



Product Description
Performance and Electrical Data
Dimensional Data
Guide Specifications



... the pioneer and builder of the most complete line of precision cooling equipment

Data Aire's first precision cooling system was developed by data processing engineers who sought optimum environmental conditions for early computers. It was clear that "people comfort" air conditioning system were unable to meet the environmental requirements of computers and data processing equipment. Precision environmental control equipment with high sensible cooling ratios was a necessity. Problems with paper sticking, head crash, and static electricity were eliminated. Humidity fluctuation were controlled saving possible electrical and mechanical failures and more importantly – Downtime. Data Aire's innovative response to the challenge of eliminating problems within the computer room environment was the start of wide use precision cooling.

As in the past, Data Aire is meeting today's challenge of not only the computer room but also the ever expanding telecommunications industry where precision cooling is vital to our everyday communications. Telecommunication equipment requires a controlled environment with clean and properly distributed air. As in the computer room, the environment must be precisely controlled – 24 hour a day, 365 days a year.

Data Aire produces solutions. We have offered environmental control solutions to meet specific needs in the smallest of places and in areas of thousands of square feet. We are prepared to assist you, your in-house engineering department, consulting engineer, or construction department in defining the proper solutions and bringing them to a predefined outcome.

Data Aire is committed to being the supplier of choice for environmental process cooling with flexibility, reliability, and expertise required to meet our customer's needs. To be successful, it is essential to be creative and use our resources to their fullest capabilities. The Data Aire goal is to benefit the employees, partners, and most of all – our customers with honesty and integrity.

Data Aire Delivers!

## PRECISION COOLING

LCS is a precision environmental control systems that bring a standard of reliable performance required by today's market demands; Small and medium size data centers, telecommunication sites, or where floor space is not available and larger tonnage units are required. Designed for ducted above ceiling applications, the LCS may be ordered as an air or water/glycol cooled direct expansion unit with single or dual compressors. Chilled water units are also available. Each LCS unit is factory run tested and put through a rigorous quality control procedure.

## **COMFORT**

Computer rooms, telecommunication sites, and other environmentally controlled spaces require air which is clean and properly distributed, with precisely controlled temperature and humidity. Building or "people comfort" systems are not designed to meet these demands. LCS is designed to meet these goals.

# **CONTROL**

The heart of the LCS is the *Mini Data Alarm Processor-II<sup>TM</sup>*, a microprocessor based controller designed for precision environmental control. The *Mini Data Alarm Processor-II* not only controls and monitors temperature, humidity, airflow, and cleanliness, it provides alarm history and automatic self-tests. All information is provided on a liquid crystal display (LCD).

# DATA AIRE DELIVERS

Engineered for high performance and reliability, each LCS comes with Data Aire's commitment to excellence. This commitment began with Data Aire's first process cooling unit and has continued for more than 30 years of building the industry's finest precision control equipment. Standard ship cycle is 30 days from date of order. With Data Aire's optional "quick ship" program, units can be expedited to ship in as little as one week. All units are built to your specific order. Call your nearest Data Aire representative for more information.

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## **DESIGN FEATURES**



#### **CABINET**

The heliarc welded tubular steel frame provides maximum strength and ease of service access. Removable panels of galvanized steel are insulated with 1 inch thick, 1-1/2 pound density insulation for thermal protection and sound attenuation. All parts are easily accessible. The electrical panel is hinged and swings out for servicing.

## **COIL SECTION**

Designed for draw through application, the computer selected coil offers greater efficiency in the cooling and dehumidification process. Air bypass is provided to prevent saturated air from being introduced into the controlled space. The coil section is provided with a stainless steel drain pan.

## **FAN SECTION**

The centrifugal, forward curved, double width, double inlet blower configuration is engineered for quiet reliable operation. The belt driven variable pitch drive section provides adjustable air flow capability to match load requirements of the controlled space. The draw through design insures even air distribution across the coil and bypass, low internal cabinet losses, and static sealing of the filter section. Motors are mounted on an adjustable slide base and have internal overload protection.

## FILTER SECTION

Units are provided with 4 inch deep pleated design, 30% efficient filters (based on ASHRAE Std. 52.1-1992). The filter section is an integral part of the system and is accessible from either side.

#### REHEAT

Two stage electric reheat is standard. Low-watt density finned tubular sheathed coils are constructed of stainless steel and sized to maintain room dry bulb conditions during a call for dehumidification. Lowwatt density coils eliminate ionization associated with open air electric resistance heating.

#### REFRIGERATION CIRCUIT

LCS is available with either a single or dual refrigeration circuit. The refrigeration circuit includes a hermetic scroll compressor. These durable, heavy duty, fully welded compressors have no gaskets or seals, eliminating the possibility of refrigerant or oil leaking into the controlled space or environment. Scroll compressors also bring a combination of reliability, efficiency, and improved system sound performance. The refrigeration circuit includes built-in compressor overload protection, crankcase heater, filter drier, sight-glass, adjustable expansion valve with external equalizer, low pressure override timer (air cooled units), manual reset high pressure control, and compressor short cycle timer.

Water/glycol cooled units include a plate fin condenser sized to provide the required capacity for heat rejection with minimum water/glycol flow and low total pressure drop. Head pressure regulating valves control the condensing temperature and maintain required capacity at various water/glycol flow rates and temperatures.

Air Cooled with Remote Outdoor Condenser - A wide range of outdoor condensers are available. Condensers are manufactured by Data Aire and sized to meet heat rejection and ambient conditions as required. The industrial duty design includes galvanized corrosion resistant housing, aluminum finned copper tube coils, coated fan guards, energy efficient thermally protected direct drive motors, and variable fan speed control on lead motor for proper control down to -20° F ambient temperatures. Additional fan motors are controlled with ambient thermostats.

Air Cooled with Outdoor Condensing Unit - When compressors are required to be out of the controlled space, LCS is available with a remote outdoor condensing unit. The condensing unit includes hermetic scroll compressor(s) with built-in overload protection, crankcase heater, filter drier, sight-glass, and condenser coil. The coil is constructed with copper tubes and aluminum fins. The housing is galvanized steel with vertical air discharge. The condenser fan motor is variable speed type for head pressure control down to -20° F ambient temperatures. Additional fan motors are controlled by ambient fan thermostats.

Water/Glycol Cooled with Remote Outdoor Dry Cooler - Remote outdoor dry coolers are available in a variety of sizes. Each dry cooler includes galvanized corrosion resistant housing, aluminum finned copper tube coil, coated fan guards, surge tank, pump contactor, and energy efficient thermally protected direct drive motors. Dry coolers with multiple motors have cycling control.

#### CHILLED WATER SYSTEMS

Chilled water systems include all the same features of the LCS product line. Designed for draw through application, the computer selected coil offers greater efficiency in the cooling and dehumidification process. Air bypass is provided to prevent saturated air from being introduced into the controlled space. Chilled water flow is controlled by a 3-way chilled water valve for accurate and economical temperature control and dehumidification.

## **CONTROL SYSTEM**

Unit control is maintained with the microprocessor based *Mini Data Alarm Processor-II*<sup>TM</sup>. The *Mini Data Alarm Processor-II* is a wall mounted, one row, 16 character control that not only monitors the controlled environment's humidity, air flow, and cleanliness, but also provides alarm history and an automatic self-test of the microprocessor on system start-up. Multiple messages are displayed by automatically scrolling from each message to the next. All messages are presented in a clear vernacular format on the liquid crystal display (LCD). Multiple alarms are displayed sequentially in order of occurrence.

*OPERATION* - A slide switch allows unit ON/OFF operation: push buttons allow menu selection for programming, operational information, diagnostics, and historical data. The two-level password feature prevents unauthorized access. Menu programmed information for basic system operation and alarm parameters is nonvolatile.

*PROGRAMMABLE FUNCTIONS* - The user friendly MENU and SELECT push buttons permit step-by-step programming of the following selections:

Temperature setpoint  $65-85^{\circ}$  F/18.3-29.4° C Temperature deadband  $\pm 1-5^{\circ}$  F/C in  $0.1^{\circ}$  increments

Temperature alarm points Calibrate temperature sensor

Unit start time delay Password - 1st level Audio alarm level Firestat trip temperature Humidity setpoint 30-70% RH Humidity deadband

±1-15% RH in 0.1% increments

Humidity alarm points Calibrate humidity sensor Interstage time delay Password 2nd level Restart mode Local alarm

*DISPLAYED CONDITIONS*, *DATA*, *and FUNCTIONS* - The Mini Data Alarm Processor-II displays and monitors the following conditions, data, and functions:

Temperature setpoints

Current temperature

Current humidity

Current humidity

Cooling 1, 2 (as applicable) Reheat

Humidification Dehumidification

ALARMS - Alarm conditions are displayed and monitored on the microprocessor LCD along with an audible alarm. The alarm silence switch will quiet the audible alarm but the display will continue to indicate the alarm condition until it is corrected. The following alarms are displayed:

High temperature warning
Low temperature warning
Compressor high pressure

High humidity warning
Low humidity warning
High condensate water

Firestat tripped No air flow

Compressor short cycle

Temperature sensor failure

Low voltage warning

Humidity sensor failure

HISTORICAL DATA - Temperature and humidity, with the minimum and maximum readings since the last power on can be recalled and displayed. Alarm history is maintained in sequential order (up to 5 alarms).

## CONTROL SYSTEM, continued

DIAGNOSTICS - Automatic and manual diagnostics sequences simplify troubleshooting.

In addition, the Mini Data Alarm Processor-II has an inclusive seven-day programming format for unoccupied (low demand) periods. This secondary schedule can minimize equipment run times, reducing energy consumption, and provide user cost savings.

The following selections can be adjusted to match the requirements needed for unoccupied (low demand) periods.

Cooling setpoint for secondary schedule

Adjustment range: 1 - 30° F above the "occupied" temperature setpoint Reheat setpoint for secondary schedule

Adjustment range: 1 - 30° F below the "occupied" temperature setpoint Dehumidification setpoint for secondary schedule

Adjustment range: 1 - 30% RH above the "occupied" humidity setpoint Humidification setpoint for secondary schedule

Adjustment range: 1 - 30% RH below the "occupied" humidity setpoint Day schedule

Scheduling for each day of the week or any combination of days "Unoccupied" adjusted setpoint operation

Adjusts to temperature and humidity setpoints to secondary schedule "Unoccupied" ON/OFF operation

During "unoccupied" schedule:

cooling - off heating - off humidification - off dehumidification - off fan - off

Override request Override secondary schedule Adjustment range: 1 - 12 hours



Energy Saver Coil - An Energy Saver Coil can be provided integral to the unit matching the nominal capacity. Energy Saver cooling is available whenever the incoming water/glycol temperature is below the setpoint of the water sensing changeover thermostat. The water sensing changeover thermostat is factory set at 45° F/7.2° C. The water sensing changeover thermostat is field adjustable. The Energy Saver operates during a need for cooling. The Energy Saver valve will open at setpoint plus deadband. When the space temperature falls to setpoint, the valve will close and the space is considered satisfied. While in Energy Saver mode with the valve open, if the incoming water/glycol temperature rises 3° F above the setpoint (of the water sensing thermostat), the Energy Saver valve will close and DX (mechanical) cooling will begin. Option includes a 3-way pressure control valve on the condenser water circuit(s) and a 3-way valve for the economy coil. Common piping for the coil and condensers is provided.

Auxiliary Chilled Water Coil - Where an existing chilled water loop is available, units can be fitted with an auxiliary chilled water coil. Units will operate using the chilled water for cooling. Upon a loss of water flow or an increase in room temperature the system will bring on compressor (DX) cooling. The Auxiliary Chilled Water Coil option includes the next size motor. Separate piping is provided for the chilled water coil and refrigeration connections on air cooled units or water circuit(s) on water/glycol cooled units.

*Unit Mounted Temperature and Humidity Sensors* - Temperature and humidity sensors may be ordered for unit mounting in the return air.

*Unit Mounted Disconnect* - A unit mounted nonautomatic disconnect switch is installed in the high voltage electrical section. The operating mechanism prevents access to the high voltage electrical components until switched to the "OFF" position. The operating mechanism (handle) protrudes through the exterior unit panel.

Hot Water Reheat - Where hot water is available, a water coil for reheat is offered. The coil is designed for 150 psi maximum water pressure and includes a 2-way valve (a 3-way is also available). Units with the hot water reheat do not include electric reheat.

*Hot Gas Reheat* - The unit's hot gas discharge may be used for reheat for maximum system efficiency.

Steam Generator Humidifier - Units may be furnished with an electric steam generator humidifier with "quick change" disposable cylinders and autoflush cycle. The steam generator humidifier with its patented control system optimizes cylinder life by concentrating incoming water to a predetermined conductivity much higher than that of any entering water. The control system continuously monitors the conductivity in the cylinder through its electronics which allows water to be flushed as often as is necessary to maintain the level at this design conductivity. The high design conductivity results in a minimum flushing of heated water which saves energy. The humidifier is designed to allow all units at any voltage to produce full rated steam output at an optimum low water level. Available in 10 and 30 pound per hour capacities.

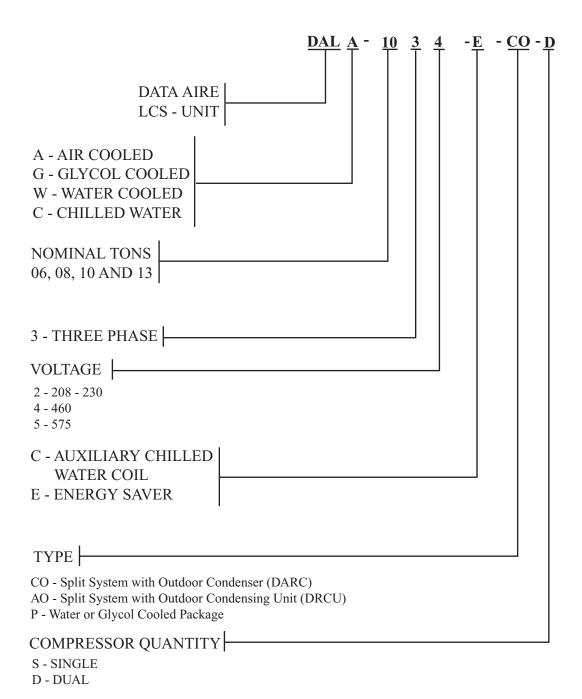
Hot Gas Bypass - Hot gas bypass may be ordered for changing load conditions. The hot gas bypass valve is installed between the compressor discharge line and the leaving side of the expansion valve through a side outlet distributor. The system with the evaporator under full load will maintain pressure on the leaving side of the hot gas bypass valve to keep the valve port closed. Should the load on the evaporator decrease to the point where the coil is below the desired setting, the pressure on the discharge of the hot gas bypass will put pressure on the diaphragm overcoming the spring pressure of the seat and allowing some hot gas to mix with the normal liquid discharge of the expansion valve raising the evaporator pressure. This reduces the cooling capacity of the unit to match the load. The hot gas bypass valve can be adjusted to "fine tune" the unit to room conditions.

**3-Way Water Regulating Valve** - A 3-way water regulating valve for pressure control may be ordered to replace standard 2-way valve installed in the unit. The 3-way valve controls the water/glycol flow rate to maintain the required capacity under varying conditions.

Condensate Pump - Condensate pumps may be ordered as factory installed or for field installation. Condensate pumps are complete with sump, motor, and automatic control. The pumps are rated for 130 GPM @ 20 foot maximum or 40 GPH @ 20 feet with check valve. Pumps shipped loose are available in 115, 230, or 460 volt.

**Extended Compressor Warranty** - An extended compressor warranty for a period of four (4) years is available in addition to the standard one (1) year warranty. The warranty is for replacement of compressors and does not include labor.

# LCS - (Large Ceiling System)



MODEL NUMBER:	DALA-	06-CO-S	08-CO-S	10-CO-S	13-CO-S
CAPACITY in Btu/hr - gross					
80° DB/67° WB Total		84,300	108,000	145,300	175,800
50% RH Sensible		63,300	79,800	107,400	131,600
75° DB/62.5° WB Total		76,400	99,300	134,100	161,900
50% RH Sensible		61,700	78,400	105,800	129,300
75° DB/61° WB Total		74,100	96,200	130,100	157,400
45% RH Sensible		65,600	83,100	112,200	137,500
72° DB/60° WB Total		73,000	94,700	127,500	154,300
50% RH Sensible		60,500	76,800	103,500	126,600
72° DB/58.6°WB Total		71,000	92,100	124,800	150,300
45% RH Sensible		64,100	81,300	109,800	134,200
BLOWER SECTION					
Airflow - CFM		2,500	3,000	4,000	5,000
Standard motor - horsepower		2	2	3	5
External Static Pressure (E.S.P.) - inches	of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1	1/1
Maximum E.S.P. (Stan	dard Motor)	0.9	1.3	1.4	1.1
	t Size Motor)	0.9	1.3	1.5	1.1
Next size motor - horsepower		3	3	5	7.5
COMPRESSORS					
Type		Scroll	Scroll	Scroll	Scroll
Quantity		1	1	1	1
Refrigerant type		R-407C	R-407C	R-407C	R-407C
EVAPORATOR COIL					
		10.0	10.0	10.0	10.0
Face area - sq ft		12.2	12.2	12.2	12.2
Rows of coil		3	4	5	5
Face velocity - fpm		205	246	328	410
REHEAT SECTION					
Electric		C4 1 1	Ct. 1 1	04-1-1	Q. 1 1
Electric		Standard	Standard	Standard	Standard
kW		15	15 51 225	15	15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
	ıstable)	10	10	10	10
kW		3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
	istable)	10-30	10-30	10-30	10-30
	,	10			

MODEL NUMBER:	DALA-	06-CO-S	08-CO-S	10-CO-S	13-CO-S
FILTER SECTION	]				
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - percentage		30	30	30	30
CONNECTION SIZES	]				
Liquid line - O.D. Copper		1/2	5/8	5/8	5/8
Hot gas line - O.D. Copper		1/2	3/4	3/4	3/4
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
(Note: Refer to Operation and Maintenance	e manual for recon	nmended pipe sizing betw	een unit and condenser s	ection)	
ELECTRICAL SECTION	Sta	andard Motor			

ELECTRICAL SE	CHON	Stall	dard Motor						
Electrical data based on: electric reheat - YES, 10 lb/hr steam generator humidifier -YES, and STANDARD MOTOR.									
208-230/3/60	FLA/MCA/N		66/81/90	76/94/110	88/108/125	97/118/125			
460/3/60	FLA/MCA/M	IOP	32/39/45	37/45/50	40/49/60	47/57/70			
575/3/60	FLA/MCA/M	IOP	25/31/35	28/35/40	34/42/50	38/46/50			
Electrical data based on:	: electric reheat	- <b>YES</b> , 30 lb/hr	steam generator h	numidifier - YES, a	nd STANDARD MO	OTOR.			
208-230/3/60	FLA/MCA/N	IOP	66/81/90	76/94/110	88/108/125	97/118/125			
460/3/60	FLA/MCA/N	IOP	32/39/45	37/45/50	40/49/60	47/57/70			
575/3/60	FLA/MCA/N	IOP	25/31/35	28/35/40	34/42/50	38/46/50			
Electrical data based on:	: electric reheat	- <b>NO</b> , 10 lb/hr s	team generator hu	ımidifier - <u>YES</u> , an	d STANDARD MO	TOR.			
208-230/3/60	FLA/MCA/N		41/50/60	51/62/80	63/76/100	72/86/110			
460/3/60	FLA/MCA/N	IOP	21/25/30	25/31/40	29/35/50	36/43/60			
575/3/60	FLA/MCA/N	IOP	16/19/25	19/23/30	25/30/40	29/34/50			
Electrical data based on:	: electric reheat	- <b>NO</b> , 30 lb/hr s		<u>ımidifier - <b>YES</b>, an</u>	d STANDARD MO	TOR.			
208-230/3/60	FLA/MCA/N	IOP	53/65/70	63/77/90	75/91/110	84/101/125			
460/3/60	FLA/MCA/N	IOP	26/32/35	31/37/45	34/42/50	41/50/60			
575/3/60	FLA/MCA/N	IOP	20/25/30	24/29/35	29/35/45	33/40/50			
Electrical data based on:	: electric reheat	- YES, steam ge	enerator humidifie	er - <u>NO</u> , and STAN	DARD MOTOR.				
208-230/3/60	FLA/MCA/N		66/81/90	76/94/110	88/108/125	97/118/125			
460/3/60	FLA/MCA/N	IOP	32/39/45	37/45/50	40/49/60	47/57/70			
575/3/60	FLA/MCA/N		25/31/35	28/35/40	34/42/50	38/46/50			
Electrical data based on:	: electric reheat	- NO, steam ger	<u>nerator humidifier</u>	- NO, and STAND	OARD MOTOR.				
208-230/3/60	FLA/MCA/N		25/29/45	35/42/70	46/56/90	56/66/100			
460/3/60	FLA/MCA/N		13/16/25	18/21/35	21/26/40	28/34/50			
575/3/60	FLA/MCA/N	IOP	10/12/15	13/16/25	19/23/35	23/27/40			
STANDARD MOT	TOR								
Horsepower			2	2	3	5			
208-230/3/60	FLA		6.0	6.0	8.4	14.8			
460/3/60	FLA		3.0	3.0	4.2	6.6			
575/3/60	FLA		2.5	2.5	3.3	5.3			

MODEL NUMBER:	DAL	A- 06-CO-S	08-CO-S	10-CO-S	13-CO-S
ELECTRICAL SEC	CTION	<b>Next Size Motor</b>			
Electrical data based on:	electric reheat - YES	5, 10 lb/hr steam genera	tor humidifier - YES	, and NEXT SIZE M	MOTOR.
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	103/123/150
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	51/61/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	41/49/60
Electrical data base on:	electric reheat -YES,	30 lb/hr steam generato	r humidifier - YES,	and NEXT SIZE MC	OTOR.
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	103/123/150
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	51/61/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	41/49/60
Electrical data based on:	electric reheat - NO	, 10 lb/hr steam generat	tor humidifier -YES,	and NEXT SIZE M	OTOR.
208-230/3/60	FLA/MCA/MOP	43/52/60	54/65/80	69/82/110	77/92/125
460/3/60	FLA/MCA/MOP	22/26/30	26/32/40	31/37/50	39/47/60
575/3/60	FLA/MCA/MOP	17/20/25	20/24/30	27/32/45	32/38/50
Electrical data based on:	electric reheat - NO,	30 lb/hr steam generate	or humidifier - YES,	and NEXT SIZE M	OTOR.
208-230/3/60	FLA/MCA/MOP	55/67/70	66/80/100	81/97/125	89/107/125
460/3/60	FLA/MCA/MOP	27/33/40	32/39/50	37/44/50	45/53/70
575/3/60	FLA/MCA/MOP	21/25/30	24/30/35	31/37/50	36/43/50
Electrical data based on:	electric reheat - YES	S, steam generator humi	difier - NO, and NE	XT SIZE MOTOR.	
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	103/123/150
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	51/61/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	41/49/60
Electrical data based on:	electric reheat - NO,	steam generator humid	lifier - NO, and NEX	T SIZE MOTOR.	
208-230/3/60	FLA/MCA/MOP	27/32/50	37/44/70	53/62/90	61/71/110
460/3/60	FLA/MCA/MOP	15/17/25	19/23/35	24/28/45	32/37/50
575/3/60	FLA/MCA/MOP	11/13/15	14/17/25	21/25/40	26/30/45
NEXT SIZE MOTO	)D				
NEAT SIZE MOTO	JK				
Horsepower		3	3	5	7.5
208-230/3/60	FLA	8.4	8.4	14.8	20.0
460/3/60	FLA	4.2	4.2	6.6	10.1
575/3/60	FLA	3.3	3.3	5.3	8.6
373/3/00	TLA	3.3	5.5	3.3	0.0
COMPRESSOR					
	_				
208-230/3/60	FLA	18.6	28.8	37.8	41.0
460/3/60	FLA	10.3	14.7	17.2	21.8
575/3/60	FLA	7.4	10.8	15.5	17.3
AIR COOLED CO	NDENSER				
Condenser selection at 95	5° E ambient	DARC-06	DARC-09	DARC-11	DARC-15
Condenser selection at 93		DARC-06 DARC-07	DARC-09 DARC-11	DARC-11 DARC-15	DARC-13 DARC-17
Condenser selection at 10		DARC-11	DARC-11 DARC-15	DARC-13 DARC-17	DARC-17 DARC-21
Condenser selection at 10	) F amoient	DARC-11	DARC-13	DARC-1/	DAKC-21

(Notes: Condensers are not available in 575 volts. Condensers are selected at sea level. Refer to page 64 for electrical data.)

MODEL NUMBER:	DALA-	06-CO-S	08-CO-S	10-CO-S	13-CO-S
CAPACITY in Btu/hr - gross					
80° DB/67° WB Total		86,000	112,200	149,300	178,000
50% RH Sensible		69,800	88,700	118,300	138,500
75° DB/62.5° WB Total		78,900	102,700	138,100	164,000
50% RH Sensible		68,300	86,800	116,300	136,100
75° DB/61° WB Total		76,400	99,600	134,000	159,500
45% RH Sensible		72,900	92,500	124,000	145,000
72° DB/60° WB Total		74,800	97,400	131,300	156,300
50% RH Sensible		66,600	84,700	113,600	133,100
72° DB/58.6° WB Total		73,300	94,700	127,700	152,300
45% RH Sensible		71,100	90,000	120,800	141,400
BLOWER SECTION					
Airflow - CFM		3,000	3,600	4,750	5,500
Standard motor - horsepower		2	3	5	5
External Static Pressure (E.S.P.) - inches	of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1	1/1
Maximum E.S.P. (Standard	d Motor)	1.3	1.5	1.5	0.8
Maximum E.S.P. (Next Size	e Motor)	1.3	1.5	1.5	0.8
Next size motor - horsepower		3	5	7.5	7.5
COMBDESSOR					
COMPRESSOR					
Type		Scroll	Scroll	Scroll	Scroll
Quantity		1	1	1	1
Refrigerant type		R-407C	R-407C	R-407C	R-407C
EVAPORATOR COIL					
Face velocity - sq ft		12.2	12.2	12.2	12.2
Rows of coils		3	4	5	5
Face velocity - fpm		246	295	389	451
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		Standard 15	Standard 15	Standard 15	Standard 15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator		Optional	Optional	Optional	Optional
Steam generator kW		3.4	3.4	3.4	3.4
	justable)	10	10	10	10
kW	<i>μ</i> ανια <i>υτ</i> ε <i>)</i>	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
	justable)	10-30	10-30	10-30	10-30
Capacity - 10/111 (Au	jusiuvie j	10-30	10-30	10-30	10-30

MODEL NUMBER:	DAL	4- 06-CO-S	08-CO-S	10-CO-S	13-CO-S
FILTER SECTION	N				
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - percentage		30	30	30	30
(Note: Efficiency based of	on ASHRAE Std. 52.1-1992.)				
CONNECTION SI	ZES				
Liquid line - O.D. Coppe	er	1/2	5/8	5/8	5/8
Hot gas line - O.D. Copp		1/2	3/4	3/4	3/4
Condensate drain line		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
(Note: Refer to Operatio	n and Maintenance manual	for recommended pipe sizing	between unit and conder	nser section.)	
ELECTRICAL SE	CTION	Standard Motor			
Electrical data based on:	electric reheat - YES	, 10 lb/hr steam genera	tor humidifier - YES	s, and STANDARD	MOTOR.
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	97/118/125
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	47/57/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	38/46/50
Electrical data based on:	electric reheat - YES	, 30 lb/hr steam genera	tor humidifier - YES	and STANDARD	MOTOR.
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	97/118/125
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	47/57/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	38/46/50
Electrical data based on:	electric reheat - NO,		or humidifier - YES,	and STANDARD N	<u>IOTOR.</u>
208-230/3/60	FLA/MCA/MOP	43/52/60	54/65/80	69/82/110	72/86/110
460/3/60	FLA/MCA/MOP	22/26/30	26/32/40	31/37/50	36/43/60
575/3/60	FLA/MCA/MOP	17/20/25	20/24/30	27/32/45	29/34/50
Electrical data based on:	electric reheat - NO,	30 lb/hr steam generate	or humidifier - YES,	and STANDARD N	<u>IOTOR.</u>
208-230/3/60	FLA/MCA/MOP	55/67/70	66/80/100	81/97/125	84/101/125
460/3/60	FLA/MCA/MOP	27/33/40	32/39/50	37/44/50	41/50/60
575/3/60	FLA/MCA/MOP	21/25/30	24/30/35	31/37/50	33/40/50
Electrical data based on:		_	difier - <b>NO</b> , and STA		
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	97/118/125
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	47/57/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	38/46/50
Electrical data base on:		_		IDARD MOTOR.	
208-230/3/60	FLA/MCA/MOP	27/32/50	37/44/70	53/62/90	56/66/100
460/3/60	FLA/MCA/MOP	15/17/25	19/23/35	24/28/45	28/34/50
575/3/60	FLA/MCA/MOP	11/13/15	14/17/25	21/25/40	23/27/40
STANDARD MOT	OR				
Horsepower		3	3	5	5
208-230/3/60	FLA	8.4	8.4	14.8	14.8
460/3/60	FLA	4.2	4.2	6.6	6.6
575/3/60	FLA	3.3	3.3	5.3	5.3
31313100	LA	3.3	3.3	3.3	3.3

MODEL NUMBER:	DALA-	06-CO-S	08-CO-S	10-CO-S	13-CO-S				
ELECTRICAL SE	CTION	Next Size Motor							
Electrical data based on:	Electrical data based on: electric reheat - YES, 10 lb/hr steam generator humidifier - YES, and NEXT SIZE MOTOR.								
208-230/3/60	FLA/MCA/MOP	75/90/100	85/103/110	99/119/125	103/123/150				
460/3/60	FLA/MCA/MOP	36/43/45	40/49/50	46/55/60	51/61/70				
575/3/60	FLA/MCA/MOP	28/33/35	31/38/40	39/47/50	41/49/60				
Electrical data based on:	electric reheat - YES, 3	30 lb/hr steam genera	tor humidifier - YES	and NEXT SIZE M	<u>IOTOR.</u>				
208-230/3/60	FLA/MCA/MOP	75/90/100	85/103/110	99/119/125	103/123/150				
460/3/60	FLA/MCA/MOP	36/43/45	40/49/50	46/55/60	51/61/70				
575/3/60	FLA/MCA/MOP	28/33/35	31/38/40	39/47/50	41/49/60				
Electrical data based on:	electric reheat - NO, 10	O lb/hr steam generate	or humidifier - YES,	and NEXT SIZE M	OTOR.				
208-230/3/60	FLA/MCA/MOP	50/58/70	60/71/90	74/88/110	77/92/125				
460/3/60	FLA/MCA/MOP	24/29/35	29/34/45	35/41/50	39/47/60				
575/3/60	FLA/MCA/MOP	19/22/25	22/26/35	30/35/45	32/38/50				
Electrical data based on:	electric reheat - NO, 30	O lb/hr steam generate	or humidifier - YES,	and NEXT SIZE M	OTOR.				
208-230/3/60	FLA/MCA/MOP	62/73/80	72/86/100	86/103/125	89/107/125				
460/3/60	FLA/MCA/MOP	30/35/40	34/41/50	40/48/60	45/53/70				
575/3/60	FLA/MCA/MOP	23/27/30	26/32/35	34/41/50	36/43/50				
Electrical data based on:	electric reheat - YES, s	steam generator humi	difier - NO, and NE	XT SIZE MOTOR.					
208-230/3/60	FLA/MCA/MOP	75/90/100	85/103/110	99/119/125	103/123/150				
460/3/60	FLA/MCA/MOP	36/43/45	40/49/50	46/55/60	51/61/70				
575/3/60	FLA/MCA/MOP	28/33/35	31/38/40	39/47/50	41/49/60				
Electrical data based on:	electric reheat - NO, st	eam generator humid	ifier - NO, and NEX	T SIZE MOTOR.					
208-230/3/60	FLA/MCA/MOP	33/38/50	44/51/70	58/67/100	61/71/110				
460/3/60	FLA/MCA/MOP	17/19/25	21/25/35	27/32/45	32/37/50				
575/3/60	FLA/MCA/MOP	13/15/20	16/19/25	24/28/40	26/30/45				
NEXT SIZE MOTO	OR								
11		~	~	7.5	7.5				
Horsepower		5	5	7.5	7.5				
208-230/3/60	FLA	14.8	14.8	20.0	20.0				
460/3/60	FLA	6.6	6.6	10.1	10.1				
575/3/60	FLA	5.3	5.3	8.6	8.6				
GOLEDDEGGOD									
COMPRESSOR									
208-230/3/60	FLA	18.6	28.8	37.8	41.0				
460/3/60	FLA	10.3	14.7	17.2	21.8				
575/3/60	FLA	7.4	10.8	15.5	17.3				
313/3/00	T L/X	7.4	10.0	13.3	17.3				
REMOTE CONDE	NSER								
Condenser selection at 95	5° F ambient	DARC-06	DARC-09	DARC-11	DARC-15				
Condenser selection at 10		DARC-00 DARC-07	DARC-09 DARC-11	DARC-11 DARC-15	DARC-13 DARC-17				
Condenser selection at 10		DARC-07 DARC-11	DARC-11 DARC-15	DARC-13 DARC-17	DARC-17 DARC-21				
Condenser selection at 10	55 1. amorem	DARC-11	DARC-13	DARC-1/	DARC-21				

(Notes: Condensers are not available in 575 volts. Condensers are selected at sea level. Refer to page 64 for electrical data.)

MODEL NUMBER:	DALA-	06-CO-D	08-CO-D	10-CO-D	13-CO-D
CAPACITY in BTU/hr - gross					
80° DB/67° WB Total		79,300	106,600	135,600	167,200
50% RH Sensible		61,400	79,300	103,700	128,200
75° DB/62.5° WB Total		72,600	98,000	124.300	153,800
50% RH Sensible		60,100	77,900	101,600	125,900
75° DB/61° WB Total		70,500	94,300	121,400	149,500
45% RH Sensible		64,000	82,300	108,400	134,000
72° DB/60° WB Total		69,400	92,900	118,900	146,500
50% RH Sensible		58,900	76,000	108,400	123,200
72° DB/58.6° WB Total		67,500	90,900	115,600	143,500
45% RH Sensible		62,600	80,700	105,600	131,100
DI OWED GEOTION					
BLOWER SECTION					
Airflow - CFM		2,500	3,000	4,000	5,000
Standard motor - horsepower		2	2	3	5
External Static Pressure (E.S.P.) - inches	of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1	1/1
Maximum E.S.P (Standard		0.9	1.3	1.4	1.1
Maximum E.S.P. (Next Size	(Motor)	0.9	1.3	1.5	1.1
Next size motor - horsepower		3	3	5	7.5
GOLWANDEGGONG					
COMPRESSORS					
Type		Scroll	Scroll	Scroll	Scroll
Quantity		2	2	2	2
Refrigerant type		R-407C	R-407C	R-407C	R-407C
EWADOD ATOD COM					
EVAPORATOR COIL					
Face area - sq ft		12.2	12.2	12.2	12.2
Rows of coils		3	4	5	5
Face velocity - fpm		205	246	328	410
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		15	15	15	15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
Capacity - lb/hr (Adju	ustable)	10	10	10	10
kW		3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr (Adju	ustable)	10-30	10-30	10-30	10-30
		10			

MODEL NUMBER:	DALA-	06-CO-D	08-CO-D	10-CO-D	13-CO-D
FILTER SECTION					
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - Inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - percentage		30	30	30	30
(Note: Efficiency based on ASHRAE)	Std. 52.1-1992.)				
CONNECTION SIZES					
Liquid line - O.D. Copper		1/2	1/2	1/2	1/2
Hot gas line - O.D. Copper		1/2	1/2	1/2	1/2
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4

(Note: Refer to Operation and Maintenance manual for recommended pipe sizing between unit and condenser section.)

ELECTRICAL S	SECTION	<b>Standard Motor</b>					
Electrical data base on	n: electric reheat - <b>YES</b> , 1	10 lb/hr steam generator	humidifier - YES,	and STANDARD M	OTOR.		
208-230/3/60	FLA/MCA/MOP	58/71/80	61/75/80	67/82/90	75/90/100		
460/3/60	FLA/MCA/MOP	27/33/35	29/36/40	32/39/40	36/43/45		
575/3/60	FLA/MCA/MOP	22/27/30	23/29/30	25/31/35	28/33/35		
Electrical data based of	on: electric reheat - YES,	30 lb/hr steam generato	r humidifier - YES	and STANDARD I	MOTOR.		
208-230/3/60	FLA/MCA/MOP	58/71/80	61/75/80	71/83/90	80/92/100		
460/3/60	FLA/MCA/MOP	27/33/35	29/36/40	35/40/45	40/46/50		
575/3/60	FLA/MCA/MOP	22/27/30	23/29/30	28/32/35	30/35/40		
Electrical data based of	on: electric reheat - NO,	10 lb/hr steam generator	humidifier - YES,	and STANDARD M	IOTOR.		
208-230/3/60	FLA/MCA/MOP	43/50/60	49/57/60	59/68/80	68/77/90		
460/3/60	FLA/MCA/MOP	21/24/25	25/29/30	30/34/40	35/39/45		
575/3/60	FLA/MCA/MOP	17/19/20	20/23/25	23/27/30	26/29/35		
Electrical data based of	on: electric reheat - NO,	30 lb/hr steam generator	humidifier - YES,	and STANDARD M	IOTOR.		
208-230/3/60	FLA/MCA/MOP	55/65/70	61/72/80	71/83/90	80/92/100		
460/3/60	FLA/MCA/MOP	26/30/35	31/36/40	35/40/45	40/46/50		
575/3/60	FLA/MCA/MOP	21/25/30	24/28/30	28/32/35	30/35/40		
	on: electric reheat - YES,	_					
208-230/3/60	FLA/MCA/MOP	58/71/80	61/75/80	67/82/90	75/90/100		
460/3/60	FLA/MCA/MOP	27/33/35	29/36/40	32/39/40	36/43/45		
575/3/60	FLA/MCA/MOP	22/27/30	23/29/30	25/31/35	28/33/35		
Electrical data based of	on: electric reheat - NO, s		ier - <u>NO</u> , and STAN	NDARD MOTOR.			
208-230/3/60	FLA/MCA/MOP	27/29/35	33/36/45	43/47/60	52/57/70		
460/3/60	FLA/MCA/MOP	13/14/15	18/20/25	22/24/30	27/30/40		
575/3/60	FLA/MCA/MOP	11/12/15	14/16/20	18/19/25	20/22/25		
STANDARD MOTOR							
Horsepower		2	2	3	5		
208-230/3/60	FLA	6.0	6.0	8.4	14.8		
460/3/60	FLA	3.0	3.0	4.2	6.6		
575/3/60	FLA	2.0	2.5	3.3	5.3		

MODEL NUMBER:	DALA-	06-CO-D	08-CO-D	10-CO-D	13-CO-D
ELECTRICAL SE	CTION	Next Size Motor			
Electrical data based on:	electric reheat - YES, 1	0 lb/hr steam generator	humidifier - YES, a	and NEXT SIZE MO	OTOR.
208-230/3/60	FLA/MCA/MOP	60/73/80	64/77/80	74/89/90	80/96/100
460/3/60	FLA/MCA/MOP	28/34/35	30/37/40	34/41/45	39/47/50
575/3/60	FLA/MCA/MOP	23/27/30	24/29/30	27/33/35	31/37/40
Electrical data based on:			humidifier - YES, a		
208-230/3/60	FLA/MCA/MOP	60/73/80	64/77/80	78/89/90	86/98/100
460/3/60	FLA/MCA/MOP	28/34/35	30/37/40	37/43/45	44/49/50
575/3/60	FLA/MCA/MOP	23/27/30	24/29/30	30/34/35	34/38/40
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	45/52/60	52/59/60	66/74/80	74/83/90
460/3/60	FLA/MCA/MOP	22/25/30	26/30/35	32/36/40	38/43/50
575/3/60	FLA/MCA/MOP	18/20/25	21/24/25	25/29/30	29/33/40
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	57/67/70	64/74/80	78/89/90	86/98/100
460/3/60	FLA/MCA/MOP	27/32/35	32/37/40	37/43/45	44/49/50
575/3/60	FLA/MCA/MOP	22/26/30	25/29/30	30/34/35	34/38/40
Electrical data based on:					21/30/10
208-230/3/60	FLA/MCA/MOP	60/73/80	64/77/80	74/89/90	80/96/100
460/3/60	FLA/MCA/MOP	28/34/35	30/37/40	34/41/45	39/47/50
575/3/60	FLA/MCA/MOP	23/27/30	24/29/30	27/33/35	31/37/40
Electrical data based on:					31/3// 10
208-230/3/60	FLA/MCA/MOP	29/32/40	35/39/50	49/54/70	57/62/80
460/3/60	FLA/MCA/MOP	14/16/20	19/21/25	25/27/35	31/33/40
575/3/60	FLA/MCA/MOP	12/13/15	15/16/20	20/21/25	23/26/30
		12/13/13	13/10/20	20/21/23	23/20/30
NEXT SIZE MOTO	OR				
Horsepower		3	3	5	7.5
208-230/3/60	FLA	8.4	8.4	14.8	20.0
460/3/60	FLA	4.2	4.2	6.6	10.1
575/3/60	FLA	3.3	3.3	5.3	8.6
272707	1 2.1				0.0
COMPRESSOR					
COMI KESSOK					
208-230/3/60	FLA	10.3	13.5	17.3	18.6
460/3/60	FLA	5.1	7.4	9.0	10.3
575/3/60	FLA	4.2	5.8	7.1	7.4
373/3/00	ГLA	4.2	3.0	7.1	7.4
REMOTE CONDE	NSER				
REMOTE CONDE	AUDER				
Condenser selection at 95	5° F ambient	DARC-06	DARC-09	DARC-11	DARC-15
Condenser selection at 10	00° F ambient	DARC-07	DARC-11	DARC-15	DARC-17
Condenser selection at 10	05° F ambient	DARC-11	DARC-15	DARC-17	DARC-21

(Notes: Condensers are not available in 575 volts. Condensers are selected at sea level. Refer to page 65 for electrical data.)

FLA - Full load amps MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

MODEL NUMBER:	DALA-	06-CO-D	08-CO-D	10-CO-D	13-CO-D
CAPACITY in Btu/hr - gross	]				
80° DB/67° WB       Total         50% RH       Sensible         75° DB/62.5° WB       Total         50% RH       Sensible         75° DB/61° WB       Total         45% RH       Sensible         72° DB/60° WB       Total         50% RH       Sensible         72° DB/58.6° WB       Total         45% RH       Sensible	- - -	81,500 68,100 75,200 66,800 72,800 71,400 71,100 65,000 69,200 68,900	110,600 88,100 101,200 86,200 98,100 91,900 96,000 84,100 93,300 89,400	139,200 114,500 127,700 112,100 123,900 119,700 122,200 109,700 118,800 116,800	169,800 135,400 156,300 132,900 152,000 141,800 148,000 129,500 145,000 138,200
	es of W.G.  rd Motor) (ze Motor)	3,000 2 0.5 1/1 1.3 1.3	3,600 3 0.5 1/1 1.5 1.5	4,750 5 0.5 1/1 1.5 1.5 7.5	5,500 5 0.5 1/1 0.8 0.8 7.5
COMPRESSORS	]				
Type Quantity Refrigerant type		Scroll 2 R-407C	Scroll 2 R-407C	Scroll 2 R-407C	Scroll 2 R-407C
EVAPORATOR COIL	]				
Face area - sq ft Rows of coils Face velocity - fpm		12.2 3 246	12.2 4 295	12.2 5 389	12.2 5 451
REHEAT SECTION	]				
Electric kW Capacity - Btu/hr		Standard 15 51,225	Standard 15 51,225	Standard 15 51,225	Standard 15 51,225
HUMIDIFIER SECTION	]				
kW	djustable) djustable)	Optional 3.4 10 3.4-10.2 10-30	Optional 3.4 10 3.4-10.2 10-30	Optional 3.4 10 3.4-10.2 10-30	Optional 3.4 10 3.4-10.2 10-30

MODEL NUMBER:	DAL	4- 06-CO-D	08-CO-D	10-CO-D	13-CO-D
FILTER SECTION	N .				
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - percentage		30	30	30	30
(Note: Efficiency based of	on ASHRAE Std. 52.1-1992.)	)			
CONNECTION SI	ZES				
Liquid line - O.D. Coppe	er	1/2	1/2	1/2	1/2
Hot gas line - O.D. Copp		1/2	1/2	1/2	1/2
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
(Note: Refer to Operatio	n and Maintenance manual	for recommended pipe sizing	g between unit and conde	nser section.)	
	OFFICE OF THE PROPERTY OF THE	a			
ELECTRICAL SE	CTION	Standard Motor			
Electrical data based on:	electric reheat - YES.	, 10 lb/hr steam genera	tor humidifier - YES	s, and STANDARD	MOTOR.
208-230/3/60	FLA/MCA/MOP	60/73/80	64/77/80	74/89/90	75/90/100
460/3/60	FLA/MCA/MOP	28/34/35	30/37/40	34/41/45	36/43/45
575/3/60	FLA/MCA/MOP	23/27/30	24/29/30	27/33/35	28/33/35
Electrical data based on:	electric reheat - YES.	, 30 lb/hr steam genera	tor humidifier - YES	s, and STANDARD	MOTOR.
208-230/3/60	FLA/MCA/MOP	60/73/80	64/77/80	78/89/90	80/92/100
460/3/60	FLA/MCA/MOP	28/34/35	30/37/40	37/43/45	40/46/50
575/3/60	FLA/MCA/MOP	23/27/30	24/29/30	30/34/35	30/35/40
Electrical data based on:		_			
208-230/3/60	FLA/MCA/MOP	45/52/60	52/59/60	66/74/80	68/77/90
460/3/60	FLA/MCA/MOP	22/25/25	26/30/35	32/36/40	35/39/45
575/3/60	FLA/MCA/MOP	18/20/25	21/24/25	25/29/30	26/29/35
Electrical data based on:		_			
208-230/3/60	FLA/MCA/MOP	57/67/70	64/74/80	78/89/90	80/92/100
460/3/60	FLA/MCA/MOP	27/32/35	32/37/40	37/43/45	40/46/50
575/3/60	FLA/MCA/MOP	22/26/30	25/29/30	30/34/35	30/35/40
Electrical data based on:		•			77/00/100
208-230/3/60	FLA/MCA/MOP	60/73/80	64/77/80	74/89/90	75/90/100
460/3/60	FLA/MCA/MOP	28/34/35	30/37/40	34/41/45	36/43/45
575/3/60	FLA/MCA/MOP	23/27/30	24/29/30	27/33/35 ND ADD MOTOR	28/33/35
Electrical data based on:		•			52/57/70
208-230/3/60	FLA/MCA/MOP	29/32/40	35/39/50	49/54/70	52/57/70
460/3/60	FLA/MCA/MOP	14/16/20	19/21/25	25/27/35	27/30/40
575/3/60	FLA/MCA/MOP	12/13/15	15/16/20	20/21/25	20/22/25
STANDARD MOT	OR				
Horsepower		3	3	5	5
208-230/3/60	FLA	8.4	8.4	14.8	14.8
460/3/60	FLA	4.2	4.2	6.6	6.6
575/3/60	FLA	3.3	3.3	5.3	5.3
57575750		5.5	3.3	5.5	5.5

MCA - Minimum circuit amps (wire sizing amps)

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MOP - Maximum Rating of the Overcurrent Protective Device

FLA - Full load amps

MODEL NUMBER: DALA- 06	6-CO-D 08-CO-L	D 10-CO-D 13-CO-D
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ELECTRICAL (	SECTION	Nort Cine Meter			
ELECTRICAL S	SECTION	Next Size Motor			
	on: electric reheat - YES, 10				
208-230/3/60	FLA/MCA/MOP	67/81/90	70/84/90	79/94/100	80/96/100
460/3/60	FLA/MCA/MOP	31/37/40	33/39/40	38/45/50	39/47/50
575/3/60	FLA/MCA/MOP	25/30/35	26/31/35	31/37/40	31/37/40
	on: electric reheat - YES, 30				
208-230/3/60	FLA/MCA/MOP	67/81/90	70/84/90	83/95/100	86/98/100
460/3/60	FLA/MCA/MOP	31/37/40	33/39/40	41/47/50	44/49/50
575/3/60	FLA/MCA/MOP	25/30/35	26/31/35	33/38/40	34/38/40
	on: electric reheat - NO, 101				
208-230/3/60	FLA/MCA/MOP	52/60/70	58/66/70	71/80/90	74/83/90
460/3/60	FLA/MCA/MOP	24/28/30	29/32/35	35/40/45	38/43/50
575/3/60	FLA/MCA/MOP	20/22/25	23/26/30	29/32/35	29/33/40
	on: electric reheat - NO, 30 l			NEXT SIZE MOT	
208-230/3/60	FLA/MCA/MOP	64/75/80	70/81/90	83/95/100	86/98/100
460/3/60	FLA/MCA/MOP	30/34/35	34/39/40	41/47/50	44/49/50
575/3/60	FLA/MCA/MOP	24/28/30	27/31/35	33/38/40	34/38/40
Electrical data based of	on: electric reheat -YES, stea			IZE MOTOR.	
208-230/3/60	FLA/MCA/MOP	67/81/90	70/84/90	79/94/100	80/96/100
460/3/60	FLA/MCA/MOP	31/37/40	33/39/40	38/45/50	39/47/50
575/3/60	FLA/MCA/MOP	25/30/35	26/31/35	31/37/40	31/37/40
Electrical data based of	on: electric reheat - NO, stea	m generator humidifier	- NO, and NEXT S	IZE MOTOR	
208-230/3/60	FLA/MCA/MOP	35/39/50	42/46/60	55/60/70	57/62/80
460/3/60	FLA/MCA/MOP	17/18/25	21/23/30	28/31/40	31/33/40
575/3/60	FLA/MCA/MOP	14/15/20	17/18/20	23/25/30	23/26/30
NEXT SIZE MO	OTOR				
11		~	~	7. 7	7.5
Horsepower	T7 A	5	5	7.5	7.5
208-230/3/60	FLA	14.8	14.8	20.0	20.0
460/3/60	FLA	6.6	6.6	10.1	10.1
575/3/60	FLA	5.3	5.3	8.6	8.6
COMPRESSOR					
208-230/3/60	FLA	10.3	13.5	17.3	18.6
460/3/60	FLA	5.1	7.4	9.0	10.3
575/3/60	FLA	4.2	5.8	7.1	7.4
REMOTE CON	DENSER				
	on at 95° F ambient	DARC-06	DARC-09	DARC-11	DARC-15
	on at 100° F ambient	DARC-07	DARC-11	DARC-15	DARC-17
Condenser selecti	on at 105° F ambient	DARC-11	DARC-15	DARC-17	DARC-21

(Notes: Condensers are not available in 575 volts. Condensers are selected at sea level. Refer to page 65 for electrical data.)

MODEL NUMBER:	DALA-	06-AO-S	08-AO-S	10-AO-S	13-AO-S
CAPACITY in Btu/hr - gross					
80° DB/67° WB Total 50% RH Sensible		83,000 62,800	103,400 78,000	144,900 107,300	175,800 131,600
75° DB/62.5° WB Total		76,600	94,800	133,300	161,500
50% RH Sensible		61,800	76,500	105,400	129,100
75° DB/61° WB Total		74,400	92,000	129,700	157,000
45% RH Sensible		65,700	81,300	112,000	137,300
72° DB/60° WB Total		73,000	90,400	127,100	154,300
50% RH Sensible		60,500	74,900	103,300	126,600
72° DB/58.6° WB Total		71,000	87,900	124,000	150,300
45% RH Sensible		64,100	79,300	109,500	134,200
BLOWER SECTION					
Airflow - CFM		2,500	3,000	4,000	5,000
Standard motor - horsepower		2	2	3	5
External Static Pressure (E.S.P.) - inches	of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1	1/1
Maximum E.S.P. (Standard	,	0.9	1.3	1.4	1.1
Maximum E.S.P. (Next Size	e Motor)	0.9	1.3	1.5	1.1
Next size motor - horsepower		3	3	5	7.5
COMPRESSOR		(in O	utdoor Condensing	Unit)	
Туре		Scroll	Scroll	Scroll	Scroll
Quantity		1	1	1	1
Refrigerant type		R-407C	R-407C	R-407C	R-407C
EVAPORATOR COIL					
Face area - sq ft		12.2	12.2	12.2	12.2
Rows of coils		3	4	5	5
Face velocity - fpm		205	246	328	410
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		15	15	15	15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
	justable)	10	10	10	10
kW (114)	,	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
	justable)	10-30	10-30	10-30	10-30
	. ,	24			

MODEL NUMBER:	D	ALA- 06-AO-S	08-AO-S	10-AO-S	13-AO-S
FILTER SECTION					
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2082381	2	20.23.7
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - percentage		30	30	30	30
(Efficiency based on ASH)	RAE Std. 52.1-1992.)	30	30	30	30
CONNECTION SIZ	ZES				
Liquid line - O.D. Coppe	r	1/2	5/8	5/8	5/8
Suction line - O.D. Coppe		3/4	1 1/8	1 1/8	1 1/8
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
	n and Maintenance ma	nual for recommended pipe sizing	g between evaporator sec	tion and condensing unit.)	
ELECTRICAL SEC	CTION	<b>Standard Motor</b>			
T		TTC 40.11.8	1 110 1	1 CT	MOTOR
		ES, 10 lb/hr steam genera			
208-230/3/60	FLA/MCA/MOF		48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/MOF		22/27/30	23/29/30	25/32/35
		ES, 30 lb/hr steam genera			
208-230/3/60	FLA/MCA/MOF		48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/MOF		22/27/30	23/29/30	25/32/35
		O, 10 lb/hr steam generate			
208-230/3/60	FLA/MCA/MOF		22/28/30	25/31/35	31/39/45
460/3/60	FLA/MCA/MOF		10/13/15	12/15/15	14/17/20
		O, 30 lb/hr steam generate			
208-230/3/60	FLA/MCA/MOF		34/43/45	37/46/50	43/54/60
460/3/60	FLA/MCA/MOF		16/20/25	17/21/25	19/24/25
		ES, steam generator humi			
208-230/3/60	FLA/MCA/MOF		48/60/70	50/63/70	58/71/80
460/3/60	FLA/MCA/MOF		22/27/30	23/29/30	25/32/35
Electrical data based on:	electric reheat - N	O, steam generator humid	lifier - NO, and STA	NDARD MOTOR.	
208-230/3/60	FLA/MCA/MOF	6.0/7.5/15	6.0/7.5/15	8.4/11/15	15/19/30
460/3/60	FLA/MCA/MOF	3.0/3.8/15	3.0/3.8/15	4.2/5.3/15	6.6/8.3/15
STANDARD MOTO	OR				
Horsepower		2	2	3	5
208-230/3/60	FLA	6.0	6.0	8.4	14.8
460/3/60	FLA	3.0	3.0		6.6
		2.0	2.0		3.0

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

MODEL NUMBER:	DALA-	06-AO-S	08-AO-S	10-AO-S	13-AO-S
ELECTRICAL SEC	CTION N	lext Size Motor			
	electric reheat - YES, 10 lb/				
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40
•	electric reheat - YES, 30 lb				
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40
	electric reheat - NO, 10 lb/l				
208-230/3/60	FLA/MCA/MOP	25/31/35	25/31/35	31/39/45	36/45/60
460/3/60	FLA/MCA/MOP	12/14/15	12/14/15	14/17/20	17/22/30
208-230/3/60	electric reheat - NO, 30 lb/l FLA/MCA/MOP	37/46/50	37/46/50	43/54/60	<u>48/60/70</u>
460/3/60	FLA/MCA/MOP	17/21/25	17/21/25	19/24/25	23/29/35
	electric reheat - <b>YES</b> , steam				23/29/33
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80
460/3/60	FLA/MCA/MOP FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40
	electric reheat - <b>NO</b> , steam				29/30/40
208-230/3/60	FLA/MCA/MOP	8.4/11/15	8.4/11/15	15/19/30	20/25/45
460/3/60	FLA/MCA/MOP	4.2/5.3/15	4.2/5.3/15	6.6/8.3/15	10/13/20
400/3/00		7.2/3.3/13	4.2/3.3/13	0.0/0.3/13	10/13/20
NEXT SIZE MOTO	)R				
1,211 5122 110 1					
Horsepower		3	3	5	7.5
208-230/3/60	FLA	8.4	8.4	14.8	20.0
460/3/60	FLA	4.2	4.2	6.6	10.1
CONDENSING UN	IIT				
Condensing unit at 95° F	Fambient model number	DRCU-06	DRCU-09	DRCU-11	DRCU-15
208-230/3/60	FLA/MCA/MOP	23/27/45	33/40/60	46/56/90	49/60/100
460/3/60	FLA/MCA/MOP	12/15/25	17/20/35	21/26/40	26/31/50
Condensing unit at 100°	F ambient model number	DRCU-07	DRCU-11	DRCU-15	DRCU-17
208-230/3/60	FLA/MCA/MOP	23/27/45	37/44/70	46/56/90	49/60/100
460/3/60	FLA/MCA/MOP	12/15/25	19/23/35	21/26/40	26/31/50
Condensing Unit at 105°	F ambient model number	DRCU-11	DRCU-15	DRCU-17	DRCU-21
208-230/3/60	FLA/MCA/MOP	27/32/50	37/44/70	46/56/90	54/64/100
460/3/60	FLA/MCA/MOP	15/17/25	19/23/35	21/26/40	28/34/50
COMPRESSOR					
208-230/3/60	FLA	18.6	28.8	37.8	41.0
460/3/60	FLA	10.3	14.7	17.2	21.8

(Notes: Condensing units are not available in 575 volts. Condensing units are selected at sea level. Refer to page 64 for condenser fan motor FLA for quantities.)

MODEL NUMBER:	DALA-	06-AO-S	08-AO-S	10-AO-S	13-AO-S
CAPACITY in Btu/hr - gross					
80° DB/67° WB Total		86,000	112,200	149,300	178,000
50% RH Sensible		69,600	86,500	117,900	138,500
75° DB/62.5° WB Total		78,900	102,700	138,000	164,000
50% RH Sensible		68,300	84,800	116,300	136,100
75° DB/61° WB Total		76,400	99,600	134,000	159,500
45% RH Sensible		72,900	92,500	124,000	145,000
72° DB/60° WB Total		74,800	97,400	131,300	156,300
50% RH Sensible		66,600	84,700	113,600	133,100
72° DB/58.6° WB Total		73,300	94,700	127,700	152,300
45% RH Sensible		71,100	90,000	120,800	141,100
BLOWER SECTION					
Airflow - CFM		3,000	3,600	4,750	5,500
Standard motor - horsepower		2	3	5	5
External Static Pressure (E.S.P.) - inches	of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1	1/1
Maximum E.S.P. (Standard	! Motor)	1.3	1.5	1.5	0.8
Maximum E.S.P. (Next Size	Motor)	1.3	1.5	1.5	0.8
Next size motor - horsepower		3	5	7.5	7.5
COMPRESSOR	(in Oi	utdoor Condensing	Unit)		
Туре		Scroll	Scroll	Scroll	Scroll
Quantity		1	1	1	1
Refrigerant type		R-407C	R-407C	R-407C	R-407C
EVAPORATOR COIL					
Face area - sq ft		12.2	12.2	12.2	12.2
Rows of coil		3	4	5	5
Face velocity - fpm		246	295	389	451
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		15	15	15	15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
Capacity - lb/hr (Adj.	ustable)	10	10	10	10
kW	•	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr (Adj	ustable)	10-30	10-30	10-30	10-30
•					

MODEL NUMBER:	DAL	A- 06-AO-S	08-AO-S	10-AO-S	13-AO-S
FILTER SECTION	Ī				
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	20.23.7
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
	on ASHRAE Std. 52.1-1992		10/125/11	TONZON	10/25/11
(		,			
CONNECTION SIZE	ZES				
Liquid line - O.D. Coppe	, p.	1/2	5/8	5/8	5/8
Suction line - O.D. Copp		3/4	1 1/8	1 1/8	1 1/8
Condensate drain	CI	3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
	n and Maintenance manua	l for recommended pipe sizing	2, .	-, -	
,		7	,	,	
ELECTRICAL SEC	CTION	<b>Standard Motor</b>			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40.11.8		1.051.151.151.151.1	romon.
Electrical data based on:		_			
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	25/32/35
Electrical data based on:		_			
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30		25/32/35	25/32/35
Electrical data based on:		_			
208-230/3/60	FLA/MCA/MOP	25/31/30	25/31/35	31/39/45	31/39/45
460/3/60	FLA/MCA/MOP	12/14/15	12/14/15	14/17/20	14/17/20
Electrical data based on:		•			
208-230/3/60	FLA/MCA/MOP	37/46/50	37/46/50	43/54/60	43/54/60
460/3/60	FLA/MCA/MOP	17/21/25	17/21/25	19/24/25	19/24/25
Electrical data based on:		_			
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30		25/32/35	25/32/35
Electrical data based on:		_			15/10/20
208-230/3/60	FLA/MCA/MOP	8.0/11/15	8.0/11/15	15/19/30	15/19/30
460/3/60	FLA/MCA/MOP	4.2/5.3/15	4.2/5.3/15	6.6/8.3/15	6.6/8.3/15
STANDARD MOTO	OR				
STATION WOT					
Horsepower		3	3	5	5
208-230/3/60	FLA	8.4	8.4	14.8	14.8
460/3/60	FLA	4.2	4.2	6.6	6.6
-					

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

MODEL NUMBER:	DALA-	06-AO-S	08-AO-S	10-AO-S	13-AO-S
ELECTRICAL SE	CTION	lext Size Motor			
Electrical data based on:	electric reheat - <b>YES</b> , 10 lb	/hr steam generator h	numidifier - <b>YES</b> , and	d NEXT SIZE MOT	OR.
208-230/3/60	FLA/MCA/MOP	56/71/80	56/71/80	62/77/80	62/77/80
460/3/60	FLA/MCA/MOP	25/32/35	25/32/35	29/36/40	29/36/40
Electrical data based on:	electric reheat - YES, 30 lb	/hr steam generator h	numidifier - YES, and	A NEXT SIZE MOT	OR.
208-230/3/60	FLA/MCA/MOP	56/71/80	56/71/80	62/77/80	62/77/80
460/3/60	FLA/MCA/MOP	25/32/35	25/32/35	29/36/40	29/36/40
Electrical data based on:	electric reheat - NO, 10 lb/l		umidifier - YES, and	NEXT SIZE MOTO	<u>OR.</u>
208-230/3/60	FLA/MCA/MOP	31/39/45	31/39/45	36/45/60	36/45/60
460/3/60	FLA/MCA/MOP	14/17/20	14/17/20	17/22/30	17/22/30
	electric reheat - NO, 30 lb/l		umidifier - YES, and		<u>OR.</u>
208-230/3/60	FLA/MCA/MOP	43/54/60	43/54/60	48/60/70	48/60/70
460/3/60	FLA/MCA/MOP	19/24/25	19/24/25	23/29/35	23/29/35
	electric reheat - YES, steam	•			
208-230/3/60	FLA/MCA/MOP	56/71/80	56/71/80	62/77/80	62/77/80
460/3/60	FLA/MCA/MOP	25/32/35	25/32/35	29/36/40	29/36/40
	electric reheat - NO, steam	~			
208-230/3/60	FLA/MCA/MOP	15/19/30	15/19/30	20/25/45	20/25/45
460/3/60	FLA/MCA/MOP	6.6/8.3/15	6.6/8.3/15	10/13/20	10/13/20
NEXT SIZE MOT	OR				
Horsepower		5	5	7.5	7.5
208-230/3/60	FLA	14.8	14.8	20.0	20.0
460/3/60	FLA	6.6	6.6	10.1	10.1
CONDENSING III	ATTE				
CONDENSING UN	NII				
Condensing unit at 95° I	F ambient model number	DRCU-06	DRCU-09	DRCU-11	DRCU-15
208-230/3/60	FLA/MCA/MOP	23/27/45	33/40/60	46/56/90	49/60/100
460/3/60	FLA/MCA/MOP	12/15/25	17/20/35	21/26/40	26/31/50
Condensing unit at 100°	F ambient model number	DRCU-07	DRCU-11	DRCU-15	DRCU-17
208-230/3/60	FLA/MCA/MOP	23/27/45	37/44/70	46/50/90	49/60/100
460/3/60	FLA/MCA/MOP	12/15/25	19/23/35	21/26/40	26/31/50
_	F ambient model number	DRCU-11	DRCU-15	DRCU-17	DRCU-21
208-230/3/60	FLA/MCA/MOP	27/32/50	37/44/70	46/56/90	54/60/100
460/3/60	FLA/MCA/MOP	15/17/25	19/23/35	21/26/40	28/34/50
COMPRESSOR					
208-230/3/60	FLA	18.6	28.8	37.8	41.0
460/3/60	FLA	10.3	14.7	17.2	21.8
	's are not available in 575 volts. Con				
FLA and quantities.)			J Pro	•	

MODEL NUMBER:	DALA-	06-AO-D	08-AO-D	10-AO-D	13-AO-D
CAPACITY - Btu/hr - gross	]				
80° DB/67° WB Total		79,300	106,600	135,600	167,200
50% RH Sensible		61,400	79,300	103,700	128,200
75° DB/62.5° WB Total	-	72,600	98,000	124,300	153,800
50% RH Sensible		60,100	77,900	101,600	125,900
75° DB/61° WB Total	-	70,500	94,300	121,400	149,500
45% RH Sensible		64,000	82,300	108,400	134,000
72° DB/60° WB Total	-	69,400	92,900	118,900	146,500
50% RH Sensible		58,900	76,000	108,400	123,200
72° DB/58.6° WB Total	-	67,500	90,900	115,600	143,500
45% RH Sensible		62,600	80,700	105,600	131,100
	-	32,000	00,700	100,000	101,100
BLOWER SECTION	]				
Airflow - CFM		2,500	3,000	4,000	5,000
Standard motor - horsepower		2,300	2	3	5,000
External Static Pressure (E.S.P.) - inche	s of WG	0.5	0.5	0.5	0.5
Number of motors/fans	3 01 W.G.	1/1	1/1	1/1	1/1
	rd Motor)	0.9	1.3	1.4	1.1
,	ze Motor)	0.9	1.3	1.5	1.1
Next size motor - horsepower	ze moior)	3	3	5	7.5
Next size motor - norsepower		3	3	3	7.5
COMPRESSORS	(in O	utdoor Condensing	Unit)		
Туре		Scroll	Scroll	Scroll	Scroll
Quantity		2	2	2	2
Refrigerant type		R-407C	R-407C	R-407C	R-407C
EVAPORATOR COIL	]				
Face velocity - sq ft		12.2	12.2	12.2	12.2
Rows of coils		3	4	5	5
Face velocity - fpm		205	246	328	410
• •					
REHEAT SECTION	]				
Electric		Standard	Standard	Standard	Standard
kW		15	Standard 15	Standard 15	Standard 15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
Capacity - Btu/iii		31,223	31,223	31,223	31,223
HUMIDIFIER SECTION	]				
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
Capacity - lb/hr (Ad	djustable)	10	10	10	10
kW		3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr (Ad	djustable)	10-30	10-30	10-30	10-30
		30			

MODEL NUMBER:	DA	LA- 06-AO-D	08-AO-D	10-AO-D	13-AO-D
FILTER SECTIO	N				
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency percentage		30	30	30	30
(Note: Efficiency based	d on ASHRAE Std. 52.1-199	2.)			
CONNECTION S	SIZES				
Lin illin OD Con		1 /2	1 /2	1/0	1 /2
Liquid line - O.D. Copp		1/2 3/4	1/2 3/4	1/2 3/4	1/2 3/4
Suction line - O.D. Cop Condensate drain	pper	3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
	ion and Maintenance manu	al for recommended pipe siz	-, -	-, -	-, -
				,	
ELECTRICAL SI	ECTION	<b>Standard Motor</b>			
Electrical data based or					
208-230/3/60	FLA/MCA/MOP	48/60/70	48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/MOP	22/27/30	22/27/30	23/29/30	25/32/35
Electrical data based or					
208-230/3/60	FLA/MCA/MOP	48/60/70	48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/MOP	22/27/30	22/27/30	23/29/30	25/32/35 IOTOR
Electrical data based or 208-230/3/60	FLA/MCA/MOP	22/28/30	22/28/30	25/31/35	31/39/45
460/3/60	FLA/MCA/MOP	10/13/15	10/13/15	12/14/15	14/17/20
Electrical data based or					
208-230/3/60	FLA/MCA/MOP	34/43/45	34/43/45	37/46/50	43/54/60
460/3/60	FLA/MCA/MOP	16/20/25	16/20/25	17/21/25	19/24/25
Electrical data based or					17/24/23
208-230/3/60	FLA/MCA/MOP	48/60/70	48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/MOP	22/27/30	22/27/30	23/29/30	25/32/35
Electrical data based or					20,02,00
208-230/3/60	FLA/MCA/MOP	6.0/7.5/15	6.0/7.5/15	8.4/11/15	15/19/30
460/3/60	FLA/MCA/MOP	3.0/3.8/15	3.0/3.8/15	4.2/5.3/15	6.6/8.3/15
STANDARD MO	TOR				
Horsepower		2	2	3	5
208-230/3/60	FLA	6.0	6.0	8.4	14.8
460/3/60	FLA	3.0	3.0	4.2	6.6
.00,0,00		3.0	3.0	2	5.0

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

MODEL NUMBER:	DALA-	06-AO-D	08-AO-D	10-AO-D	13-AO-D	
ELECTRICAL SE	CTION	Next Size Motor				
Electrical data based on:	electric reheat - <b>YES</b> , 10 lb	hr staam ganaratar h	umidifier VES on	A NEVT CIZE MOT	ΥΩD	
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80	
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40	
	electric reheat - YES, 30 lb					
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80	
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40	
	electric reheat - <b>NO</b> , 10 lb/					
208-230/3/60	FLA/MCA/MOP	25/31/35	25/31/35	31/39/45	36/45/60	
460/3/60	FLA/MCA/MOP	12/14/20	12/14/20	14/17/20	17/22/30	
Electrical data based on:	electric reheat NO, 30 lb/h	nr steam generator hui	midifier - YES, and	NEXT SIZE MOTO	R.	
208-230/3/60	FLA/MCA/MOP	37/46/50	37/46/50	43/54/60	48/60/70	
460/3/60	FLA/MCA/MOP	17/21/25	17/21/25	19/24/25	23/29/35	
Electrical data based on:	electric reheat - YES, steam	n generator humidifie	r - NO, and NEXT S	SIZE MOTOR.		
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80	
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40	
Electrical data based on:	electric reheat - NO, steam	generator humidifier	- NO, and NEXT S	IZE MOTOR.		
208-230/3/60	FLA/MCA/MOP	8.4/11/15	8.4/11/15	15/19/30	20/25/45	
460/3/60	FLA/MCA/MOP	4.2/5.3/15	4.2/5.3/15	6.6/8.3/15	10/13/20	
NEXT SIZE MOT	OR					
**		2		_		
Horsepower	TT 4	3	3	5	7.5	
208-230/3/60	FLA	8.4	8.4	14.8	20.0	
460/3/60	FLA	4.2	4.2	6.6	10.1	
CONDENSING UN						
CONDENSING U	NII					
Condensing unit at 05° I	ambient model number	DRCU-06	DRCU-09	DRCU-11	DRCU-15	
208-230/3/60	FLA/MCA/MOP	25/27/35	31/35/45	43/47/60	46/50/60	
460/3/60	FLA/MCA/MOP	12/14/15	17/19/25	22/24/30	25/27/35	
400/3/00	TLA/MCA/MOI	12/14/13	17/19/23	22/24/30	23/21/33	
Condensing unit at 100°	F ambient model number	DRCU-07	DRCU-11	DRCU-15	DRCU-17	
208-230/3/60	FLA/MCA/MOP	25/27/35	35/39/50	43/47/60	46/50/60	
460/3/60	FLA/MCA/MOP	12/14/15	19/21/35	22/24/30	25/27/35	
100/3/00		12/11/13	17/21/33	22/2 1/30	25/21/55	
Condensing unit at 105°	F ambient model number	DRCU-11	DRCU-15	DRCU-17	DRCU-21	
208-230/3/60	FLA/MCA/MOP	29/32/40	35/39/50	43/47/60	50/54/70	
460/3/60	FLA/MCA/MOP	14/16/20	19/21/25	22/24/30	27/30/35	
100/0/00		1 1/10/20	19/21/20	,, & o	27,00,00	
COMPRESSORS						
208-230/3/60	FLA	10.3	13.5	17.3	18.6	
460/3/60	FLA	5.1	7.4	9.0	10.3	

(Notes: Condensing units are not available in 575 volts. Condensing units are selected at sea level. Refer to page 65 for condenser fan motor FLA and quantities.)

MODEL NUMBER:	DALA-	06-AO-D	08-AO-D	10-AO-D	13-AO-D
CAPACITY in Btu/hr - gross					
80° DB/67° WB Total		81,500	110,600	139,200	169,800
50% RH Sensible		68,100	88,100	114,500	135,400
75° DB/62.5° WB Total		75,200	101,200	127,700	156,300
50% RH Sensible		66,800	86,200	112,100	132,900
75° DB/61° WB Total		72,800	98,100	123,900	152,000
45% RH Sensible		71,400	91,900	119,700	141,800
72° DB/60° WB Total		71,100	96,000	122,200	148,000
50% RH Sensible		65,000	84,100	109,700	129,500
72° DB/58.6° WB Total		69,200	93,300	118,800	145,000
45% RH Sensible		68,900	89,400	116,800	138,200
BLOWER SECTION					
Airflow - CFM		3,000	3,600	4,750	5,500
Standard motor - horsepower		2	3	5	5
External Static Pressure (E.S.P.) - inches	of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans	01 11101	1/1	1/1	1/1	1/1
Maximum E.S.P. (Standara	l Motor)	1.3	1.5	1.5	0.8
Maximum E.S.P. (Next Size		1.3	1.5	1.5	0.8
Next size motor - horsepower	,	3	5	7.5	7.5
COMPRESSORS	(in O	utdoor Condensing	Unit)		
Туре		Scroll	Scroll	Scroll	Scroll
Quantity		2	2	2	2
Refrigeration type		R-407C	R-407C	R-407C	R-407C
EVAPORATOR COIL					
Face velocity - sq ft		12.2	12.2	12.2	12.2
Rows of coils		3	4	5	5
Face velocity - fpm		246	295	389	451
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		15	15	15	15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
	ustable)	10	10	10	10
kW		3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr (Adj	ustable)	10-30	10-30	10-30	10-30
•					

MODEL NUMBER:	DALA-	06-AO-D	08-AO-D	10-AO-D	13-AO-D
FILTER SECTION					
Quantity		2	2	2	2
Quantity Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		20x23x4	20x23x4	20x23x4	20x23x4
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency percentage		30	30	30	30
(Note: Efficiency based on	A SHRAF Std 52 1-1002 )	30	30	30	30
(Note: Lifficiency bused on	ASHML 5td. 52.1-1772.)				
CONNECTION SIZ	ES				
COTTICETOTO					
Liquid line - O.D. Copper	r	1/2	1/2	1/2	1/2
Suction line - O.D. Coppe		3/4	3/4	3/4	3/4
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
(Note: Refer to Operation	and Maintenance manual for re	commended pipe sizing be	etween evaporator sectio	on and condensing unit.)	
ELECTRICAL SEC	TION		Standard Motor		
Electrical data based on:		_			
208-230/3/60	FLA/MCA/MOP	50/63/70 23/29/30	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP		23/29/30	25/32/35	25/32/35 MOTOR
Electrical data based on: 208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	<u>, and STANDARD 1</u> 56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	25/32/35
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	25/31/35	25/31/35	31/39/45	31/39/45
460/3/60	FLA/MCA/MOP	12/14/15	12/14/15	14/17/20	14/17/20
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	37/46/50	37/46/50	43/54/60	43/54/60
460/3/60	FLA/MCA/MOP	17/21/25	17/21/25	19/24/25	19/24/25
Electrical data based on:					1972 1720
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	25/32/35
Electrical data based on:	electric reheat - NO, stea	m generator humidif			
208-230/3/60	FLA/MCA/MOP	8.0/11/15	8.0/11/15	15/19/30	15/19/30
460/3/60	FLA/MCA/MOP	4.2/5.3/15	4.2/5.3/15	6.6/8.3/15	6.6/8.3/15
STANDARD MOTO	OR				
Horsepower		3	3	5	5
208-230/3/60	FLA	8.4	8.4	14.8	14.8
460/3/60	FLA	4.2	4.2	6.6	6.6
T00/ 3/ 00	1 12/1	7.2	7.2	0.0	0.0

MOP - Maximum Rating of the Overcurrent Protective Device

MCA - Minimum circuit amps (wire sizing amps)

FLA - Full load amps

06-AO-D

08-AO-D

10-AO-D

13-AO-D

DALA-

MODEL NUMBER.	DALA-	00-AO-D	00-AU-D	10-AU-D	13-AU-D
ELECTRICAL SEC	TION	ext Size Motor			
Electrical data based on:	plaatria rahaat VFC 10 lb	hr staam canaratar k	umidifar VFC an	A NEVT SIZE MO	ГОР
	electric reheat - YES, 10 lb, FLA/MCA/MOP	56/71/80	56/71/80	62/77/80	62/77/80
	FLA/MCA/MOP	25/32/35	25/32/35	29/36/40	29/36/40
	electric reheat - <b>YES</b> , 30 lb				
	FLA/MCA/MOP	56/71/80	56/71/80	62/77/80	62/77/80
	FLA/MCA/MOP	25/32/35	25/32/35	29/36/40	29/36/40
	electric reheat - <b>NO</b> , 10 lb/h				
	FLA/MCA/MOP	31/39/45	31/39/45	36/45/60	36/45/60
	FLA/MCA/MOP	14/17/20	14/17/20	17/22/30	17/22/30
	electric reheat - NO, 30 lb/h				
	FLA/MCA/MOP	43/54/60	43/54/60	48/60/70	48/60/70
	FLA/MCA/MOP	19/24/25	19/24/25	23/29/35	23/29/35
	electric reheat - <b>YES</b> , steam				23/29/33
	FLA/MCA/MOP	56/71/80	56/71/80		62/77/80
	FLA/MCA/MOP FLA/MCA/MOP	25/32/35	25/32/35	62/77/80	29/36/40
				29/36/40	29/30/40
	electric reheat - NO, steam FLA/MCA/MOP	15/19/30	15/19/30		20/25/45
		6.6/8.3/15		20/25/45	20/25/45
460/3/60	FLA/MCA/MOP	0.0/8.3/13	6.6/8.3/15	10/13/20	10/13/20
NEXT SIZE MOTO	R				
TIETT SIZE MOTO					
Horsepower		5	5	7.5	7.5
	FLA	14.8	14.8	20.0	20.0
	FLA	6.6	6.6	10.1	10.1
100/0/00	- <del> </del>	0.0	0.0	10.1	1011
CONDENSING UNI	T				
Condensing unit at 95° F a	ambient model number	DRCU-06	DRCU-09	DRCU-11	DRCU-15
	FLA/MCA/MOP	25/27/35	31/35/45	43/47/60	46/50/60
	FLA/MCA/MOP	12/14/15	17/19/25	22/24/30	25/27/35
400/3/00	I LA/WCA/WOI	12/14/13	17/17/23	22/24/30	23/21/33
Condensing unit at 100° F	ambient model number	DRCU-07	DRCU-11	DRCU-15	DRCU-17
208-230/3/60	FLA/MCA/MOP	25/27/35	31/35/45	43/47/60	46/50/60
460/3/60	FLA/MCA/MOP	12/14/15	17/19/25	22/24/30	25/27/35
100/3/00		12/11/13	17/17/25	22/2 1/30	23/21/33
Condensing unit at 105° F	ambient model number	DRCU-11	DRCU-15	DRCU-17	DRCU-21
208-230/3/60	FLA/MCA/MOP	29/32/40	35/39/50	43/47/60	50/54/70
460/3/60	FLA/MCA/MOP	14/16/20	19/21/25	22/24/30	27/29/35
100/3/00		11/10/20	19,21,23	22/2 1/30	21127133
COMPRESSORS					
COMI RESSURS					
208-230/3/60	FLA	10.3	13.5	17.3	18.6
	FLA	5.1	7.4	9.0	10.3
	are not available in 575 volts. Con				
FLA and quantities.)				-	

**MODEL NUMBER:** 

# WATER COOLED: Performance data at STANDARD airflow with single compressor

MODEL NUMBER:	DALW	06-WP-S	08-WP-S	10-WP-S	13-WP-S
CAPACITY in Btu/hr - gross					
80° DB/67° WB Total 50% RH Sensible 75° DB/62.5° WB Total 50% RH Sensible 75° DB/61° WB Total 45% RH Sensible 72° DB/60° WB Total 50% RH Sensible		86,400 64,100 79,700 63,100 77,400 67,000 76,200 61,900	112,500 81,600 103,500 80,200 100,200 84,900 98,700 78,600	151,100 109,700 139,400 108,100 135,300 114,500 133,400 106,100	183,800 134,700 168,400 132,100 163,800 140,300 160,500 129,400
72° DB/58.6° WB Total 45% RH Sensible		74,200 65,600	96,000 83,100	130,500 112,500	156,400 137,000
GLYCOL COOLED: P	erformance	•		•	
MODEL NUMBER:	DALG	06-WP-S	08-WP-S	10-WP-S	13-WP-S
CAPACITY in Btu/hr - gross					
80° DB/67° WB       Total         50% RH       Sensible         75° DB/62.5° WB       Total         50% RH       Sensible         75° DB/61° WB       Total         45% RH       Sensible         72° DB/60° WB       Total		81,400 62,200 75,100 61,200 72,500 64,900 71,400	106,400 79,200 97,200 77,500 94,100 82,200 92,700	142,100 106,100 131,000 104,400 127,100 110,900 125,300	171,800 130,000 158,100 127,700 153,700 135,900 150,700
50% RH Sensible 72° DB/58.6° WB Total 45% RH Sensible		59,800 69,900 63,600	75,900 90,100 80,400	102,500 121,800 108,500	125,000 147,600 133,000
-The follow	ing sections a	apply to both Glycol	and Water cooled u	enits	
BLOWER SECTION					
Airflow - CFM Standard motor - horsepower External Static Pressure - (E.S.P.) - inches of W.G. Number of motors/fans Maximum E.S.P. (Standard Motor) Maximum E.S.P. (Next Size Motor) Next size motor - horsepower		2,500 2 0.5 1/1 0.9 0.9 3	3,000 2 0.5 1/1 1.3 1.3 3	4,000 3 0.5 1/1 1.4 1.5 5	5,000 5 0.5 1/1 1.1 1.1 7.5
COMPRESSOR					
Type Quantity		Scroll	Scroll	Scroll	Scroll
Refrigerant type		R-407C	R-407C	R-407C	R-407C

MODEL NUMBER:	$DAL^*$	06-WP-S	08-WP-S	10-WP-S	13-WP-S
EVAPORATOR COIL					
Face area - sq ft		12.2	12.2	12.2	12.2
Rows of coil		3	4	5	5
Face velocity - FPM		205	246	328	410
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		15	15	15	15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION	N				
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
Capacity - lb/hr	(Adjustable)	10	10	10	10
kW		3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr	(Adjustable)	10-30	10-30	10-30	10-30
FILTER SECTION					
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency percentage		30	30	30	30
(Note: Efficiency based on ASHI	RAE Std. 52.1-1992.)				
CONNECTION SIZES					
Condenser water supply - O.D.	. Copper	1-5/8	1-5/8	1-5/8	1-5/8
Condenser water return - O.D.		1-5/8	1-5/8	1-5/8	1-5/8
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
ELECTRICAL SECTIO	N Sta	andard Motor			
Electrical data based on: electrical	ric reheat - <b>YES</b> , 10 lb/l	nr steam generator h	numidifier - <b>YES</b> , an	d STANDARD MO	OTOR.
	A/MCA/MOP	66/81/90	76/94/110	88/108/125	97/118/125
460/3/60 FLA	A/MCA/MOP	32/39/40	37/45/50	40/49/60	47/57/70
575/3/60 FLA	A/MCA/MOP	25/31/35	28/35/40	34/42/50	38/46/50
Electrical data based on: electrical			numidifier - YES, an		
	A/MCA/MOP	66/81/90	76/94/110	88/108/125	97/118/125
	A/MCA/MOP	32/39/40	37/45/50	40/49/60	47/57/70
	A/MCA/MOP	25/31/35	28/35/40	34/42/50	38/46/50
Electrical data based on: electrical data based on:		-			
	A/MCA/MOP	41/50/60	51/62/80	63/76/100	72/86/110
	A/MCA/MOP	21/25/30	25/31/40	29/35/50	36/43/60
	A/MCA/MOP	16/19/25	19/23/30	25/30/40	29/34/50
	GLYCOL COOLED				
FLA - Full load amps	MCA - Minimum circuit amp	os (wire sizing amps)	MOP - Maximum I	Rating of the Overcurren	t Protective Device

MODEL NUMBER:	D <sub>2</sub>	AL* 06-WP-S	08-WP-S	10-WP-S	13-WP-S
ELECTRICAL SE	CTION	Standard Motor - co	ontinued		
Electrical data based on:	electric reheat - NO	). 30 lb/hr steam generato	or humidifier - YES.	and STANDARD M	IOTOR.
208-230/3/60	FLA/MCA/MOP	53/65/70	63/77/90	75/91/110	84/101/125
460/3/60	FLA/MCA/MOP	26/32/35	31/37/45	34/42/50	41/50/60
575/3/60	FLA/MCA/MOP	20/25/30	24/29/35	29/35/45	33/40/50
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	66/81/90	76/94/100	88/108/125	97/118/125
460/3/60	FLA/MCA/MOP	32/39/45	37/45/50	40/49/60	47/57/70
575/3/60	FLA/MCA/MOP	25/31/35	28/35/40	34/42/50	38/46/50
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	25/29/45	35/42/70	46/56/90	56/66/100
460/3/60	FLA/MCA/MOP	13/16/25	18/21/35	21/26/40	28/34/50
575/3/60	FLA/MCA/MOP	10/12/15	13/16/25	19/23/35	23/27/40
STANDARD MOT	OR				
Horsepower	·	2	2	3	5
208-230/3/60	FLA	6.0	6.0	8.4	14.8
460/3/60	FLA	3.0	3.0	4.2	6.6
575/3/60	FLA	2.5	2.5	3.3	5.3
Di Dompio di Lori	CIMI O N	N			
ELECTRICAL SE	CTION	<b>Next Size Motor</b>			
Electrical data based on:	alactric rahaat VE	'S 10 lb/br stoom gonores	tor humidifiar VES	and NEVT SIZE N	AOTOP
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	91/114/125	103/123/150
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	51/61/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	41/49/60
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	103/123/150
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	51/61/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	41/49/60
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	43/52/60	54/65/80	69/82/110	77/92/125
460/3/60	FLA/MCA/MOP	22/26/30	26/32/40	31/37/50	39/47/60
575/3/60	FLA/MCA/MOP	17/20/25	20/24/30	27/32/45	32/38/50
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	55/67/70	66/80/100	81/97/125	89/107/125
460/3/60	FLA/MCA/MOP	27/33/40	32/39/50	37/44/50	45/53/70
575/3/60	FLA/MCA/MOP	21/25/30	24/30/35	31/37/50	36/43/50
Electrical data based on:					30/13/20
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/110	94/114/125	103/123/150
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	51/61/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	41/49/60
Electrical data based on:					11/15/00
208-230/3/60	FLA/MCA/MOP	27/32/50	37/44/70	53/62/90	61/71/110
460/3/60	FLA/MCA/MOP	15/17/25	19/23/35	24/28/45	32/37/50
575/3/60	FLA/MCA/MOP	11/13/15	14/17/25	21/25/40	26/30/45
	- GLYCOL COOLED				

FLA - Full load amps

# WATER/GLYCOL COOLED: Performance data at STANDARD airflow with single compressor

MODEL NUMBER:	$DAL^*$	06-WP-S	08-WP-S	10-WP-S	13-WP-S
NEXT SIZE MOT	OR				
Horsepower 208-230/3/60	FLA	3 8.4	3 8.4	5 14.8	7.5 20.0
460/3/60	FLA	4.2	4.2	6.6	10.1
575/3/60	FLA	3.3	3.3	5.3	8.6
COMPRESSOR					
208-230/3/60	FLA	18.6	28.8	37.8	41.0
460/3/60	FLA	10.3	14.7	17.2	21.8
575/3/60	FLA	7.4	10.8	15.5	17.3
FLUID COOLER					
Fluid cooler at 95° F am		DAFC-11	DAFC-15	DAFC-21	DAFC-21
208-230/3/60	FLA/MCA/MOP	8.4/9.5/15	8.4/9.5/15	13/14/15	13/14/15
460/3/60	FLA/MCA/MOP	4.2/4.7/15	4.1/4.7/15	6.3/6.8/15	6.3/6.8/15
Fluid cooler at 100° F an	mbient model number	DAFC-21	DAFC-21	DAFC-28	DAFC-30
208-230/3/60	FLA/MCA/MOP	13/14/15	13/14/15	13/14/15	17/18/20
460/3/60	FLA/MCA/MOP	6.3/6.8/15	6.3/6.8/15	6.3/6.8/15	8.4/8.9/15
CONDENSER WA	TER	Requirements			
65° F entering fluid temp		7	10	12	16
	PD -PSI	1.9	2.1	2.3	3.6
75° F entering fluid temp	perature GPM	11	15	19	21
	PD - PSI	2.8	3.4	3.7	4.8
85° F entering fluid temp	perature GPM	16	21	26	34
	PD - PSI	3.2	4.0	5.3	6.6
With Fluid Cooler	GPM	21	28	35	46
	PD in PSI	5.9	7.7	10.3	13.8

(Notes: Fluid Coolers are not available in 575 volts. Fluid Coolers are selected at sea level. Pump selection is based on total available head pressure of 80 feet.)

<sup>\*</sup> W - WATER COOLED  $\qquad$  G - GLYCOL COOLED

# WATER COOLED: Performance data at OPTIONAL airflow with single compressor

MODEL NUMBER:	DALW	06-P-S	08-P-S	10-P-S	13-P-S
CAPACITY in Btu/hr - gross	]				
80° DB/67° WB Total 50% RH Sensible		89,100 70,900	116,000 90,100	155,000 120,500	185,600 141,500
75° DB/62.5° WB Total	-	82,300	106,900	143,300	171,100
50% RH Sensible		69,700	88,600	118,500	139,000
75° DB/61° WB Total	-	79,800	103,800	140,100	166,400
45% RH Sensible		74,300	94,300	126,600	148,000
72° DB/60° WB Total	-	78,000	101,500	137,200	163,100
50% RH Sensible		68,000	86,500	116,200	136,100
72° DB/58.6° WB Total	-	76,500	99,400	133,600	159,000
45% RH Sensible	_	72,500	92,100	123,400	144,400
GLYCOL COOLED: Pe	erformance o	lata at OPTIOI	NAL airflow with	single compres	ssor
MODEL NUMBER:	DALG	06-P-S	08-P-S	10-P-S	13-P-S
CAPACITY in Btu/hr - gross	]				
80° DB/67° WB Total		83,900	109,500	146,400	174,600
50% RH Sensible		69,000	87,700	117,200	137,200
75° DB/62.5° WB Total	-	76,900	97,100	134,400	160,900
50% RH Sensible		67,500	84,500	114,800	134,700
75° DB/61° WB Total	-	75,000	97,200	131,400	155,500
45% RH Sensible		72,300	91,500	122,900	143,300
72° DB/60° WB Total	-	73,400	95,000	128,700	152,400
50% RH Sensible	_	66,000	83,600	112,500	131,400
72° DB/58.6° WB Total		71,400	92,300	125,200	149,400
45% RH Sensible	_	70,300	88,900	119,600	140,100
-The follow	ving sections ap	ply to both Glycol	and Water cooled ur	ıits	
BLOWER SECTION					
Airflow - CFM		3,000	3,600	4,750	5,500
Standard motor - horsepower		2	3	5	5
External Static Pressure (E.S.P.) - inches	s of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1	1/1
Maximum E.S.P. (Standar	rd Motor)	1.3	1.5	1.5	0.8
Maximum E.S.P. (Next Size	ze Motor)	1.3	1.5	1.5	0.8
Next size motor - horsepower		3	5	7.5	7.5
COMPRESSOR	]				
Туре		Scroll	Scroll	Scroll	Scroll
Quantity		1	1	1	1
Refrigerant type		R-407C	R-407C	R-407C	R-407C

MODEL NUMBER:	DAL*	06-WP-S	08-WP-S	10-WP-S	13-WP-S
EVAPORATOR COIL					
Face area - sq ft		12.2	12.2	12.2	12.2
Rows of coils		3	4	5	5
Face velocity - fpm		246	295	389	451
REHEAT SECTION					
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		15	15	15	15
Capacity - Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION	ON				
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
Capacity - lb/hr	(Adjustable)	10	10	10	10
kW	, ,	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr	(Adjustable)	10-30	10-30	10-30	10-30
FILTER SECTION					
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - percentage		30	30	30	30
(Note: Efficiency based on AS	SHRAE Std. 52.1-1992.)				
CONNECTION SIZES	S				
		4. 7. (0.	4.770	4 7 10	4.70
Condenser water supply - O.		1-5/8	1-5/8	1-5/8	1-5/8
Condenser water return - O.I	D. Copper	1-5/8	1-5/8	1-5/8	1-5/8
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
ELECTRICAL SECTI	ION	Standard Motor			
Electrical data based on: ele	ectric reheat - YES, 10 lb	o/hr steam generator h	numidifier - YES, an	d STANDARD MO	TOR.
	LA/MCA/MOP	69/84/90	79/97/110	94/114/125	97/118/125
460/3/60 FI	LA/MCA/MOP	33/41/45	38/46/50	43/52/60	47/57/70
	LA/MCA/MOP	26/31/35	29/36/40	36/44/50	38/46/50
Electrical data based on: ele		_			
	LA/MCA/MOP	69/84/90	79/97/110	94/114/125	97/118/125
	LA/MCA/MOP	33/41/45	38/46/50	43/52/60	47/57/70
	LA/MCA/MOP	26/31/35	29/36/40	36/44/50	38/46/50
Electrical data based on: ele		_			
	LA/MCA/MOP	43/52/60	54/65/80	69/82/110	72/86/110
	LA/MCA/MOP	22/26/30	26/32/40	31/37/50	36/43/60
575/3/60 FI	LA/MCA/MOP	17/20/25	20/24/30	27/32/45	29/34/50
* W - WATER COOLED	G - GLYCOL COOLED				

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MODEL NUMBER:	D	AL* 06-WP-S	08-WP-S	10-WP-S	13-WP-S
ELECTRICAL SE	CTION	Standard Motor - c	ontinued		
Electrical data based on:	electric reheat - NO	) 30 lh/hr steam generate	or humidifier - VES	and STANDARD M	IOTOR
208-230/3/60	FLA/MCA/MOP	55/67/70	66/80/100	81/97/125	84/101/125
460/3/60	FLA/MCA/MOP	27/33/40	32/39/50	37/44/50	41/50/60
575/3/60	FLA/MCA/MOP	21/25/30	24/30/35	31/37/50	33/40/50
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	69/84/90	79/97/100	94/114/125	97/118/125
460/3/60	FLA/MCA/MOP	33/41/45	38/46/50	43/52/60	47/57/70
575/3/60	FLA/MCA/MOP	26/31/35	29/36/40	36/44/50	38/46/50
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	27/32/50	37/44/70	53/62/90	56/66/100
460/3/60	FLA/MCA/MOP	15/17/25	19/23/35	24/28/45	28/34/50
575/3/60	FLA/MCA/MOP	11/13/15	14/17/25	21/25/40	23/27/40
STANDARD MOT	OR				
Horsepower		3	3	5	5
208-230/3/60	FLA	8.4	8.4	14.8	14.8
460/3/60	FLA	4.2	4.2	6.6	6.6
575/3/60	FLA	3.3	3.3	5.3	5.3
	CONTON	37 (61 35)			
ELECTRICAL SE	CTION	Next Size Motor			
Electrical data based on:	alaatria rahaat VI	EC 10 lb/br steem concre	tor humidifiar VES	and NEVT CIZE N	MOTOP
208-230/3/60	FLA/MCA/MOP	75/90/100	85/103/110	99/119/125	103/123/150
460/3/60	FLA/MCA/MOP	36/43/45	40/49/50	46/55/60	51/61/70
575/3/60	FLA/MCA/MOP	28/33/35	31/38/40	39/47/50	41/49/60
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	75/90/100	85/103/110	99/119/125	103/123/150
460/3/60	FLA/MCA/MOP	36/43/45	40/49/50	46/55/60	51/61/70
575/3/60	FLA/MCA/MOP	28/33/35	31/38/40	39/47/50	41/49/60
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	50/58/70	60/71/90	74/88/110	77/92/125
460/3/60	FLA/MCA/MOP	24/29/35	29/34/45	35/41/50	39/47/60
575/3/60	FLA/MCA/MOP	19/22/25	22/26/35	30/35/45	32/38/50
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	62/73/80	72/86/100	86/103/125	89/107/125
460/3/60	FLA/MCA/MOP	30/35/40	34/41/50	40/48/60	45/53/70
575/3/60	FLA/MCA/MOP	23/27/30	26/32/35	34/41/50	36/43/50
Electrical data based on:					
208-230/3/60	FLA/MCA/MOP	75/90/100	85/103/110	99/119/125	103/123/150
460/3/60	FLA/MCA/MOP	36/43/45	40/49/50	46/55/60	51/61/70
575/3/60	FLA/MCA/MOP	28/33/35	31/38/40	39/47/50	41/49/60
Electrical data based on:				T SIZE MOTOR.	
208-230/3/60	FLA/MCA/MOP	33/38/50	44/51/70	58/67/100	61/71/110
460/3/60	FLA/MCA/MOP	17/19/25	21/25/35	27/32/45	32/37/50
575/3/60	FLA/MCA/MOP	13/15/20	16/19/25	24/28/40	26/30/45
ψ III - III/IED - COOLED	a arran a				

\* W - WATER COOLED

G - GLYCOL COOLED

# WATER/GLYCOL COOLED: Performance data at OPTIONAL airflow with single compressor

MODEL NUMBER:		DAL*	06-WP-S	08-WP-S	10-WP-S	13-WP-S
NEXT SIZE MOTO	OR					
Horsepower			5	5	7.5	7.5
208-230/3/60	FLA		14.8	14.8	20.0	20.0
460/3/60	FLA		6.6	6.6	10.1	10.1
575/3/60	FLA		5.3	5.3	8.6	8.6
COMPRESSOR						
208-230/3/60	FLA		18.6	28.8	37.8	41.0
460/3/60	FLA		10.3	14.7	17.2	21.8
575/3/60	FLA		7.4	10.8	15.5	17.3
FLUID COOLER		$\neg$				
Fluid cooler at 95° F amb	hiant madal	numbar	DAFC-11	DAFC-15	DAFC-21	DAFC-21
208-230/3/60	FLA/MC		8.4/9.5/15	8.4/9.5/15	13/14/15	13/14/15
460/3/60	FLA/MCA		4.2/4.7/15	4.2/4.7/15	6.3/6.8/15	6.3/6.8/15
Fluid cooler at 100° F an	nbient mode	el number	DAFC-21	DAFC-21	DAFC-28	DAFC-30
208-230/3/60	FLA/MCA		13/14/15	13/14/15	13/14/15	17/18/20
460/3/60	FLA/MCA	A/MOP	6.3/6.8/15	6.3/6.8/15	6.3/6.8/15	8.4/8.9/15
CONDENSER WAT	TER	$\neg$				
65° F entering fluid temp	oerature	— GPM	7	10	12	16
or T entering nata temp	oracaro	PD in PSI	1.9	2.1	2.3	3.6
75° F Entering Fluid Tem	nperature	GPM	11	15	19	21
Ü	1	PD in PSI	2.8	3.4	3.7	4.8
85° F Entering Fluid Ten	nperature	GPM	16	21	26	34
		PD in PSI	3.2	4.0	5.3	6.6
With Fluid Cooler		GPM	21	28	35	46
		PD in PSI	5.9	7.7	10.3	13.8
PUMP SELECTION	N			At design flow		
Horsepower		<del>_</del>	1	1.5	1.5	2

(Notes: Fluid Coolers are not available in 575 volts. Fluid Coolers are selected at sea level. Pump selection is based on total available head pressure of 80 feet.)

<sup>\*</sup> W - WATER COOLED G - GLYCOL COOLED

# WATER COOLED: Performance data at STANDARD airflow with dual compressors

MODEL NUMBER:	DALW	06-P-D	08-P-D	10-P-D	13-P-D
CAPACITY in Btu/hr - gross	]				
80° DB/67° WB Total		87,200	110,500	140,600	173,300
50% RH Sensible		64,500	80,800	105,600	130,600
75° DB/62.5° WB Total	-	79,900	101,600	129,700	160,300
50% RH Sensible		63,200	79,400	103,900	128,700
75° DB/61° WB Total	-	77,600	99,000	125,800	155,900
45% RH Sensible	_	67,100	84,400	110,300	136,800
72° DB/60° WB Total	_	76,400	96,900	124,000	153,600
50% RH Sensible	_	62,000	77,800	101,900	126,300
72° DB/58.6° WB Total	_	74,300	94,800	120,600	149,600
45% RH Sensible	_	65,700	82,600	107,900	133,900
GLYCOL COOLED:	Performance	data at STANDAF	RD airflow with du	ıal compressors	
MODEL NUMBER:	DALG	06-P-D	08-P-D	10-P-D	13-P-D
CAPACITY in Btu/hr - gross	]				
80° DB/67° WB Total		77,500	104,300	132,200	163,100
50% RH Sensible		60,800	78,400	102,400	126,700
75° DB/62.5° WB Total	-	71,000	95,900	122,000	151,000
50% RH Sensible		59,500	77,000	100,600	124,700
75° DB/61° WB Total	-	68,800	92,800	119,100	146,700
45% RH Sensible		63,300	81,600	107,400	132,800
72° DB/60° WB Total	-	67,800	90,800	115,900	143,800
50% RH Sensible		58,200	75,100	98,300	122,000
72° DB/58.6° WB Total	-	66,000	88,900	112,600	140,000
45% RH Sensible	_	61,900	79,800	104,300	129,500
-The follo	wing sections a	pply to both Glycol o	and Water cooled un	uits	
BLOWER SECTION	]				
Airflow - CFM		2,500	3,000	4,000	5,000
Standard motor - horsepower		2,300	2	3	5,000
External Static Pressure (E.S.P.) - inche	es of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans	.5 01 777.01	1/1	1/1	1/1	1/1
	rd Motor)	0.9	1.3	1.4	1.1
,	ze Motor)	0.9	1.3	1.5	1.1
Next size motor - horsepower	- ,	3	3	5	7.5
COMPRESSORS	]				
Туре		Scroll	Scroll	Scroll	Scroll
Quantity		2	2	2	2
Refrigerant type		R-407C	R-407C	R-407C	R-407C

Pace area - sq ft   12.2   1	MODEL NUMBER:	$DAL^*$	06-WP-D	08-WP-D	10-WP-D	13-WP-D
Rows of coils   Face velocity - fpm   205   246   328   410   24	EVAPORATOR CO	DIL				
Rome velocity - fpm	Face area - sq ft		12.2	12.2	12.2	12.2
Plectric   Standard   Standard   Standard   Standard   kW   15   15   15   15   15   15   15   1	-		3	4	5	5
Placetric   Standard   Standard   Standard   Standard   kW   15   15   15   15   15   15   15   1	Face velocity - fpm		205	246	328	410
Name	REHEAT SECTION	N				
Name	Electric		Standard	Standard	Standard	Standard
Numidifier Section						
Steam generator   Optional   Optional   Optional   KW   3.4   3.	Capacity Btu/hr		51,225	51,225	51,225	51,225
RW	HUMIDIFIER SEC	CTION				
RW	Steam ganarator		Ontional	Ontional	Ontional	Ontional
Capacity - Ib/hr         (Adjustable)         10         10         10         10           kW         3.4-10.2         2.2         2 <t< td=""><td>_</td><td></td><td>•</td><td>_</td><td></td><td>•</td></t<>	_		•	_		•
National Properties   National Properties		(Adjustable)				
Quantity   2   2   2   2   2   2   2   2   2		(110) iistele te)				
Quantity         2         2         2         2         2           Size - inches         20x25x4         20x25x4         20x25x4         20x25x4         20x25x4         20x25x4         2	Capacity - lb/hr	(Adjustable)	10-30	10-30	10-30	10-30
Quantity         2         2         2         2         2           Size - inches         20x25x4         20x25x4         20x25x4         20x25x4         20x25x4         20x25x4         2						
Size - inches   20x25x4   20x25x4	FILTER SECTION					
Size - inches   20x25x4   20x25x4	Ouantity		2	2	2	2
Size - inches   16x25x4   16x25x4	-					
CONNECTION SIZES   Condenser water supply - O.D. Copper	Quantity		2	2	2	2
CONNECTION SIZES	Size - inches		16x25x4	16x25x4	16x25x4	
CONNECTION SIZES	Efficiency percentage		30	30	30	30
Condenser water supply - O.D. Copper   1-5/8	(Note: Efficiency based of	on ASHRAE Std. 52.1-1992.)				
Condenser water supply - O.D. Copper   1-5/8	CONNECTION SIZE	7FC				
Condenser water return - O.D. Copper   1-5/8   1-5/8   1-5/8   1-5/8   Condensate drain   3/4   3/4   3/4   3/4   3/4   1/4	CONNECTION SIZ	ZES				
Condenser water return - O.D. Copper   1-5/8   1-5/8   1-5/8   1-5/8   Condensate drain   3/4   3/4   3/4   3/4   3/4   1/4	Condenser water supply -	O.D. Copper	1-5/8	1-5/8	1-5/8	1-5/8
Humidifier supply   1/4   1/			1-5/8	1-5/8	1-5/8	1-5/8
ELECTRICAL SECTION         Standard Motor           Electrical data based on:         electric reheat - YES, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.           208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         67/82/90         75/90/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         32/39/40         36/43/45           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         25/31/35         28/33/35           Electrical data based on:         electric reheat - YES, 30 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         59/68/80         68/77/90	Condensate drain		3/4	3/4	3/4	3/4
Electrical data based on:         electric reheat - YES, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.           208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         67/82/90         75/90/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         32/39/40         36/43/45           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         25/31/35         28/33/35           Electrical data based on:         electric reheat - YES, 30 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90	Humidifier supply		1/4	1/4	1/4	1/4
Electrical data based on:         electric reheat - YES, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.           208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         67/82/90         75/90/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         32/39/40         36/43/45           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         25/31/35         28/33/35           Electrical data based on:         electric reheat - YES, 30 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90	ELECTRICAL CEC	OWION	14 1 13/4 4			
208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         67/82/90         75/90/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         32/39/40         36/43/45           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         25/31/35         28/33/35           Electrical data based on:         electric reheat - YES, 30 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90	ELECTRICAL SEC	CTION	Standard Motor			
208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         67/82/90         75/90/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         32/39/40         36/43/45           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         25/31/35         28/33/35           Electrical data based on:         electric reheat - YES, 30 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90	Electrical data based on:	electric reheat - <b>YES</b> . 10 lb	hr steam generator l	numidifier - YES. an	d STANDARD MO	TOR.
575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         25/31/35         28/33/35           Electrical data based on:         electric reheat - YES, 30 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.           208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90			_			
Electrical data based on:         electric reheat -YES, 30 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.           208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90	460/3/60	FLA/MCA/MOP	27/33/35	29/36/40	32/39/40	36/43/45
208-230/3/60         FLA/MCA/MOP         58/71/80         61/75/80         71/83/90         80/92/100           460/3/60         FLA/MCA/MOP         27/33/35         29/36/40         35/40/45         40/46/50           575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         208-230/3/60         FLA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90	575/3/60	FLA/MCA/MOP	22/27/30	23/29/30	25/31/35	28/33/35
460/3/60       FLA/MCA/MOP       27/33/35       29/36/40       35/40/45       40/46/50         575/3/60       FLA/MCA/MOP       22/27/30       23/29/30       28/32/35       30/35/40         Electrical data based on:       electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.       208-230/3/60       FLA/MCA/MOP       43/50/60       49/57/60       59/68/80       68/77/90			_			
575/3/60         FLA/MCA/MOP         22/27/30         23/29/30         28/32/35         30/35/40           Electrical data based on:         electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.         TA/MCA/MOP         43/50/60         49/57/60         59/68/80         68/77/90						
Electrical data based on: electric reheat - NO, 10 lb/hr steam generator humidifier - YES, and STANDARD MOTOR.  208-230/3/60 FLA/MCA/MOP 43/50/60 49/57/60 59/68/80 68/77/90						
208-230/3/60 FLA/MCA/MOP 43/50/60 49/57/60 59/68/80 68/77/90						
			_	· · · · · · · · · · · · · · · · · · ·		
460/3/60 FLA/MCA/MOP 21/2/725 25/29/30 30/3/7/0 35/29/35	460/3/60	FLA/MCA/MOP FLA/MCA/MOP	43/30/60 21/24/25	49/37/60 25/29/30	39/08/80	35/39/45
575/3/60 FLA/MCA/MOP 17/19/20 20/23/25 23/27/30 36/34/40 35/35/43						
* W - Water cooled G - Glycol cooled			17,17,20	20, 23, 23	23,21130	20,27,33
FLA - Full load amps MCA - Minimum circuit amps (wire sizing amps) MOP - Maximum Rating of the Overcurrent Protective Device		•	mps (wire sizing amps)	MOP - Maximum I	Rating of the Overcurrent	Protective Device

MODEL NUMBER:	DAL*	06-WP-D	08-WP-D	10-WP-D	13-WP-D
ELECTRICAL SEC	TION	tandard Motor - co	ntinued		
		1.7	1 '1'C \$750	1 (774 ) 10 1 10 1 1	OTOD
Electrical data based on: 6		_			
	FLA/MCA/MOP	55/65/70	61/72/80	71/83/90	80/92/100
	FLA/MCA/MOP FLA/MCA/MOP	26/30/35 21/25/30	31/36/40 24/28/30	35/40/45 28/32/35	40/46/50 30/35/40
Electrical data based on:					30/33/40
	FLA/MCA/MOP	58/71/80	61/75/80	67/82/90	75/90/100
	FLA/MCA/MOP	27/33/35	29/36/40	32/39/40	36/43/45
	FLA/MCA/MOP	22/27/30	23/29/30	25/31/35	28/33/35
Electrical data based on:					20/33/33
	FLA/MCA/MOP	27/29/35	33/36/45	43/47/60	52/57/70
	FLA/MCA/MOP	13/14/15	18/20/25	22/24/30	27/30/40
	FLA/MCA/MOP	11/12/15	14/16/20	18/19/25	20/22/25
37373700		11/12/13	11/10/20	10/17/28	20,22,23
STANDARD MOTO	)R				
Horsepower		2	2	3	5
208-230/3/60 FLA	Α	6.0	6.0	8.4	14.8
460/3/60 FLA	Α	3.0	3.0	4.2	6.6
575/3/60 FLA	A	2.5	2.5	3.3	5.3
ELECTRICAL SEC	TION	<b>Next Size Motor</b>			
Electrical data based on:		_			
	FLA/MCA/MOP	60/73/80	64/77/80	74/89/90	80/96/100
	FLA/MCA/MOP	28/34/35	30/37/40	34/41/45	39/47/50
	FLA/MCA/MOP	23/27/30	24/29/30	27/33/35	31/37/40
Electrical data based on: 6					
	FLA/MCA/MOP	60/73/80	64/77/80	78/89/90	86/98/100
	FLA/MCA/MOP	28/34/35	30/37/40	37/43/45	44/49/50
	FLA/MCA/MOP	23/27/30	24/29/30	30/34/35	34/38/40
Electrical data based on: 6					
	FLA/MCA/MOP				74/83/90
	FLA/MCA/MOP	22/25/30	26/30/35	32/36/40	38/43/50
	FLA/MCA/MOP	18/20/25	21/24/25	25/29/30	29/33/40
Electrical data based on: 6		<u>57/67/70</u>			
208-230/3/60	FLA/MCA/MOP		64/74/80	78/89/90	86/98/100
	FLA/MCA/MOP	27/32/35	32/37/40	37/43/45	44/49/50
	FLA/MCA/MOP	22/26/30	25/29/30	30/34/35 VT SIZE MOTOR	34/38/40
Electrical data based on: 6 208-230/3/60	FLA/MCA/MOP	60/73/80	64/77/80	74/89/90	80/96/100
	FLA/MCA/MOP	28/34/35	30/37/40	34/41/45	39/47/50
	FLA/MCA/MOP	23/27/30	24/29/30	27/33/35	31/37/40
Electrical data based on:					31/37/40
	FLA/MCA/MOP	29/32/35	35/39/50	49/54/70	57/62/80
	FLA/MCA/MOP	14/16/20	19/21/25	25/27/35	31/33/40
575/3/60	FLA/MCA/MOP	12/13/15	15/16/20	20/21/25	23/26/30
31313100		12/13/13	13/10/20	20/21/23	23/20/30
* W - Water cooled G -	- Glycol cooled				

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

## WATER/GLYCOL COOLED: Performance data at STANDARD airflow with dual compressors

MODEL NUMBER:		$DAL^*$	06-WP-D	08-WP-D	10-WP-D	13-WP-D
NEXT SIZE MOTO	OR	]				
Horsepower			3	3	5	7.5
208-230/3/60	FLA		8.4	8.4	14.8	20.0
460/3/60	FLA		4.2	4.2	6.6	10.1
575/3/60	FLA		3.3	3.3	5.3	8.6
COMPRESSORS		]				
208-230/3/60	FLA		10.3	13.5	17.3	18.6
460/3/60	FLA		5.1	7.4	9.0	10.3
575/3/60	FLA		4.2	5.8	7.1	7.4
FLUID COOLER		]				
Fluid cooler at 95° F am	bient model nu	mber	DAFC-11	DAFC-15	DAFC-21	DAFC-21
208-230/3/60	FLA/MCA/N	ИOР	8.4/9.5/15	8.4/9.5/15	13/14/15	13/14/15
460/3/60	FLA/MCA/N	МОР	4.2/4.7/15	4.2/4.7/15	6.3/6.8/15	6.3/6.8/15
Fluid cooler at 100° F an	nbient model n	umber	DAFC-21	DAFC-21	DAFC-28	DAFC-30
208-230/3/60	FLA/MCA/N		13/14/15	13/14/15	13/14/15	17/18/20
460/3/60	FLA/MCA/N	МОР	6.3/6.8/15	6.3/6.8/15	6.3/6.8/15	8.4/8.9/15
		_				
CONDENSER WA	TER	]				
65° F entering fluid temp	perature	GPM	7	10	12	16
C I		PD in PSI	1.9	2.1	2.3	3.6
75° F entering fluid temp	perature	GPM	11	15	19	21
		PD in PSI	2.8	3.4	3.7	4.8
85° F entering fluid temp	perature	GPM	16	21	26	34
		PD in PSI	3.2	4.0	5.3	6.6
With fluid cooler		GPM	21	28	35	46
1,1010 000101	]	PD in PSI	5.9	7.7	10.3	13.8
PUMP SELECTIO	ON	]		at design flow		
Horsepower			1	1.5	1.5	2

(Notes: Fluid Coolers are not available in 575 volts. Fluid Coolers are selected at sea level. Pump selection is based on total available head pressure of 80 feet.)

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

<sup>\*</sup>W - Water cooled G - Glycol cooled

# WATER COOLED: Performance data at OPTIONAL airflow with dual compressors

MODEL NUMBER:	DALW	06-P-D	08-P-D	10-P-D	13-P-D
CAPACITY in Btu/hr - gros	SS				
80° DB/67° WB Total		89,600	114,400	144,900	176,400
50% RH Sensible		71,100	89,500	116,600	137,900
75° DB/62.5° WB Total		82,600	104,600	133,900	161,400
50% RH Sensible		69,800	87,600	114,600	135,000
75° DB/61° WB Total		80,000	102,300	130,000	157,900
45% RH Sensible		74,400	93,600	122,300	144,300
72° DB/60° WB Total		78,800	100,000	127,300	155,700
50% RH Sensible		68,300	85,800	111,900	138,800
72° DB/58.6° WB Total		76,700	98,000	123,800	151,700
45% RH Sensible		72,700	91,500	119,000	141,100
	ED: Berfermense				,
GLYCOL COOL	ED: Performance	data at OPTIONA	AL airiiow with du	iai compressors	
MODEL NUMBER:	DALG	06-P-D	08-P-D	10-P-D	13-P-D
CAPACITY in Btu/hr - gros	SS				
80° DB/67° WB Total		80,100	107,800	136,200	166,400
50% RH Sensible		67,600	87,100	113,400	134,100
75° DB/62.5° WB Total		73,300	95,600	125,000	153,200
50% RH Sensible		66,000	83,900	111,000	131,600
75° DB/61° WB Total		70,900	95,700	121,200	148,900
45% RH Sensible		70,600	90,800	118,600	140,500
72° DB/60° WB Total		69,300	93,500	119,700	145,900
50% RH Sensible		64,300	83,000	108,600	128,600
72° DB/58.6° WB Total		67,400	90,900	115,400	142,100
45% RH Sensible		67,100	88,300	115,300	136,900
-The	following sections a	pply to both Glycol	and Water cooled ui	nits	
BLOWER SECTION					
Airflow - CFM		3,000	3,600	4,750	5,500
Standard motor - horsepower		2	3	5	5
External Static Pressure (E.S.P.) -	inches of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1	1/1
	tandard Motor)	1.3	1.5	1.5	0.8
•	ext Size Motor)	1.3	1.5	1.5	0.8
Next size motor - horsepower	,	3	5	7.5	7.5
COMPRESSORS					
Туре		Scroll	Scroll	Scroll	Scroll
Quantity		2	2	2	2
Refrigerant type		R-407C	R-407C	R-407C	R-407C

MODEL NUMBER:	$DAL^*$	06-WP-D	08-WP-D	10-WP-D	13-WP-D
EVAPORATOR COIL					
Face area - sq ft		12.2	12.2	12.2	12.2
Rows of coils		3	4	5	5
Face velocity - fpm		246	295	389	451
REHEAT SECTION					
Electric		Standard	Standard	Standard	Standard
kW		15	15	15	15
Capacity Btu/hr		51,225	51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
Capacity - lb/hr	(Adjustable)	10	10	10	10
kW		3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr	(Adjustable)	10-30	10-30	10-30	10-30
FILTER SECTION					
Quantity		2	2	2	2
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency percentage		30	30	30	30
(Note: Efficiency based on ASHRAE	E Std. 52.1-1992.)				
GONNE GENON GYGNG					
CONNECTION SIZES					
Condensate water supply - O.D. C	Copper	1-5/8	1-5/8	1-5/8	1-5/8
Condensate water return - O.D. C	opper	1-5/8	1-5/8	1-5/8	1-5/8
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
ELECTRICAL SECTION	S	tandard Motor			
Electrical data based on: electric	reheat. VFC 10.1k	hr stagm gangrator b	numidifier VFC on	A STANDADD MO	TOR
	ICA/MOP	60/73/80	64/77/80	74/89/90	75/90/100
	ICA/MOP	28/34/35	30/37/40	34/41/45	36/43/45
	ICA/MOP	23/27/30	24/29/30	27/33/35	28/33/35
Electrical data based on: electric	reheat - YES, 30 lb	hr steam generator h	numidifier - YES, an	d STANDARD MO	
208-230/3/60 FLA/N	ICA/MOP	60/73/80	64/77/80	78/89/90	80/92/100
460/3/60 FLA/N	ICA/MOP	28/34/35	30/37/40	37/43/45	40/46/50
575/3/60 FLA/N	ICA/MOP	23/27/30	24/29/30	30/34/35	30/35/40
Electrical data based on: electric	reheat - NO, 10 lb/			STANDARD MOT	
	ICA/MOP	45/52/60	52/59/60	66/74/80	68/77/80
	ICA/MOP	22/25/30	26/30/35	32/36/40	32/39/45
575/3/60 FLA/N	ICA/MOP	18/20/25	21/24/25	25/29/30	26/29/35
* W - Water cooled G - Glycol	l cooled				

MODEL NUMBER:		DAL*	06-WP-D	08-WP-D	10-WP-D	13-WP-D
ELECTRICAL SE	CTION	Star	ndard Motor - con	ntinued		
Electrical data based on:	electric reheat -	NO 30 lb/l	ar steam generator	humidifier - VES	and STANDARD M	1OTOR
208-230/3/60	FLA/MCA/M0		57/67/70	64/74/80	78/89/90	80/92/100
460/3/60	FLA/MCA/MC		27/32/35	32/37/40	37/43/45	40/46/50
575/3/60	FLA/MCA/MO		22/26/30	25/29/30	30/34/35	30/35/40
Electrical data based on:	electric reheat -	YES, stean	n generator humid	ifier - NO, and STA	NDARD MOTOR.	
208-230/3/60	FLA/MCA/MO	OP	60/73/80	64/77/80	74/89/90	75/90/100
460/3/60	FLA/MCA/MO	OP	28/34/35	30/37/40	34/41/45	36/43/45
575/3/60	FLA/MCA/MO	OP	23/27/30	24/29/30	27/33/35	28/33/35
Electrical data based on:	electric reheat -	NO, steam	generator humidif	ier - <u>NO</u> , and STA	NDARD MOTOR.	
208-230/3/60	FLA/MCA/MO		29/32/40	35/39/50	49/54/70	52/57/70
460/3/60	FLA/MCA/MO		14/16/20	19/21/25	25/27/35	27/30/40
575/3/60	FLA/MCA/MO	OP	12/13/15	15/16/20	20/21/25	20/22/25
STANDARD MOT	OR					
Horsepower			3	3	5	5
208-230/3/60	FLA		8.4	8.4	14.8	14.8
460/3/60	FLA		4.2	4.2	6.6	6.6
575/3/60	FLA		3.3	3.3	5.3	5.3
ELECTRICAL SE	CTION	N	ext Size Motor			
Electrical data based on:						
208-230/3/60	FLA/MCA/MO		67/81/90	70/84/90	79/94/100	80/96/100
460/3/60	FLA/MCA/MO		31/37/40	33/39/40	38/45/50	39/47/50
575/3/60	FLA/MCA/MO		25/30/35	26/31/35	31/37/40	31/37/40
Electrical data based on:						
208-230/3/60	FLA/MCA/MC		67/81/90	70/84/90	83/95/100	86/98/100
460/3/60	FLA/MCA/MC		31/37/40	33/39/40	41/47/50	44/49/50
575/3/60	FLA/MCA/MO		25/30/35	26/31/35	33/38/40	34/38/40
Electrical data based on:			_			
208-230/3/60	FLA/MCA/MC		52/60/70	58/66/70	71/80/90	74/83/90
460/3/60	FLA/MCA/MO		24/28/30	29/32/35	35/40/45	38/43/50
575/3/60 Electrical data based on:			20/22/25	23/26/30	29/32/35	29/33/40 OTOP
208-230/3/60	FLA/MCA/MC		64/75/80	70/81/90	83/95/100	86/98/100
460/3/60	FLA/MCA/MC		30/34/35	34/39/40	41/47/50	44/49/50
575/3/60	FLA/MCA/MC		24/28/30	27/31/35	33/38/40	34/38/40
Electrical data based on:						34/30/40
208-230/3/60	FLA/MCA/M0		67/81/90	70/84/90	79/94/100	80/96/100
460/3/60	FLA/MCA/MC		31/37/40	33/39/40	38/45/50	39/47/50
575/3/60	FLA/MCA/MC		25/30/35	26/31/35	31/37/40	31/37/40
Electrical data based on:						31/3// 10
208-230/3/60	FLA/MCA/MO		35/39/50	42/46/60	55/60/70	57/62/80
460/3/60	FLA/MCA/MC		17/18/25	21/23/30	28/31/40	31/33/40
575/3/60	FLA/MCA/MC		14/15/20	17/18/20	23/25/30	23/26/30
* W - WATER COOLED						

## WATER/GLYCOL COOLED: Performance data at OPTIONAL airflow with dual compressors

MODEL NUMBER:	$DAL^*$	06-WP-D	08-WP-D	10-WP-D	13-WP-D
NEXT SIZE MOTOR					
Horsepower 208-230/3/60 FLA 460/3/60 FLA		5 14.8 6.6	5 14.8 6.6	7.5 20.0 10.1	7.5 20.0 10.1
575/3/60 FLA		5.3	5.3	8.6	8.6
COMPRESSORS					
208-230/3/60 FLA 460/3/60 FLA		10.3 5.1	13.5 7.4	17.3 9.0	18.6 10.3
575/3/60 FLA		4.2	5.8	7.1	7.4
FLUID COOLER					
	odel number MCA/MOP MCA/MOP	DAFC-11 8.4/9.5/15 4.2/4.7/15	DAFC-15 8.4/9.5/15 4.2/4.7/15	DAFC-21 13/14/15 6.3/6.8/15	DAFC-21 13/14/15 6.3/6.8/15
	model number /MCA/MOP /MCA/MOP	DAFC-21 13/14/15 6.3/6.8/15	DAFC-21 13/14/15 6.3/6.8/15	DAFC-24 13/14/15 6.3/6.8/15	DAFC-30 17/18/20 8.4/8.9/15
CONDENSER WATER					
65° F entering fluid temperature	GPM PD in PSI	7 1.9	10 2.1	12 2.3	16 3.6
75° F entering fluid temperature	GPM PD in PSI	11 2.8	15 3.4	19 3.7	21 4.8
85° F entering fluid temperature	GPM PD in PSI	16 3.2	21 4.0	26 5.3	34 6.6
With fluid cooler	GPM PD in PSI	21 5.9	28 7.7	35 10.3	46 13.8
PUMP SELECTION		at design flow			
Horsepower		1	1.5	1.5	2

(Notes: Fluid Coolers are not available in 575 volts. Fluid Coolers are selected at sea level. Pump selection is based on total available head pressure of 80 feet.)

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

<sup>\*</sup> W - Water cooled G - Glycol cooed

# CHILLED WATER: Performance data at STANDARD airflow

MODEL NUMBER:	DALC-06	DALC-08	DALC-10	DALC-13
CAPACITY in Btu/hr - gross	45°	F Entering Chilled	Water	
80° DB/67° WB Total 50% RH Sensible	97,600 68,700	126,600 87,400	161,900 113,900	194,900 148,100
Flow rate - GPM	17.0	19.0	20.0	25.0
Pressure drop - PSI 75° DB/62.5° WB Total	7.4 73,600	8.3 95,900	10.1 123,800	15.3 150,300
50% RH Sensible	60,300	76,800	100,800	123,600
Flow rate - GPM	15.0	17.0	18.0	23.0
Pressure drop - PSI	5.8	6.8	8.3	13.1
75° DB/61° WB Total	67,900	88,400	115,300	136,900
45% RH Sensible	62,000	79,000	104,300	126,100
Flow rate - GPM	14.0	16.0	17.0	20.0
Pressure drop - PSI	5.1	6.1	7.4	10.1
72° DB/60° WB Total	60,900	79,500	103,300	120,700
50% RH Sensible	54,500	69,500	91,700	109,700
Flow rate - GPM	13.0	15.0	16.0	18.0
Pressure drop - PSI 72° DB/58.6° WB Total	4.5	5.4	6.7	8.3
45% RH Sensible	57,100 55,800	73,100 70,700	97,600 94,600	113,100 111,500
Flow rate - GPM	12.0	13.0	15.0	111,300
Pressure drop - PSI	3.8	4.1	5.9	6.7
Tressure drop TST	5.0	7.1	3.7	0.7
BLOWER SECTION				
Airflow - CFM	2,500	3,000	4,000	5,000
Standard motor - horsepower	2	2	3	5
External Static Pressure (E.S.P.) - inches of W.G.	0.5	0.5	0.5	0.5
Number of motors/fans	1/1	1/1	1/1	1/1
Maximum E.S.P. (Standard Motor)	0.9	1.3	1.4	1.1
Maximum E.S.P. (Next Size Motor)	0.9	1.3	1.5	1.1
Next size motor - horsepower	3	3	5	7.5
CHILLED WATER COIL				
Face area - sq ft	12.2	12.2	12.2	12.2
Rows of coils	3	4	5	5
Face velocity - FPM	205	246	328	410
CHILLED WATER CONTROL Desig	n Pressure 400 psi			
Control method	On/Off	On/Off	On/Off	On/Off
Valve body	3-Way	3-Way	3-Way	3-Way
Valve CV	10	16	16	16
Valve size - inches	1	1 1/4	1 1/4	1 1/4
REHEAT SECTION				
Electric	Chan 1 1	Cton 1 1	Char Jan J	C4 1 1
Electric	Standard	Standard	Standard	Standard
kW	15 51 225	15 51 225	15 51 225	15 51 225
Capacity in Btu/hr	51,225	51,225	51,225	51,225

# CHILLED WATER: Performance data at STANDARD airflow

MODEL NUMBER:			DALC-06	DALC-08	DALC-10	DALC-13
FILTER SECTION	N					
Quantity		•	2	2	2	2
Size - inches			20x25x4	20x25x4	20x25x4	20x25x4
Quantity			2	2	2	2
Size - inches			16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - percentage			30	30	30	30
(Note: Efficiency based	on ASHRAE Std. 52	2.1-1992.)				
HUMIDIFIER SE	CTION					
Steam generator			Optional	Optional	Optional	Optional
kW			3.4	3.4	3.4	3.4
Capacity - lb/hr	(Ad	djustable)	10	10	10	10
kW			3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr	(Aa	djustable)	10-30	10-30	10-30	10-30
ELECTRICAL SE	CTION		Standard Motor			
Electrical data based on:	electric reheat	- <b>VFS</b> 101	h/hr steam generati	or humidifier - VFS	and STANDARD I	MOTOR
208-230/3/60	FLA/MCA/N		48/60/70	48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/N		22/27/30	22/27/30	23/29/30	25/32/35
575/3/60	FLA/MCA/N		18/22/25	18/22/25	18/23/25	20/25/30
Electrical data based on:						
208-230/3/60	FLA/MCA/N		48/60/70	48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/N		22/27/30	22/27/30	23/29/30	25/32/35
575/3/60	FLA/MCA/N		18/22/25	18/22/25	18/23/25	20/25/30
Electrical data based on:						
208-230/3/60	FLA/MCA/N		22/28/30	22/28/30	25/31/35	31/39/45
460/3/60	FLA/MCA/N		10/13/15	10/13/15	12/14/15	14/17/20
575/3/60	FLA/MCA/N		8.4/11/15	8.4/11/15	9.2/12/15	11/14/15
Electrical data based on:						
208-230/3/60	FLA/MCA/N		34/43/45	34/43/45	37/46/50	43/54/60
460/3/60	FLA/MCA/N		16/20/25	16/20/25	17/21/25	19/24/25
575/3/60	FLA/MCA/N		13/16/20	13/16/20	14/17/20	16/19/20
Electrical data based on:						
208-230/3/60	FLA/MCA/N		48/60/70	48/60/70	50/63/70	56/71/80
460/3/60	FLA/MCA/N	<b>1</b> ОР	22/27/30	22/27/30	23/29/30	25/32/35
575/3/60	FLA/MCA/N		18/22/25	18/22/25	18/23/25	20/25/30
Electrical data based on:	electric reheat	- NO, stean	n generator humidi	fier - NO, and STA	NDARD MOTOR.	
208-230/3/60	FLA/MCA/N		6.0/7.5/15	6.0/7.5/15	8.4/11/15	15/19/30
460/3/60	FLA/MCA/N	<b>1</b> ОР	3.0/3.8/15	3.0/3.8/15	4.2/5.3/15	6.6/8.3/15
575/3/60	FLA/MCA/N	ИОР	2.5/3.1/15	2.5/3.1/15	3.3/4.1/15	5.3/6.6/15
STANDARD MOT	OR					
Horsepower			2	2	3	5
208-230/3/60	FLA		6.0	6.0	8.4	14.8
460/3/60	fla FLA		3.0	3.0	4.2	6.6
	FLA FLA		2.5	2.5	3.3	5.3
575/3/60	ГLA		2.3	2.5	3.3	3.3

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MOP - Maximum Rating of the Overcurrent Protective Device

MCA - Minimum circuit amps (wire sizing amps)

FLA - Full load amps

# CHILLED WATER: Performance data at STANDARD airflow

MODEL NUMBER:		DALC-06	DALC-08	DALC-10	DALC-13
ELECTRICAL SI	ECTION	Next Size Motor			
Electrical data based on	o: electric reheat - <b>VE</b> S	S, 10 lb/hr steam general	tor humidifier - <b>VES</b>	and NEXT SIZE N	/OTOR
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40
575/3/60	FLA/MCA/MOP	18/23/25	18/23/25	20/25/30	24/30/35
		S, 30 lb/hr steam general			
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40
575/3/60	FLA/MCA/MOP	18/23/25	18/23/25	20/25/30	24/30/35
		, 10 lb/hr steam generate			
208-230/3/60	FLA/MCA/MOP	25/31/35	25/31/35	31/39/45	36/45/60
460/3/60	FLA/MCA/MOP	12/14/15	12/14/15	14/17/20	17/22/30
575/3/60	FLA/MCA/MOP	9.2/12/15	9.2/12/15	11/14/15	15/18/25
		, 30 lb/hr steam generate			
208-230/3/60	FLA/MCA/MOP	37/46/50	37/46/50	43/54/60	48/60/70
460/3/60	FLA/MCA/MOP	17/21/25	17/21/25	19/24/25	23/29/35
575/3/60	FLA/MCA/MOP	14/17/20	14/17/20	16/19/20	19/24/25
Electrical data based on	: electric reheat - YES	S, steam generator humic	difier - NO, and NEX	XT SIZE MOTOR.	
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	62/77/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	29/36/40
575/3/60	FLA/MCA/MOP	18/23/25	18/23/25	20/25/30	24/30/35
Electrical data based on	: electric reheat - NO	, steam generator humid	ifier - NO, and NEX	T SIZE MOTOR.	
208-230/3/60	FLA/MCA/MOP	8.4/11/15	8.4/11/15	15/19/30	20/25/45
460/3/60	FLA/MCA/MOP	4.2/5.3/15	4.2/5.3/15	6.6/8.3/15	10/13/20
575/3/60	FLA/MCA/MOP	3.3/4.1/15	3.3/4.1/15	5.3/6.6/15	8.6/11/15
NEXT SIZE MOT	TOR				
Horsepower		3	3	5	7.5
208-230/3/60	FLA	8.4	8.4	14.8	20.0
460/3/60	FLA	4.2	4.2	6.6	10.1
575/3/60	FLA	3.3	3.3	5.3	8.6
373/3/00	TLA	5.5	5.5	5.5	0.0
CONNECTION S	IZES				
Supply - O.D. Copper		1-5/8	1-5/8	1-5/8	1-5/8
Return - O.D. Copper		1-5/8	1-5/8	1-5/8	1-5/8
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
Trainianier suppry		1/4	1/ 寸	1/寸	1/ 4

# CHILLED WATER: Performance data at OPTIONAL airflow

MODEL NUMBER:	DALC-06	DALC-08	DALC-10	DALC-13		
CAPACITY in Btu/hr - gross	at 45°F Entering Chilled Water					
80° DB/67° WB Total	106,700	138,600	175,000	203,600		
50% RH Sensible	77,700	98,900	127,800	148,100		
Flow rate - GPM	17.0	19.0	20.0	25.0		
Pressure drop - PSI	7.4	8.3	10.1	15.3		
75° DB/62.5° WB Total	80,900	105,700	135,000	157,700		
50% RH Sensible	68,500	87,500	113,800	132,200		
Flow rate - GPM	15.0	17.0	18.0	23.0		
Pressure drop - PSI	5.8	6.8	8.3	13.1		
75° DB/61° WB Total	75,200	98,400	126,900	144,300		
45% RH Sensible	70,500	90,300	118,000	134,800		
Flow rate - GPM	14.0	16.0	17.0	20.0		
Pressure drop - PSI	5.1	6.1	7.4	10.1		
72° DB/60° WB Total	67,100	88,100	113,100	126,800		
50% RH Sensible	61,800	79,300	103,400	117,000		
Flow rate - GPM	13.0	15.0	16.0	18.0		
Pressure drop - PSI	4.5	5.4	6.7	8.3		
72° DB/58.6° WB Total	63,600	81,700	107,900	119,200		
45% RH Sensible	63,000	80,300	106,300	118,300		
Flow rate - GPM	12.0	13.0	15.0	16.0		
Pressure drop - PSI	3.8	4.1	5.9	6.7		
BLOWER SECTION						
Airflow - CFM	3,000	3,600	4,750	5,500		
Standard motor - horsepower	2	3	5	5		
External Static Pressure (E.S.P.) - inches of W.G.	0.5	0.5	0.5	0.5		
Number of motors/fans	1/1	1/1	1/1	1/1		
Maximum E.S.P. (Standard Motor)	1.3	1.5	1.5	0.8		
Maximum E.S.P. (Next Size Motor)	1.3	1.5	1.5	0.8		
Next size motor - horsepower	3	5	7.5	7.5		
CHILLED WATER COIL						
Face are - sq ft	12.2	12.2	12.2	12.2		
Rows of coils	3	4	5	5		
Face velocity - fpm	246	295	389	451		
CHILLED WATER CONTROL Design	gn pressure 400 psi	i				
Control method	On/Off	On/Off	On/Off	On/Off		
Valve body	3-way	3-way	3-way	3-way		
Valve CV	10	16	16	16		
Valve size - inches	1	1 1/4	1 1/4	1 1/4		
REHEAT SECTION						
Electric	Standard	Standard	Standard	Standard		
kW	15	15	15	15		
Capacity - Btu/hr	51,225	51,225	51,225	51,225		

# CHILLED WATER: Performance data at OPTIONAL airflow

MODEL NUMBER:		DALC-06	DALC-08	DALC-10	DALC-13
FILTER SECTION	N				
0		2	2	2	2
Quantity		20254	20254	20254	20254
Size - inches		20x25x4	20x25x4	20x25x4	20x25x4
Quantity		2	2	2	2
Size - inches		16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - Percentage		30	30	30	30
(Note: Efficiency based	on ASHRAE Std. 52.1-1992.)				
HUMIDIFIER SE	CTION				
Steam generator		Optional	Optional	Optional	Optional
kW		3.4	3.4	3.4	3.4
Capacity - lb/hr	(Adjustable)	10	10	10	10
kW	(	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
Capacity - lb/hr	(Adjustable)	10-30	10-30	10-30	10-30
1 ,	,				
ELECTRICAL SE	CTION	Standard Motor			
	electric reheat - YES, 10	_			
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	25/32/35
575/3/60	FLA/MCA/MOP	18/23/25	18/23/25	20/25/30	20/25/30
	electric reheat - YES, 30	_			
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	25/32/35
575/3/60	FLA/MCA/MOP	18/23/25	18/23/25	20/25/30	20/25/30
	electric reheat - NO, 10	_			
208-230/3/60	FLA/MCA/MOP	25/31/35	25/31/35	31/39/45	31/39/45
460/3/60	FLA/MCA/MOP	12/14/15	12/14/15	14/17/20	14/17/20
575/3/60	FLA/MCA/MOP	9.2/12/15	9.2/12/15	11/14/15	11/14/15
	electric reheat - NO, 30				
208-230/3/60	FLA/MCA/MOP	37/46/50	37/46/50	43/54/60	43/54/60
460/3/60	FLA/MCA/MOP	17/21/25	17/21/25	19/24/25	19/24/25
575/3/60	FLA/MCA/MOP	14/17/20	14/17/20	16/19/20	16/19/20
	electric reheat - YES, ste	_			E C / E 1 / 100
208-230/3/60	FLA/MCA/MOP	50/63/70	50/63/70	56/71/80	56/71/80
460/3/60	FLA/MCA/MOP	23/29/30	23/29/30	25/32/35	25/32/35
575/3/60	FLA/MCA/MOP	18/23/25	18/23/25	20/25/30	20/25/30
	electric reheat - NO, stea				1.7/10/20
208-230/3/60	FLA/MCA/MOP	8.4/11/15	8.4/11/15	15/19/30	15/19/30
460/3/60	FLA/MCA/MOP	4.2/5.3/15	4.2/5.3/15	6.6/8.3/15	6.6/8.3/15
575/3/60	FLA/MCA/MOP	3.3/4.1/15	3.3/4.1/15	5.3/6.6/15	5.3/6.6/15
STANDARD MOT	TOR				
Horsenower		3	3	5	5
Horsepower 208-230/3/60	FLA				
		8.4	8.4	14.8	14.8
460/3/60	FLA	4.2	4.2	6.6	6.6
575/3/60	FLA	3.3	3.3	5.3	5.3

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum Rating of the Overcurrent Protective Device

# CHILLED WATER: Performance data at OPTIONAL airflow

MODEL NUMBER:		DALC-06	DALC-08	DALC-10	DALC-13
ELECTRICAL SI	ECTION	<b>Next Size Motor</b>			
Electrical data based on	· electric reheat	- <b>YES</b> , 10 lb/hr steam genera	ator humidifier - <b>VF</b> 9	and NEXT SIZE MO	)TOR
208-230/3/60	FLA/MCA/M			62/77/80	62/77/80
460/3/60	FLA/MCA/M			29/36/40	29/36/40
575/3/60	FLA/MCA/M			24/30/35	24/30/35
		- YES, 30 lb/hr steam genera			
208-230/3/60	FLA/MCA/N			62/77/80	62/77/80
460/3/60	FLA/MCA/M			29/36/40	29/36/40
575/3/60	FLA/MCA/M			24/30/35	24/30/35
		- NO, 10 lb/hr steam generat			
208-230/3/60	FLA/MCA/N			36/45/60	36/45/60
460/3/60	FLA/MCA/N			17/22/30	17/22/30
575/3/60	FLA/MCA/N			15/18/25	15/18/25
		- NO, 30 lb/hr steam generat			
208-230/3/60	FLA/MCA/N			48/60/70	48/60/70
460/3/60	FLA/MCA/N	MOP 19/24/25	19/24/25	23/29/35	23/29/35
575/3/60	FLA/MCA/N	10P 16/19/20	16/19/20	19/24/25	19/24/25
Electrical data based on	: electric reheat	- YES, steam generator humi			
208-230/3/60	FLA/MCA/N			62/77/80	62/77/80
460/3/60	FLA/MCA/N	1OP 25/32/35	25/32/35	29/36/40	29/36/40
575/3/60	FLA/MCA/N	1OP 20/25/30	20/25/30	24/30/35	24/30/35
Electrical data based on		- NO, steam generator humic	difier - NO, and NEX	T SIZE MOTOR.	
208-230/3/60	FLA/MCA/N			20/25/45	20/25/45
460/3/60	FLA/MCA/N	1OP 6.6/8.3/15	6.6/8.3/15	10/13/20	10/13/20
575/3/60	FLA/MCA/M	TOP 5.3/6.6/15	5.3/6.6/15	8.6/11/15	8.6/11/15
NIEWE CHEE MOR	no n				
NEXT SIZE MOT	TOR				
Horsepower		5	5	7.5	7.5
208-230/3/60	FLA	14.8		20.0	20.0
460/3/60	FLA	6.6		10.1	10.1
575/3/60	FLA	5.3		8.6	8.6
373/3/00	1271	3.3	3.3	0.0	0.0
GONNE GENON G	Tana				
CONNECTION S	IZES				
Supply - O.D. Copper		1-5/8	1-5/8	1-5/8	1-5/8
Return - O.D. Copper		1-5/8		1-5/8	1-5/8
Condensate drain		3/4		3/4	3/4
Humidifier supply		1/4		1/4	1/4
rammamer suppry		1/4	1/4	1/4	1/4

### LCS - Dimensional and weight data - evaporator section

### **AIR COOLED with SINGLE COMPRESSOR**

				Operating	Shipping
Model	Length	Width	Height	Weight	Weight
DALA-06xx-CO-S	72.00	48.00	28.50	855	975 lbs
DALA-08xx-CO-S	72.00	48.00	28.50	955	1,075 lbs
DALA-10xx-CO-S	72.00	48.00	28.50	980	1,100 lbs
DALA-13xx-CO-S	72.00	48.00	28.50	1,015	1,135 lbs

### **AIR COOLED with DUAL COMPRESSORS**

(using remote air cooled condenser)

				Operating	Shipping
Model	Length	Width	Height	Weight	Weight
DALA-06xx-CO-D	72.00	48.00	28.50	890	1,010 lbs
DALA-08xx-CO-D	72.00	48.00	28.50	915	1,035 lbs
DALA-10xx-CO-D	72.00	48.00	28.50	990	1,110 lbs
DALA-13xx-CO-D	72.00	48.00	28.50	1025	1,145 lbs

### AIR COOLED with SINGLE COMPRESSOR

(using outdoor condensing unit)

				Operating	Shipping
Model	Length	Width	Height	Weight	Weight
DALA-06xx-AO-S	72.00	48.00	28.50	755	875 lbs
DALA-08xx-AO-S	72.00	48.00	28.50	850	970 lbs
DALA-10xx-AO-S	72.00	48.00	28.50	950	1,070 lbs
DALA-13xx-AO-S	72.00	48.00	28.50	980	1,100 lbs

### AIR COOLED with DUAL COMPRESSORS

(using outdoor condensing unit)

				Operating	Shipping
Model	Length	Width	Height	Weight	Weight
DALA-06xx-AO-D	72.00	48.00	28.50	790	910 lbs
DALA-08xx-AO-D	72.00	48.00	28.50	885	1,005 lbs
DALA-10xx-AO-D	72.00	48.00	28.50	985	1,140 lbs
DALA-13xx-AO-D	72.00	48.00	28.50	1,015	1,135 lbs

For remote air cooled condenser and condensing unit dimensions and weights, see drawings on pages 64 - 70.

# LCS - dimensional and weight data - evaporator section

### WATER/GLYCOL COOLED with SINGLE COMPRESSOR

				Operating	Shipping
Model	Length	Width	Height	Weight	Weight
DAL*-06xx-WP-S	72.00	48.00	28.50	1,005	1,125 lbs
DAL*-08xx-WP-S	72.00	48.00	28.50	1,105	1,225 lbs
DAL*-10xx-WP-S	72.00	48.00	28.50	1,160	1,280 lbs
DAL*-13xx-WP-S	72.00	48.00	28.50	1,205	1,325 lbs

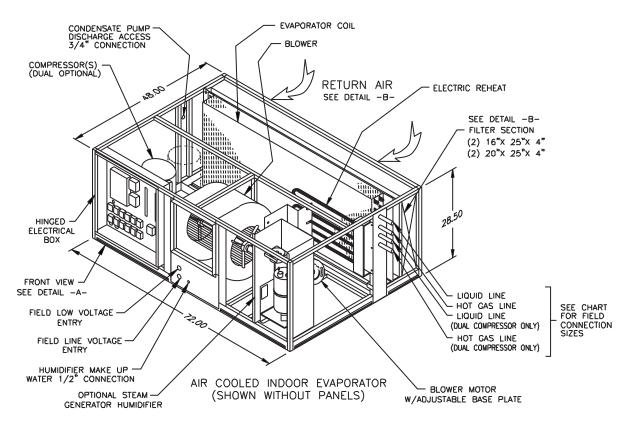
### WATER/GLYCOL COOLED with DUAL COMPRESSORS

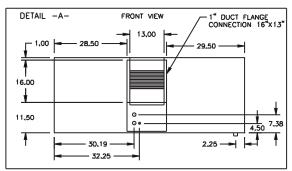
				Operating	Shipping
Model	Length	Width	Height	Weight	Weight
DAL*-06xx-WP-D	72.00	48.00	28.50	1,040	1,160 lbs
DAL*-08xx-WP-D	72.00	48.00	28.50	1,080	1,200 lbs
DAL*-10xx-WP-D	72.00	48.00	28.50	1,130	1,250 lbs
DAL*-13xx-WP-D	72.00	48.00	28.50	1,175	1,295 lbs

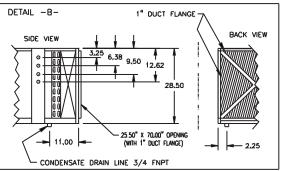
### **CHILLED WATER**

				Operating	Shipping
Model	Length	Width	Height	Weight	Weight
DALC-06xx	72.00	48.00	28.50	550	670 lbs
DALC-08xx	72.00	48.00	28.50	570	690 lbs
DALC-10xx	72.00	48.00	28.50	630	750 lbs
DALC-13xx	72.00	48.00	28.50	660	780 lbs

<sup>\*</sup>W - Water cooled G - Glycol cooled



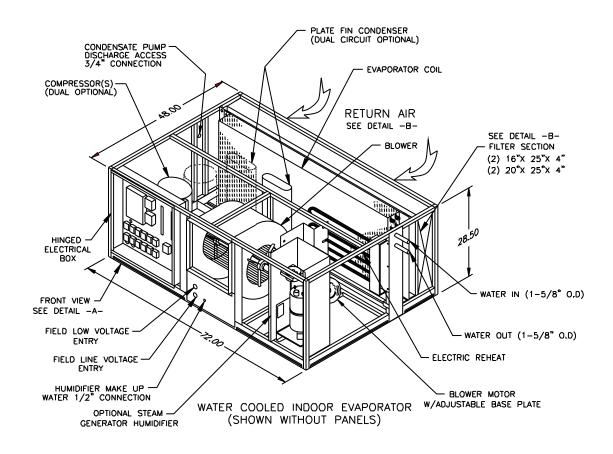


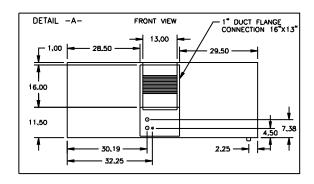


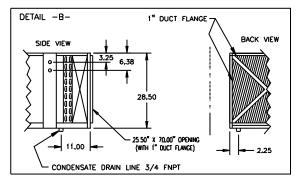
PIPING CHART							
UNIT SIZE	MODEL TYPE	LIQUID LINE	HOT GAS LINE				
6 TON			1/2 <sup>*</sup> 0.D.				
6 IUN	DUAL	1/2 <sup>**</sup> 0,D.	1/2 <sup>**</sup> 0,D,				
8 TON	SINGLE	5/8*0.D	3/4*0.D.				
B IUN	DUAL	1/2 <sup>**</sup> 0,D.	1/2 <sup>™</sup> 0,D,				
10 TON	SINGLE	5/8*0.D.	3/4*0.D.				
10 TON	DUAL	1/2 <sup>**</sup> 0,D.	1/2 <sup>™</sup> 0,D,				
1.3 TON	SINGLE	5/8*0.D	3/4*0.D.				
13 TON	DUAL	1/2 O.D	1/2 O,D.				

### **NOTES:**

1. FACTORY RECOMMENDED CLEARANCES
ARE 24<sup>th</sup> OF OPEN SPACE AT THE FRONT
AND SIDES OF THE UNIT, WHICH ARE
MINIMUM CLEARANCE REQUIRED CONSULT
LOCAL BUILDING CODES AND NEC REQUIREMENTS
FOR ADDITIONAL CLEARANCE REQUIREMENTS

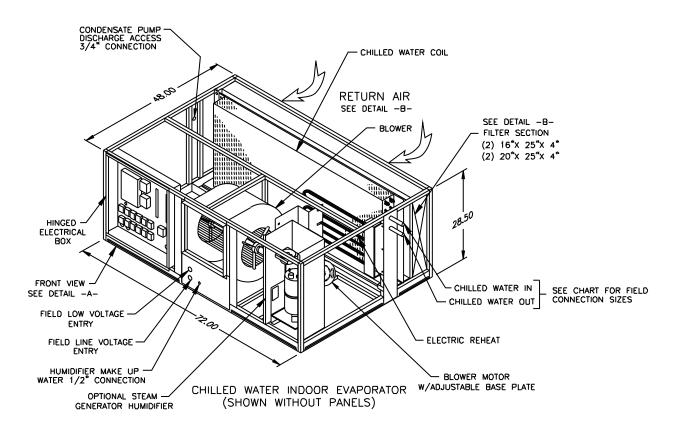


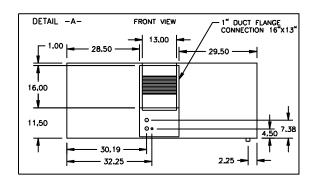


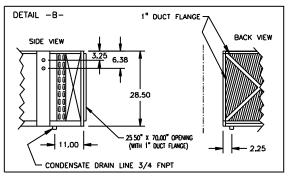


## **NOTES:**

1. FACTORY RECOMMENDED CLEARANCES
ARE 24° OF OPEN SPACE AT THE FRONT
AND SIDES OF THE UNIT, WHICH ARE
MINIMUM CLEARANCE REQUIRED CONSULT
LOCAL BUILDING CODES AND NEC REQUIREMENTS
FOR ADDITIONAL CLEARANCE REQUIREMENTS



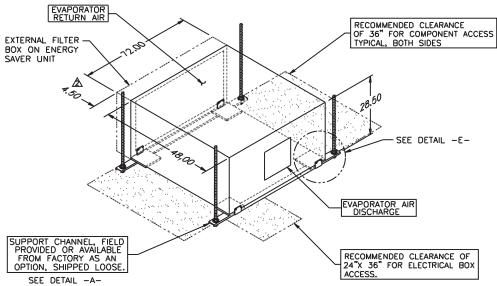




F	HART		
UNIT SIZE	WATER IN	WATER OUT	
6 TON	1-1/8*0,D,	1-1/8*0,D,	
8 TON	1-5/8*0,D,	1-5/8 <b>*</b> 0,D.	
10 TON	1-5/8 <b>*</b> 0.0.	1-5/8*0,0,	
13 TON	1-5/8 <b>*</b> 0,D,	1-5/8 <b>"</b> 0,D.	

# NOTES:

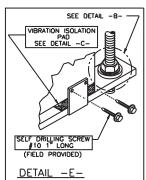
FACTORY RECOMMENDED CLEARANCES
 ARE 24" OF OPEN SPACE AT THE FRONT
 AND SIDES OF THE UNIT, WHICH ARE
 MINIMUM CLEARANCE REQUIRED CONSULT
 LOCAL BUILDING CODES AND NEC REQUIREMENTS
 FOR ADDITIONAL CLEARANCE REQUIREMENTS

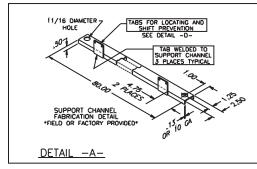


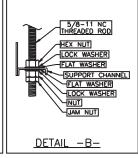
NOTE:

1, UNIT MUST BE LEVEL WHEN INSTALLATION
IS COMPLETE,

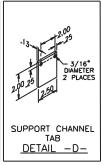
ADD AN ADDITIONAL 4 1/2\* FOR ENERGY SAVER UNITS



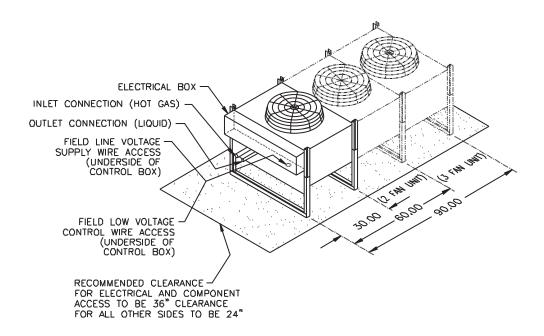




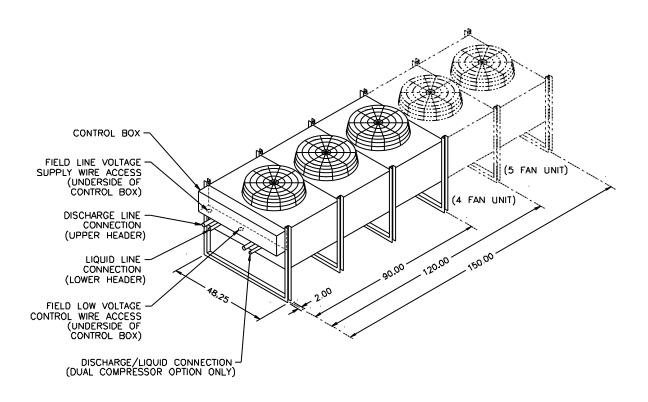




### Air cooled condenser - single circuit



	PIPE CONNECTION SIZES						STANDARD CONDENSER				LOW (	DECIBEL CON	DENSER		
MODEL		UNIT	(COPPER S		QTY,	H.P.	DOM	TOTAL CFM	MOTOR	FLA	H.P.	RPM	TOTAL CFM	MOTOR	FLA
NUMBER	LENGTH	NET WT.#	HOT GAS	LIQUID	MOTORS	H.F.	KPM	TOTAL CEM	208/230V	460V	H,P.	KFM	TOTAL CEM	208/230V	460V
DARC 06	32-1/4"	220	1-1/8	7/8	1	3/4	1075	5000	4.2	2.1	1/2	850	4000	3,2	1.6
DARC 07	32-1/4 <sup>w</sup>	250	1-1/8	7/8	1	3/4	1075	4900	4,2	2,1	1/2	850	3900	3,2	1,6
DARC 09	32-1/4*	270	1-1/8	7/8	1	3/4	1075	4800	4.2	2.1	1/2	850	3800	3,2	1.6
DARC 11	62-1/4 <sup>4</sup>	<b>3</b> 00	1-1/8	7/8	2	3/4	1075	10400	8,4	4,2	1/2	850	8300	6.4	3,2
DARC 15	62-1/4"	310	1-1/8	7/8	2	3/4	1075	10000	8.4	4.2	1/2	850	8000	5.4	3.2
DARC 17	62-1/4*	320	1-3/8	7/8	2	3/4	1075	9800	8,4	4,2	1/2	850	7500	6.4	3,2
DARC 21	92-1/4"	450	1-1/8	7/8	3	3/4	1075	15000	12.6	6.3	1/2	850	12000	9.6	4,8



PHYSICAL	DATA
11131000	חוחם

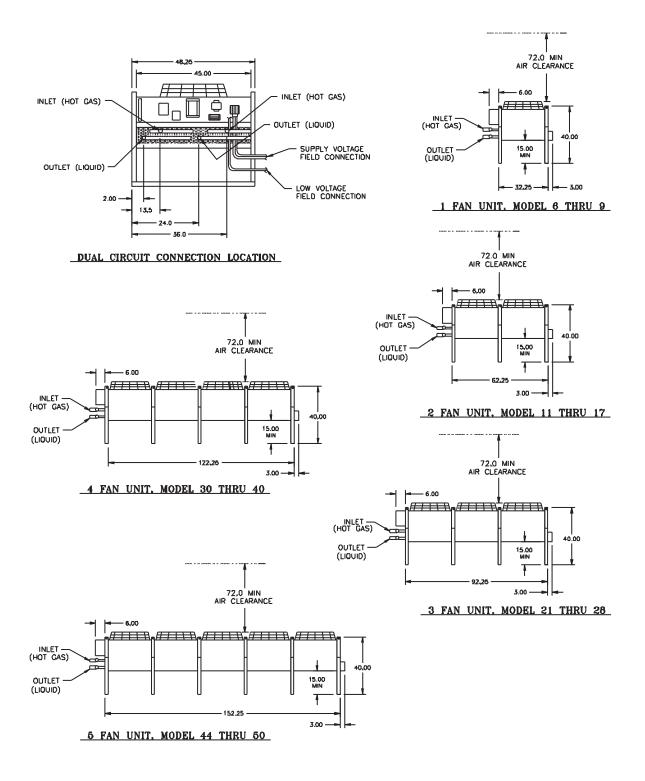
MODEL				FAN5	UNIT
NUMBE	R	LENGTH	QTY	TOTAL CFM	NET WT.#
DARC 2	12	92-1/4*	3	15000	510
DARC 2	4	92-1/4*	3	14750	560
DARC 2	8	92-1/4*	3	14500	630
DARC 3	8	122-1/4"	4	20000	680
DARC 3	57	122-1/4"	4	19500	740
DARC 4	5	122-1/4"	4	19000	800
DARC 4	14	152-1/4"	5	24500	925
DARC 5	io_	152-1/4"	5	24000	1000

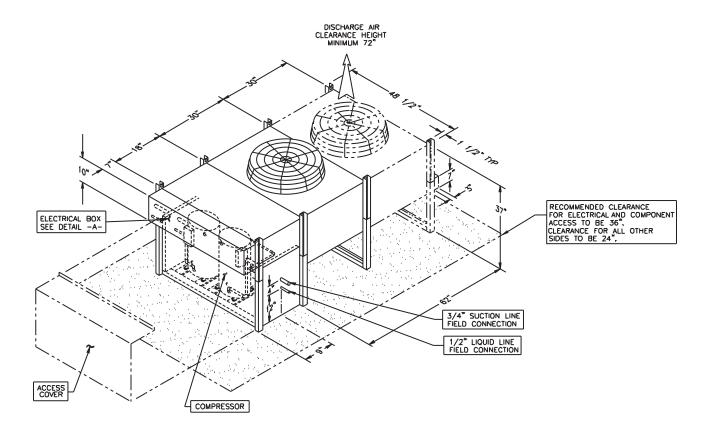
ELECTRICAL DATA

MODEL	QTY	_ n	RPM	MOTOR FLA		
NUMBER	MOTORS	H,P,	KPM	208/230V	460V	
DARC 21	3	3/4	1075	12.6	6.3	
DARC 24	3	3/4	1075	12.6	6.3	
DARC 28	3	3/4	1075	12.6	6.3	
DARC 30	4	3/4	1075	16.8	8.4	
DARC 37	4	3/4	1075	16.8	8.4	
DARC 40	4	3/4	1075	16,8	8,4	
DARC 44	5	3/4	1075	21,0	10,5	
DARC 50	5	3/4	1075	21,0	10,5	

PIPING SIZES

MDDEL NUMBER	(DIA STUB)	OUTLET (DIA STUB)
DARC 21	1-1/B	7/8
DARC 24	1-3/B	7/8
DARC 28	1-3/B	7/8
DARC 30	1-3/8	7/8
DARC 37	1-5/8	1-1/8
DARC 40	1-5/8	1-1/8
DARC 44	1-5/8	1-1/8
DARC 50	1-5/8	1-1/8

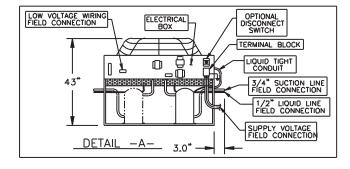




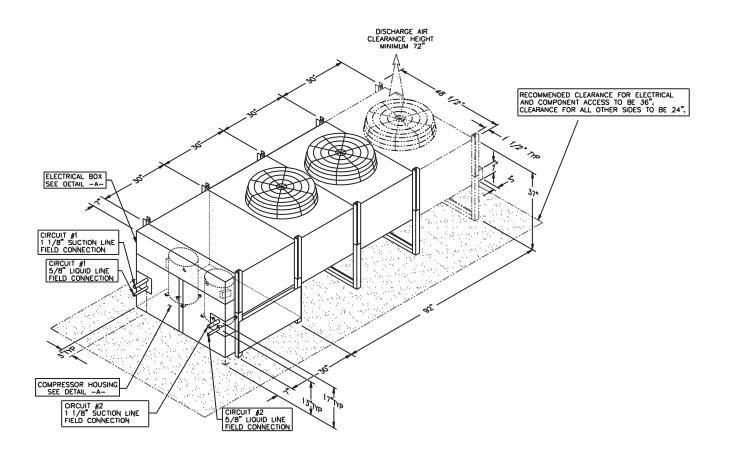
	OPERATIN	G WEIGHT	NUMBER
MODEL NO,	SINGLE COMPRESSOR	DUAL COMPRESSOR	OF FANS
DRCU 06 DRCU 07 DRCU 09 DRCU 11 DRCU 15	370 LBS 395 LBS 420 LBS 490 LBS 520 LBS	415 LBS 440 LBS 515 LBS 590 LBS 620 LBS	1 1 1 2 2
DRCU 17	550 LBS	650 LBS	2

#### NOTES;

- 1. CONNECTIONS SIZES ARE NOT NECESSARILY THE RECOMMENDED FIELD PIPING SIZED,
- 2. EVAPORATOR SECTION NOT SHOWN



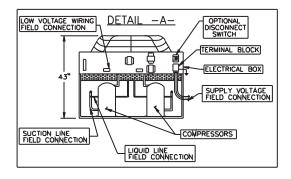
### Remote condensing unit with dual 6.5-12 ton compressors



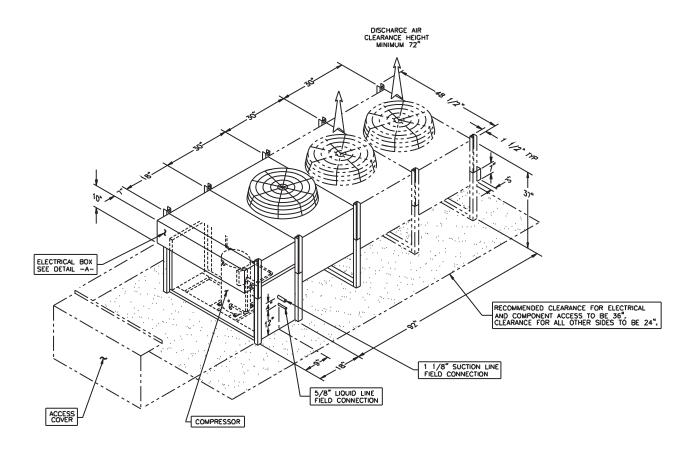
MODEL NO,	OPERATING WEIGHT	NUMBER OF FANS			
DRCU 11	830 LBS	2			
DRCU 15	860 LBS	2			
DRCU 17	890 LBS	2			
DRCU 21	1010 LBS	3			
DRCU 24	1060 LBS	3			
DRCU 28	1140 LBS	3			

#### NOTES:

\* CONNECTION SIZES ARE NOT NECESSARILY THE RECOMMENDED FIELD PIPING SIZES, \* EVAPORATOR SECTION NOT SHOWN



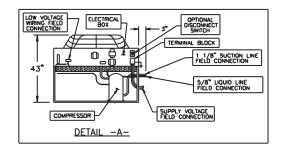
### Remote condensing unit with single compressor

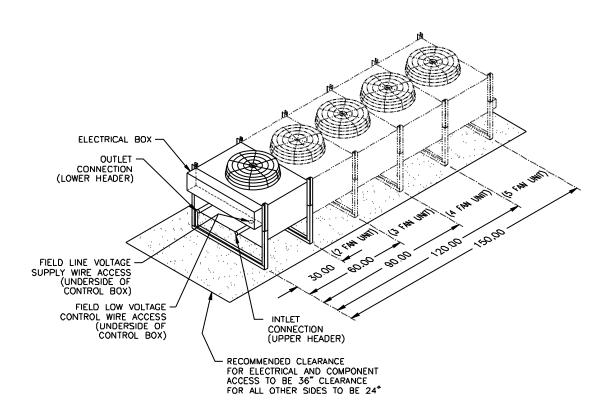


MODEL NO,	OPERATING WEIGHT	NUMBER OF FANS			
DRCU 06 DRCU 07	350 LBS 350 LBS	1			
DRCU 09	370 LBS	1			
DRCU 11 DRCU 15	400 LBS 410 LBS	2 2			
DRCU 17 DRCU 21	420 LBS 550 LBS	2 3			

#### NOTES:

- 1, CONNECTIONS SIZES ARE NOT NECESSARILY THE RECOMMENDED FIELD PIPING SIZED,
- 2, EVAPORATOR SECTION NOT SHOWN





			PIPE CONNECTION SIZES		STANDARD CONDENSER			LOW DECIBEL CONDENSER							
MODEL		UNIT	(COPPER		QTY.	HJP.	RPM	TOTAL - 0514	MOTOR	FLA	H,P.	RPM	TOTAL CFM	MOTOR	FLA
NUMBER		NET WT.#	INLET	QUTLET	MOTORS	HJP.	KEM	TOTAL CFM	208/230v	460V	n₄r.	KEM	TOTAL CEM	208/230V	460V
DAFC 06	32-1/4"	260	1-5/8	1-5/8	1	3/4	1075	5000	4.2	2.1	1/2	850	4000	3.2	1.6
DAFC 07	32-1/4*	285	1-5/8	1-5/8	1	3/4	1075	4900	4.2	2.1	1/2	850	3900	<b>3.2</b>	1,6
DAFC 09	32-1/4*	310	1-5/8	1-5/8	1	3/4	1075	4800	4.2	2.1	1/2	850	3800	3.2	1,6
DAFC 11	62-1/4	260	2-1/8	2-1/8	2	3/4	1075	10400	8.4	4.2	1/2	850	8300	6.4	3.2
DAFC 15	62-1/4"	370	2-1/8	2-1/8	2	3/4	1075	10000	8.4	4.2	1/2	850	8000	6.4	3.2
DAFC 17	62-1/4*	4DD	2-5/8	2-5/8	2	3/4	1075	9800	8.4	4.2	1/2	850	7800	6.4	3.2
DAFC 21	92-1/4 <sup>w</sup>	560	2-1/8	2-1/8	3	3/4	1075	15000	12,6	6.3	1/2	850	12000	9.6	4,8
DAFC 24	92-1/4	645	2-5/8	2-5/B	3	3/4	1075	14750	12,6	6.3	1/2	850	11800	9.6	4.8
DAFC 28	92-1/4	665	2-5/8	2-5/8	3	3/4	1075	14500	12,6	6.3	1/2	850	11600	9.6	4.8
DAFC 30	122-1/4*	745	2-1/8	2-1/8	4	3/4	1075	20000	16,8	8.4	1/2	850	16000	12,8	6.4
DAFC 37	122-1/4*	845	2-5/8	2-5/8	4	3/4	1075	19500	16,8	8.4	1/2	850	15600	12,8	6.4
DAFC 40	122-1/4	1100	2-5/8	2-5/8	4	3/4	1075	19000	16,8	8.4	1/2	850	15200	12,8	6.4
DAFC 44	152-1/4*	1460	2-5/8	2-5/B	5	3/4	1075	24500	21.0	10.5	1/2	850	19600	16.0	8.0
DAFC 50	152-1/4 <sup>×</sup>	1560	2-5/8	2-5/8	5	3/4	1075	24000	21.0	10.5	1/2	850	19200	16.0	8.0

### **Guide Specifications**

#### **GENERAL**

The environmental control units shall be provided with a high sensible cooling system and shall be capable of humidifying, dehumidifying, and filtering air. Units shall be factory assembled, piped, wired, and run tested prior to shipment. Provide quantities and configurations as shown on the project drawings.

Units shall be ETL or UL listed.

#### **CABINET and FRAME**

The frame shall be constructed of 14 gauge welded tubular steel and coated with a heavy corrosion inhibiting finish. The outer galvanized steel casing shall have removable panels for servicing. The panels shall be insulated with 1 inch thick, 1-1/2 pound density insulation for protection and sound attenuation. The electrical panel shall be hinged and swing out for servicing. A stainless steel drain pan shall be provided integral to the unit.

#### **BLOWER SECTION**

The blower section shall be belt driven centrifugal type, double width, double inlet and shall be statically and dynamically balanced at the factory as a complete assembly to maximum vibration level of two mils in any plane. The blower wheel shall be supported by a heavy steel shaft having self-aligning ball bearings rated for an average life of 100,000 hours. The blower shall be driven by a motor mounted on an adjustable slide base. The motor shall be 1750 rpm and have internal overload. The drive shall be belt driven with variable pitch sheave sized for 200% of the fan motor horsepower. The blower shall be located to draw air over the coil to insure even air distribution and maximum coil performance.

#### **FILTER SECTION**

The filter chamber shall be an integral part of the system, designed within the frame and cabinet. The filters shall be four inch (4") pleated type rated not less than 30% efficient (based on ASHRAE Std. 52.1-1992).

#### **ELECTRIC REHEAT**

The reheat shall be of the finned enclosed sheath type, fabricated of a stainless steel core sheath with plated fins to withstand moist conditions. The reheat shall be installed on the leaving air side of the cooling coil and shall be two stage. The total kW shall be 15 to operate on supply of \_\_\_\_ volts, 3 phase, 60 hertz.

#### REFRIGERATION CIRCUIT

Air Cooled with Remote Outdoor Condenser - The refrigeration circuit shall be split type with an indoor evaporator section and remote outdoor condenser.

The refrigeration circuit shall be a \_\_\_\_\_ circuit system.

The indoor evaporator section shall include the cooling coil, compressor(s), humidifier, reheat, filters, and controls. The cooling coil shall be constructed with ½" O.D. copper tube with 12 fins per inch of corrugated aluminum for maximum heat transfer. Maximum face velocity shall be less than 500 feet per minute. The expansion valve(s) shall be of the adjustable thermostatic type with external equalization. The compressor(s) shall be hermetic scroll type, with

#### Guide specifications, continued

#### **REFRIGERATION CIRCUIT - continued**

complete overload protection on all three power lines, internal thermostat for winding protection, crankcase heater, sight-glass, and low pressure override timer for positive starting at low temperatures. The filter drier shall be of the flare fitting type for non-torch servicing. The circuit(s) shall contain high and low pressure safety switches. The high and low pressure safety switches shall be installed with Shraeder type fittings with valve core.

Each system shall include a low profile, slow speed, direct drive propeller type air cooled condenser. The air discharge shall be vertical to minimize the effects of wind blowing through the coil at low ambient temperatures. The condenser shall be constructed of galvanized steel and contain a  $\frac{1}{2}$  O.D. copper tube coil with corrugated aluminum fins for maximum heat transfer. The condenser shall have fan speed control with transducers to modulate the speed of the first condenser fan motor and provide positive start-up and operation at ambient temperatures to  $-20^{\circ}$  F. Additional condenser fan motors are to be controlled by ambient thermostats. All controls including the fan speed control shall be factory mounted in the air cooled condenser in integral factory wired and tested control panel. The air cooled condenser shall be manufactured by the manufacturer of the indoor unit.

Refrigerant piping and control wiring between the indoor evaporator section and the remote outdoor condenser shall be field provided.

Air Cooled with Outdoor Condensing Unit - The refrigeration circuit shall be split type with an indoor evaporator section and remote outdoor condensing unit.

The refrigeration circuit shall be a \_\_\_\_\_ circuit system.

The indoor evaporator section shall include the cooling coil, humidifier, reheat, filters, and controls. The cooling coil shall be constructed with ½" O.D. copper tube with 12 fins per inch of corrugated aluminum for maximum heat transfer. Maximum face velocity shall be less than 500 feet per minute. The expansion valve(s) shall be of the adjustable thermostatic type with external equalization.

The outdoor condensing unit shall be constructed of galvanized steel and contain hermetic scroll compressor(s) with complete overload protection on all three power lines, internal thermostats for winding protection, crankcase heater, sight-glass, and low pressure override timer for positive starting at low temperatures. The filter drier shall be of the flare fitting type for non-torch servicing. The circuit(s) shall contain high and low pressure safety switches. The high and low pressure switches shall be installed with Shraeder type fittings with valve core.

The condensing unit shall include a low profile, slow speed, direct drive propeller fan air cooled condenser section. The air discharge shall be vertical to minimize the effects of wind blowing through the coil at low ambient temperatures. The condenser shall be constructed with copper tube and aluminum fin. The condensing unit shall have fan speed control with transducers to modulate the speed of the first condenser fan motor and provide start-up and operation at ambient temperatures to -20° F. Additional condenser fan motors shall be controlled by ambient thermostats. All controls including the fan speed control shall be factory mounted in an integral factory wired and tested control panel. The condensing unit shall be manufactured by the manufacturer of the indoor unit.

Refrigerant piping and control wiring between the indoor evaporator section and the outdoor condensing unit shall be field provided.

#### Guide specifications, continued

*Water/Glycol Cooled* - Provide a water/glycol cooled system with indoor evaporator and remote outdoor fluid cooler (dry cooler).

The refrigeration circuit shall be (single or dual) circuit.

The indoor evaporator section shall include the cooling coil, compressor(s), humidifier, reheat, filters, and controls. The cooling coil shall be constructed with 1/2" O.D. copper tube with 12 fins per inch of corrugated aluminum for maximum heat transfer. Maximum face velocity shall be less than 500 feet per minute. The expansion valve(s) shall be of the adjustable thermostatic type with external equalization. The compressor shall be of the hermetic scroll type with complete overload protection on all three power lines, internal thermostats for winding protection, crankcase heater, sight-glass, condenser with sub-cooling, and 3-way water regulating valve for head pressure control. The filter drier shall be of the flare fitting type for non-torch servicing. The circuit shall contain high and low safety pressure switches. The high and low safety switches shall be installed with Shraeder type fittings with valve core.

Each system shall include a low profile, slow speed, direct drive propeller fan type air cooled fluid cooler. Air discharge shall be vertical to prevent wind from blowing through the coil at low ambient temperatures. The fluid cooler shall be constructed of galvanized steel and contain a 1/2" O.D. copper tube coil with corrugated aluminum fins for maximum heat transfer. The fan motors shall have cycling controls provided on fluid coolers with multiple fans. The fluid cooler shall include a surge tank and fill valve, pump contactor, and fan cycling controls with an integral factory wired and tested control panel. The fluid cooler shall be manufactured by the manufacturer of the indoor unit.

Piping and control wiring between the indoor evaporator section and the outdoor fluid cooler shall be field provided.

Chilled Water System - Provide a chilled water unit. The unit shall include the chilled water coil, humidifier, reheat, filters, and controls. The chilled water coil shall constructed with ½. O.D. copper tube with 12 fins per inch of corrugated aluminum. Maximum face velocity shall be less than 500 feet per minute. The chilled water flow shall be controlled by a 3-way chilled water valve for accurate and economical temperature control and dehumidification. The entering chilled water temperature shall be \_\_\_° F. The leaving chilled water temperature shall be \_\_\_° F. The water flow shall be \_\_\_° F.

Unit control shall be maintained with the microprocessor based *Mini Data Alarm Processor-II*. The controller shall be a wall mounted, with a one row, 16 character liquid crystal display (LCD). The controller shall monitor the humidity, air flow, and cleanliness, and will also provide an alarm history and an automatic self-test of the microprocessor on system start-up. Multiple messages shall be displayed by automatically scrolling from each message to the next. All messages shall be presented in a clear vernacular format on the liquid crystal display (LCD). Multiple alarms shall be displayed sequentially in order of occurrence.

### **Control System**

*OPERATION* - A slide switch shall allow unit on/off operation: push buttons shall allow menu selection for programming, operational information, diagnostics, and historical data. The two-level password feature shall prevent unauthorized access. Menu programmed information for basic system operation and alarm parameters shall be nonvolatile.

*PROGRAMMABLE FUNCTIONS* - The user friendly MENU and SELECT push buttons shall permit step-by-step programming of the following selections:

Temperature setpoint
65-85° F/18.3-29.4° C
Temperature deadband
±1-5° F/C in 0.1° increments
Temperature alarm points
Calibrate temperature sensor

Unit start time delay Password - 1st level Audio alarm level Firestat trip temperature Humidity setpoint
30-70% RH
Humidity deadband
±1-15% RH
Humidity alarm points
Calibrate humidity sensor
Interstage time delay
Password 2nd level
Restart mode
Local alarm

*DISPLAYED CONDITIONS*, *DATA*, *and FUNCTIONS* - The *Mini Data Alarm Processor-II* shall display and monitor the following conditions, data, and functions:

Temperature setpoints Humidity setpoint

Current temperature Current humidity

Cooling 1, 2 (as applicable) Heating

Humidification Dehumidification

ALARMS -Alarm conditions shall be displayed and monitored on the microprocessor LCD along with an audible alarm. The alarm silence switch shall quiet the audible alarm but the display will continue to indicate the alarm condition until it is corrected. The following alarms shall be displayed:

High temperature warning
Low temperature warning
Compressor high pressure
Firestat tripped
Compressor short cycle
Temperature sensor error

High humidity warning
Low humidity warning
Condensate pan high level
Power failure restart
Low voltage warning
Humidity sensor warning

HISTORICAL DATA - The microprocessor shall have the capability to recall and display temperature and humidity, with the minimum and maximum readings since the last power on. Alarm history shall be maintained in sequential order (up to 5 alarms).

DIAGNOSTICS - Automatic and manual diagnostics sequences shall simplify troubleshooting.

#### **Options**

Energy Saver Coil - Provide an Energy Saver Coil, built into the system to provide total matching capacity. Whenever the incoming water/glycol temperature is below the setpoint of the water sensing changeover thermostat, Energy Saver cooling shall be available. The water sensing changeover thermostat shall be factory set at 45° F/7.2° C. The water sensing changeover thermostat shall be field adjustable. Energy Saver mode shall operate during a need for cooling. Energy Saver mode shall operate in the following range: return air setpoint plus deadband plus 2 degrees. The Energy Saver valve shall open at setpoint plus deadband. The valve shall modulate as long as the space is between setpoint plus deadband plus 2 degrees. When the space temperature falls to setpoint, the valve shall close and the space shall be considered satisfied. While in Energy Saver mode with the valve open, if the incoming water/gly-col temperature rises 3° F above the setpoint (of the water sensing changeover thermostat), the Energy Saver valve shall close and DX (mechanical) cooling shall begin. Provide a 3-way pressure control valve on the condenser water circuit, and 3-way valve on the economy coil. Common piping for coil and condensers shall be provided.

Auxiliary Chilled Water Coil - Provide an auxiliary chilled water coil. Units shall operate using the chilled water for cooling. Upon a loss of water flow or an increase in room temperature the system shall bring on compressor (DX) cooling. Separate piping shall be provided for the chilled water coil and refrigeration connections.

**Remote Temperature and Humidity Sensors** - Provide temperature and humidity sensors for remote wall mounting. Sensors shall be provided in a wall mount plastic case for remote sensing of temperature and humidity. 25 feet of shielded cable shall be provided for field wiring.

*Unit Mounted Disconnect* - Provide a unit mounted nonautomatic disconnect switch installed in the high voltage electrical section. The operating mechanism shall prevent access to the high voltage electrical components until switched to the "OFF" position. The operating mechanism (handle) shall protrude through the exterior unit panel.

Steam Generator Humidifier - Units shall be furnished with an electric steam generator humidifier with "quick change" disposable cylinders and auto-flush cycle. The steam generator humidifier control system shall optimize cylinder life by concentrating incoming water to a predetermined conductivity much higher than that of any entering water. The control system shall continuously monitor the conductivity in the cylinder through its electronics which shall allow water to be flushed as often as is necessary to maintain the level at this design conductivity. The high design conductivity shall result in a minimum flushing of heated water which saves energy. The humidifier shall be designed to allow all units at any voltage to produce full rated steam output at an optimum low water level.

Provide a steam generator humidifier with a capacity of \_\_ pounds per hour.

*Hot Water Reheat* - Provide hot water reheat. The coil shall be designed for 150 psi maximum water pressure and shall include a 2-way valve.

**Hot Gas Reheat** - Provide hot gas reheat. The hot gas discharge shall be used for reheat and maximum system efficiency.

**3-Way Water Regulating Valve** - Provide a 3-way water regulating valve for pressure control. The 3-way valve shall control the water/glycol flow rate to maintain the required capacity under varying conditions.

**Condensate Pump** - Provide a factory mounted and wired condensate pump. The condensate pump shall be complete with sump, motor, and automatic control. The pump shall be rated for 130 GPH at 20 feet maximum or 40 GPH at 20 feet with check valve.

60% Efficient Filters - Provide 60% efficient filters (based on ASHRAE Std. 52.1-1992). Filters shall be 4 inch deep, pleated type.

**Extended Compressor Warranty** - Provide an extended compressor warranty for a period of four (4) years in addition to the standard one (1) year warranty. The warranty shall be for replacement of compressors and does not



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