

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

Rated Air Flow 2400 CFM

HL - Water temperature range is 40°F - 110°F

		Cooling Performance - EAT 80/67°F (EER = 11.0)				Heating Performance - EAT 70°F (COP = 3.9)			
GPM	EWT °F	TOTAL BTUH	SENS BTUH	HEAT OF REJECTION BTUH	POWER INPUT WATTS	HEATING BTUH	HEAT OF ABSORPTION BTUH	POWER INPUT WATTS	UNIT WATER PRESSURE WATER FT H2O
9.9	40	83246	54960	99768	4842	OPERATION NOT RECOMMENDED			3.5
14.4	40	84322	55537	100247	4667				7.1
18.3	40	85255	56037	100663	4516				10.2
23.4	40	86475	56691	101206	4317	70910	50413	6002	14.3
9.9	50	79849	53709	97814	5265	71917	51017	6126	3.5
14.4	50	80925	54286	98294	5090	73835	52749	6180	7.1
18.3	50	81858	54786	98709	4939	75497	54250	6227	10.2
23.4	50	83078	55440	99252	4740	77671	56213	6289	14.3
9.9	60	76787	52600	96050	5644	77000	55334	6350	3.5
14.4	60	77528	53035	96340	5513	80596	58530	6467	7.1
18.3	60	78461	53535	96755	5362	82258	60032	6514	10.2
23.4	60	78500	54400	96181	5182	84000	61549	6580	14.3
9.9	60	75251	51548	94129	5531	79310	56994	6541	3.5
14.4	60	75977	51974	94413	5403	83014	60286	6661	7.1
18.3	60	76892	52464	94820	5255	84726	61833	6709	10.2
23.4	60	76930	53312	94257	5078	86520	63395	6777	14.3
9.9	70	73055	51207	93907	6111	85700	62703	6740	3.5
14.4	70	74131	51784	94050	5836	87357	64312	6754	7.1
18.3	70	74900	51900	94340	5696	91000	67676	6836	10.2
23.4	70	76284	52938	95344	5586	91193	97776	6863	14.3
9.9	85	67400	49500	90458	6758	95581	71253	7130	3.5
14.4	85	69036	49908	91456	6571	97498	72985	7185	7.1
18.3	85	70000	49975	91712	6363	101000	76297	7240	10.2
23.4	85	71000	51100	92335	6253	101334	76449	7293	14.3
9.9	90	66261	48705	90000	6957				3.5
14.4	90	67337	49282	90479	6782				7.1
18.3	90	69400	49760	91010	6432				10.2
23.4	90	69490	50436	91437	6332				14.3
9.9	95	63400	48099	87888	7177				3.5
14.4	95	65639	48657	89502	6994				7.1
18.3	95	66572	49157	89917	6842				10.2
23.4	95	68531	50100	91460	6720				14.3
9.9	100	62864	47454	88046	7380				3.5
14.4	100	63940	48031	88525	7205				7.1
18.3	100	64873	48531	88940	7054				10.2
23.4	100	66093	49185	89483	6855				14.3
9.9	110	OPERATION NOT RECOMMENDED							3.5
14.4	110								7.1
18.3	110	61518	45873	86251	7196				10.2
23.4	110	63500	46730	86465	7203				14.3

Interpolation is permissible. Extrapolation is not.

Bold Face = ARI Conditions

CORRECTION FACTORS

For Variations In Entering Air Temperature

Entering Air °F WB	Cooling Corrections							Heating Corrections			
	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Heating Capacity	Heat of Absorption	Power Input Watts
		70° DB	75° DB	80° DB	85° DB	90° DB					
61	0.910	0.871	1.072	1.243	*	*	0.956	60	1.035	1.052	0.948
64	0.955	0.702	0.919	1.136	*	*	0.978	65	1.018	1.026	0.974
67	1.000	0.532	0.766	1.000	1.221	*	1.000	70	1.000	1.000	1.000
70	1.045		0.611	0.864	1.101	1.334	1.021	75	0.984	0.982	1.030
73	1.090		0.455	0.727	0.981	1.234	1.043	80	0.969	0.965	1.061

For Variations In Entering Air Flow

CFM	Cooling Corrections				Heating Corrections		
	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Power Input Watts	Heating Capacity	Heat of Absorption	Power Input Watts
1800	0.936	0.940	0.948	0.978	0.935	0.928	1.022
2100	0.968	0.970	0.974	0.991	0.967	0.963	1.011
2250	0.984	0.985	0.987	0.998	0.984	0.982	1.006
2400	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2700	1.033	1.030	1.026	1.018	1.034	1.038	0.989
3000	1.065	1.060	1.050	1.032	1.070	1.077	0.979





HL/HE072 Submittal Data

Performance Data HE Horizontal 072

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

Nominal SCFM 2900		Cooling Performance - EAT 80/67°F						Heating Performance - EAT 70°F					UNIT WATER PRESSURE DROP PSI/FT
GPM	EWT °F	TOTAL BTUH	SENSIBLE BTUH	HEAT OF REJECTION BTUH	POWER INPUT WATTS	EER	HWG TOTAL BTUH	TOTAL BTUH	HEAT OF ABSORPTION BTUH	POWER INPUT WATTS	COP	HWG TOTAL BTUH	
12.00	25	OPERATION NOT RECOMMENDED						43400	25900	5120	2.5	4400	2.5/5.8
14.00	25							44900	26700	5320	2.7	4800	3.0/6.8
20.00	25							47600	29100	5420	2.6	5200	4.1/9.4
12.00	30							47400	29200	5320	2.6	4600	2.0/4.6
14.00	30							48700	29900	5510	2.6	5000	2.9/6.7
20.00	30							51200	32300	5540	2.7	5400	4.0/9.3
12.00	35							51400	32600	5515	2.7	5000	2.0/4.6
14.00	35							52500	33000	5710	2.7	5400	2.9/6.7
20.00	35							57000	37500	5740	2.9	5800	3.9/9.0
12.00	40	86100	57200	103700	5160	16.7	4700	56100	36300	5810	2.8	5400	1.7/3.9
14.00	40	87800	57400	105200	5100	17.2	4500	59700	39500	5910	3.0	5800	2.6/6.1
20.00	40	90000	57900	107300	5060	17.8	4300	63100	42800	5940	3.1	6200	3.7/8.6
12.00	45	83400	56200	101200	5210	16.0	5200	63400	42600	6100	3.1	5800	1.7/3.8
14.00	45	85300	56600	102900	5160	16.5	4800	64600	43700	6130	3.1	6200	2.6/6.0
20.00	45	87400	57200	104800	5100	17.1	4600	67000	46000	6140	3.2	6600	3.6/8.3
12.00	50	80000	55200	98200	5330	15.0	5500	65000	44200	6100	3.1	6200	1.6/3.7
14.00	50	82700	55700	100400	5190	15.9	5100	69100	47600	6300	3.2	6600	2.6/5.9
20.00	50	84700	56200	102300	5160	16.4	4900	71100	49500	6330	3.3	7000	3.6/8.4
12.00	60	75600	52800	93900	5350	14.1	5100	75300	53200	6480	3.4	6900	1.6/3.6
14.00	60	77500	53400	95700	5330	14.5	5800	76700	54500	6500	3.5	7300	2.5/5.7
20.00	60	79400	53800	97300	5250	15.1	5500	79300	57000	6520	3.6	7700	3.6/8.2
12.00	70	72000	51120	91500	5720	12.6	6700	86000	63400	6620	3.8	7700	1.5/3.3
14.00	70	72900	51200	91600	5460	13.4	6200	87500	64600	6700	3.8	8100	2.4/5.5
20.00	70	74100	52300	92400	5350	13.9	6100	88000	65000	6740	3.9	8500	3.5/8.1
12.00	80	65200	47000	84700	5730	11.4	7300	91600	68100	6880	3.9	8400	1.4/3.2
14.00	80	66900	47600	86200	5650	11.8	7000	92300	68700	6900	3.9	8800	2.4/5.4
20.00	80	68800	48300	87700	5540	12.4	8700	95600	71400	7090	4.0	9300	3.4/7.9
12.00	90	59700	43600	80100	5990	10.0	7900	OPERATION NOT RECOMMENDED					1.3/3.0
14.00	90	61800	44600	81800	5860	10.5	7600						2.3/5.2
20.00	90	63500	45100	83000	5690	11.2	7300						3.4/7.7
12.00	100	54300	40400	75800	6300	8.6	8500						3.2/7.4
14.00	100	56200	41200	76900	6070	9.3	8200						2.2/5.0
20.00	100	58200	41900	78300	5900	9.9	7900						3.3/7.6
12.00	105	51800	38700	74300	6590	7.9	8800						3.2/7.4
14.00	105	53600	39500	74900	6240	8.6	8500						2.2/5.0
20.00	105	54600	40300	72200	6040	9.0	8200						3.2/7.4
12.00	110	49200	37000	72700	6880	7.2	9100	3.2/7.4					
14.00	110	50900	37800	72800	6400	8.0	8800	2.1/4.9					
20.00	110	52800	38700	73800	6170	8.6	8500	3.2/7.4					

Interpolation is permissible. Extrapolation is not.

Correction Factors

For Variations In Entering Air Temperature

Cooling Corrections							Heating Corrections				
Entering Air °F WB	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Heating Capacity	Heat of Absorption	Power Input Watts
		70° DB	75° DB	80° DB	85° DB	90° DB					
61	0.910	0.763	1.030	*	*	*	0.895	60	1.025	1.047	0.965
64	0.955	0.615	0.881	1.148	*	*	0.948	65	1.010	1.023	0.990
67	1.000	0.466	0.733	1.000	1.267	*	1.000	70	0.995	1.000	1.000
70	1.045	*	0.585	0.852	1.118	*	1.055	75	0.980	0.977	1.040
73	1.090	*	0.436	0.703	0.970	1.397	1.109	80	0.965	0.953	1.065

For Variations In Entering Air Flow

Cooling Corrections					Heating Corrections		
SCFM	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Power Input Watts	Heating Capacity	Heat of Absorption	Power Input Watts
2300	0.961	0.955	0.954	0.913	0.961	0.969	1.045
2500	0.980	0.978	0.982	0.957	0.980	0.980	1.022
2700	0.990	0.989	0.996	0.978	0.990	1.000	1.011
2900	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3100	1.014	1.016	1.020	1.031	1.021	1.012	0.984
3400	1.028	1.032	1.033	1.062	1.030	1.024	0.968



ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products.

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

Based on wet coil and clean air filter Maximum CFM 3000 Minimum CFM 1800 HS
Minimum CFM 1600 HL

SCFM Air Flow		CFM EXTERNAL STATIC PRESSURE (in wg.)																	
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5				
1800	BHP	0.335	0.378	0.424	0.472	0.524													
	RPM	599	646	692	737	781													
	Turns Out	3	2	1.5	5	4													
2000	BHP	0.425	0.474	0.524	0.576	0.629	0.683	0.739								OPERATION NOT RECOMMENDED			
	RPM	637	680	723	766	807	849	890											
	Turns Out	2.5	1.5	0.5	4.5	3.5	3	2											
2200	BHP	0.539	0.588	0.639	0.693	0.749	0.808	0.870	0.934	1.001									
	RPM	678	718	758	796	834	871	907	943	978									
	Turns Out	1.5	1	4.5	4	3	2.5	1.5	1	0.5									
2400	BHP	0.676	0.728	0.782	0.837	0.895	0.955	1.017	1.081	1.148	1.216								
	RPM	724	759	794	829	863	897	931	964	997	1029								
	Turns Out	0.5	4.5	4	3	2.5	2	1	0.5	3.5	3.5								
2600	BHP	0.833	0.890	0.949	1.009	1.072	1.135	1.201	1.268	1.337	1.408	1.480	1.554	1.630					
	RPM	765	800	835	869	902	934	966	997	1028	1059	1090	1120	1151					
	Turns Out	4.5	3.5	3	2.5	1.5	1	0.5	3.5	3.5	3	2.5	2.5	2					
2800	BHP	1.014	1.075	1.137	1.201	1.267	1.334	1.403	1.474	1.546	1.619	1.693	1.769	1.846	1.924				
	RPM	811	844	876	908	939	969	1000	1029	1059	1088	1117	1145	1174	1202				
	Turns Out	3.5	3	2	1.5	1	0.5	4	3.5	3.5	3	2.5	2	1.5	1				
3000	BHP	1.218	1.283	1.350	1.418	1.487	1.558	1.630	1.703	1.777	1.853	1.931	OPERATION NOT RECOMMENDED						
	RPM	856	887	918	948	977	1006	1035	1062	1090	1118	1145							
	Turns Out	2.5	2	1.5	1	0.5	4	3.5	3	3	2	2							

"A"=Standard Sheave RPM range
 "B"=Low RPM sheave range
 "C"=High RPM sheave range
 "D"=High RPM sheave range with 2 HP Motor

HE 072

Based on wet coil and clean air filter Maximum CFM 3000 Minimum CFM 1800 HS
Minimum CFM 1600 HL

SCFM Air Flow		CFM EXTERNAL STATIC PRESSURE (in wg.)																	
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5				
1800	BHP	0.335	0.378	0.424	0.472	0.524													
	RPM	599	646	692	737	781													
	Turns Out	3	2	1.5	5	4													
2000	BHP	0.425	0.474	0.524	0.576	0.629	0.683	0.739								OPERATION NOT RECOMMENDED			
	RPM	637	680	723	766	807	849	890											
	Turns Out	2.5	1.5	0.5	4.5	3.5	3	2											
2200	BHP	0.539	0.588	0.639	0.693	0.749	0.808	0.870	0.934	1.001									
	RPM	678	718	758	796	834	871	907	943	978									
	Turns Out	1.5	1	4.5	4	3	2.5	1.5	1	0.5									
2400	BHP	0.676	0.728	0.782	0.837	0.895	0.955	1.017	1.081	1.148	1.216								
	RPM	724	759	794	829	863	897	931	964	997	1029								
	Turns Out	0.5	4.5	4	3	2.5	2	1	0.5	3.5	3.5								
2600	BHP	0.833	0.890	0.949	1.009	1.072	1.135	1.201	1.268	1.337	1.408	1.480	1.554	1.630					
	RPM	765	800	835	869	902	934	966	997	1028	1059	1090	1120	1151					
	Turns Out	4.5	3.5	3	2.5	1.5	1	0.5	3.5	3.5	3	2.5	2.5	2					
2800	BHP	1.014	1.075	1.137	1.201	1.267	1.334	1.403	1.474	1.546	1.619	1.693	1.769	1.846	1.924				
	RPM	811	844	876	908	939	969	1000	1029	1059	1088	1117	1145	1174	1202				
	Turns Out	3.5	3	2	1.5	1	0.5	4	3.5	3.5	3	2.5	2	1.5	1				
3000	BHP	1.218	1.283	1.350	1.418	1.487	1.558	1.630	1.703	1.777	1.853	1.931	OPERATION NOT RECOMMENDED						
	RPM	856	887	918	948	977	1006	1035	1062	1090	1118	1145							
	Turns Out	2.5	2	1.5	1	0.5	4	3.5	3	3	2	2							

"A"=Standard Sheave RPM range
 "B"=Low RPM sheave range
 "C"=High RPM sheave range
 "D"=High RPM sheave range with 2 HP Motor





CLIMATEMASTER®
Physical Characteristics
Models HE 072

HL/HE072 Submittal Data

Contractor: _____	P.O.: _____
Engineer: _____	
Project Name: _____	Unit Tag: _____

Size	Model No.	Ship Wt. Lbs.	Oper. Lbs.	Wt.Refrigerant-to-Air Heat Exchanger				Refrig. Charge R-22/CKT oz.	No. of Circuits	Hi Volt Knockout Inches	Pump Power Knockout Inches
				Face Are Sq. Ft.	No. of Rows Deep	Copper Tube Sz. OD in.	No. of Fin Inchs				
072	HE	635	615	6.66	3	3/8	14	49	2	1-3/8	1/2

Models HL 072

Size	Model No.	Ship Wt. Lbs.	Oper. Lbs.	Wt.Refrigerant-to-Air Heat Exchanger				Refrig. Charge R-22/CKT oz.	No. of Circuits	Hi Volt Knockout Inches	Pump Power Knockout Inches
				Face Are Sq. Ft.	No. of Rows Deep	Copper Tube Sz. OD in.	No. of Fin Inchs				
072	HL	635	615	6.66	2	3/8	14	38	2	1-3/8	1/2

Operating Limits

Environment

This equipment is designed for indoor installation ONLY.

Power Supply

A voltage variation of +/- 10% of nameplate utilization voltage is acceptable. Three-phase system imbalance shall not exceed 2%.

Starting Conditions

All Models:

Unit Heat Pumps will start and operate in an ambient of 40°F. with entering air at 40°F. with entering water at 40°F, with both air and water at the flow rates used in the ARI Standard 325 rating test, for initial start-up in winter.

Note: These are not normal or continuous. It is assumed that such a start-up is for the purpose of bringing the building space up to occupancy temperature.

Air and Water Limits

	HL/HE	
	Cooling	Heating
Min. Ambient Air	40°F	40°F
Rated Ambient Air	80°F	70°F
Max. Ambient Air	100°F	85°F
Min. Entering Air, db/wb	70/61°F	40°F
Rated Entering Air, db/wb	80/67°F	70°F
Max. Entering Air, db/wb	95/76°F	80°F

Water Limits

	HL/HE	
	Cooling	Heating
Min. Entering Water	40°F	25°F
Normal Entering Water	85°F	70°F
Max. Entering Water	110°F	80°F

- Notes:**
- (A) Minimum Air and Water condition can only be used at ARI flow rates.
 - (B) Only one maximum or minimum value may be used. All other parameters must be at normal conditions. HE Units may have up to two values at maximum or minimum with all other parameters at normal condition.





HL/HE072 Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

HE Models 072

Note: 208/230 Voltage is factory tapped at 208V. Field connection required for 230V.
No Pump Circuit Included.

Size	Model	Voltage	Phase	Minimum CRC Ampacity	Maximum Fuse	LRA Comp. (each)	RLA Comp. (each)	Blower FLA	Maximum Pump Amps	Total FLA	Blower Diameter	Blower Width	Blower HP
72	HE Only	208/230	1	41.625	50	78	14.5	9	-	38	12	11	1.5
		208/230	3	25.725	30	59.2	8.9	5.7	-	23.5	12	11	1.5
		208/230	3	27.525	35	59.2	8.9	7.5	-	25.3	12	11	2
		460	3	12.5	15	32.8	4.4	2.6	-	11.4	12	11	1.5
		460	3	13.3	15	32.8	4.4	3.4	-	12.2	12	11	2

HL Models 072

SIZE	MODEL	VOLTS	PHASE	MAX. MIN. CRKT. AMP.	MAX. FUSE/HACR BRKR.	CRKT. BRKR. (CANADA)	LRA COMP. (EA)	RLA COMP. (EA)	BLOWER FLA	TOTAL FLA	BLOWER HP
072	HL	208/230	3	29.6	40	40	59.5(2)	10.6(2)	5.7	26.9	1 1/2
		460	3	13.0	15	15	32.8(2)	4.6(2)	2.6	11.8	1 1/2
		208/230	3	31.5	40	40	59.5(2)	10.6(2)	7.5	28.7	2*
		460	3	13.8	20	15	32.8(2)	4.6(2)	3.4	12.6	2*



Wiring Diagram

Typical Three Phase, Two Compressor Unit Wiring Diagram for HL/HE072 with CXM Controller

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

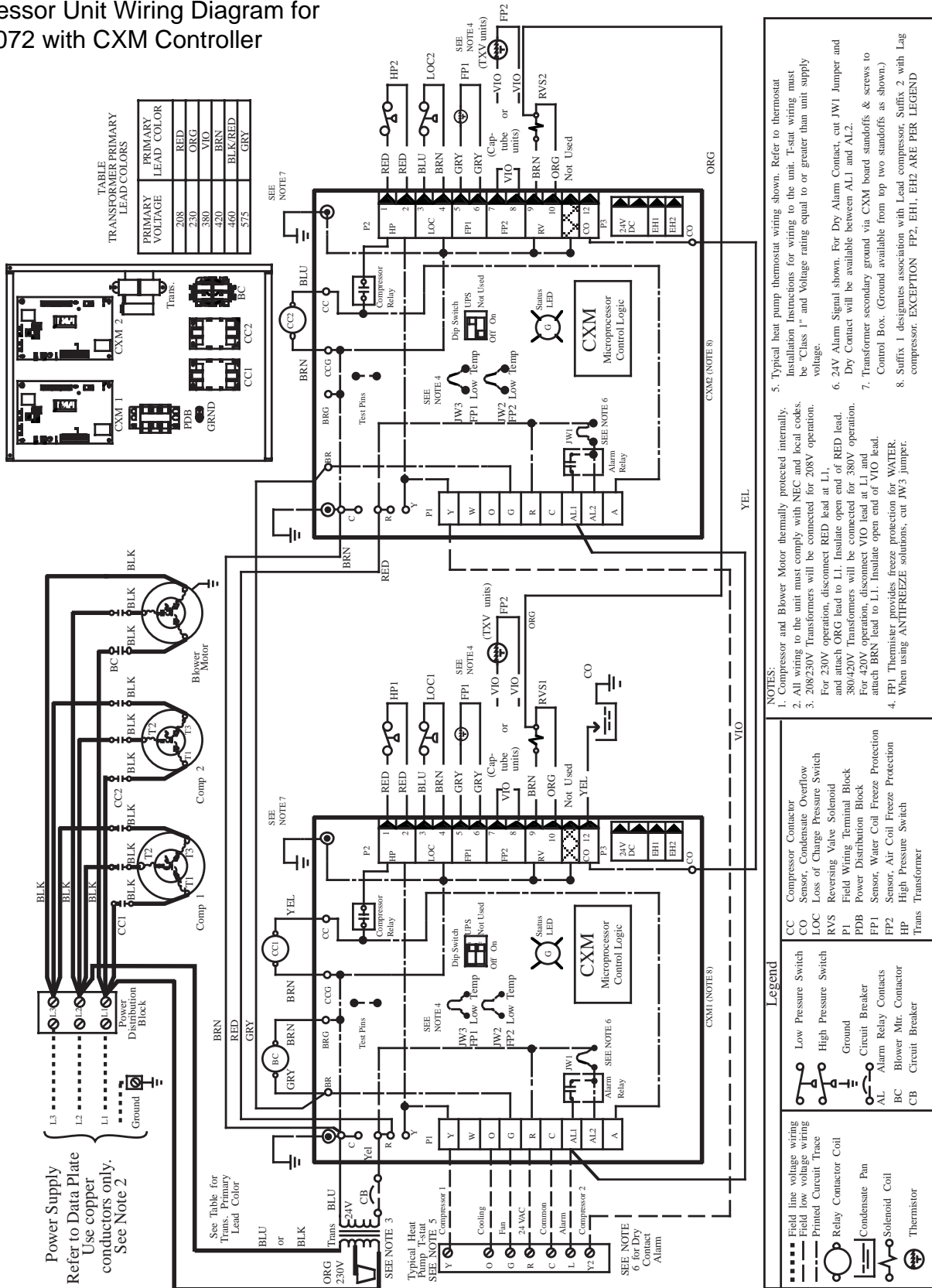


TABLE
TRANSFORMER PRIMARY
LEAD COLORS

PRIMARY VOLTAGE	PRIMARY LEAD COLOR
208	RED
240	ORG
380	VIO
420	BRN
460	BLK/RED
575	GRY

NOTES:

- Compressor and Blower Motor thermally protected internally.
- All wiring to the unit must comply with NEC and local codes.
- 208/240V Transformers will be connected for 208V operation. For 230V operation, disconnect RED lead at L1, and attach ORG lead to L1. Insulate open end of RED lead.
- 380/420V Transformers will be connected for 380V operation. For 420V operation, disconnect VIO lead at L1 and attach BRN lead to L1. Insulate open end of VIO lead.
- Thermistor provides freeze protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper.
- Typical heat pump thermostat wiring shown. Refer to thermostat Installation Instructions for wiring to the unit. T-stat wiring must be "Class 1" and Voltage rating equal to or greater than unit supply voltage.
- 24V Alarm Signal shown. For Dry Alarm Contact, cut JW1 Jumper and Dry Contact will be available between AL1 and AL2.
- Transformer secondary ground via CXM board standoffs & screws to Control Box. (Ground available from top two standoffs as shown)
- Suffix 1 designates association with Lead compressor, Suffix 2 with Lag compressor. EXCEPTION: FP2, EHI, EHZ ARE PER LEGEND





CLIMATEMASTER®

Wiring Diagram

Typical Three Phase, Two Compressor Unit Wiring Diagram for HL/HE072 with DXM Controller

HL/HE072 Submittal Data

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

Legend

AL	Alarm Relay Contacts	Relay / Contactor Call
AL2	Alarm Relay Alarm	Wire nut
BC	Blower Contactor	Condensate Pan
CC	Circuit Breaker	Subrinal Coil
CC1	Compressor Contactor	Circuit Breaker
CC2	Compressor Contactor	High Pressure Switch
FD	Fan Drive	Low Pressure Switch
FP1	Fan Pressure Protector	Thermostat
FP2	Air Coil Freeze Protector	Ground
LCC	Low of Charge Pressure Switch	
LOC	Locking Contact	
NSB	Normal Stop	
R	Relay	
R6	Relay	
TS	Transformer	
W1	Wiring	
W2	Wiring	
W3	Wiring	
W4	Wiring	
W5	Wiring	
W6	Wiring	
W7	Wiring	
W8	Wiring	
W9	Wiring	
W10	Wiring	
W11	Wiring	
W12	Wiring	
W13	Wiring	
W14	Wiring	
W15	Wiring	
W16	Wiring	
W17	Wiring	
W18	Wiring	
W19	Wiring	
W20	Wiring	
W21	Wiring	
W22	Wiring	
W23	Wiring	
W24	Wiring	
W25	Wiring	
W26	Wiring	
W27	Wiring	
W28	Wiring	
W29	Wiring	
W30	Wiring	
W31	Wiring	
W32	Wiring	
W33	Wiring	
W34	Wiring	
W35	Wiring	
W36	Wiring	
W37	Wiring	
W38	Wiring	
W39	Wiring	
W40	Wiring	
W41	Wiring	
W42	Wiring	
W43	Wiring	
W44	Wiring	
W45	Wiring	
W46	Wiring	
W47	Wiring	
W48	Wiring	
W49	Wiring	
W50	Wiring	

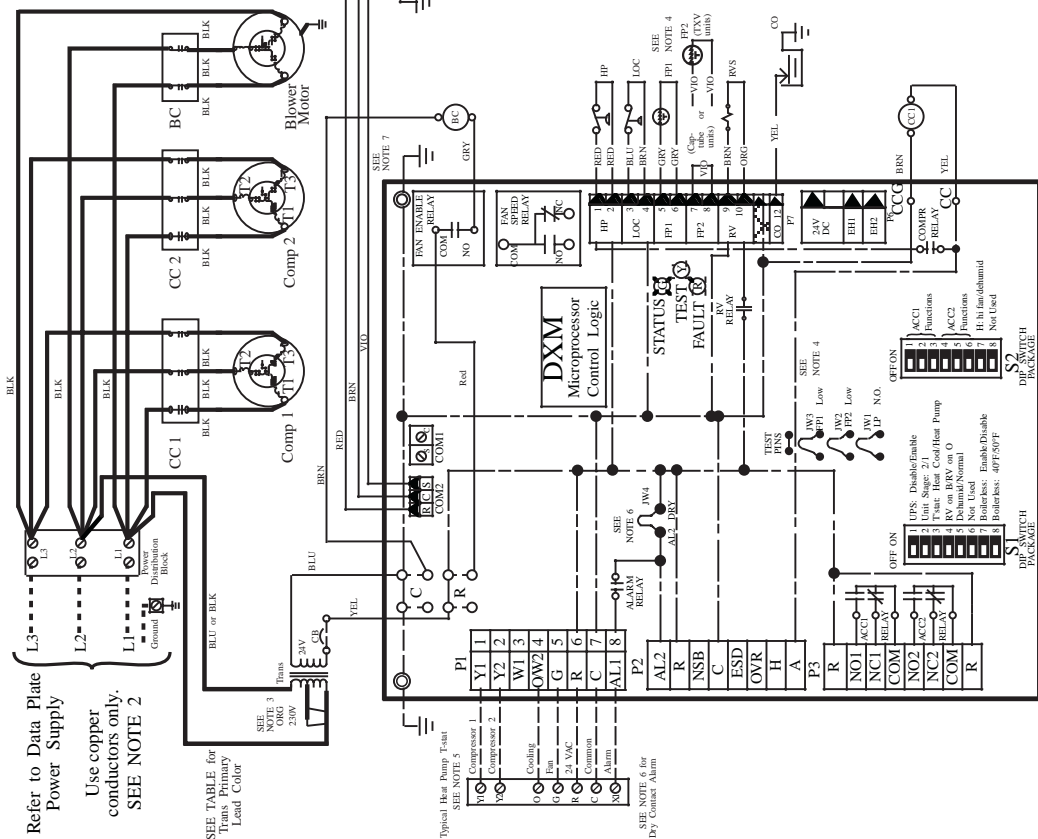
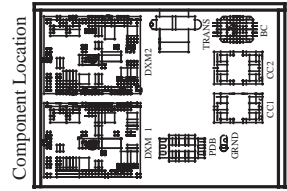


TABLE TRANSFORMER PRIMARY LEAD COLORS

PRIMARY VOLTAGE	PRIMARY LEAD COLOR
208	RED
230	ORNG
250	BRN
320	BLK
480	GRY



Notes:

- Compressor and Blower Motor thermally protected internally.
- All wiring to the unit must comply with NEC and local codes.
- 208/230V Transformers will be connected for 208V operations. For 230V operations, disconnect RED lead at L1, and attach ORG lead to L1. Inal open end of RED lead. 380/420V Transformers will be connected for 380V operation. For 420V operation, disconnect VIO lead at L1 and attach BRN lead to L1. Insulate open end of VIO lead.
- FP1 Thermostat provides freeze protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper, FP2 Thermostat available on HE, HL units only.
- Typical heat pump thermostat wiring shown. Refer to thermostat Installation Instructions for wiring to the unit. T-stat wiring must be "Class 1" and Voltage rating equal to or greater than unit supply voltage.
- 24V Alarm Signal shown. For Dry Alarm Contact, cut AL2 DRY (JW4) Jumper and Dry Contact will be available between AL1 and AL2.
- Transformer secondary ground via DXM board standoffs & screws to Control Box. (Ground available from top two standoffs as shown.)

DXM 1

DESCRIPTION OF OPERATION	STATUS LED (GREEN)	TEST LED (YELLOW)	FAULT LED (RED)
NORMAL MODE	ON	OFF	OFF
DXM IS NON-FUNCTIONAL	OFF	OFF	OFF
NIGHT SETBACK	FLASHING CODE 2	-	-
EMERGENCY SHUTDOWN	FLASHING CODE 3	-	-
INVALID TEST INPUT	FLASHING CODE 4	-	-
LOCKOUT	FLASHING CODE 5	-	-
FAULT RETRY	FLASHING CODE 6	-	-
LP FAULT	FLASHING CODE 7	-	-
FP FAULT	FLASHING CODE 8	-	-
PP FAULT	FLASHING CODE 9	-	-
CO FAULT	FLASHING CODE 10	-	-
OVER/UNDER VOLTAGE	FLASHING CODE 11	-	-
NORMAL MODE w/ UPS	ON	ON	ON

* - Codes Displayed with 10 sec. LED OFF Period
 Exam: Code 3 = flash 3 times, off 10 sec., flash 3 times, off 10 sec..
 *** - Closed after 15 minutes.
 **** - Closed 5 sec. open 25 sec..



LC272

Rev.: 02/25/02

Page _____ of _____

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products. The latest version of this document is available at www.climatemaster.com.

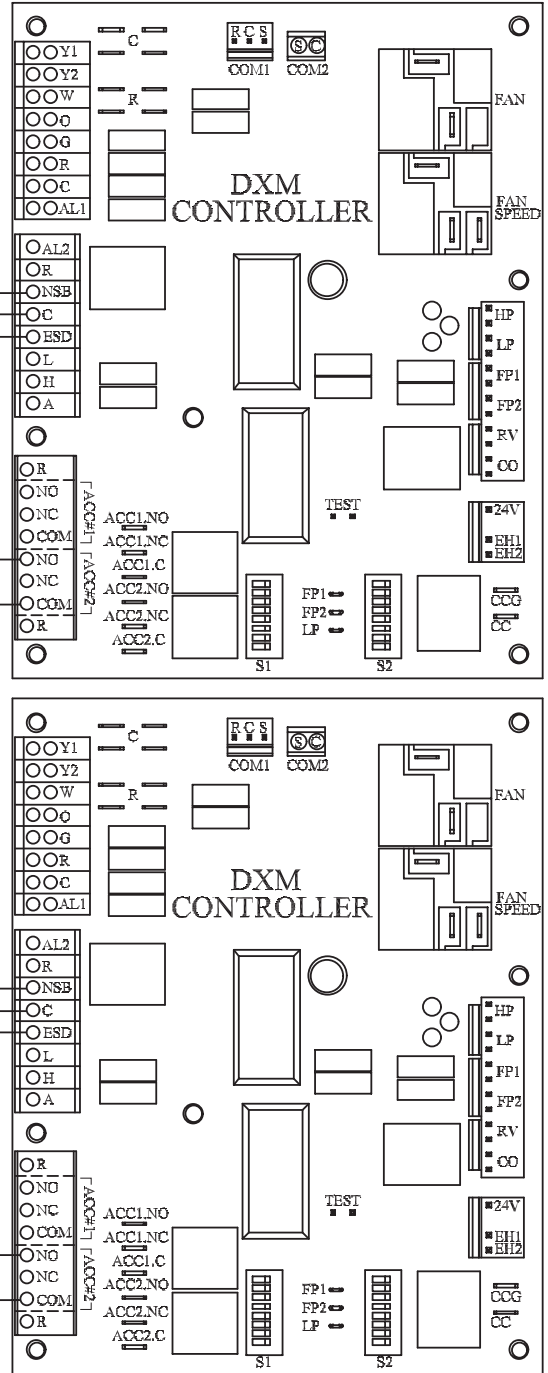
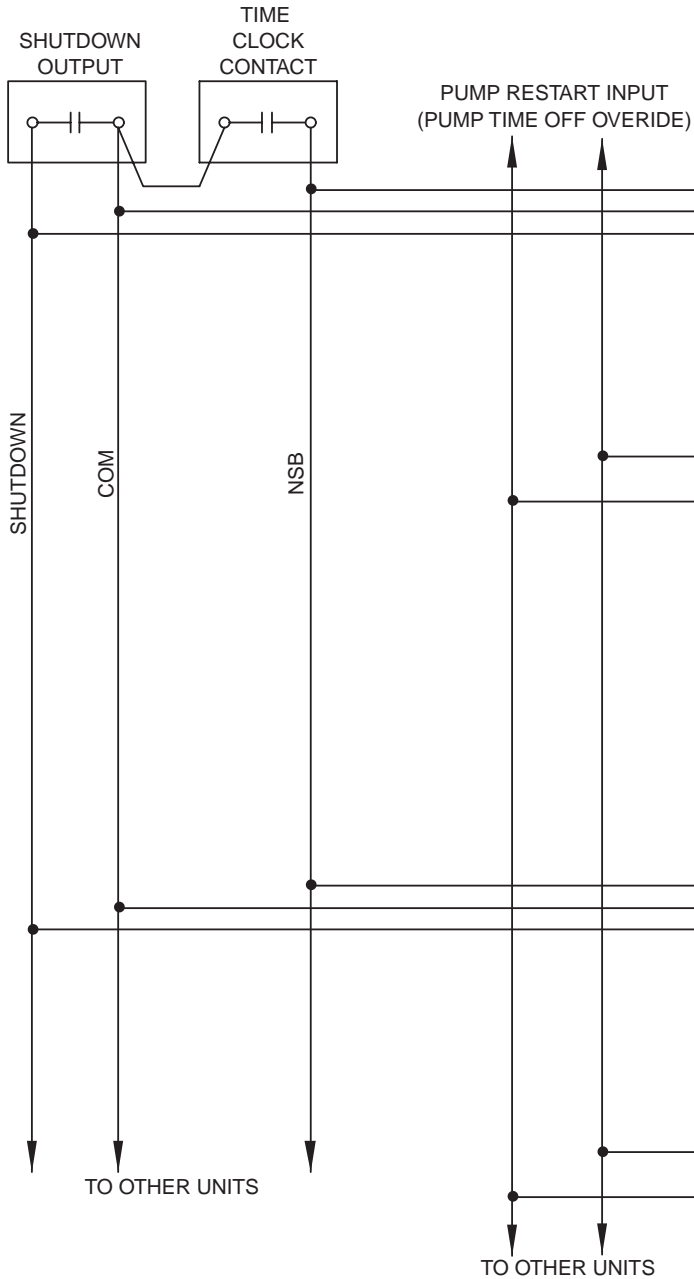


HL/HE072 Submittal Data

Wiring Diagram

DXM Series Electronic Control
 Typical Night Setback / Emergency
 Shutdown / Pump Restart

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

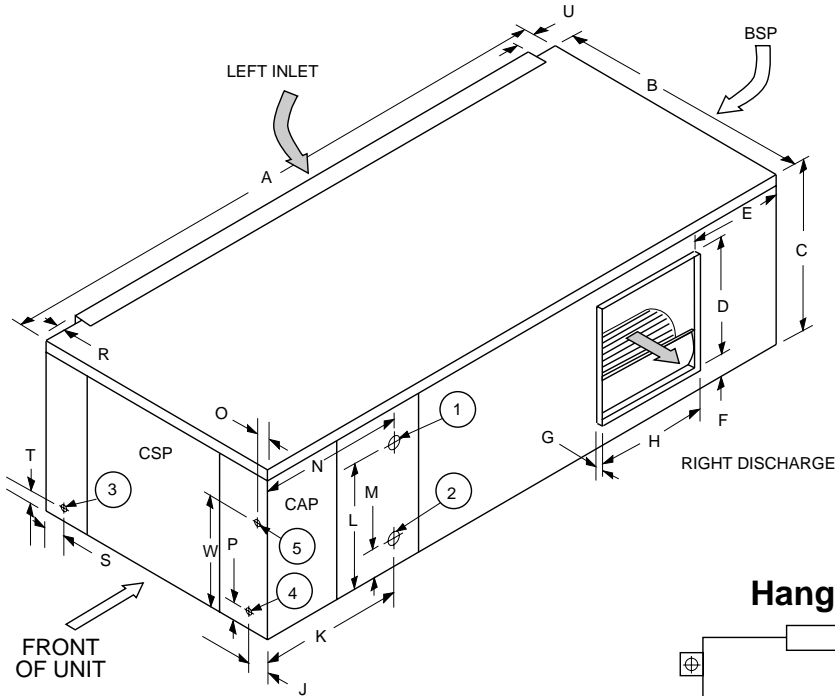




Dimensions
HL 072

HL/HE072 Submittal Data

Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____



- 1. Water Outlet 1-1/4" FPT
 - 2. Water Inlet 1-1/4" FPT
 - 3. Condensate Drain 3/4" FPT
 - 4. High Voltage Access 1-3/8" K.O. (35mm)
 - 5. Low Voltage Access 1/2" DIA (13mm)
- CAP - Control Access Panel
 BSP - Blower Service Panel
 CSP - Compressor Service Panel

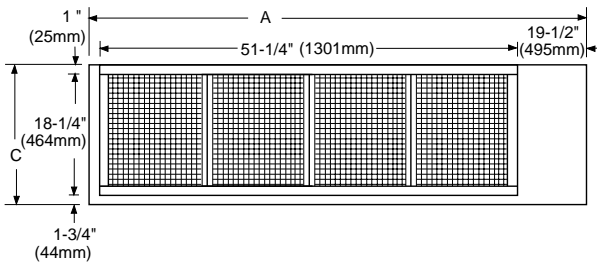
Return Air Duct Size
 18-1/4" High x 51-1/4" Wide
 (464mm High x 1314mm Wide)

Nominal Filter Size
 20" x 26-1/2" x 1" Two Required
 (508mm x 673mm x 25mm) Two Required

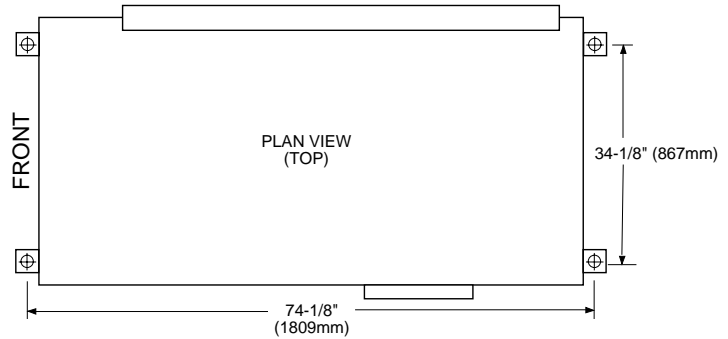
Note: All side panels are removable.

FLANGED FILTER RACK VIEW AT INLET

Note: Leave one end of duct collar open for filter removal.



Hanger Bracket Dimensions

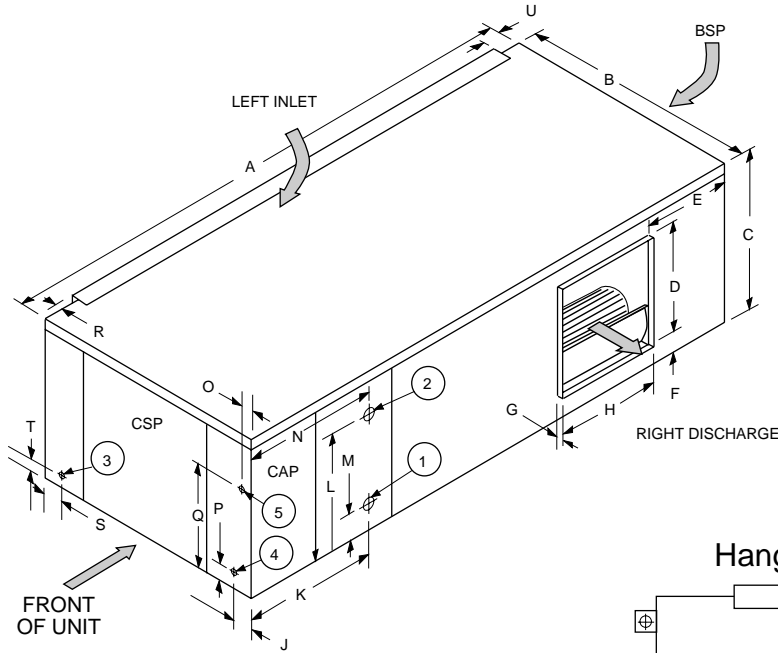


NOTE: Available in left return and straight blow only (LS) as shown.

MODEL		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V
072	INCHES	72-1/4	36	21	16	14-1/2	3	1	16	1-7/8	19-3/4	16-1/2	3-1/4	21-1/4	1/2	2-1/2	1	4-1/4	1-3/8	3/4	13-1/2
	MM	1835	914	533	406	368	76	25	406	48	502	419	83	540	13	64	25	108	35	19	343



Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

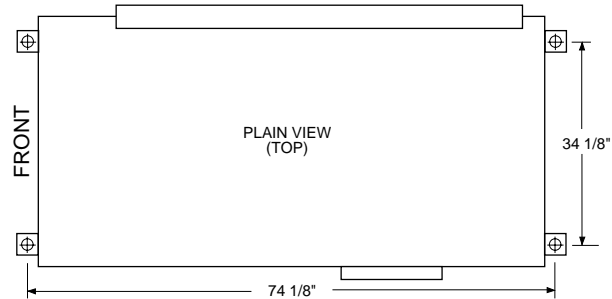


- 1. Water outlet 1 1/4" FPT
 - 2. Water inlet 1 1/4" FPT
 - 3. Condensate Drain 3/4" FPT
 - 4. High Voltage Access 1 3/8" K.O. (35mm)
 - 5. Low Voltage Access 1/2" DIA (13mm)
- CAP - Control Access Panel
 BSP - Blower Service Panel
 CSP - Compressor Service Panel

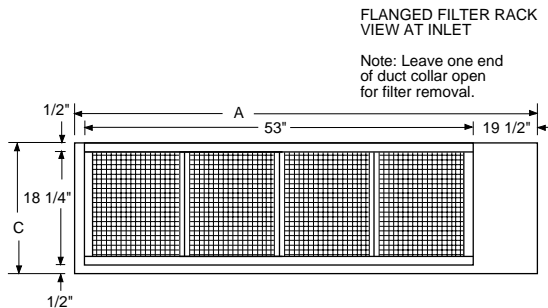
Return Air Duct Size
 18 1/4" High x 53" Wide
 464mm High x 1346mm Wide

Nominal Filter Size
 20 x 26 1/2 x 1 Two Required
 508mm x 673mm x 25mm Two Required

Hanger Bracket Dimensions



Return Air Duct Size
 18 1/4" High X 53" Wide



Note: Available in left return, straight blow only (LS) as shown.

MODEL		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U
072	INCHES	72 1/4	36	21	16	14 1/2	3	1	16	1 7/8	20 7/8	18 5/8	3 1/4	22 3/8	1/2	2 1/2	1	4 1/4	1 3/8	3/4
	MM	1835	914	533	406	368	76	25	406	48	530	473	83	568	13	64	25	108	35	19

