

CONTROL SHEET

ClimateMaster
A COMBINATION OF CHP CORP. AND
FRIEDRICH™ CLIMATE MASTER, INC.

HORIZONTAL WATER SOURCE HEAT PUMPS

2/87

CONTROL NUMBER	DATE	MODEL	DESCRIPTION
WARRANTY	2/86	814	WARRANTY
DESIGN GUIDE	CM-814DG-1086	814	DESIGN GUIDE
814-009	86-12-814	814	SUBMITTAL
814-011	86-12-814	814	SUBMITTAL
814-013	86-12-814	814	SUBMITTAL
814-019	86-12-814	814	SUBMITTAL
814-023	86-12-814	814	SUBMITTAL
814-027	86-12-814	814	SUBMITTAL
814-031	86-12-814	814	SUBMITTAL
814-036	86-12-814	814	SUBMITTAL
814-042	86-12-814	814	SUBMITTAL
814-048	86-12-814	814	SUBMITTAL
814-060	86-12-814	814	SUBMITTAL
814-096	86-12-814	814	SUBMITTAL
814-120	86-12-814	814	SUBMITTAL
IOM	11/86	814	IOM FOR HORZ. & VERT.

814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 009



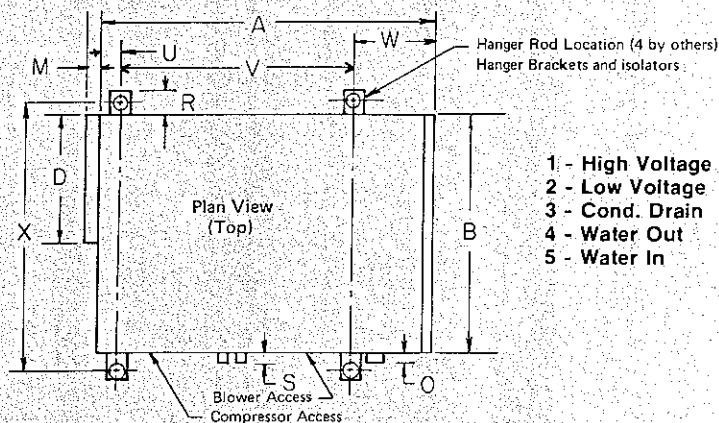
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FRIEDHOFF CLIMATE MASTER INC.

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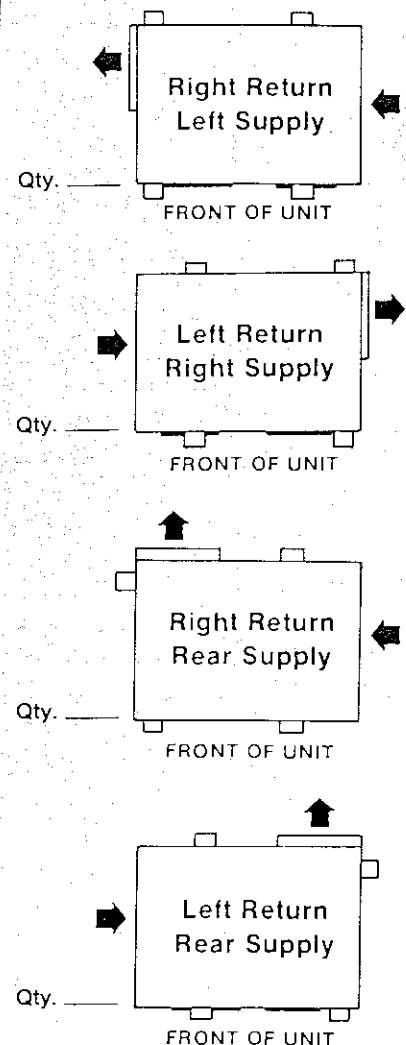
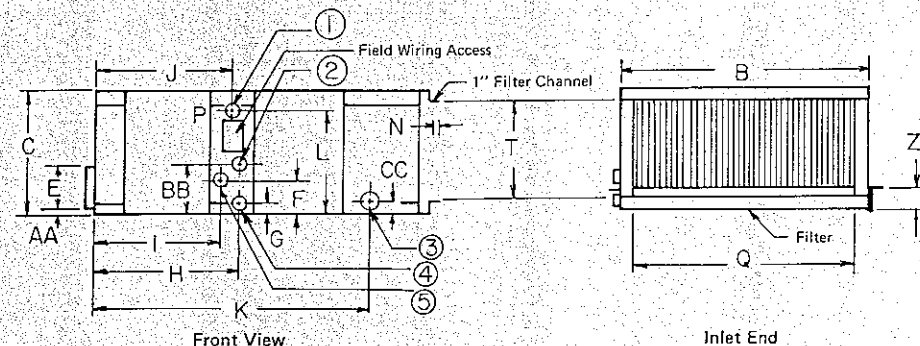
JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										
ELECTRICAL DATA		BLOWER		COMPRESSOR		MIN CKT AMPACITY		MAX. FUSE OR HACR SIZE		
VOLTAGE	PHASE	FLA	RLA	LRA						
208/230	1	0.6	3.9	20.0		5.5		15		
265	1	0.4	3.0	16.0		4.2		15		
BLOWER PERFORMANCE						INSTALLED WEIGHT				
EXT. STATIC PRES. I.W.G.						lbs.				
CFM						kg.				

DIMENSIONS

AIR FLOW PATTERNS



- 1 - High Voltage $\frac{7}{8}$ " Dia.
- 2 - Low Voltage $\frac{7}{8}$ " Dia.
- 3 - Cond. Drain $\frac{3}{4}$ " FPT
- 4 - Water Out $\frac{1}{2}$ " FPT
- 5 - Water In $\frac{1}{2}$ " FPT



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	31 1/2	22	10 1/2	12	4 1/2	2 1/2	1 1/2	13 13/16	12 7/16	13 1/2	26 1/4	9 3/4	3 1/2	1 1/2	1 1/2	2 1/2	19 1/2	1 1/2	1 1/2
CM.	80,01	55,88	27,62	30,48	10,48	6,67	2,22	35,08	31,59	33,33	66,68	25,08	1,91	1,27	1,59	2,22	4,58	4,45	1,27

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	1	2	3	4	5
IN.	9 1/2	1 1/4	22 37/64	7 11/64	24	2	1/2	4 1/4	1					1/2	3/4	3/4	1/2	1/2
CM.	23,17	4,45	57,39	18,22	60,96		5,08	1,27	10,80	2,54				2,22	2,22	1,9	1,27	1,27

FILTER SIZE 10"x22"x1" SHIPPING WGT. 130 lbs.
25,4x55,88x2,54cm. 58 kg.

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814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 011



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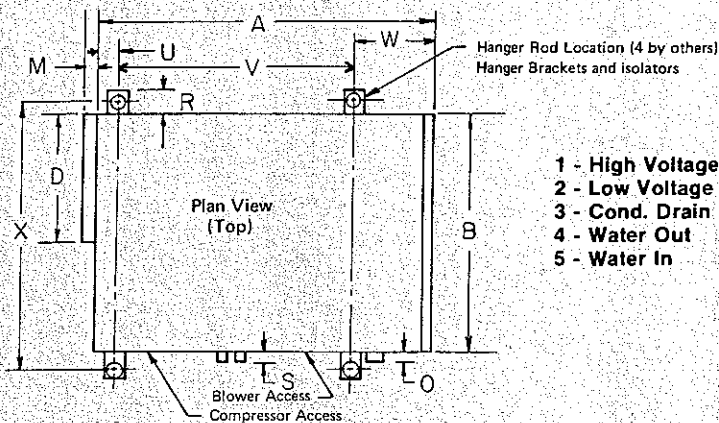
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										

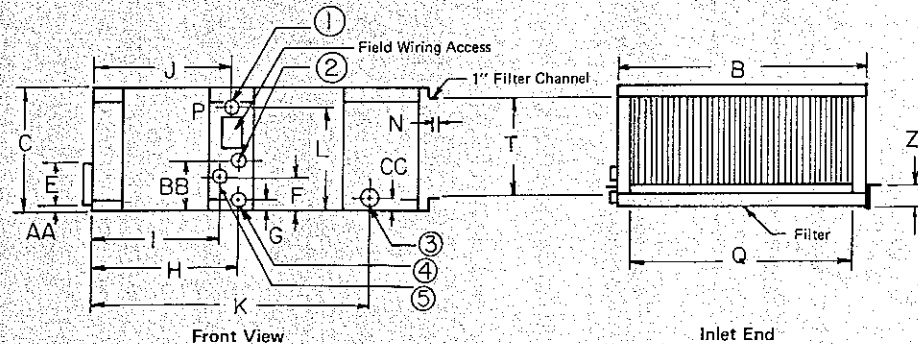
ELECTRICAL DATA		BLOWER	COMPRESSOR		MIN CKT AMPACITY	MAX. FUSE OR HACR SIZE
VOLTAGE	PHASE	FLA	RLA	LRA		
208/230	1	0.7	4.8	31.0	6.7	15
265	1	0.6	3.8	22.9	5.3	15

BLOWER PERFORMANCE			INSTALLED WEIGHT		
EXT. STATIC PRES. I.W.G.			lbs.		
CFM			kg.		

DIMENSIONS



- 1 - High Voltage $\frac{7}{8}$ " Dia.
- 2 - Low Voltage $\frac{7}{8}$ " Dia.
- 3 - Cond. Drain $\frac{3}{4}$ " FPT
- 4 - Water Out $\frac{1}{2}$ " FPT
- 5 - Water In $\frac{1}{2}$ " FPT

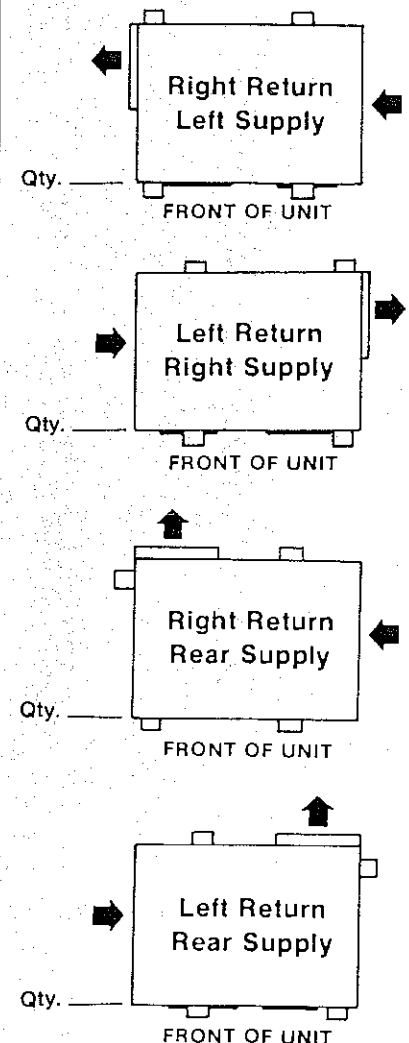


SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	31 1/2	22	10 1/2	12	4 1/2	2 1/2	7 1/2	13 1/2	12 7/16	13 1/2	26 1/4	9 1/2	3 1/2	1 1/2	1 1/2	1 1/2	19 1/2	1 1/2	1 1/2
CM.	80.01	55.88	27.62	30.48	10.48	6.67	2.22	35.08	31.59	33.33	66.68	25.08	1.91	1.27	1.59	2.22	4.58	4.45	1.27

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	1	2	3	4	5
IN.	9 1/2	1 1/2	22 7/8	7 1/2	24		2	1 1/2	4 1/2	1				7/8	7/8	3/4	1/2	1/2
CM.	23.17	4.45	57.39	18.22	60.96		5.08	1.27	10.80	2.54				2.22	2.22	1.9	1.27	1.27

FILTER SIZE	10"x22"x1"
	25,4x55,88x2,54 cm.
SHIPPING WGT.	135 lbs.
	61 kg.

AIR FLOW PATTERNS



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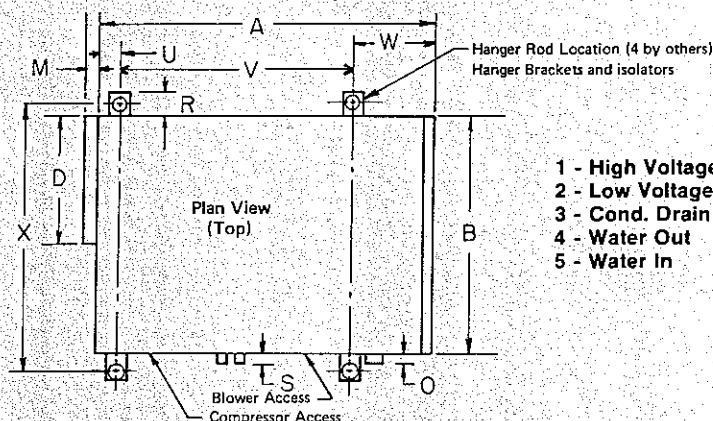
814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 013



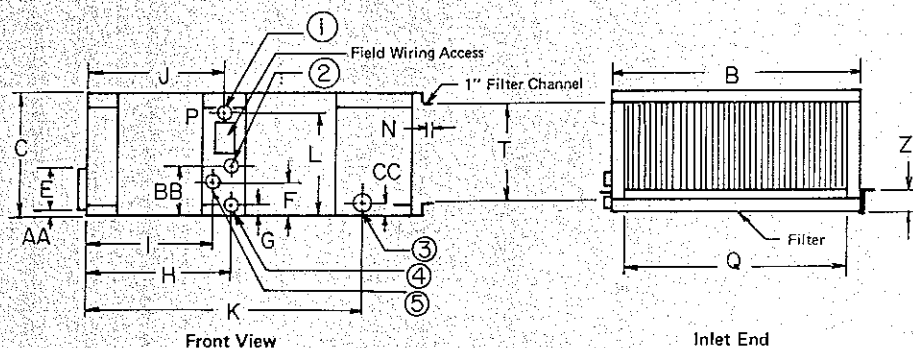
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										
ELECTRICAL DATA			BLOWER		COMPRESSOR		MIN CKT AMPACITY		MAX, FUSE OR HACR SIZE	
VOLTAGE	PHASE		FLA	RLA	LRA					
208/230	1		0.7	5.8	31.0		8.0		15	
265	1		0.6	4.7	27.0		6.5		15	
BLOWER PERFORMANCE						INSTALLED WEIGHT				
EXT. STATIC PRES. I.W.G.						lbs.				
CFM						kg.				

DIMENSIONS



- 1 - High Voltage $\frac{7}{8}$ " Dia.
- 2 - Low Voltage $\frac{7}{8}$ " Dia.
- 3 - Cond. Drain $\frac{3}{4}$ " FPT
- 4 - Water Out $\frac{1}{2}$ " FPT
- 5 - Water In $\frac{1}{2}$ " FPT

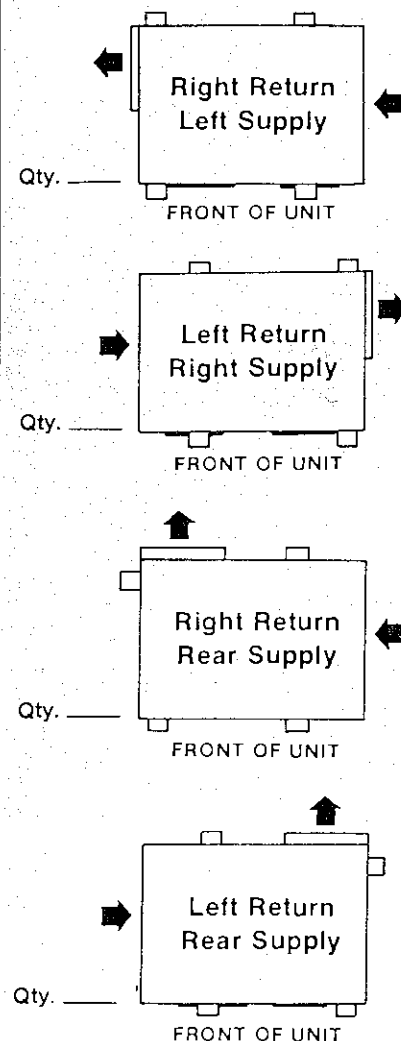


SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	31 1/2	22	10 1/2	12	4 1/2	2 1/2	3/4	13 13/16	12 7/16	13 1/2	26 1/4	9 1/2	3/4	1/2	3/4	1 1/2	1 1/2	1 1/2	1/2
CM.	80.01	55.88	27.62	30.48	10.48	6.67	2.22	35.08	31.59	33.33	66.68	25.08	1.91	1.27	1.59	2.22	4.58	4.45	1.27

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	1	2	3	4	5
IN.	9 1/2	1 1/4	22 37/64	7 11/64	24		2	1/2	4 1/4	1				3/4	1/4	3/4	1/2	1/2
CM.	23.17	4.45	57.39	18.22	60.96		5.08	1.27	10.80	2.54				2.22	2.22	1.9	1.27	1.27

FILTER SIZE		10"x22"x1"	SHIPPING WGT.		140 lbs.
		25,4x55,88x2,54 cm.			63 kg.

AIR FLOW PATTERNS



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814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 019

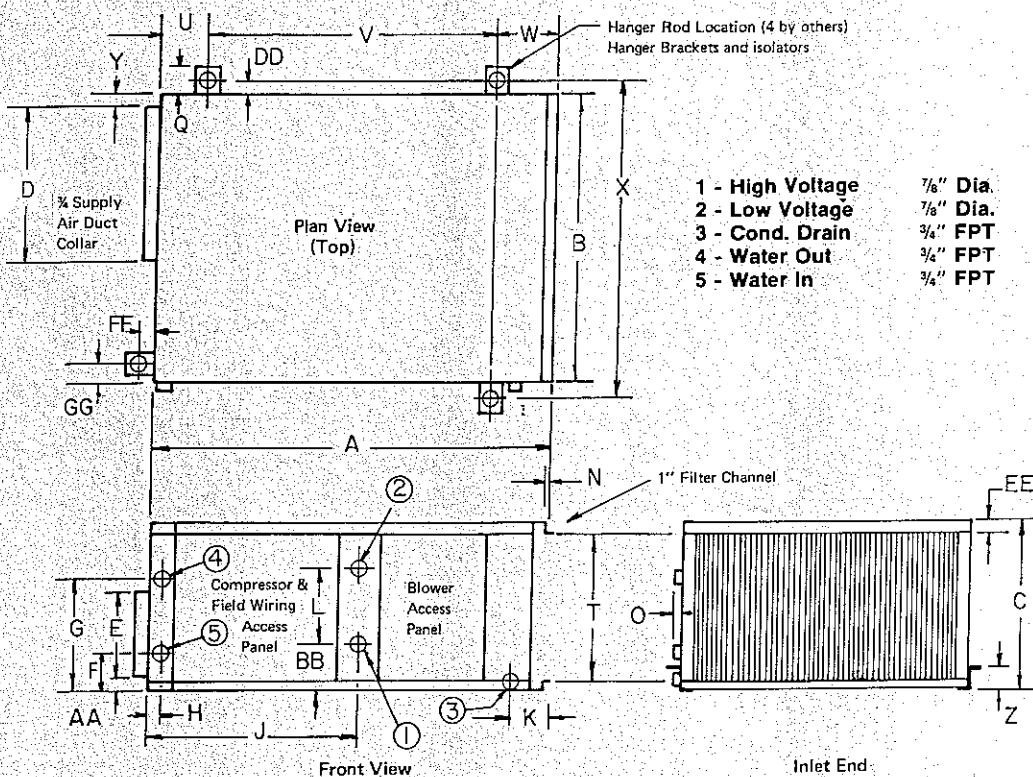


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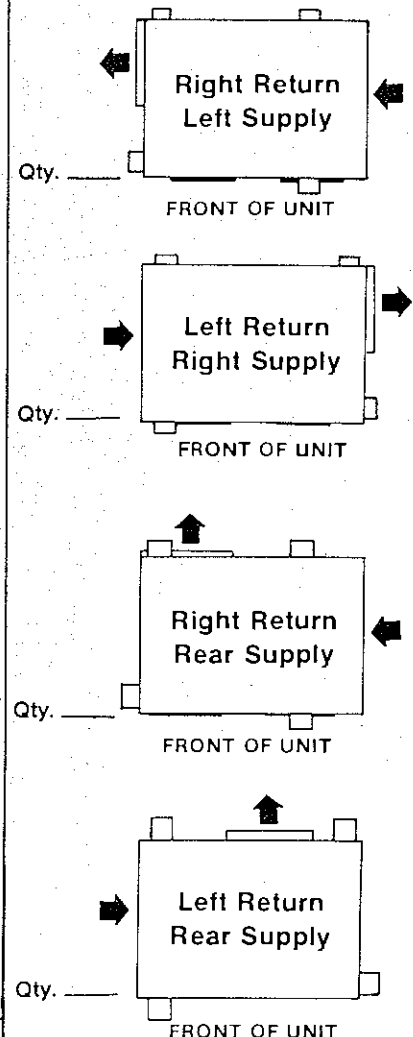
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										
ELECTRICAL DATA			BLOWER		COMPRESSOR		MIN CKT AMPACITY		MAX. FUSE OR HACR SIZE	
VOLTAGE	PHASE		FLA	RLA	LRA					
208/230	1		0.9	8.5	43.3		11.5		20	
265	1		0.7	7.1	36.0		9.6		15	
BLOWER PERFORMANCE						INSTALLED WEIGHT				
EXT. STATIC PRES. I.W.G.						lbs.				
CFM						kg.				

DIMENSIONS



AIR FLOW PATTERNS



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	41	25	16	12 1/4	9 1/4	4	7 1/2	1		19	7	7 1/2		9 1/8	3 1/2	3 1/2	1 1/4		
CM.	104,14	63,50	40,64	31,75	24,77	10,16	19,05	2,54		48,26	17,78	19,05		1,43	1,59	2,22	4,45		

SZ.	T	U	V	W	X	Y	Z	AA	BB	DD	EE	FF	GG		1	2	3	4	5
IN.	14	1 1/4	3 1/4	7 1/4	27	3 1/4	2	1	4 1/4	1	1	1	1 1/4		3/8	3/8	3/8	3/8	3/8
CM.	35,56	3,50	80,65	20	68,58	1,91	5,8	2,54	10,80	2,54	2,54	2,54	3,81		2,22	2,22	1,91	1,91	1,91

FILTER SIZE	16"x25"x1"										205 lbs.									
	40,64x63,5x2,54 cm.										92 kg.									

814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 023

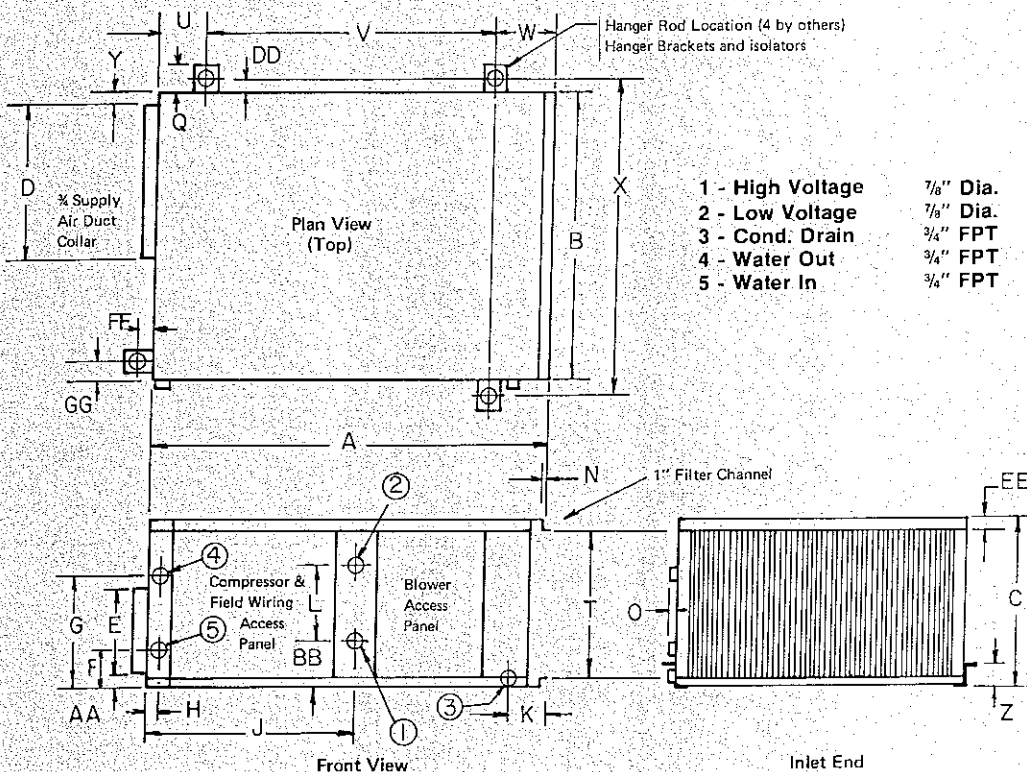


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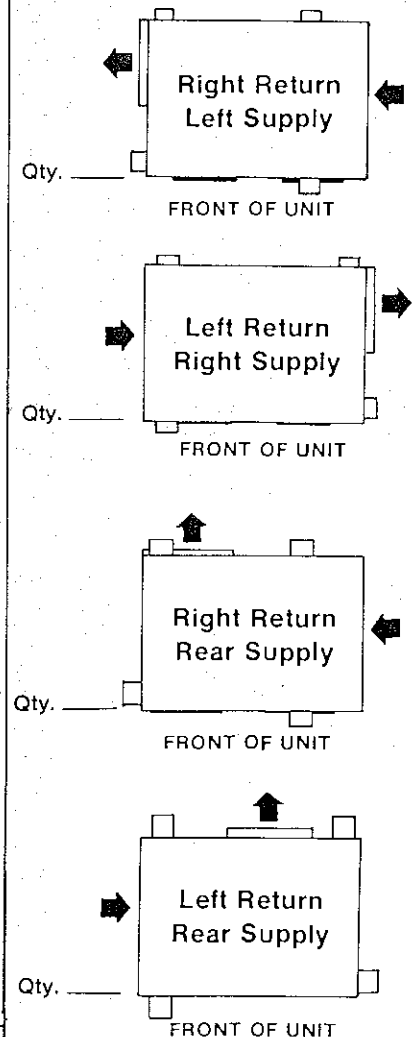
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWI	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										
ELECTRICAL DATA			BLOWER		COMPRESSOR		MIN CKT AMPACITY		MAX. FUSE OR HACR SIZE	
VOLTAGE	PHASE		FLA	RLA	LRA					
208/230	1		1.6	10.6	48.0		14.9		25	
265	1		0.9	9.3	37.0		12.6		20	
BLOWER PERFORMANCE						INSTALLED WEIGHT				
EXT. STATIC PRES. I.W.G.						lbs.				
CFM						kg.				

DIMENSIONS



AIR FLOW PATTERNS



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	41	25	16	12 1/2	9 3/4	4	7 1/2	1		19	7	7 1/2		9 1/8	5	3/4	1 1/4		
CM.	104,14	63,50	40,64	31,75	24,77	10,16	19,05	2,54		48,26	17,78	19,05		1,43	1,59	2,22	4,45		

SZ.	T	U	V	W	X	Y	Z	AA	BB	DD	EE	FF	GG	1	2	3	4	5
IN.	14	1 1/2	31 3/4	7 1/2	27	3/4	2	1	4 1/4	1	1	1	1 1/2	3/4	3/4	3/4	3/4	3/4
CM.	35,56	3,50	80,65	20	68,58	1,91	5,8	2,54	10,80	2,54	2,54	2,54	3,81	2,22	2,22	1,91	1,91	1,91

FILTER SIZE **16"x25"x1"**
40,64x63,5x2,54 cm. SHIPPING WGT. **220 lbs.**
99

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814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 027

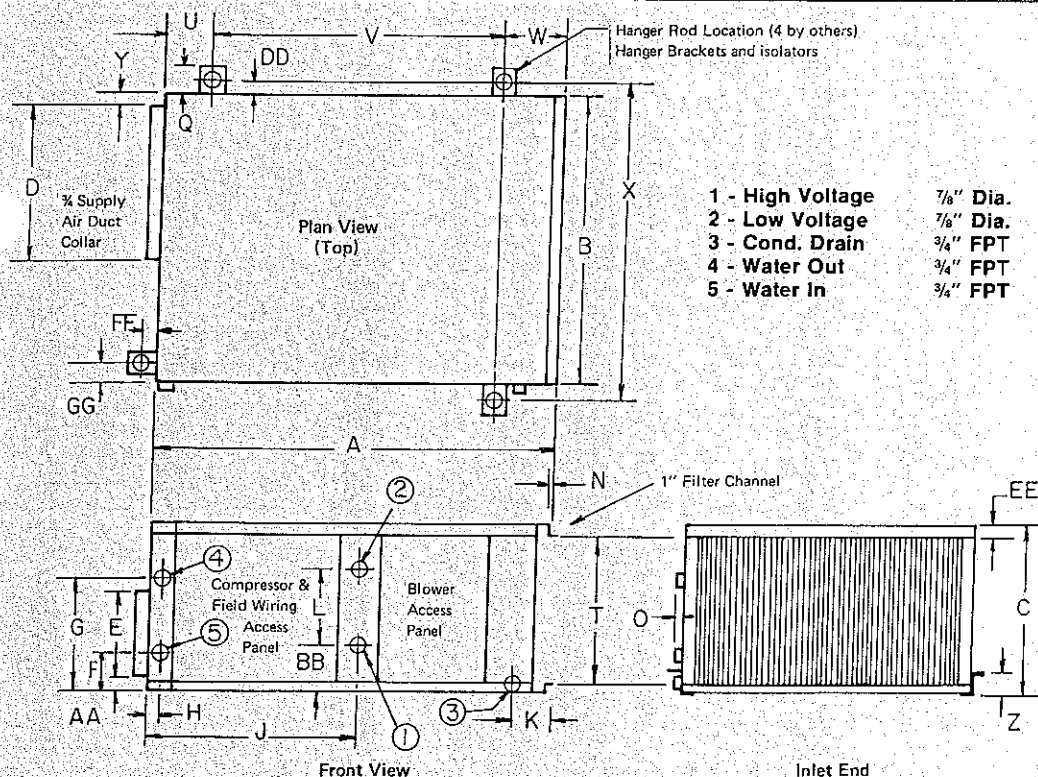


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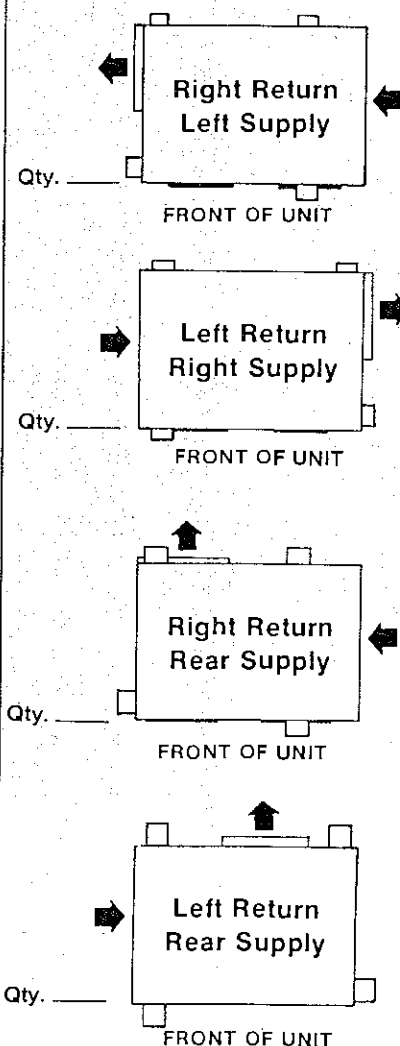
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										
ELECTRICAL DATA		BLOWER		COMPRESSOR		MIN CKT AMPACITY		MAX, FUSE OR HACR SIZE		
VOLTAGE	PHASE	FLA	FLA	RLA	LRA					
208/230	1	1.6		11.5	54.0	16.0		25		
265	1	1.0		10.3	45.0	13.9		20		
BLOWER PERFORMANCE						INSTALLED WEIGHT				
EXT. STATIC PRES. I.W.G.						lbs.				
CFM						kg.				

DIMENSIONS



AIR FLOW PATTERNS



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	41	25	16	12 1/2	9 1/2	4	7 1/2	1		19	7	7 1/2		1 1/2	1 1/2	1 1/2	1 1/2		
CM.	104,14	63,50	40,64	31,75	24,77	10,16	19,05	2,54		48,26	17,78	19,05		1,43	1,59	2,22	4,45		

SZ.	T	U	V	W	X	Y	Z	AA	BB	DD	EE	FF	GG	1	2	3	4	5
IN.	14	1 1/2	3 1/4	7 1/2	27	3 1/2	2	1	4 1/4	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
CM.	35,56	3,50	80,65	20	68,58	1,91	5,8	2,54	10,60	2,54	2,54	2,54	3,81	2,22	2,22	1,91	1,91	1,91

FILTER SIZE 16"x25"x1" 235 lbs.
40,64x63,5x2,54 cm. 106 kg.

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814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 031

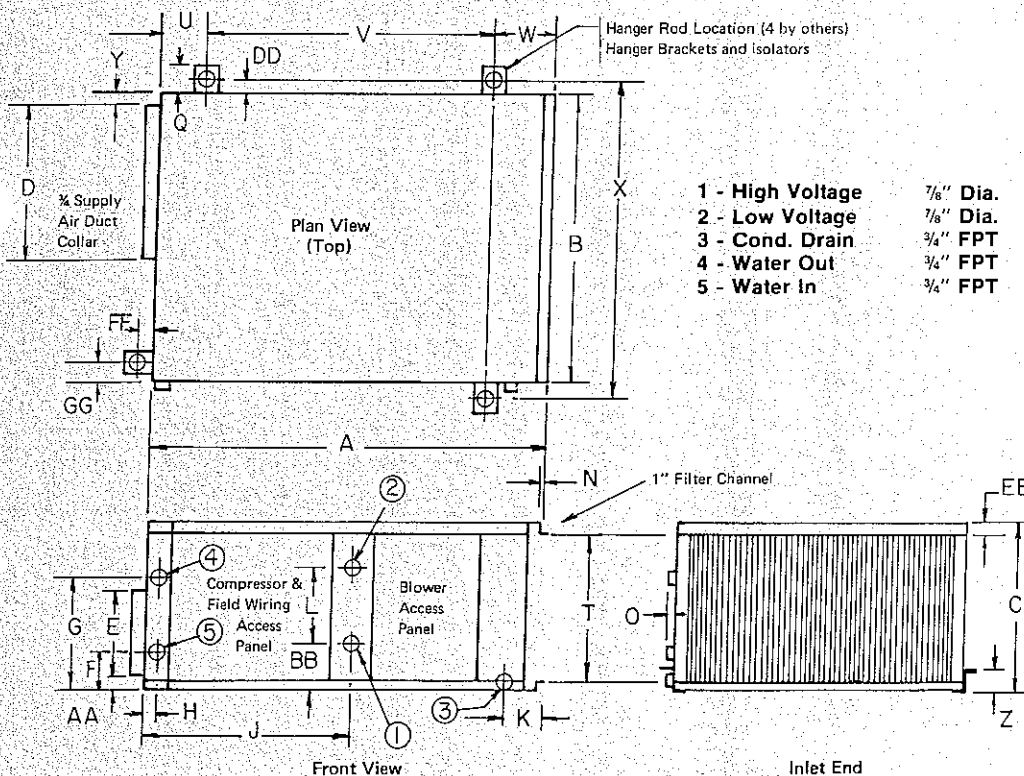


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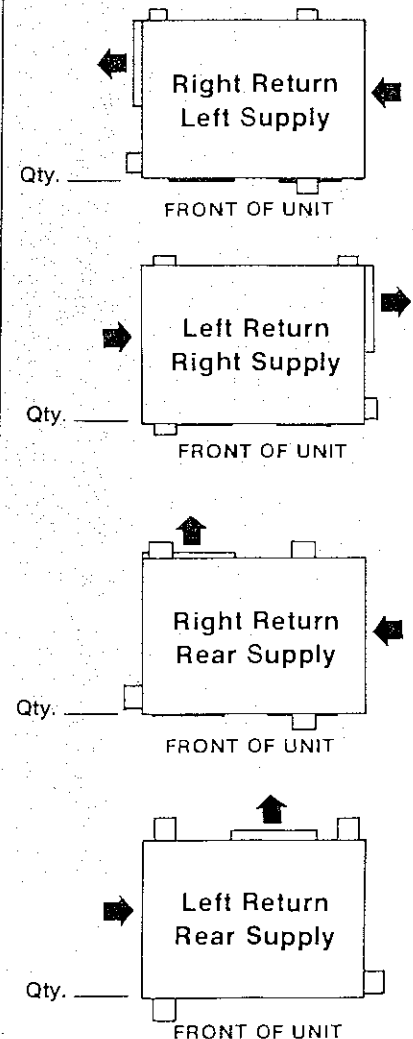
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										
ELECTRICAL DATA		BLOWER		COMPRESSOR		MIN CKT AMPACITY		MAX. FUSE OR HACR SIZE		
VOLTAGE	PHASE	FLA	RLA	LRA						
208/230	1	2.2	15.3	65.0		21.3		35		
265	1	1.8	13.9	55.0		19.2		30		
208/230	3	2.2	10.6	60.0		15.5		25		
460	3	1.1	4.5	28.0		6.8		10		
BLOWER PERFORMANCE						INSTALLED WEIGHT				
EXT. STATIC PRES. I.W.G.						lbs.				
CFM						kg.				

DIMENSIONS



AIR FLOW PATTERNS



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	41	25	16	12 1/2	9 3/4	4	7 1/2	1		19	7	7 1/2		8 1/16	3/8	3/8	1 1/4		
CM.	104,14	63,50	40,64	31,75	24,77	10,16	19,05	2,54		48,26	17,78	19,05		1,43	1,59	2,22	4,45		

SZ.	T	U	V	W	X	Y	Z	AA	BB	DD	EE	FF	GG		1	2	3	4	5
IN.	14	1 1/4	3 1/4	7 3/4	27	3/4	2	1	4 1/4	1	1	1	1 1/2		3/8	3/8	3/4	3/4	3/4
CM.	35,56	3,50	80,65	20	68,58	1,91	5,08	2,54	10,80	2,54	2,54	2,54	3,81		2,22	2,22	1,91	1,91	1,91

FILTER SIZE 16"x25"x1" SHIPPING WGT. 245 lbs.
40,6 x63,5x2,54 cm. 111 kg.

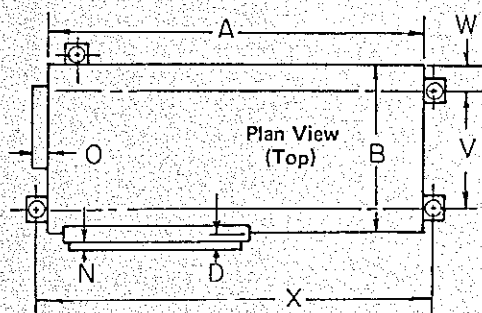
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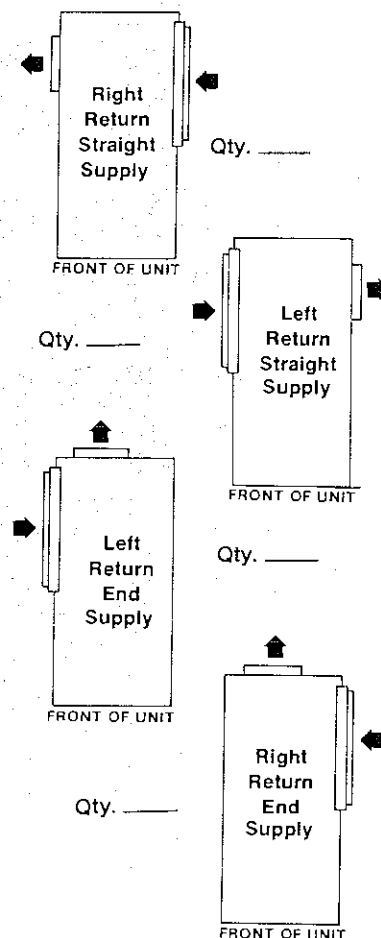
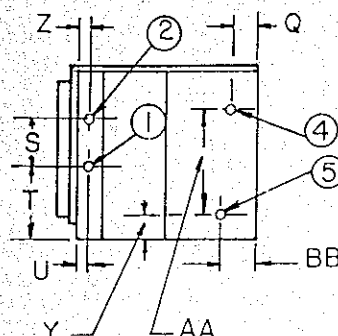
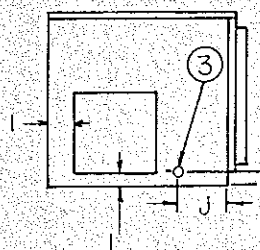
JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										
ELECTRICAL DATA		BLOWER		COMPRESSOR			MIN CKT AMPACITY		MAX, FUSE OR HACR SIZE	
VOLTAGE	PHASE	FLA	RLA	LRA						
208/230	1	3.2	15.5	78.0			22.6		35	
265	1	3.2	14.1	73.8			20.8		30	
208/230	3	3.2	10.6	59.5			16.5		25	
460	3	1.8	4.6	30.7			7.6		15	
BLOWER PERFORMANCE						INSTALLED WEIGHT				
EXT. STATIC PRES. I.W.G						lbs.				
CFM						kg.				

AIR FLOW PATTERNS



- | | |
|------------------|---------------------|
| 1 - High Voltage | 7/8" or 1 1/2" Dia. |
| 2 - Low Voltage | 1/2" Dia. |
| 3 - Cond. Drain | 3/4" FPT |
| 4 - Water Out | 3/4" FPT |
| 5 - Water In | 3/4" FPT |

NOTE: All side panels are removable.



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	47	20	21%	1%					4	5		2 ^{1/16}		¼	1		1 ^{5/16}		6
CM.	119.38	50.80	54.92	3.81					10.16	12.70		5.24		1.27	2.54		3.33		15.24

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF		1	2	3	4	5
IN.	7%	1	17%	1	49	3%	1%	12%	5 ^{15/16}						$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
CM.	19.69	2.54	45.08	2.54	124.46	8.26	3.81	32.70	15.08						2.22	1.27	1.90	1.90	1.90

FILTER SIZE	20"x25"x1"	SHIPPING WGT.	235 lbs.
	50,8x63,5x2,54 cm.		106 kg.

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814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 042



ClimateMaster
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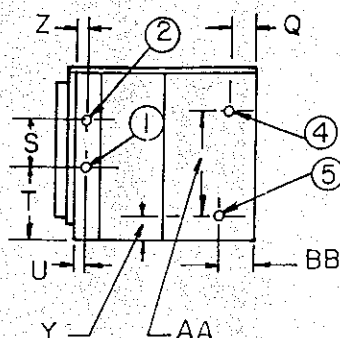
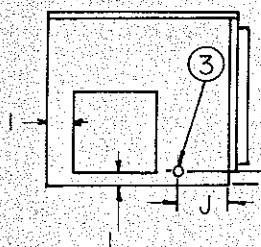
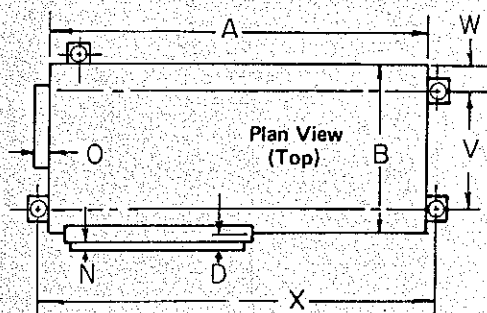
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										

ELECTRICAL DATA		BLOWER	COMPRESSOR		MIN CKT AMPACITY	MAX, FUSE OR HACR SIZE
VOLTAGE	PHASE	FLA	RLA	LRA		
208/230	1	3.2	17.6	88.0	25.2	40
208/230	3	3.2	11.5	65.1	17.6	25
460	3	1.8	5.1	32.8	8.2	15

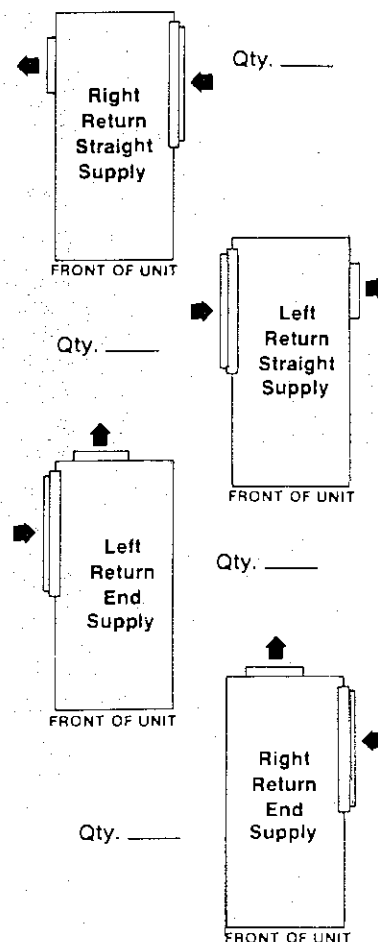
BLOWER PERFORMANCE			INSTALLED WEIGHT		
EXT. STATIC PRES. I.W.G.			lbs.		
CFM			kg.		

DIMENSIONS



- 1 - High Voltage $\frac{7}{8}$ " or $1\frac{1}{2}$ " Dia.
- 2 - Low Voltage $\frac{1}{2}$ " Dia.
- 3 - Cond. Drain $\frac{3}{4}$ " FPT
- 4 - Water Out $\frac{3}{4}$ " FPT
- 5 - Water In $\frac{3}{4}$ " FPT

AIR FLOW PATTERNS



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	47	20	21 1/2	1 1/2									20	1/2	1		2 1/4		6
CM.	119.38	50.80	54.92	3.81									50.80	1.27	2.54		5.72		15.24

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	1	2	3	4	5
IN.	7 1/4	1	17 1/4	1	49	2 1/16	1 1/2	3 3/4	14 1/2					3/4	1/2	3/4	3/4	3/4
CM.	19.69	2.54	45.08	2.54	124.46	6.51	3.81	9.53	36.83					2.22	1.27	1.90	1.90	1.90

FILTER SIZE	20"x25"x1"	SHIPPING WGT.	240 lbs.
	50,8x63,5x2,54 cm.		108,864 kg.

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ELECTRICAL DATA		BLOWER	COMPRESSOR		MIN CKT AMPACITY	MAX, FUSE OR HACR SIZE
VOLTAGE	PHASE	FLA	RLA	LRA		
208/230	1	5.4	21.5	95.4	32.3	50
208/230	3	5.4	13.8	82.0	22.7	35
460	3	2.2	6.9	41.0	10.9	15

BLOWER PERFORMANCE			INSTALLED WEIGHT	
EXT. STATIC PRES. I.W.G.			lbs.	
CFM			kg.	

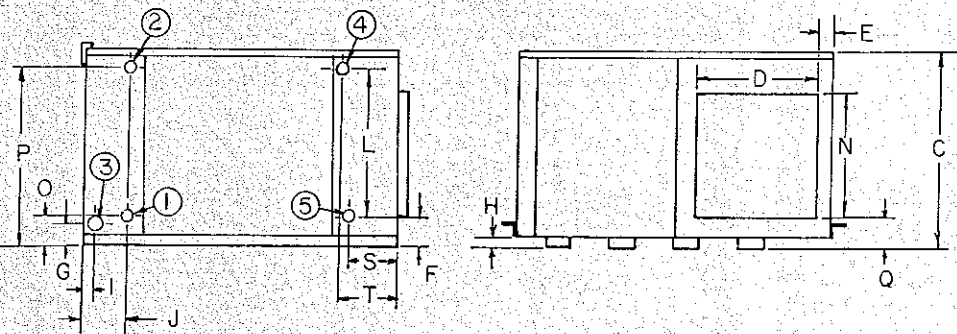
AIR FLOW PATTERNS



- | | |
|------------------|---------------------|
| 1 - High Voltage | 7/8" or 1 1/8" Dia. |
| 2 - Low Voltage | 1/2" Dia. |
| 3 - Cond. Drain | 3/4" FPT |
| 4 - Water Out | 1" FPT |
| 5 - Water In | 1" FPT |



Qty. _____



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	36%	36%	22%	15	1%	3%	3%	%	2%	6½	1	13%	1	15	2	18%	3%		4%
CM.	92,08	92,08	56,52	38,10	4,45	9,84	9,20	1,59	6,99	16,51	2,54	35,24	2,54	38,1	5,08	46,04	8,26		12,39

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF		1	2	3	4	5
IN.	3%	2%	34%	1	36 ^{1/16}										%-1%	%	%	1	1
CM.	8,57	6,35	8,68	2,54	91,59											1,27	1,91	2,54	2,54

FILTER SIZE	16"x20"x1" 40,64x50,8x2,54 cm.	SHIPPING WGT.	300 lbs. 136 k
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814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 060



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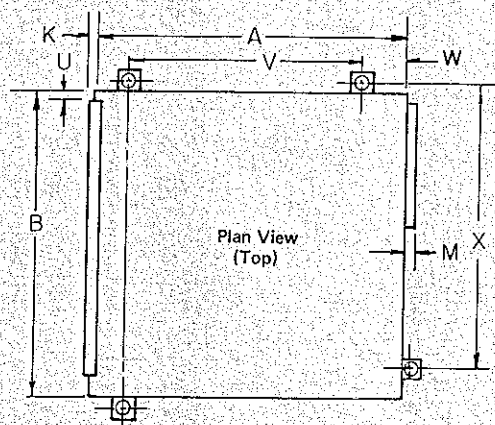
JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										

ELECTRICAL DATA		BLOWER	COMPRESSOR		MIN CKT AMPACITY	MAX. FUSE OR HACR SIZE
VOLTAGE	PHASE	FLA	RLA	LRA		
208/230	1	5.8	27.6	125.0	40.3	60
208/230	3	5.8	16.1	90.0	26.0	40
460	3	2.6	7.7	45.0	12.3	20

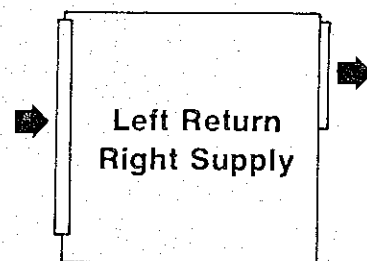
BLOWER PERFORMANCE			INSTALLED WEIGHT		
EXT. STATIC PRES. I.W.G.			lbs.		
CFM			kg.		

DIMENSIONS

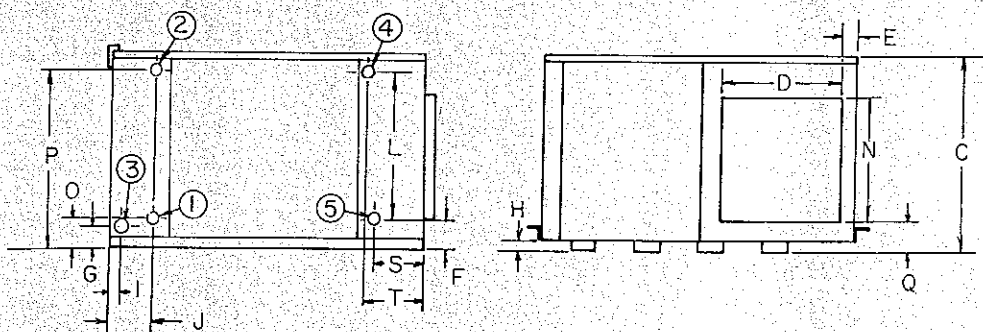
AIR FLOW PATTERNS



- 1 - High Voltage 7/8" or 1" Dia.
- 2 - Low Voltage 1/2" Dia.
- 3 - Cond. Drain 3/4" FPT
- 4 - Water Out 1" FPT
- 5 - Water In 1" FPT



Qty. ____



SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	36 1/4	36 1/4	21 1/4	15	1 1/4	2 13/16	2 1/4	3/8	2 3/4	6 1/2	1	15 5/16	1	15	3 3/4	18 3/4	2 1/4		5 1/4
CM.	92.08	92.08	54.92	38.10	4.45	7.14	6.99	1.59	6.99	16.51	2.54	39.05	2.54	38.1	9.20	46.04	6.67		13.02

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	1	2	3	4	5
IN.	1 1/2	2 1/2	3 1/4	3/4	3 1/2									7/8-1 1/8	1/2	3/4	1	1
CM.	4.76	6.35	8.68	2.22	9.15									1.27	1.91	2.54	2.54	

FILTER SIZE	16"x20"x1"	SHIPPING WGT.	357 lbs.
	40,64x50,8x2,54 cm.		161 kg.

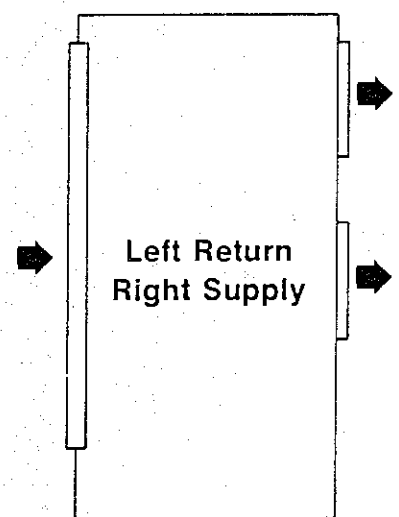
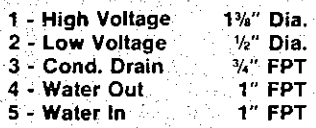
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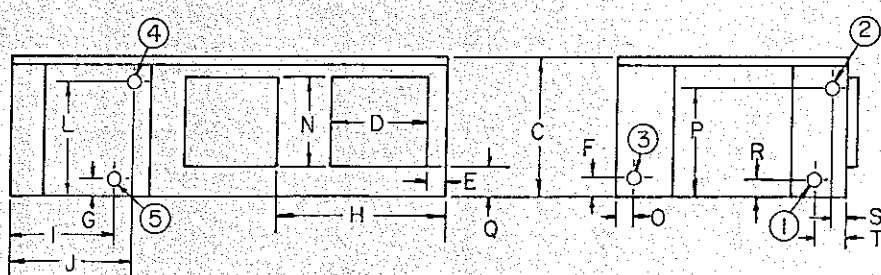
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BLOWER PERFORMANCE		INSTALLED WEIGHT			
EXT. STATIC PRES. I.W.G.			lbs.		
CFM			kg.		

AIR FLOW PATTERNS



Qty. _____



SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF		1	2	3	4	5
IN.	1%	1%	34%		74%										1%	½	¾	1	1
CM.	4.76	4.26	86.68		188.28										2.22	1.27	1.91	2.54	2.54

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814 SERIES HORIZONTAL WATER SOURCE HEAT PUMP SIZE: 120



ClimateMaster

A DIVISION OF YORK INTERNATIONAL
HICKORY, NORTH CAROLINA 28541

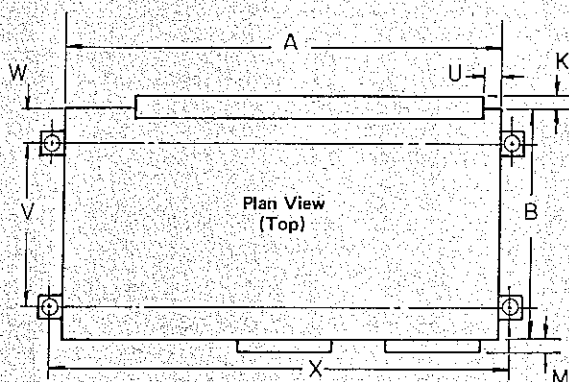
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JOB SCHEDULE	TOTAL BTUH	INPUT WATTS	SENSIBLE BTUH	BTUH HEAT OF ABS./REJ.	EER COP	GPM	EWT	LWT	EAT	PRESSURE DROP IN FEET
COOLING										
HEATING										

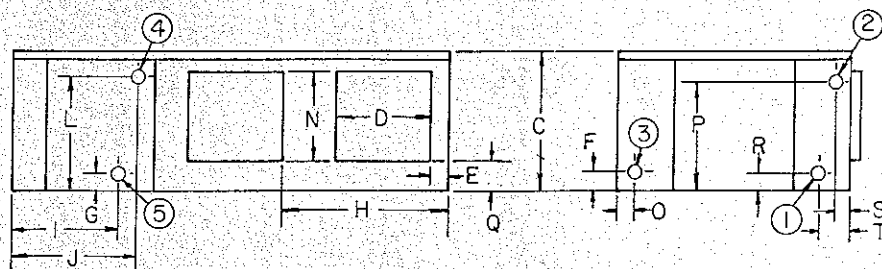
ELECTRICAL DATA		BLOWER	COMPRESSOR		MIN CKT AMPACITY	MAX, FUSE OR HACR SIZE
VOLTAGE	PHASE	FLA	RLA	LRA		
208/230	3	7.5	16.1	90.0	46.4	60
460	3	3.4	7.7	45.0	22.3	20

BLOWER PERFORMANCE			INSTALLED WEIGHT		
EXT. STATIC PRES. I.W.G.			lbs.		
CFM			kg.		

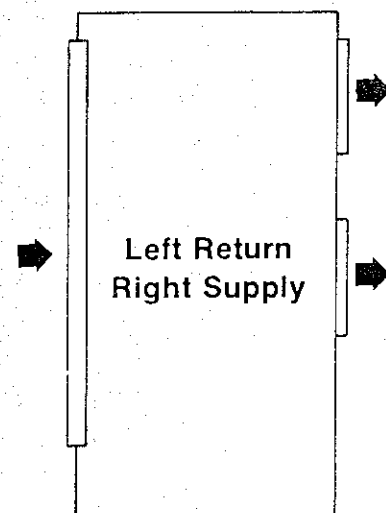
DIMENSIONS



- 1 - High Voltage 1 3/8" Dia.
- 2 - Low Voltage 1/2" Dia.
- 3 - Cond. Drain 3/4" FPT
- 4 - Water Out 1 1/4" FPT
- 5 - Water In 1 1/4" FPT



AIR FLOW PATTERNS



Qty. _____

SZ.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN.	72 3/4	36 3/4	21	15	4 1/4	1 1/4	3 3/4	25 1/4	14 3/4	21 1/4	1	14 3/4	1	15	4 1/4	13 3/4	4 1/4	2 1/4	1/2
CM.	183.51	92.08	53.34	38.10	10.80	3.18	8.57	64.77	37.47	55.25	2.54	36.51	2.54	38.10	10.48	34.29	10.80	6.35	1.27

SZ.	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	1	2	3	4	5
IN.	1 1/2	1 1/2	3 3/4		7 3/4									1 1/2	1/2	3/4	1 1/4	1 1/4
CM.	4.76	4.26	86.68		188.28									3.51	1.27	1.91	3.18	3.18

FILTER SIZE 16"x20"x1"
40,64x50,8x2,54 cm.

SHIPPING WGT. 675 lbs.
306 kg.

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CONTROL SHEET

ClimateMaster
A COMBINATION OF CHP CORP. AND
FRIEDRICH™ CLIMATE MASTER, INC.

HORIZONTAL

WATER SOURCE HEAT PUMPS

2/87

CONTROL NUMBER	DATE	MODEL	DESCRIPTION
WARRANTY	2/86	814	WARRANTY
DESIGN GUIDE	CM-814DG-1086	814	DESIGN GUIDE
814-009	86-12-814	814	SUBMITTAL
814-011	86-12-814	814	SUBMITTAL
814-013	86-12-814	814	SUBMITTAL
814-019	86-12-814	814	SUBMITTAL
814-023	86-12-814	814	SUBMITTAL
814-027	86-12-814	814	SUBMITTAL
814-031	86-12-814	814	SUBMITTAL
814-036	86-12-814	814	SUBMITTAL
814-042	86-12-814	814	SUBMITTAL
814-048	86-12-814	814	SUBMITTAL
814-060	86-12-814	814	SUBMITTAL
814-096	86-12-814	814	SUBMITTAL
814-120	86-12-814	814	SUBMITTAL
IOM	11/86	814	IOM FOR HORZ. & VERT.

ClimateMaster

A COMBINATION OF CHP CORP. AND
FRIEDRICH™ CLIMATE MASTER, INC.

2007 Beechgrove Place
Utica, NY 13501
315-724-7111

TERMS OF LIMITED WARRANTY

Products Covered: 801, 803, 804 (Nominal Capacity Range 8,000 — 60,000 BTUH)

ANY IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WARRANTY.

TERMS OF LIMITED WARRANTY

Friedrich Climate Master warrants all Friedrich Climate Master products to be free from defects in material and workmanship under normal use and maintenance for the time period as stated below. Friedrich Climate Master will furnish, from factory or recognized distributor or parts depot, to a factory recognized dealer, contractor or service organization, a new or rebuilt part in exchange for the part which has failed because of a defect in material or workmanship.

ONE YEAR LIMITED WARRANTY

ANY PART — If any part supplied by Friedrich Climate Master fails because of defect in workmanship or material within 12 months from date of unit installation, Friedrich Climate Master will furnish a new or rebuilt part.

WHAT FRIEDRICH CLIMATE MASTER DOES NOT PROVIDE

LABOR AND MATERIAL COSTS — Friedrich Climate Master is not responsible for the costs of labor, refrigerant, materials or service incurred in removal of the defective part, or in obtaining and replacing the new or rebuilt part.
TRANSPORTATION — Friedrich Climate Master is not responsible for transportation costs of the new or rebuilt part to the installation site, or of the defective part from the installation site to Friedrich Climate Master.

APPLICABILITY

This warranty is applicable only to products that are purchased and retained in the United States and Canada. This warranty does not apply to:

- (1) Air filters, fuses, refrigerant, oil.
- (2) Relocation of products after initial installation.
- (3) Any portion of the system not supplied by Friedrich Climate Master.
- (4) Products on which the unit tags have been removed or defaced.
- (5) Products on which payment is in default.

- (6) Products which have defects or damage which result from improper installation, wiring, electrical imbalance characteristics or maintenance; or caused by accident, misuse or abuse, fire, flood, alteration, misapplication of the product, default or delay in performance caused by war, government restrictions or restraints, strikes, material shortages beyond the control of Friedrich Climate Master, or acts of God.

- (7) Products which have defects or damage which result from a contaminated or corrosive water circuit or supply, operation at abnormal temperatures, pressures and/or flow rates, and unauthorized opening of refrigerant circuit.

LIMITATIONS

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES. Anything in the warranty notwithstanding, ANY IMPLIED WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE AND MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THIS EXPRESS WARRANTY. MANUFACTURER EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY.

NOTE: Some states do not allow limitations on how long an implied warranty lasts, or the limitation or exclusion of consequential or incidental damages, so the foregoing exclusions and limitations may not apply for you.

This warranty applies to the Continental United States and Canada only.

OTHER

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

PLEASE REFER TO THE USE AND CARE MANUAL FOR OPERATING AND MAINTENANCE INSTRUCTIONS.