



SINGLE STAGE GAS HIGH EFFICIENCY UPFLOW FURNACE SPECIFICATIONS

MODEL NO.	CLHS1-075T42N	CLHS1-100T48N
FUEL	GAS NAT/LP ⁴	GAS NAT/LP ⁴
INPUT BTUH	75,000	100,000
OUTPUT BTUH ¹	73,000	96,000
SEASONAL EFFICIENCY ²	95.0%	95.0%
LARGEST REC A/C ³	3.5 T	4 T
NOMINAL TEMP RISE	60°	60°
APPROX EFFECTIVE HEATING SURFACE	4490 SQ IN.	5550 SQ IN.
APPROX SHIPPING WEIGHT	166 LBS	183 LBS
APPROVAL AGENCY	ETL	ETL
DIA OF FLUE (PVC)	2"	3"
DIA OF COMBUSTION AIRINTAKE (PVC)	2"	3"
SUPPLY AIR OUTLET SIZE (W-IN x D-IN)	20" x 20"	20" x 20"
RETURN AIR DUCTWORK CONNECTION ON FILTER RACK (D-IN x H-IN)	24-1/2" x 15"	24-1/2" x 15"
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"
QTY AND SIZE OF PERMANENT FILTERS	ONE 1" x 25" x 16"	ONE 1" x 25" x 16"
ELECTRICAL RATING	115V 60HZ 1PH	115V 60HZ 1PH
MAX FUSE SIZE	15 AMP	15 AMP
ACCESSORY ITEMS		
FILTER RACK	AOPS7547	AOPS7547
CONCENTRIC VENT KIT	AOPS7488	AOPS7489
SIDEWALL VENT CAP	370191	370191
NEUTRALIZER KIT	320095	320095
CONDENSATE PUMP	350224	350224
PLENUM ADAPTER KIT (FOR CA SERIES COILS)	N/A	N/A
SUPPLY PLENUM	PK202X202	PK202X202
RETURN AIR DROP	RD2510X2516	RD2510X2516
FURNACE PARTS KIT	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.

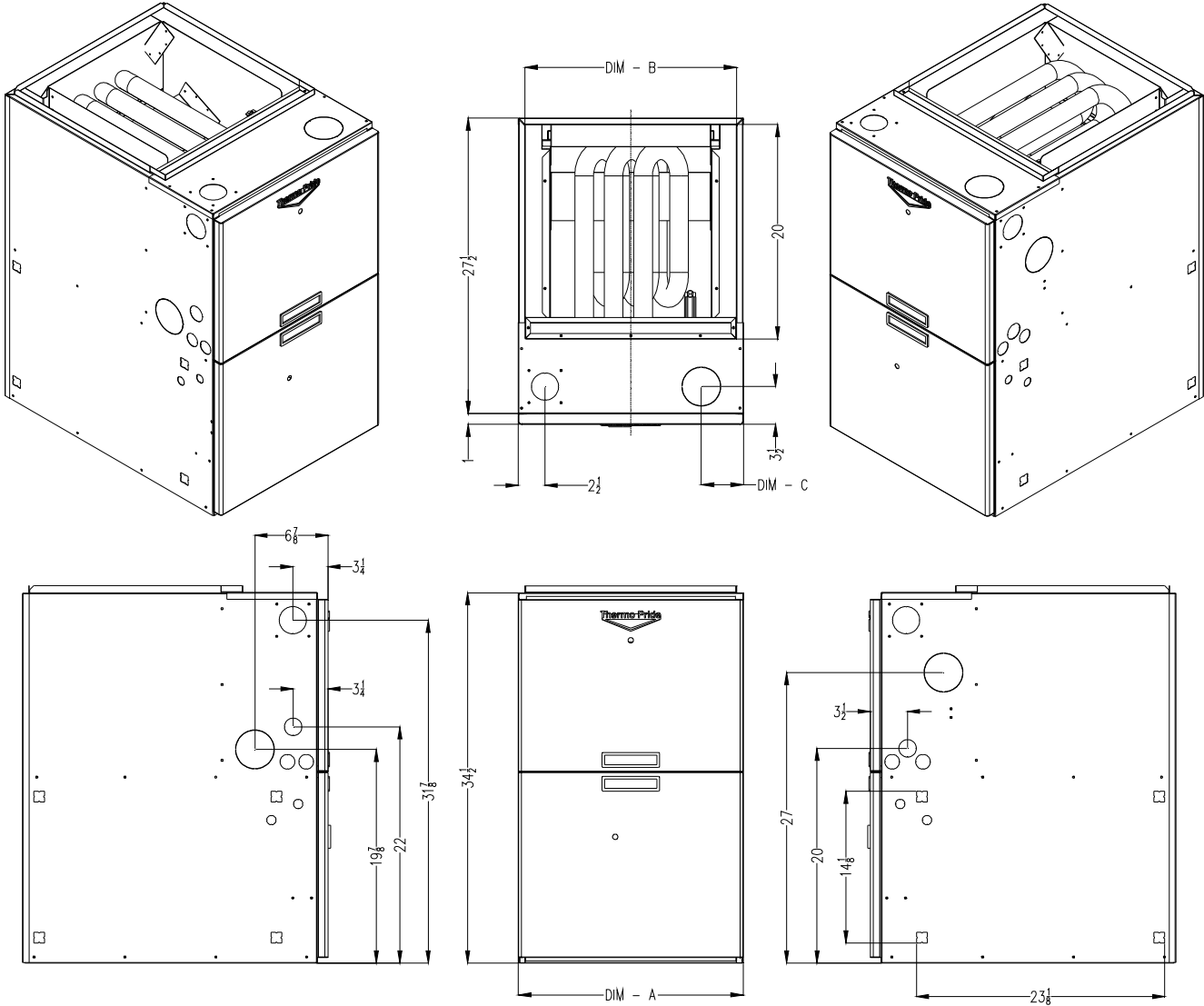
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Model Number Digit	1	2	3	4	5	6	7	8	9	10	11	12	13
	Category	Profile	Configuration	Staging	Version		Input	Input	Input	Motor Type	Clg Airflow Cap	Clg Airflow Cap	Gas Type
Gas Furnace Model Nomenclature Example Model Numbers	C	L	H	S	1	-	0	7	5	T	4	2	N
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

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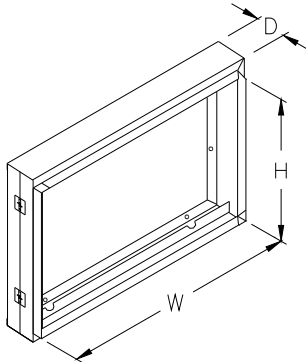


DIM/UNIT	-075	-100
A	21	21
B	19 7/8	19 7/8
C	4	2 1/8

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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"

BLOWER DATA:	CLHS1-075T42N	CLHS1-100T48N
BLOWER MODEL (DIRECT DRIVE)	10-10R	10-10R
MOTOR H.P. (CTM)	1/2 - 5SP	3/4 - 5SP

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

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

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SINGLE STAGE GAS HIGH EFFICIENCY UPFLOW FURNACE SPECIFICATIONS

CLHS1-075T42N

Alterations Req'd For A/C @ Design External Static Pressure		
Cooling Unit	HTG Speed	Recommended CLG Speed
24,000	Med Low (Purple)	Low (Red)
30,000	Med Low (Purple)	Med Blue
36,000	Med Low (Purple)	Med High (Yellow)
42,000	Med Low (Purple)	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)	63	67	71	79	86	94	103
Med Low (Purple)	57	61	64	69	74	79	86
Med (Blue)	55	58	61	65	70	75	80
Med High (Yellow)	48	50	52	55	57	61	64
High (Black)	44	45	46	48	50	57	63

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)	1089	1025	967	869	800	733	670
Med Low (Purple)	1197	1133	1078	990	933	865	803
Med (Blue)	1251	1189	1122	1064	982	914	856
Med High (Yellow)	1424	1379	1314	1254	1210	1132	1075
High (Black)	1577	1531	1480	1432	1368	1214	1086

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)	3.6	3.6	3.7	3.8	3.9	3.9	4.0
Med Low (Purple)	4.1	4.2	4.3	4.4	4.5	4.5	4.6
Med (Blue)	4.3	4.4	4.5	4.6	4.7	4.8	4.8
Med High (Yellow)	5.4	5.5	5.6	5.7	5.8	6.0	6.0
High (Black)	6.7	6.7	6.9	7.0	7.1	6.5	6.0

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)	317	324	331	342	347	353	358
Med Low (Purple)	364	374	381	393	400	406	412
Med (Blue)	387	397	405	415	425	432	438
Med High (Yellow)	496	507	516	526	536	549	557
High (Black)	621	632	645	655	660	606	568

Note: Shading indicates recommended operating range for heating.

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SINGLE STAGE GAS HIGH EFFICIENCY UPFLOW FURNACE SPECIFICATIONS

CLHS1-100T48N

Alterations Req'd For A/C @ Design External Static Pressure		
Cooling Unit	HTG Speed	Recommended CLG Speed
30,000	Med (Blue)	Low (Red)
36,000	Med (Blue)	Med Low (Purple)
42,000	Med (Blue)	Med High (Yellow)
48,000	Med (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)	71	75	79	84	90	100	109
Med Low (Purple)	62	65	68	72	74	79	83
Med (Blue)	60	62	66	69	72	75	79
Med High (Yellow)	55	56	58	61	63	66	68
High (Black)	49	50	51	53	57	61	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)	1239	1178	1107	1046	976	883	806
Med Low (Purple)	1414	1357	1295	1224	1186	1120	1062
Med (Blue)	1467	1416	1341	1276	1229	1177	1119
Med High (Yellow)	1601	1558	1505	1448	1391	1340	1301
High (Black)	1799	1762	1716	1646	1547	1438	1322

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)	3.9	4.1	4.2	4.3	4.4	4.5	4.5
Med Low (Purple)	4.8	4.9	5.1	5.2	5.2	5.3	5.5
Med (Blue)	5.1	5.2	5.4	5.5	5.6	5.6	5.8
Med High (Yellow)	6.0	6.1	6.3	6.4	6.5	6.6	6.7
High (Black)	7.3	7.5	7.7	7.9	7.6	7.3	6.9

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)	328	341	351	359	370	379	386
Med Low (Purple)	406	422	434	446	452	464	477
Med (Blue)	434	451	464	473	483	490	502
Med High (Yellow)	523	540	557	569	579	589	597
High (Black)	655	668	689	712	683	656	612

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 LS02E-50	41500	11.00	13.00	6309410
		TCJF42S41S3	13U3642AB17, CA424220		40500	12.00	14.50	6957651
		TCJF42S41S3	13U4248AB20, CA424820		40500	12.50	15.00	6957652
AL6B042F3		13U3642AB17, CA424220	40500		12.00	14.50	6957634	
AL6B042F3		13U4248AB20, CA424820	41500		12.50	15.00	6957635	
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 LS02E-50	41500	11.00	13.00	6309410
		TCJF42S41S3	13U3642AB17, CA424220		40500	12.00	14.50	6957651
		TCJF42S41S3	13U4248AB20, CA424820		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 LS02E-50	48000	11.00	13.00	6309413
		TCJF48S41S4	13U4248AB20, CA424820		46000	12.50	15.00	6957654
		AL6B048F4	13U3642AB17, CA424220		46000	12.00	14.00	6957636
		AL6B048F4	13U4248AB20, CA424820		48000	12.00	14.50	6957637
		AL6B048F4	13C4860AA26		48000	12.50	15.00	6957659