HCG**V1P

ENHANCED AIR HANDLER

ECM Variable Speed Motor

SPECIFICATIONS

Application
- 2 - 5 ton systems
- Sequenced for demand management
- External access to heater circuit breakers

Installation
- 1 piece design
- Smaller profile for closet applications
- Multi-position = Upflow/Horizontal Left/Right
- Approved for installation in manufactured housing and mobile homes

Cabinet
- Foil faced insulation for enhanced indoor air quality
- Double hemmed technology for increased structural rigidity
- Improved gasketing on doors to prevent air leaks
- Filter rack with thumb screws for easy access and removal
- Polymer plugs on drain locations for easy installation
- Baked polyester paint finished over galvanized steel for maximum durability
- High-strength/heat resistant/corrosion resistance SMC drain pans
- Antimicrobial polymer drain pan built to resist mold and mildew growth
- 2% or less air leakage

Coils
- Total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Factory leak tested and pre-charged with nitrogen holding charge

Components
- Variable speed blower motor (constant air flow)
- Standard transformer
- Field installed 5 - 20kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubes

Accessories
- Single point power kit

Warranty—6 years on parts
(Some limitations apply; see printed warranty for details.)
www.marsdelivers.com

MODEL NUMBER GUIDE

H	C	G	24	V	1	P
DX Air Handler	Coil Multi-Tubed Aluminum Alloy	'Green' Gas R-410A	Capacity BTUH x 1000	TXV with ECM Drive	Power 1 = 208/230-1-60	Series/ Revision

PHYSICAL

Model	Volts/Hz/Phase	Max. Elec. Heat Available (kW)	Transformer Size & Type	Filter Size (in.)	Refrigerant Connection (IDS)		Installed TXV Size	Weight (lbs.)
					Suction (in.)	Liquid (in.)		
HCG24V1P	208-230/60/1	10	40 VA Class 2	15 x 20 x 1	3/4	3/8	H4TXV01	127
HCG30V1P	208-230/60/1	15	40 VA Class 2	15 x 20 x 1	3/4	3/8	H4TXV01	133
HCG36V1P	208-230/60/1	15	40 VA Class 2	18 x 20 x 1	7/8	3/8	H4TXV02	163
HCG42V1P	208-230/60/1	15	40 VA Class 2	18 x 20 x 1	7/8	3/8	H4TXV02	168
HCG48V1P	208-230/60/1	20	40 VA Class 2	18 x 20 x 1	7/8	3/8	H4TXV02	186
HCG60V1P	208-230/60/1	20	40 VA Class 2	18 x 20 x 1	7/8	3/8	H4TXV03	186

INSTALLATION CLEARANCES WITH ELECTRIC HEAT

CABINET	0 inch (0 mm)
TO PLENUM	0 inch (0mm)
TO OUTLET DUCT WITHIN 3 FEET (914 MM)	0 inch (0 mm)
FLOOR	0 inch (0 mm) See Note #1
SERVICE / MAINTENANCE	See Note #2

1 Units installed on combustible floors in the downflow position with electric heat require optional downflow combustible flooring base.

2 Front service access - 24 inches (610 mm) minimum.

Note - If cabinet depth is more than 24 inches (610mm), allow a minimum of the cabinet depth plus 2 inches (51 mm).

Intertek

ACCESSORIES

DESCRIPTION	WHERE USED	KIT NUMBER
Down-flow Kit	24, 30	Y9658A
	36, 42, 48, 60	Y9659A
Horizontal Support Frame kit	All Models	56J18
Side Return Unit Stand (upflow only)	All Models	45K32
Single Point Power Kit	All Models	21H39
Wall Hanging Bracket Kit (upflow only)	All Models	45K30
High Performance Economizer (Commercial Only)	All Models	10U53

ELECTRIC HEAT

Electric Heat Kits with Terminal Block				
Size	**Model**	**C/B Size ***	**WHERE USED**	**Cat #**
5 kW	ECBA25-5	NA	24, 30, 36, 42, 48, 60	16Y36
7.5 kW	ECBA25-7.5	NA	24, 30, 36, 42, 48, 60	16Y37
10 kW	ECBA25-10	NA	24, 30, 36, 42, 48, 60	16Y38
Electric Heat Kits with Circuit Breaker				
5 kW	ECBA25-5CB	30A	24, 30, 36, 42, 48, 60	16Y39
7.5 kW	ECBA25-7.5CB	45A	24, 30, 36, 42, 48, 60	16Y41
10 kW	ECBA25-10CB	60A	24, 30, 36, 42, 48, 60	16Y42
12.5 kW	ECBA25-12.5CB	50A + 25A	30, 36, 42, 48, 60	16Y43
15 kW	ECBA25-15CB	60A + 25A	30, 36, 42, 48, 60	16Y44
20 kW	ECBA25-20CB	60A + 50A	48, 60	16Y46
Replacement Circuit Breakers (2 pole)				
Volts	**Size**		**Cat #**	
208/240V- 1 phase	25A		41K13	
	30A		17K70	
	35A		72K07	
	40A		49K14	
	45A		17K71	
	50A		41K12	
	60A		17K72	

** Circuit breaker must match rated "Max C/B Size"; replace breaker as necessary.*

ELECTRICAL

Model	Heating Capacity (240V)			Blower Amps	Min. Circuit Ampacity				Max. Circuit Breaker Size				Single Point Power Supply			
	Nominal Heater SizekW	kW	Btuh		208V		240V		208V		240V		208V		240V	
					1	2	1	2	1	2	1	2	Amps	Fuse	Amps	Fuse
HCG24V1P	0	0	0	3.9	4.9		4.9		15		15					
	5	4.8	16400		27		30		30		30					
	7.5	7.5	25600		39		44		40		45					
	10	9.6	32700		48		55		50		60					
HCG30V1P	0	0	0	3.9	4.9		4.9		15		15					
	5	4.8	16400		27		30		30		30					
	7.5	7.5	25600		39		44		40		45					
	10	9.6	32700		48		55		50		60					
	12.5	12.5	42600		42	19	48	22	45	20	50	25	61	70	70	80
	15	14.4	49100		48	22	55	25	50	25	60	25	70	70	80	80
HCG36V1P	0	0	0	3.9	6.5		4.9		15		15					
	5	4.8	16400		27		30		30		30					
	7.5	7.5	25600		39		44		40		45					
	10	9.6	32700		48		55		50		60					
	12.5	12.5	42600		42	19	48	22	45	20	50	25	61	70	72	80
	15	14.4	49100		50	22	57	25	50	25	60	25	72	80	82	90
HCG42V1P	0	0	0	6.9	8.6		6.5		15		15					
	5	4.8	16400		30		34		30		35					
	7.5	7.5	25600		42		48		45		50					
	10	9.6	32700		52		59		60		60					
	12.5	12.5	42600		46	19	52	22	50	20	60	25	65	70	74	80
	15	14.4	49100		52	22	59	25	60	25	60	25	74	80	84	90
HCG48V1P	0	0	0	6.9	8.6		8.6		15		15					
	5	4.8	16400		30		34		30		35					
	7.5	7.5	25600		42		48		45		50					
	10	9.6	32700		52		59		60		60					
	12.5	12.5	42600		46	19	52	22	50	20	60	25	65	70	74	80
	15	14.4	49100		53	22	60	25	60	25	60	25	75	80	85	90
	20	19.2	65500		53	43	60	50	60	45	60	50	96	100	110	110
HCG60V1P	0	0	0	6.9	9.5		8.6		15		15					
	5	4.8	16400		30		34		30		35					
	7.5	7.5	25600		42		48		45		50					
	10	9.6	32700		52		59		60		60					
	12.5	12.5	42600		46	19	52	22	50	20	60	25	65	70	74	80
	15	14.4	49100		53	22	60	25	60	25	60	25	75	80	85	90
	20	19.2	65500		53	43	60	50	60	45	60	50	96	100	110	110

1. *For 208 volt use .751 correction factor for kW and Btuh*
2. *12.5kW, 15 and 20kW (2 stage models) require 2 supply circuits*
3. *Circuit #1 includes blower motor amps except 20kW models*

Century®

HCG24V1P BLOWER PERFORMANCE 0 through 0.80 in. w.g. External Static Pressure Range												
"ADJUST" Jumper Setting	Jumper Speed Positions											
	"HEAT" Speed (W)				First Stage "COOL" Speed (Y1)				Second Stage "COOL" Speed (Y1 + Y2)			
	1	2	3	4	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	450	670	900	1120	340	450	650	770	450	670	900	1120
NORM	420	620	820	1050	300	400	600	700	420	620	820	1050
–	390	570	750	915	280	390	500	650	390	570	750	915

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
First stage cooling air volume is 70% of COOL speed setting. Continuous blower speed is approximately 50% of COOL speed setting.

HCG24V1P BLOWER MOTOR WATTS AT "+" (Plus) SETTING ("Adjust" Jumper at "+" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	40	50	60	74	86	95	112	124
	Tap 2	82	100	116	136	151	163	185	197
	Tap 3	173	190	213	236	257	283	300	316
	Tap 4	290	318	339	363	379	407	447	463
First Stage"COOL"Speed	Tap 1	27	37	46	57	68	76	88	104
	Tap 2	41	54	62	75	87	97	108	121
	Tap 3	75	94	109	127	145	161	173	191
	Tap 4	113	133	146	168	189	205	222	244
Second Stage"COOL"Speed	Tap 1	40	50	60	74	86	95	112	124
	Tap 2	82	100	116	136	151	163	185	197
	Tap 3	173	190	213	236	257	283	300	316
	Tap 4	290	318	339	363	379	407	447	463

AT "NORM" SETTING ("Adjust" Jumper at NORM Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	33	45	57	68	78	89	101	115
	Tap 2	64	81	96	113	132	145	159	179
	Tap 3	133	152	172	190	211	231	252	270
	Tap 4	253	278	307	325	348	374	397	415
First Stage"COOL"Speed	Tap 1	26	36	39	52	62	73	93	102
	Tap 2	37	45	57	66	76	90	100	113
	Tap 3	62	80	94	108	123	135	152	171
	Tap 4	88	108	128	145	162	181	195	214
Second Stage"COOL"Speed	Tap 1	33	45	57	68	78	89	101	115
	Tap 2	64	81	96	113	132	145	159	179
	Tap 3	133	152	172	190	211	231	252	270
	Tap 4	253	278	307	325	348	374	397	415

AT "NORM" SETTING ("Adjust" Jumper at NORM Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	30	43	54	62	73	84	97	109
	Tap 2	52	71	87	99	117	128	145	157
	Tap 3	100	118	138	161	179	193	204	228
	Tap 4	167	185	206	230	256	280	295	316
First Stage"COOL"Speed	Tap 1	23	29	42	48	60	75	88	93
	Tap 2	31	39	54	62	76	86	96	105
	Tap 3	46	56	70	84	93	107	115	133
	Tap 4	72	87	105	121	141	158	175	188
Second Stage"COOL"Speed	Tap 1	30	43	54	62	73	84	97	109
	Tap 2	52	71	87	99	117	128	145	157
	Tap 3	100	118	138	161	179	193	204	228
	Tap 4	167	185	206	230	256	280	295	316

HCG30V1P BLOWER PERFORMANCE 0 through 0.80 in. w.g. External Static Pressure Range												
"ADJUST" Jumper Setting	Jumper Speed Positions											
	"HEAT" Speed (W)				First Stage "COOL" Speed (Y1)				Second Stage "COOL" Speed (Y1 + Y2)			
	1	2	3	4	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	680	885	1115	1340	490	635	770	930	680	885	1115	1340
NORM	620	810	1020	1220	440	575	715	845	620	810	1020	1220
–	550	725	905	1100	411	530	645	755	550	725	905	1100

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
First stage cooling air volume is 70% of COOL speed setting. Continuous blower speed is approximately 50% of COOL speed setting.

HCG30V1P BLOWER MOTOR WATTS									
AT "+" (Plus) SETTING ("Adjust" Jumper at "+" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	64	81	108	136	153	201	210	246
	Tap 2	120	136	162	182	198	221	246	286
	Tap 3	210	231	259	280	303	323	348	376
	Tap 4	367	392	420	452	486	506	510	520
First Stage"COOL"Speed	Tap 1	32	52	70	88	96	120	148	172
	Tap 2	50	72	91	115	143	177	200	215
	Tap 3	87	102	120	142	170	195	227	243
	Tap 4	128	151	176	196	213	239	259	294
Second Stage"COOL"Speed	Tap 1	64	81	108	136	153	201	210	246
	Tap 2	120	136	162	182	198	221	246	286
	Tap 3	210	231	259	280	303	323	348	376
	Tap 4	367	392	420	452	486	506	510	520

AT "–" (Minus) SETTING ("Adjust" Jumper at "–" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	55	70	94	118	148	171	198	209
	Tap 2	91	113	132	151	177	201	222	242
	Tap 3	167	187	209	230	252	279	304	331
	Tap 4	268	304	329	354	380	403	431	451
First Stage"COOL"Speed	Tap 1	30	47	64	73	95	113	121	133
	Tap 2	46	67	87	119	140	151	163	187
	Tap 3	75	91	113	138	164	196	228	267
	Tap 4	104	125	142	158	187	215	244	265
Second Stage"COOL"Speed	Tap 1	55	70	94	118	148	171	198	209
	Tap 2	91	113	132	151	177	201	222	242
	Tap 3	167	187	209	230	252	279	304	331
	Tap 4	268	304	329	354	380	403	431	451

AT "–" (Minus) SETTING ("Adjust" Jumper at "–" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	47	59	78	108	126	150	158	189
	Tap 2	72	89	111	130	157	193	214	241
	Tap 3	128	144	162	180	200	216	254	284
	Tap 4	194	223	247	268	292	317	347	368
First Stage"COOL"Speed	Tap 1	30	42	56	68	86	104	119	132
	Tap 2	45	57	84	97	113	132	157	181
	Tap 3	67	75	99	129	161	184	208	247
	Tap 4	85	101	120	138	163	197	234	253
Second Stage"COOL"Speed	Tap 1	47	59	78	108	126	150	158	189
	Tap 2	72	89	111	130	157	193	214	241
	Tap 3	128	144	162	180	200	216	254	284
	Tap 4	194	223	247	268	292	317	347	368

HCG36V1P PERFORMANCE 0 through 0.80 in. w.g. External Static Pressure Range												
"ADJUST" Jumper Setting	Jumper Speed Positions											
	"HEAT" Speed (W)				First Stage "COOL" Speed (Y1)				Second Stage "COOL" Speed (Y1 + Y2)			
	1	2	3	4	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	930	1155	1390	1530	640	815	970	1150	930	1155	1390	1530
NORM	830	1050	1260	1450	590	725	875	1025	830	1050	1260	1450
–	740	940	1135	1330	545	650	780	910	740	940	1135	1330

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
First stage cooling air volume is 70% of COOL speed setting. Continuous blower speed is approximately 50% of COOL speed setting.

HCG36V1P BLOWER MOTOR WATTS									
AT "+" (Plus) SETTING ("Adjust" Jumper at "+" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	111	132	152	193	226	246	271	282
	Tap 2	188	215	242	271	295	327	391	412
	Tap 3	298	325	361	395	433	474	491	515
	Tap 4	464	503	516	537	526	527	529	522
First Stage"COOL"Speed	Tap 1	53	78	98	112	135	151	173	192
	Tap 2	78	101	118	149	173	191	217	237
	Tap 3	115	136	162	185	237	265	284	308
	Tap 4	166	196	228	252	284	303	364	399
Second Stage"COOL"Speed	Tap 1	111	132	152	193	226	246	271	282
	Tap 2	188	215	242	271	295	327	391	412
	Tap 3	298	325	361	395	433	474	491	515
	Tap 4	464	503	516	537	526	527	529	522

AT "NORM" SETTING ("Adjust" Jumper at NORM Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	79	102	128	170	189	210	225	254
	Tap 2	138	165	191	219	243	300	328	347
	Tap 3	225	249	287	315	351	377	407	429
	Tap 4	342	384	425	456	510	531	533	525
First Stage"COOL"Speed	Tap 1	41	69	80	100	115	141	159	176
	Tap 2	64	80	114	136	155	169	197	214
	Tap 3	241	219	202	155	145	116	94	85
	Tap 4	319	296	258	211	189	163	138	123
Second Stage"COOL"Speed	Tap 1	79	102	128	170	189	210	225	254
	Tap 2	138	165	191	219	243	300	328	347
	Tap 3	225	249	287	315	351	377	407	429
	Tap 4	342	384	425	456	510	531	533	525

AT "–" (Minus) SETTING ("Adjust" Jumper at "–" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	64	81	119	142	161	184	194	219
	Tap 2	111	131	151	174	221	255	268	293
	Tap 3	168	199	222	248	287	304	359	396
	Tap 4	249	293	331	340	386	410	443	475
First Stage"COOL"Speed	Tap 1	38	59	79	90	107	121	139	170
	Tap 2	49	73	105	112	131	151	162	184
	Tap 3	69	90	122	149	170	197	207	229
	Tap 4	105	130	147	172	219	242	262	278
Second Stage"COOL"Speed	Tap 1	64	81	119	142	161	184	194	219
	Tap 2	111	131	151	174	221	255	268	293
	Tap 3	168	199	222	248	287	304	359	396
	Tap 4	249	293	331	340	386	410	443	475

HCG42V1P BLOWER PERFORMANCE 0 through 0.80 in. w.g. External Static Pressure Range												
"ADJUST" Jumper Setting	Jumper Speed Positions											
	"HEAT" Speed (W)				First Stage "COOL" Speed (Y1)				Second Stage "COOL" Speed (Y1 + Y2)			
	1	2	3	4	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1130	945	1575	1810	780	945	1110	1275	1130	1370	1575	1810
NORM	1020	1255	1440	1650	710	860	1000	1160	1020	1255	1440	1650
–	920	1135	1300	1490	670	780	910	1040	920	1135	1300	1490

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
First stage cooling air volume is 70% of COOL speed setting. Continuous blower speed is approximately 50% of COOL speed setting.

HCG42V1P BLOWER MOTOR WATTS									
AT "+" (Plus) SETTING ("Adjust" Jumper at "+" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	148	175	198	227	258	275	312	364
	Tap 2	239	268	295	323	351	375	409	437
	Tap 3	338	375	411	437	470	507	537	563
	Tap 4	504	531	578	614	657	687	716	763
First Stage"COOL"Speed	Tap 1	67	91	115	143	165	185	202	223
	Tap 2	101	127	145	175	213	241	251	277
	Tap 3	140	164	196	215	250	265	299	345
	Tap 4	190	229	245	285	303	324	363	398
Second Stage"COOL"Speed	Tap 1	148	175	198	227	258	275	312	364
	Tap 2	239	268	295	323	351	375	409	437
	Tap 3	338	375	411	437	470	507	537	563
	Tap 4	504	531	578	614	657	687	716	763

AT "NORM" SETTING ("Adjust" Jumper at NORM Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	116	146	168	196	221	250	286	305
	Tap 2	188	215	243	266	295	319	348	383
	Tap 3	270	300	327	353	384	417	450	474
	Tap 4	375	416	459	500	517	556	588	618
First Stage"COOL"Speed	Tap 1	57	78	107	134	151	171	192	225
	Tap 2	85	111	135	158	197	213	226	246
	Tap 3	118	138	163	186	219	254	291	305
	Tap 4	170	198	217	247	267	295	328	380
Second Stage"COOL"Speed	Tap 1	116	146	168	196	221	250	286	305
	Tap 2	188	215	243	266	295	319	348	383
	Tap 3	270	300	327	353	384	417	450	474
	Tap 4	375	416	459	500	517	556	588	618

AT "–" (Minus) SETTING ("Adjust" Jumper at "–" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	96	119	138	162	191	227	247	266
	Tap 2	153	171	200	226	249	286	303	348
	Tap 3	204	237	259	286	319	336	371	401
	Tap 4	282	312	353	384	417	441	468	503
First Stage"COOL"Speed	Tap 1	56	74	98	121	131	169	178	200
	Tap 2	79	93	115	140	165	188	199	218
	Tap 3	98	117	138	170	196	228	250	260
	Tap 4	126	148	175	194	222	254	300	322
Second Stage"COOL"Speed	Tap 1	96	119	138	162	191	227	247	266
	Tap 2	153	171	200	226	249	286	303	348
	Tap 3	204	237	259	286	319	336	371	401
	Tap 4	282	312	353	384	417	441	468	503

HCG48V1P BLOWER PERFORMANCE 0 through 0.80 in. w.g. External Static Pressure Range												
"ADJUST" Jumper Setting	Jumper Speed Positions											
	"HEAT" Speed (W)				First Stage "COOL" Speed (Y1)				Second Stage "COOL" Speed (Y1 + Y2)			
	1	2	3	4	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1375	1600	1820	2185	960	1125	1285	1620	1375	1600	1820	2185
NORM	1260	1455	1655	2085	885	1035	1185	1475	1260	1455	1655	2085
–	1125	1310	1490	1885	790	925	1060	1330	1125	1310	1490	1885

NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
First stage cooling air volume is 70% of COOL speed setting. Continuous blower speed is approximately 50% of COOL speed setting.

HCG48V1P BLOWER MOTOR WATTS									
AT "+" (Plus) SETTING ("Adjust" Jumper at "+" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	221	244	277	308	345	372	406	449
	Tap 2	325	363	403	448	478	517	549	578
	Tap 3	465	502	550	592	637	671	711	755
	Tap 4	922	985	1000	1006	996	991	996	989
First Stage"COOL"Speed	Tap 1	94	129	152	179	206	247	265	288
	Tap 2	135	168	190	220	247	275	313	367
	Tap 3	176	213	241	270	292	344	366	405
	Tap 4	330	368	405	439	478	515	542	576
Second Stage"COOL"Speed	Tap 1	221	244	277	308	345	372	406	449
	Tap 2	325	363	403	448	478	517	549	578
	Tap 3	465	502	550	592	637	671	711	755
	Tap 4	922	985	1000	1006	996	991	996	989

AT "NORM" SETTING ("Adjust" Jumper at NORM Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	180	208	240	275	296	333	362	410
	Tap 2	252	287	311	346	380	407	456	484
	Tap 3	347	392	434	457	507	534	579	615
	Tap 4	696	749	797	841	881	927	972	999
First Stage"COOL"Speed	Tap 1	77	102	128	153	185	210	231	247
	Tap 2	111	133	164	188	219	251	279	304
	Tap 3	144	175	206	233	262	285	325	352
	Tap 4	251	283	317	364	382	419	447	482
Second Stage"COOL"Speed	Tap 1	180	208	240	275	296	333	362	410
	Tap 2	252	287	311	346	380	407	456	484
	Tap 3	347	392	434	457	507	534	579	615
	Tap 4	696	749	797	841	881	927	972	999

AT "–" (Minus) SETTING ("Adjust" Jumper at "–" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	133	164	192	221	253	280	318	352
	Tap 2	203	224	270	291	317	371	403	430
	Tap 3	273	309	343	376	413	441	471	522
	Tap 4	518	573	610	667	694	732	776	821
First Stage"COOL"Speed	Tap 1	61	87	116	141	168	186	204	222
	Tap 2	85	109	135	166	197	222	249	270
	Tap 3	115	142	168	199	220	253	287	330
	Tap 4	194	227	253	288	320	359	388	415
Second Stage"COOL"Speed	Tap 1	133	164	192	221	253	280	318	352
	Tap 2	203	224	270	291	317	371	403	430
	Tap 3	273	309	343	376	413	441	471	522
	Tap 4	518	573	610	667	694	732	776	821

HCG60V1P BLOWER PERFORMANCE 0 through 0.80 in. w.g. External Static Pressure Range												
"ADJUST" Jumper Setting	Jumper Speed Positions											
	"HEAT" Speed (W)				First Stage "COOL" Speed (Y1)				Second Stage "COOL" Speed (Y1 + Y2)			
	1	2	3	4	1	2	3	4	1	2	3	4
	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
+	1600	1835	2030	2190	1110	1285	1380	1615	1600	1835	2030	2190
NORM	1465	1675	1855	2085	1000	1160	1250	1470	1465	1675	1855	2085
–	1320	1500	1675	1890	895	1035	1115	1320	1320	1500	1675	1890

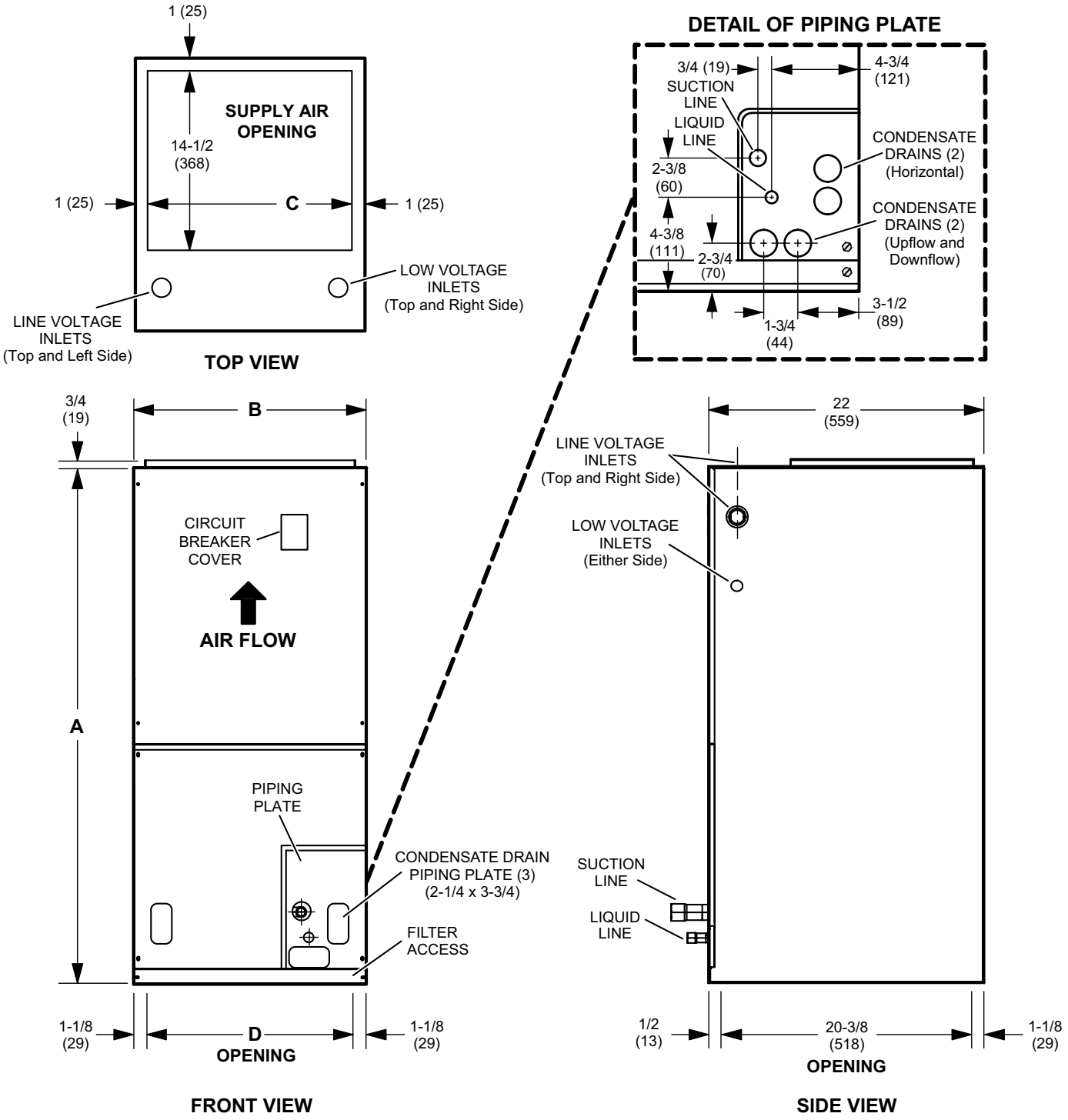
NOTES - The effect of static pressure, filter and electric heater resistance is included in the air volumes listed.
First stage cooling air volume is 70% of COOL speed setting. Continuous blower speed is approximately 50% of COOL speed setting.

HCG60V1P BLOWER MOTOR WATTS									
AT "+" (Plus) SETTING ("Adjust" Jumper at "+" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	330	360	403	444	488	521	563	600
	Tap 2	469	505	564	616	649	685	735	776
	Tap 3	631	671	734	782	832	894	931	974
	Tap 4	903	957	1016	1015	1013	1002	1002	998
First Stage"COOL"Speed	Tap 1	146	166	194	223	267	300	340	379
	Tap 2	195	221	252	278	319	358	383	427
	Tap 3	225	260	286	319	357	399	427	466
	Tap 4	339	382	417	447	494	532	567	611
Second Stage"COOL"Speed	Tap 1	330	360	403	444	488	521	563	600
	Tap 2	469	505	564	616	649	685	735	776
	Tap 3	631	671	734	782	832	894	931	974
	Tap 4	903	957	1016	1015	1013	1002	1002	998

AT "NORM" SETTING ("Adjust" Jumper at NORM Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	251	288	320	355	391	440	463	514
	Tap 2	348	397	433	482	515	565	607	650
	Tap 3	472	524	578	614	664	704	749	810
	Tap 4	696	740	792	856	886	939	984	983
First Stage"COOL"Speed	Tap 1	110	105	164	196	233	263	297	320
	Tap 2	152	182	205	244	271	300	347	387
	Tap 3	177	205	238	271	311	341	375	424
	Tap 4	254	298	331	367	408	444	473	527
Second Stage"COOL"Speed	Tap 1	251	288	320	355	391	440	463	514
	Tap 2	348	397	433	482	515	565	607	650
	Tap 3	472	524	578	614	664	704	749	810
	Tap 4	696	740	792	856	886	939	984	983

AT "–" (Minus) SETTING ("Adjust" Jumper at "–" Setting)									
Jumper Speed Positions	Motor Watts @ Various External Static Pressures - in. wg.								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
"HEAT"Speed	Tap 1	189	228	263	294	328	358	403	430
	Tap 2	268	304	343	380	427	461	483	549
	Tap 3	355	401	431	487	523	569	611	642
	Tap 4	506	549	607	646	689	720	775	834
First Stage"COOL"Speed	Tap 1	88	119	139	173	198	244	260	275
	Tap 2	117	145	169	200	225	272	309	338
	Tap 3	130	161	187	217	253	286	325	368
	Tap 4	192	237	265	295	324	364	405	440
Second Stage"COOL"Speed	Tap 1	189	228	263	294	328	358	403	430
	Tap 2	268	304	343	380	427	461	483	549
	Tap 3	355	401	431	487	523	569	611	642
	Tap 4	506	549	607	646	689	720	775	834

DIMENSIONS (IN.)



Dimensions	024		030		036 / 042		048		060	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
A	45-1/2	1156	47	1194	53-5/8	1362	55	1397	59-3/4	1518
B	18-1/2	470	18-1/2	470	21-1/2	546	21-1/2	546	21-1/2	546
C	16-1/2	419	16-1/2	419	19-1/2	495	19-1/2	495	19-1/2	495
D	16-1/4	413	16-1/4	413	19-1/4	489	19-1/4	489	19-1/4	489

All specifications and illustrations subject to change without notice and without incurring obligations.

HCG**V1P

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.

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