

# OIL FIRED COUNTERFLOW/HORIZONTAL FURNACE SPECIFICATIONS



OD6FA072D\*\*\*

- SEE NEXT PAGE FOR MORE DATA -



**OD6RA072D\*\*\***

- SEE NEXT PAGE FOR MORE DATA -

## OIL FIRED COUNTERFLOW/HORIZONTAL FURNACE SPECIFICATIONS

<b>BLOWER DATA:</b>	<b>OD6F/RA072D48</b>	<b>OD6F/RA072DV5</b>
BLOWER MODEL <sup>4</sup>	<b>12-9-T-DD-11</b>	<b>12-9-T-DD-11</b>
MOTOR H.P.	½ HP	1 HP Variable Speed
MOTOR TYPE & NUMBER OF SPEEDS	PSC - 5	ECM -
HIGH SPEED AIRFLOW (SCFM) @ 0.5 IN. W.G. EXTERNAL STATIC PRESSURE:	1600	2000
Diameter x Width	12 x 9	12 x 9

<b>BURNER DATA:</b>	<b>RIELLO "BF3" WITH CERA-FELT SLEEVE</b>		
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 (HARD CERAMIC)		

<b>BURNER DATA:</b>	<b>BECKETT "AFG" S-PLATE 3912 (3-5/8") 31517 CERAMIC</b>		
AIR TUBE LENGTH (IN.)	4 ½"		
BURNER HEAD TYPE:	F-3		
FUEL TYPE:	#2		
NOZZLE RATING (GPH):	.75	.60	.50
SPRAY ANGLE (DEG.):	80°	80°	80°
SPRAY PATTERN:	HOLLOW (A)	HOLLOW (A)	HOLLOW (A)
OIL PUMP PRESSURE (PSIG):	120 PSI		
COMBUSTION CHAMBER TYPE:	REFRACTORY (HARD CERAMIC)		

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

<sup>4</sup> DD - DIRECT DRIVE

- SEE NEXT PAGE FOR MORE DATA -

## OIL FIRED COUNTERFLOW/HORIZONTAL FURNACE SPECIFICATIONS OD6F/RA072D48

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

Speed Tap \ Static Pressure	Furnace Airflow (CFM) vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	797	792	770	735	692	643	613
ML	1019	1011	1002	982	953	935	913
Med	1230	1219	1203	1191	1150	1114	1090
MH	1370	1357	1335	1316	1280	1238	1203
High	1846	1789	1750	1705	1640	1588	1533

Motor Current Draw (Amps) vs. External Static pressure (in. WC.)							
Low	3.53	3.4	3.27	3.12	3	2.88	2.7
ML	4.6	4.53	4.46	4.33	4.2	4.09	3.99
Med	5.6	5.47	5.42	5.35	4.83	4.61	4.53
MH	6.7	6.28	5.97	5.76	5.46	5.22	5.01
High	8.26	8.02	7.78	7.49	7.14	6.86	6.58

Speed Tap \ Static Pressure	High Fire Temperature Rise vs. External Static Pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	104	106	109	115	121	128	143
ML	83	82	83	85	87	92	102
Med	68	69	70	72	74	76	79
MH	58	59	60	61	63	66	68
High	44	46	47	48	49	51	53

Speed Tap \ Static Pressure	Mid Fire Temperature Rise vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	83	85	87	92	97	102	115
ML	66	66	67	68	70	73	82
Med	55	55	56	57	59	61	63
MH	47	47	48	49	51	53	55
High	35	36	38	38	40	41	43

Speed Tap \ Static Pressure	Low Fire Temperature Rise vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	69	70	72	76	80	84	94
ML	54	54	55	56	58	60	67
Med	45	46	46	47	49	50	52
MH	38	39	40	40	42	43	45
High	29	30	31	32	33	34	35

= Recommended operation range

- SEE NEXT PAGE FOR MORE DATA -

### Heating Speed Set-ups

		Low Fire	Med Fire	High Fire
		60,000	72,000	90,000
Fan Control SW 1 Switch Settings	BTUH Heating CFM	Aprox. Rise (F°)	Aprox. Rise (F°)	Aprox. Rise (F°)
3-OFF 2-OFF 1-OFF	755	73		
3-OFF 2-OFF 1-ON	826	66	80	
3-OFF 2-ON 1-OFF	898	61	74	
3-OFF 2-ON 1-ON	983	56	67	84
3-ON 2-OFF 1-OFF	1068		62	77
3-ON 2-OFF 1-ON	1168		57	71
3-ON 2-ON 1-OFF	1282			64
3-ON 2-ON 1-ON	1424			58

 = Recommended Heating Speed Setting

### Cooling Speed Set-ups

Air Flow			
Fan Control SW 1 Switch Settings	Clg. Tonnage	Cool	Continuous
6-OFF 5-OFF 4-OFF	2	799	500
6-OFF 5-OFF 4-ON	2.5	1017	508
6-OFF 5-ON 4-OFF	3	1210	605
6-OFF 5-ON 4-ON	3.5	1404	702
6-ON 5-OFF 4-OFF	4	1622	799
6-ON 5-ON 4-OFF	5	2010	993

- SEE NEXT PAGE FOR MORE DATA -

**OIL FIRED COUNTERFLOW/HORIZONTAL FURNACE SPECIFICATIONS**  
A/C INDOOR COIL APPLICATION

FURNACE MODEL	CONDENSER MODEL	LINE SET MODEL	COIL CABINET MODEL	EVAPORATOR COIL MODEL	SEER	EER	TOTAL (BTU/HR) HEAT REMOVAL	SENSIBLE HEAT REMOVAL
OD6FA072D48 OD6RA072D48 COUNTERFLOW	AC14241G2	LS01E-30 LS01E-50	CE112S	13U2430AB15	13.80	12.30	24,000	0.730
			CE212T	13U3036AB17	14.40	12.70	25,400	0.739
	AC14301G2	LS01E-30 LS01E-50	CE112S	13U2430AB15	13.70	12.30	29,000	0.737
			CE212T	13U3036AB17	14.50	13.00	30,400	0.746
	AC14361G2	LS03E-30 LS03E-50	CE112S	13U2430AB15	13.40	11.95	33,800	0.736
			CE212T	13U3036AB17	14.00	12.50	35,600	0.750
	AC14421G2	LS03E-30 LS03E-50	CE212T	13U3642AB17	13.40	12.00	41,000	0.748
			CE312T	13U4248AB20	13.80	12.20	42,000	0.749
			CE312T	13C4860HA26 <sup>2</sup>	14.10	12.50	43,000	0.758
	AC14481G2	LS03E-30 LS03E-50	CE212T	13U3642AB17	13.00	11.60	46,000	0.746
			CE312T	13U4248AB20	13.35	12.00	47,500	0.748
			CE312T	13C4860HA26 <sup>2</sup>	13.65	12.20	48,500	0.758
OD6FA072D48 OD6RA072D48 HORIZONTAL	AC14241G2	LS01E-30 LS01E-50	N/A	13C2430HA19	14.00	12.40	24,000	0.733
				13C3036HA19	14.40	12.70	25,400	0.739
	AC14301G2	LS01E-30 LS01E-50	N/A	13C2430HA19	14.00	12.50	29,400	0.739
				13C3036HA19	14.50	13.00	30,400	0.746
	AC14361G2	LS03E-30 LS03E-50	N/A	13C2430HA19	13.70	12.20	34,600	0.740
				13C3036HA19	14.00	12.50	35,600	0.750
	AC14421G2	LS03E-30 LS03E-50	N/A	13C3642HA19	13.40	12.00	41,000	0.748
				13C4248HA19	13.80	12.20	42,000	0.749
				13C4860HA26 <sup>1</sup>	14.10	12.50	43,000	0.758
	AC14481G2	LS03E-30 LS03E-50	N/A	13C3642HA21	13.00	11.60	46,000	0.746
				13C4248HA21	13.35	12.00	47,500	0.748
				13C4860HA26 <sup>1</sup>	13.65	12.20	48,500	0.758

<sup>1</sup> ADAPTION REQUIRED

<sup>2</sup> COIL MUST BE REMOVED FROM ORIGINAL CASING

- SEE NEXT PAGE FOR MORE DATA -

**OIL FIRED COUNTERFLOW/HORIZONTAL FURNACE SPECIFICATIONS  
A/C INDOOR COIL APPLICATION**

FURNACE MODEL	CONDENSER MODEL	LINE SET MODEL	COIL CABINET MODEL	EVAPORATOR COIL MODEL	SEER	EER	TOTAL (BTU/HR) HEAT REMOVAL	SENSIBLE HEAT REMOVAL
OD6FA072DV5 OD6RA072DV5 COUNTERFLOW	AC14241G2	LS01E-30 LS01E-50	CE112S	13U2430AB15	15.20	13.30	25,000	0.730
			CE212T	13U3036AB17	15.80	13.80	26,000	0.739
	AC14301G2	LS01E-30 LS01E-50	CE112S	13U2430AB15	14.90	13.30	29,600	0.736
			CE212T	13U3036AB17	15.70	13.95	31,000	0.750
	AC14361G2	LS03E-30 LS03E-50	CE112S	13U2430AB15	14.40	12.70	34,400	0.736
			CE212T	13U3036AB17	15.00	13.30	36,000	0.750
	AC14421G2	LS03E-30 LS03E-50	CE212T	13U3642AB17	13.90	12.40	41,500	0.749
			CE312T	13U4248AB20	14.30	12.70	42,500	0.749
			CE312T	13C4860HA26 <sup>2</sup>	14.50	12.80	43,000	0.758
	AC14481G2	LS03E-30 LS03E-50	CE212T	13U3642AB17	13.00	11.60	46,000	0.746
			CE312T	13U4248AB20	13.50	12.00	47,500	0.748
			CE312T	13C4860HA26 <sup>2</sup>	13.65	12.20	48,500	0.758
	AC14601G2	LS03E-30 LS03E-50	CE312T	13C4860HA26 <sup>2</sup>	13.00	11.60	60,000	0.753
	OD6FA072DV5 OD6RA072DV5 HORIZONTAL	AC14241G2	LS01E-30 LS01E-50	N/A	13C2430HA19	15.40	13.50	25,200
13C3036HA19					15.80	13.80	26,000	0.739
AC14301G2		LS01E-30 LS01E-50	N/A	13C2430HA19	15.00	13.40	29,800	0.740
				13C3036HA19	15.70	13.95	31,000	0.750
AC14361G2		LS03E-30 LS03E-50	N/A	13C2430HA19	14.60	12.95	35,000	0.741
				13C3036HA19	15.00	13.30	36,000	0.750
AC14421G2		LS03E-30 LS03E-50	N/A	13C3642HA19	13.90	12.40	41,500	0.749
				13C4248HA19	14.30	12.70	42,500	0.749
				13C4860HA26 <sup>1</sup>	14.50	12.80	43,000	0.758
AC14481G2		LS03E-30 LS03E-50	N/A	13U3642AB17	13.00	11.60	46,000	0.746
				13U4248AB20	13.50	12.00	47,500	0.748
				13C4860HA26 <sup>2</sup>	13.65	12.20	48,500	0.758
AC14601G2		LS03E-30 LS03E-50	N/A	13C4860HA26 <sup>2</sup>	13.00	11.60	60,000	0.753

<sup>1</sup> ADAPTION REQUIRED

<sup>2</sup> COIL MUST BE REMOVED FROM ORIGINAL CASING