



SINGLE STAGE GAS HIGH EFFICIENCY UPFLOW FURNACE SPECIFICATIONS

MODEL NO.	CLHS1-075P42N	CLHS1-100P48N	CLHS1-125P60N
FUEL	GAS NAT/LP ⁴	GAS NAT/LP ⁴	GAS NAT/LP ⁴
INPUT BTUH	75,000	100,000	125,000
OUTPUT BTUH ¹	73,000	96,000	120,000
SEASONAL EFFICIENCY ²	95.0%	95.0%	95.0%
LARGEST REC A/C ³	3.5 T	4 T	5 T
NOMINAL TEMP RISE	60°	60°	60°
APPROX EFFECTIVE HEATING SURFACE	4490 SQ IN.	5550 SQ IN.	5815 SQ IN.
APPROX SHIPPING WEIGHT	166 LBS	183 LBS	197 LBS
APPROVAL AGENCY	ETL	ETL	ETL
DIA OF FLUE (PVC)	2"	3"	3"
DIA OF COMBUSTION AIR INTAKE (PVC)	2"	3"	3"
SUPPLY AIR OUTLET SIZE (W-IN x D-IN)	20" x 20"	20" x 20"	23-1/2" x 20"
RETURN AIR DUCTWORK CONNECTION ON FILTER RACK (D-IN x H-IN)	24-1/2" x 15"	24-1/2" x 15"	23-3/4" x 19"
RETURN AIR INLET OPENING IN SIDE CASING (TO BE CUTOUT BY DEALER) (D-IN x H-IN)	23-1/8" x 14-1/8"	23-1/8" x 14-1/8"	23-1/8" x 14-1/8"
QTY AND SIZE OF PERMANENT FILTERS	ONE 1" x 25" x 16"	ONE 1" x 25" x 16"	ONE 1" x 25" x 20"
ELECTRICAL RATING	115V 60HZ 1PH	115V 60HZ 1PH	115V 60HZ 1PH
MAX FUSE SIZE	15 AMP	15 AMP	15 AMP
ACCESSORY ITEMS			
FILTER RACK	AOPS7547	AOPS7547	AOPS7375
CONCENTRIC VENT KIT	AOPS7488	AOPS7489	AOPS7489
SIDEWALL VENT CAP	370191	370191	370191
NEUTRALIZER KIT	320095	320095	320095
CONDENSATE PUMP	350224	350224	350224
PLENUM ADAPTER KIT (FOR CA SERIES COILS)	N/A	N/A	AOPS7763
SUPPLY PLENUM	PK202X202	PK202X202	PK202X234
RETURN AIR DROP	RD2510X2516	RD2510X2516	RD2512X2520
FURNACE PARTS KIT	AOPS7761	AOPS7761	AOPS7761

¹ OUTPUT BTUH BASED ON AHRI LISTING.

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 LP CONVERSION KIT SHIPPED WITH FURNACE.

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

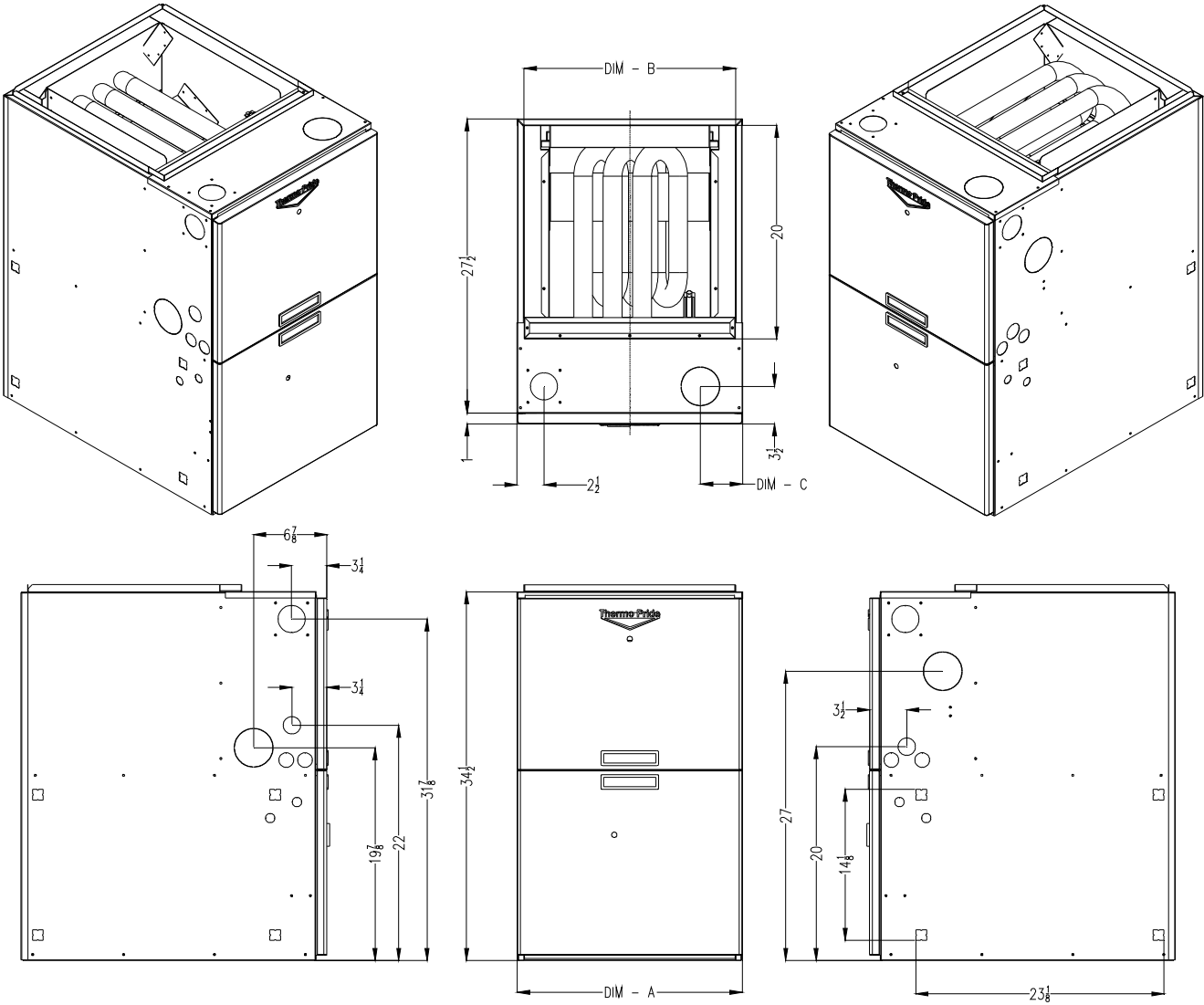
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Model Number Digit	1	2	3	4	5	6	7	8	9	10	11	12	13
	Category	Profile	Configuration	Staging	Version		Input	Input	Input	Motor Type	Clg Airflow Cap	Clg Airflow Cap	Gas Type
Gas Furnace Model Nomenclature Example Model Numbers	C	L	H	S	1	-	0	7	5	P	4	2	N
	C	L	H	S	1	-	1	0	0	T	4	8	N
C = Condensing	C												
L = Low-profile		L											
H = Highboy			H										
Stage: S = Single, X = 2-Stage				S									
Version (Rev)					1								
Input Capacity in MBTUH (1000)						-	0	7	5				
Motor Type: P = PSC, T = CTM, E = ECM										P			
Cooling Airflow Capacity in MBTUH (1000)											4	2	
Gas Type: N = Natural, P = Liquid Propane													N

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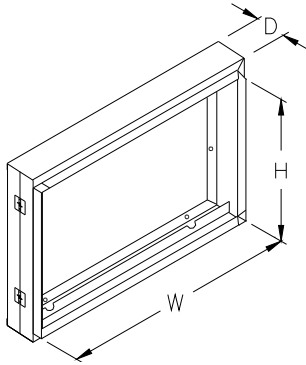


DIM/UNIT	-075	-100	-125
A	21	21	24 1/2
B	19 7/8	19 7/8	23 3/8
C	4	2 1/8	3 3/4

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FILTER RACK SPECIFICATIONS



FILTER RACK DIMENSIONS			
MODELS	RETURN AIR PLENUM FLANGE		DEPTH OF RACK
	H	W	D
AOPS7547	15"	24-1/2"	2-1/8"
AOPS7375	19"	23-3/4"	6-1/8"

BLOWER DATA:	CLHS1-075P42N	CLHS1-100P48N	CLHS1-125P60N
BLOWER MODEL (DIRECT DRIVE)	10-10R	10-10R	12-11T
MOTOR H.P. (PSC)	1/2 - 4SP	3/4 - 4SP	3/4 - 4SP

BURNER DATA			
BURNER TYPE	INSHOT	INSHOT	INSHOT
NO. PER UNIT	3	4	5
MAX INLET PRESSURE (NAT)	14" WC	14" WC	14" WC
MIN INLET PRESSURE (NAT)	4.5" WC	4.5" WC	4.5" WC
MAX INLET PRESSURE (LP)	14" WC	14" WC	14" WC
MIN INLET PRESSURE (LP)	11" WC	11" WC	11" WC
NORMAL MANIFOLD PRESS (NAT)	3.5" WC	3.5" WC	3.5" WC
NORMAL MANIFOLD PRESS (LP)	10" WC	10" WC	10" WC
ORIFICE SIZE (NAT.)	0.0935" (#42)	0.0935" (#42)	0.0935" (#42)
DIA. (D.M.S.) (L.P.)	0.0591" (1.5mm)	0.0591" (1.5mm)	0.0591" (1.5mm)

CLEARANCES			
	MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS:		
SIDES	0"	0"	0"
FRONT (SERVICE ACCESS)	6" (24")	6" (24")	6" (24")
REAR	0"	0"	0"
FLUE	0"	0"	0"
TOP	1"	1"	1"

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SINGLE STAGE GAS HIGH EFFICIENCY UPFLOW FURNACE SPECIFICATIONS

CLHS1-075P42N

Alterations Req'd For A/C @ Design External Static Pressure		
Cooling Unit	HTG Speed	Recommended CLG Speed
24,000	Med Low (Blue)	Low (Red)
30,000	Med High (Yellow)	Med Low (Blue)
36,000	Med Low (Blue)	Med High (Yellow)
42,000	Med Low (Blue)	* High (Black)

* This speed not recommended at static pressures of 0.3 in WC or less

Temperature Rise (°F)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	95	95	95	97	101	104	113
Med (Blue)	69	69	69	70	74	80	87
Med High (Yellow)	44	46	49	51	55	64	70
High (Black)	38	40	44	47	50	57	64

Airflow (CFM)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	696	697	694	680	656	635	582
Med (Blue)	952	954	958	941	890	828	757
Med High (Yellow)	1509	1428	1344	1281	1193	1034	941
High (Black)	1743	1647	1516	1405	1318	1165	1024

Current (A)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	7.0	6.9	6.7	6.5	6.3	6.1	5.9
Med (Blue)	7.8	7.5	7.3	7.0	6.5	6.2	6.0
Med High (Yellow)	8.8	8.3	7.8	7.5	7.1	6.6	6.4
High (Black)	10.2	9.9	9.7	9.5	9.4	9.2	9.0

Power (W)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	530	528	524	518	509	498	484
Med (Blue)	635	625	612	594	558	536	517
Med High (Yellow)	793	749	709	682	648	596	575
High (Black)	892	856	820	793	770	731	705

Note: Shading indicates recommended operating range for heating.

SEE NEXT PAGE FOR MORE DATA -

SINGLE STAGE GAS HIGH EFFICIENCY UPFLOW FURNACE SPECIFICATIONS

CLHS1-100P48N

Alterations Req'd For A/C @ Design External Static Pressure		
Cooling Unit	HTG Speed	Recommended CLG Speed
30,000	Med Low (Blue)	Low (Red)
36,000	Med High (Yellow)	Med Low (Blue)
42,000	Med Low (Blue)	Med High (Yellow)
48,000	Med Low (Blue)	High (Black)

Temperature Rise (°F)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	89	88	85	88	93	103	111
Med (Blue)	62	61	62	65	69	78	92
Med High (Yellow)	47	48	50	56	60	66	77
High (Black)	40	43	46	50	55	60	67

Airflow (CFM)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	889	904	926	898	852	772	710
Med (Blue)	1270	1294	1282	1212	1145	1017	857
Med High (Yellow)	1702	1654	1575	1420	1325	1205	1028
High (Black)	1958	1844	1733	1572	1442	1319	1182

Current (A)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	7.9	7.6	7.3	6.9	6.4	6.1	5.8
Med (Blue)	9.1	8.5	8.1	7.6	7.3	6.7	6.2
Med High (Yellow)	10.2	9.5	8.8	8.1	7.8	7.5	7.0
High (Black)	11.1	10.6	10.1	9.6	9.3	9.0	8.8

Power (W)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	643	633	620	595	565	540	525
Med (Blue)	795	765	733	688	659	609	567
Med High (Yellow)	954	889	826	760	727	688	633
High (Black)	1049	987	929	862	830	792	756

Note: Shading indicates recommended operating range for heating.

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SINGLE STAGE GAS HIGH EFFICIENCY UPFLOW FURNACE SPECIFICATIONS

CLHS1-125P60N

Alterations Req'd For A/C @ Design External Static Pressure		
Cooling Unit	HTG Speed	Recommended CLG Speed
36,000	Med High (Yellow)	Low (Red)
42,000	Med High (Yellow)	Med Low (Blue)
48,000	Med Low (Blue)	Med High (Yellow)
60,000	Med High (Yellow)	* High (Black)

* This speed not recommended at static pressures of 0.3 in WC or less

Temperature Rise (°F)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	70	72	75	78	82	87	94
Med Low (Blue)	61	62	64	67	71	76	82
Med High (Yellow)	53	55	56	59	63	67	74
High (Black)	48	49	51	54	57	61	68

Airflow (CFM)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	1562	1527	1469	1414	1337	1264	1170
Med Low (Blue)	1809	1769	1710	1635	1542	1442	1338
Med High (Yellow)	2088	2011	1947	1857	1755	1644	1487
High (Black)	2311	2267	2135	2030	1920	1807	1620

Current (A)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	8.7	8.4	8.1	7.8	7.5	7.3	7.0
Med Low (Blue)	9.7	9.2	8.9	8.6	8.2	7.9	7.7
Med High (Yellow)	10.8	10.2	9.9	9.5	9.1	8.7	8.4
High (Black)	12.0	11.7	11.3	10.8	10.5	10.1	9.7

Power (W)

Speed Tap	External Static Pressure (in WC)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low (Red)	860	828	800	777	752	735	708
Med Low (Blue)	963	931	899	868	834	811	786
Med High (Yellow)	1100	1050	1017	982	939	908	858
High (Black)	1154	1153	1146	1107	1068	1024	972

Note: Shading indicates recommended operating range for heating.

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A/C Evaporator Coil Applications								
Furnace Model Number	AC Tonnage	Model Number	Coil Model Number	Line Set	Capacity	EER	SEER	AHRI Reference
CLH*1-075*42N	1.5	TCJD18S41S3	13U2430AB15	LS01E-30	17500	11.00	13.00	6309394
		TCJF18S41S3	13U2430AB15		17800	12.00	14.50	6957639
		TCJF18S41S3	13U3030AB15, CA243620	LS01E-50	17800	12.00	14.50	6957640
		TCJF18S41S3	13U3036AB17, CA303620		17800	12.50	15.00	6957641
	2	TCJD24S41S3	13U2430AB15	LS01E-30	24000	11.00	13.00	6309399
		TCJF24S41S3	13U3030AB15, CA243620		24400	12.00	14.50	6957644
		TCJF24S41S3	13U3036AB17, CA303620	24400	12.50	15.00	6957645	
		AL6B024F3	13U2430AB15	LS01E-50	23600	12.00	14.50	6957625
		AL6B024F3	13U3030AB15, CA243620		23600	12.00	14.50	6957627
		AL6B024F3	13U3036AB17, CA303620		23600	12.50	15.00	6957628
	2.5	TCJD30S41S3	13U2430AB15	LS01E-30	29000	11.00	13.00	6309403
		TCJF30S41S3	13U3030AB15, CA243620		29000	12.00	14.50	6957648
		AL6B030F3	13U3030AB15, CA243620	LS01E-50	29400	12.00	14.00	6957631
		AL6B030F3	13U3036AB17, CA303620		30000	12.00	14.50	6957632
	3	TCJD36S41S3	13U3030AB15, CA243620	LS01E-30	34400	11.00	13.00	6309406
		TCJF36S41S3	13U3036AB17, CA303620		34200	12.00	14.50	6957650
		AL6B036F4	13U3036AB17, CA303618	LS01E-50	34400	12.00	14.00	6957633
	3.5	TCJD42S41S4	13U3642AB17, CA424220	LS02E-30	41500	11.00	13.00	6309410
		TCJF42S41S3	13U3642AB17, CA424220		40500	12.00	14.50	6957651
		TCJF42S41S3	13U4248AB20, CA424820	LS02E-50	40500	12.50	15.00	6957652
		AL6B042F3	13U3642AB17, CA424220		40500	12.00	14.50	6957634
		AL6B042F3	13U4248AB20, CA424820		41500	12.50	15.00	6957635

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A/C Evaporator Coil Applications									
Furnace Model Number	AC Tonnage	Model Number	Coil Model Number	Line Set	Capacity	EER	SEER	AHRI Reference	
CLH*1-100*48N	2.5	TCJD30S41S3	13U2430AB15	LS01E-30	29000	11.00	13.00	6309403	
		TCJF30S41S3	13U3030AB15, CA243620		29000	12.00	14.50	6957648	
		AL6B030F3	13U3030AB15, CA243620	LS01E-50	29400	12.00	14.00	6957631	
		AL6B030F3	13U3036AB17, CA303620		30000	12.00	14.50	6957632	
	3	TCJD36S41S3	13U3030AB15, CA243620	LS01E-30	34400	11.00	13.00	6309406	
		TCJF36S41S3	13U3036AB17, CA303620		34200	12.00	14.50	6957650	
		AL6B036F4	13U3036AB17, CA303620	LS01E-50	34400	12.00	14.00	6957633	
	3.5	TCJD42S41S4	13U3642AB17, CA424220	LS02E-30	41500	11.00	13.00	6309410	
		TCJF42S41S3	13U3642AB17, CA424220		40500	12.00	14.50	6957651	
		TCJF42S41S3	13U4248AB20, CA424820	LS02E-50	40500	12.50	15.00	6957652	
		AL6B042F3	13U3642AB17, CA424220		40500	12.00	14.50	6957634	
	AL6B042F3	13U4248AB20, CA424820	41500	12.50	15.00	6957635			
	4	TCJD48S41S3	13U4248AB20, CA424820	LS02E-30	48000	11.00	13.00	6309413	
		TCJF48S41S4	13U4248AB20, CA424820		46000	12.50	15.00	6957654	
		AL6B048F4	13U3642AB17, CA424220	LS02E-50	46000	12.00	14.00	6957636	
		AL6B048F4	13U4248AB20, CA424820		48000	12.00	14.50	6957637	
	AL6B048F4	13C4860AA26	48000	12.50	15.00	6957659			
	CLH*1-125*60N	3	TCJD36S41S3	13U3030AB15, CA243620 *	LS01E-30	34400	11.00	13.00	6309406
			TCJF36S41S3	13U3036AB17, CA303620 *		34200	12.00	14.50	6957650
			AL6B036F4	13U3036AB17, CA303620 *	LS01E-50	34400	12.00	14.00	6957633
3.5		TCJD42S41S4	13U3642AB17, CA424220 *	LS02E-30	41500	11.00	13.00	6309410	
		TCJF42S41S3	13U3642AB17, CA424220 *		40500	12.00	14.50	6957651	
		TCJF42S41S3	13U4248AB20, CA424820 *	LS02E-50	40500	12.50	15.00	6957652	
		AL6B042F3	13U3642AB17, CA424220 *		40500	12.00	14.50	6957634	
AL6B042F3		13U4248AB20, CA424820 *	41500	12.50	15.00	6957635			
4		TCJD48S41S3	13U4248AB20, CA424820 *	LS02E-30	48000	11.00	13.00	6309413	
		TCJF48S41S4	13U4248AB20, CA424820 *		46000	12.50	15.00	6957654	
		AL6B048F4	13U3642AB17, CA424220 *	LS02E-50	46000	12.00	14.00	6957636	
		AL6B048F4	13U4248AB20, CA424820 *		48000	12.00	14.50	6957637	
AL6B048F4		13C4860AA26	48000	12.50	15.00	6957659			
5		TCJD60S41S4	13C4860AA26	LS02E-30					
		TCJF60S41S4	13C4860AA26						
		AL6B060F3CF4	13C4860AA26	LS02E-50					

* Plenum Adapter, part# AOPS7763 is needed when using CA series Cased Coils.