

# **LIEBERT CORPORATION**

## **Air Products**

### **Model Number Reference Guide**

**Revision: April 2004**

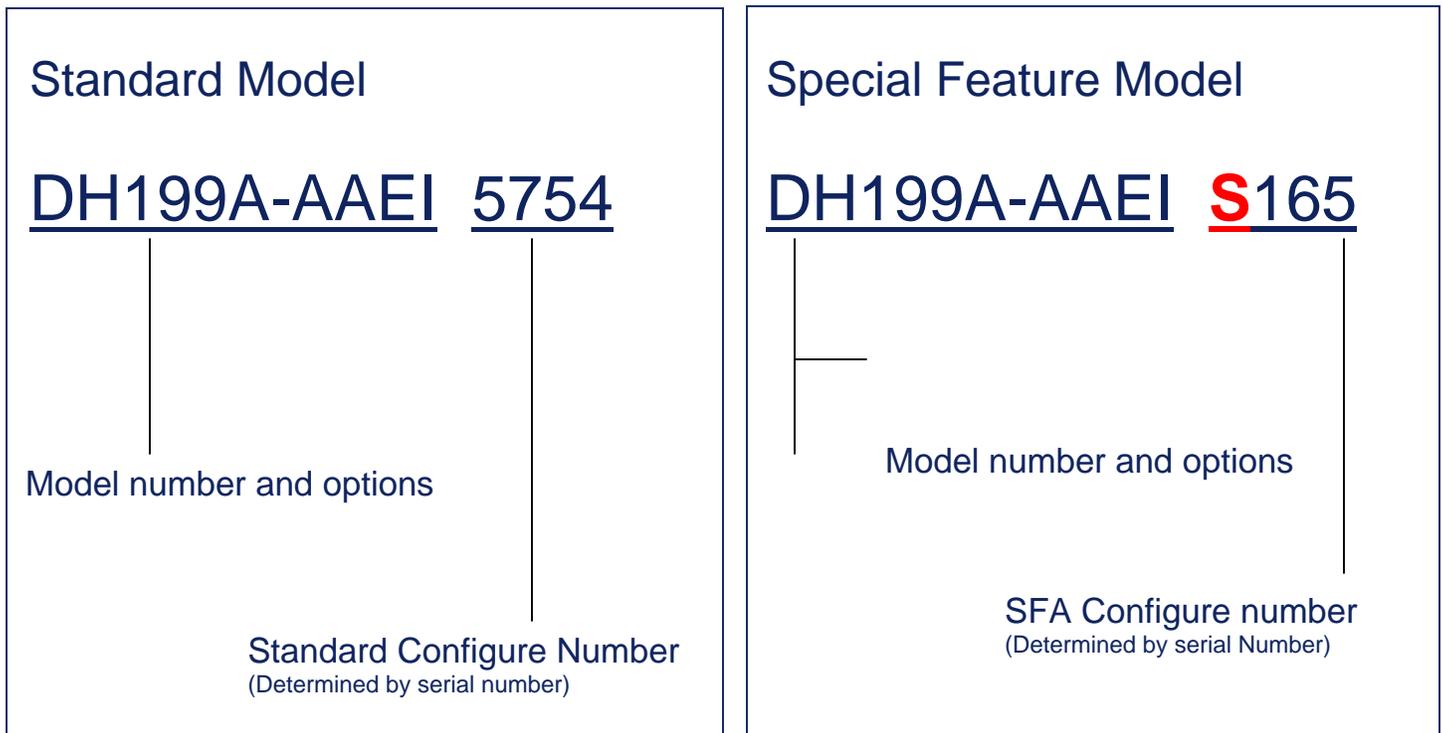


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Parts Manuals do not include Special Feature Applications (SFA). They do include standard features and options for the respective products. If the equipment has a SFA, it is usually signified in the complete model number. It is usually best to contact the factory for replacement parts on equipment with SFA's due to the wide variety.

Below is an example of a standard configured model and a SFA configured model for a Deluxe System 3.



# 1. LARGE FLOOR SYSTEMS

## DELUXE SYSTEM 2

### Models FD/UD

Production 1973 to January 1983

<b>FD</b>	<b>116</b>	<b>G</b>	Book	Ref Name
FD = Down-flow UD = Up-flow	Nominal Capacity in Thousand BTU/H  See chart below	A = Air Cooled  W= Water Cooled  G = Glycol Cooled  C = Chilled Water	CD	Deluxe System 2 Parts Manual

#### Notes:

Many of the electronic controls are no longer available. Require upgrade kits for electronics. Check with factory.

### Deluxe System 2 Tonnage Chart

Tonnage	6	8	10	15	20	22
Air Cooled	075A	114A	125A	199A	245A	290A
Water Cooled	086W	127W	138W	219W	267W	315W
Glycol Cooled	072G	110G	116G	192G	240G	265G
Chilled Water		139C, 173C	190C, 237C, 280C	305C 386C	411C	422C 529C

## DELUXE SYSTEM 3

### Models FH/UH & FE/UE

Production 1983 to January 1999

<b>FH</b>	<b>199</b>	<b>A</b>	<b>U</b>	<b>A</b>	<b>01</b>	Book	Ref Name
FH = Down-flow UH= Up-flow FE = Down- flow w/Econ-o-coil UE = Up-flow w/Econ-o-coil	Nominal Capacity in Thousand BTU/H  See chart below	A = Air Cooled  W= Water Cooled  G = Glycol Cooled  C = Chilled Water	- = 2 Step DX or Std CW  U = 4 Step DX  V = Variable Speed Drive (VSD) CW	A = 460/3/60  B = 575/3/60  C = 208/3/60  D = 230/3/60	01 = Level 01 Microprocessor  02 = Level 02 Microprocessor  03 = Level 03 Microprocessor  00 = Level 00 Microprocessor  10 = Level 10 Microprocessor  15 = Level 15 Microprocessor	CD CD CD CD CD	Deluxe System 3 Level 1,2,3 Deluxe System 3 Level 1,2,3 Deluxe System 3 Level 1,2,3 Deluxe System 3 Level 0,10 Deluxe System 3 Level 0,1 Not Available

#### Notes:

Many controls for the 01, 02, 03, 10 & 15 are no longer available. Require upgrade kits for electronics. Check with factory.

**DELUXE SYSTEM 3**  
**Models DH/VH & DE/VE**  
**(CW SYSTEMS FH&UH)**  
 Production February 1999 to Present

<b>DH</b>	<b>138</b>	<b>W</b>	<b>U</b>	<b>A</b>	<b>A</b>	<b>E</b>	<b>S</b>	Book	Ref Name
DH = Down-flow DX  VH= Up-flow DX  DE = Down-flow w/Econ-o-coil  VE = Up-flow w/Econ-o-coil  FH = Down-flow CW  UH = Up-flow CW	Nominal Capacity in Thousand BTU/H  See chart below	A = Air Cooled  W= Water Cooled  G = Glycol Cooled  C = Chilled Water	- = 2 Step DX or Std CW  U = 4 Step DX  V = Variable Speed Drive (VSD) CW  H = DX w/Hot Gas Bypass	A = 460/3/60  B = 575/3/60  C = 208/3/60  D = 230/3/60  F = 380/3/50  G = 415/3/50  H = 230/3/50  J = 200/3/50  U = 400/3/50	S = Standard Microprocessor  A = Advanced Microprocessor  G = Advanced Graphics Microprocessor	0 = No Reheat  E = Electric Reheat  H = Hot Water Reheat  G = Hot Gas Reheat  T = Steam Reheat	0 = No Humidifier  I = Infrared Humidifier  G = Steam Grid Humidifier  S = Steam Generating Humidifier	See notes below	

**Notes:**

DH & DE Manuals are located on the web at [www.liebert.com/products/parts\\_manual.asp](http://www.liebert.com/products/parts_manual.asp) others - contact the factory.

**Deluxe Systems Tonnage Chart**

<b>Tonnage</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>22</b>	<b>30</b>	<b>40</b>	<b>50</b>
Air Cooled	075	114	125	199	245	290	380		
Water Cooled	086	127	138	219	267	315	412		
Glycol Cooled	072	110	116	192	240	265	363		
Chilled Water	147	200	248	302	376	422	529	600	740

**CHILLER CSU**  
**Models CS/CD/CT & DS/DD**  
 Production 1979 to Present

<b>CD</b>	<b>182</b>	<b>A</b>	<b>-</b>	<b>A</b>	Book	Ref Name
DS = Single Module, 2 ½ or 5 Ton  DD = Dual Module, 2 ½ or 5 ton  CS = Single Module, 7 ½ , 10, 12 or 15 Ton  CD = Dual Module, 7 ½ , 10, 12 or 15 Ton  CT = Triple Module, 20, 30 or 37-1/2 Ton	Nominal Capacity in Thousand BTU/H	A = Air Cooled  W= Water Cooled  G = Glycol Cooled  L = Glycool Cooled		A = 460/3/60  B = 575/3/60  C = 208/3/60  D = 230/3/60	CD	Chiller CSU3000

**PROCESS FLUID CHILLER**  
**Models PS**  
 Production 1996 - Present

<b>PS</b>	<b>036</b>	<b>A</b>	<b>P</b>	<b>B</b>	<b>3</b>	<b>0</b>	Book	Ref Name
PS = Process Chiller	Nominal Capacity in Thousand BTU/H  1 Ton = 018  2 Ton = 024  3 Ton = 036  4 Ton = 048  5 Ton = 060  8 Ton = 096  10 Ton = 120	A = Air Cooled	A = 460/3/60  P = 208/230-1-60  Y = 208/230-1-60	S = Stainless Steel Pump  B = Gauge/Heater/SS Pump  M = Multi-Stage Pump (8/10 Ton Only)  R = Gauge/Heater/Mult i-Stage Pump (8/10 Ton Only)	3 = Revision Level  4 = Revision Level for 8/10 Models	0 = No Tank  T = 100 Gallon Tank	Web	Process Fluid Chiller

# INDUSTRIAL COOLING SYSTEM (ICS)

## Models UP

Production 1990 to Present

<b>UP</b>	<b>126</b>	<b>A</b>	<b>U</b>	<b>A</b>	<b>10</b>	<b>Book</b>	<b>Ref Name</b>
UP = Up-flow	Nominal Capacity in Thousand BTU/H	A = Air Cooled W= Water Cooled G = Glycol Cooled C = Chilled Water	- = 2 Step DX or Std CW U = 4 Step DX	A = 460/3/60 B = 575/3/60 C = 208/3/60 D = 230/3/60	00 = Level 00 Microprocessor 10 = Level 10 Microprocessor 15 = Level 15 Microprocessor SM = Standard Microprocessor AM = Advanced Microprocessor AG = Advanced Graphics Microprocessor	See Notes Below	

**Notes:**

No published parts manual for ICS Systems, contact factory.  
Level 10 controls not available. Require upgrade kits for electronics. Check with factory.

## CHALLENGER 2

### Models CF & CU

Production 1978 to 1986

<b>CU</b>	<b>066</b>	<b>A</b>	<b>Book</b>	<b>Ref Name</b>
CF = Down-flow CU = Up-flow	Nominal Capacity in Thousand BTU/H  See chart below	A = Air Cooled W= Water Cooled G = Glycol Cooled C = Chilled Water	CD	Challenger 2 Parts Manual

**Notes:**

Most controls are no longer available. Require upgrade kits for electronics. Check with factory.

## CHALLENGER 2 LEVEL 00

### Models CF & CU

Production 1986 to 1994

<b>CU</b>	<b>047</b>	<b>A</b>	<b>-</b>	<b>A</b>	<b>00</b>	<b>Book</b>	<b>Ref Name</b>
CF = Down-flow CU = Up-flow	Nominal Capacity in Thousand BTU/H  See chart below	A = Air Cooled  W= Water Cooled  G = Glycol Cooled  C = Chilled Water	- = Std DX or Std CW	A = 460/3/60  B = 575/3/60  C = 208/3/60  D = 230/3/60	00 = Level 00 Microprocessor	CD	Challenger 2 Level 00 Parts Manual

### Challenger 2 Systems Tonnage Chart

<b>Tonnage</b>	<b>3 Ton</b>	<b>5 Ton</b>
Air Cooled	043	066
Water Cooled	047	069
Glycol Cooled	041	060
Chilled Water		091

## CHALLENGER 3 LEVEL 00

### Models CF/CU & CE/CK

Production 1986 to 1994

<b>CU</b>	<b>046</b>	<b>WG</b>	<b>-</b>	<b>A</b>	<b>00</b>	<b>Book</b>	<b>Ref Name</b>
CF = Down-flow CU = Up-flow  CE = Down-flow w/Econ-o-coil  CK = Up-flow w/Econ-o-coil	Nominal Capacity in Thousand BTU/H  See chart below	A = Air Cooled  W= Water Cooled  G = Glycol Cooled  C = Chilled Water	- = Std DX or Std CW	A = 460/3/60  B = 575/3/60  C = 208/3/60  D = 230/3/60	00 = Level 00 Microprocessor	CD	Challenger 3 Parts Manual

### Challenger 3 Systems Tonnage Chart

<b>Tonnage</b>	<b>3 Ton</b>	<b>5 Ton</b>
Air Cooled	042	067
Water Cooled	046	071
Glycol Cooled		061
Chilled Water	068	102

**CHALLENGER 3000**  
**Models CF & CU**  
 Production 1986 to 1994

<b>BF</b>	<b>042</b>	<b>A</b>	<b>-</b>	<b>A</b>	<b>A</b>	<b>E</b>	<b>I</b>		Ref Name
BF = Down-flow BE = Down-flow w/Econ-o-coil BU = Up-flow BK = Up-flow w/Econ-o-coil	Nominal Capacity in Thousand BTU/H  See chart below	A = Air Cooled  W/G= Water /Glycol Cooled  C = Chilled Water  E = Evaporator	- = Std DX or Std CW	A = 460/3/60  B = 575/3/60  C = 208/3/60  D = 230/3/60	S = Standard Microprocessor  A = Advanced Microprocessor  G = Advanced Microprocessor	0 = No reheat  E = Electric Reheat  H = Hot Water Reheat  G = Hot Gas Reheat  S = SCR Reheat	0 = No Humidifier  I = Infrared Humidifier  S = Steam Generating Humidifier	CD	Challenger 3000 Parts Manual

**Challenger 3000 Systems Tonnage Chart**

<b>Tonnage</b>	<b>3 Ton</b>	<b>5 Ton</b>
Air Cooled	042A	067A
Water Cooled	046WG	071WG
Glycol Cooled		061G
Chilled Water	068C	102C
Fan Coil	036E	060E

**HIMOD**  
**Models HM**  
 Production 2001 - Present

<b>HM</b>	<b>F</b>	<b>028</b>	<b>A</b>	<b>I</b>	<b>A</b>	<b>A</b>	<b>E</b>	<b>S</b>	Book	Ref Name
HM	U = Up-flow  F = Down-flow	Capacity (KW)  28  34  40	A= Air Cooled  G Glycol  K = Glycool  D = Dual Cool w/Air  H = Dual Cool w/Glycol	I = 407C  0 = R22	A = 460/3/60  C = 208/3/60  D = 230/3/60	S = Standard Microprocessor  A = Advanced Microprocessor  G = Advanced Microprocessor	0 = No reheat  E = Electric Reheat	0 = No Humidifier  S = Steam Generating Humidifier	CD	Himod Parts Manual - Preliminary

**MODULAR PLUS**  
**Models SD/SU & SE/SK**  
 Production 1988 to 1991

<b>SD</b>	<b>096</b>	<b>A</b>	<b>-</b>	<b>A</b>	<b>00</b>		Ref Name
SD = Down-flow SE = Down-flow w/ Econ-o-coil SU = Up-flow SK = Up-flow w/Econ-o-coil	Nominal Capacity in Thousand BTU/H	A = Air Cooled W = Water Cooled G = Glycol Cooled	- = Std DX or Std CW U = 4 Step DX 6 = 6 Step DX	A = 460/3/60 B = 575/3/60 C = 208/3/60 D = 230/3/60	00 = Level 00 Microprocessor 10 = Level 10 Microprocessor	CD	Modular Plus

**Modular Plus Systems Tonnage Chart**

<b>Tonnage</b>	<b>7.5 Ton</b>	<b>10 Ton</b>	<b>12 Ton</b>
Air Cooled	096A	124A	149A
Water Cooled	107W	140W	165W
Glycol Cooled	093G	120G	143G

**Notes:**

6 step configurations have been modified. Contact factory regarding replacement compressors.

## 2. HEAT REJECTION

### AIR COOLED CONDENSERS & DRYCOOLERS

Models CSF/CDF & DS\*/ DD\*

Production 1973 – Present

Variations of models through the years

#### CONDENSERS

<b>D</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>104</b>	<b>A</b>	<b>Book</b>	<b>Ref Name</b>
D = Optional Disconnect Switch	C = Air Cooled Condenser	S = Single Refrigerant Circuit  D = Dual Refrigerant Circuit	F = Fan Speed Control  L = Main Control / Lee Temp  C = No Control / Chiller Lee Temp  T = Ambient Fan Cycle  S = Special	Model Size	P = 208/230-1-60 Y = 208/230-3-60  A = 460-3-60 B = 575-3-60  Z = 460-1-60 V = 575-1-60	CD	See Notes Below

#### Notes:

Reference books for product built prior to 1990's see Condenser Parts Manual. For product built 1990's and later, see Condenser-Drycooler, Lee Temp.

#### DRYCOOLERS

### DDNT139A

<b>D</b>	<b>D</b>	<b>N</b>	<b>T</b>	<b>139</b>	<b>A</b>	<b>Book</b>	<b>Ref Name</b>
D = Optional Disconnect Switch	D = Drycooler	N = No Pump  S = Single Pump  D = Dual Pump	C = No Control  L = Main Control  T = Ambient Fan Cycle  O = Fan Cycle & Pump Control  S = Special  F = Fan Speed Control  G = Glycool Chiller	Model Size	P = 208/230-1-60 Y = 208/230-3-60  A = 460-3-60 B = 575-3-60  Z = 460-1-60 V = 575-1-60	Optional circuiting (per catalog)	CD  See Notes Below

#### Notes:

Reference books for product built prior to 1990's see Condenser Parts Manual. For product built 1990's and later, see Condenser-Drycooler, Lee Temp.

**10 Fan Drycooler**  
**Models DTNT**  
 Production 1999-2002

**D O N T 1 5 0 A N 1 3 6 A 0 0**

<b>D</b>	<b>O</b>	<b>N</b>	<b>T</b>	<b>150</b>	<b>A</b>	<b>N</b>	<b>136</b>	<b>A</b>	<b>0</b>	<b>0</b>
D = Drycooler	0 = Std 10 Fan  G = Quiet Line 10 Fan  T = TEAO 10 Fan	N = 0 Pumps	T = Fan Cycling  X = Fan Cycling w/Current Sensing  S = No Control  W = No Control w/ Current Sensing Relays	Capacity:  150 = 150 Tons (60 & 50 Hz)  120 = 120 Tons (60 Hz) Quiet Line	A = 460-3-60  B = 575-3-60  C = 208-3-60  D = 230-3-60  M = 380/415-3-50	Guards:  N = None  G = Wire  A = Aluminum	# of Coil Circuits:  068 = Half  136 = Full  272 = Double	Coil Type:  A = Aluminum  C = Phenolic Coated Coil  P = Precoated Fin  U = Cu/Cu	0 = Std  S = SFA	0 = Std  S = SFA

**Notes:**

This model was produced by Dunham-Bush. Parts Manuals are located on the web.

**3. SMALL SYSTEMS**

**MINIMATE**

**Models MM18A, MM20W, MM23C**

Production 1980'S

<b>MM</b>	<b>18</b>	<b>A</b>	<b>-</b>	<b>B</b>	<b>208</b>	<b>Book</b>	<b>Ref Name</b>
MM = MiniMate	Nominal Capacity in Thousand BTU/H  18A  20W	A = Air Cooled  W = Water Cooled  C = Chilled Water	-	B = Basic  R = Reheat (Electric)	208 = 208 Volt  230 = 230 Volt  277 = 277 Volt	CD	MiniMate Parts Manual Rev 8-90

**MINIMATE & MINIMATE PLUS – SOLID STATE CONTROLS**  
**Models MME, DMC**

<b>MME</b>	<b>018</b>	<b>E</b>	<b>-</b>	<b>P</b>	<b>H</b>	<b>0</b>	Book	Ref Name
<p>MME = Mini-Mate Ceiling Unit</p> <p>DMC = Outdoor Condensing Unit</p>	Nominal Capacity in Thousand BTU/H	<p>E = Evaporator Only</p> <p>A = Air Cooled</p> <p>W/G = Water/Glycol Cooled Condenser</p> <p>C = Chilled Water</p> <p>Water/Glycol Cooled Condensers            WG = 2-Way 150 PSI</p> <p>WH = 2-Way 300 PSI</p> <p>W3 = 3-Way 150 PSI</p> <p>WT = 3-Way 300 PSI</p>	- = Standard	<p>P = 208/230-1-60</p> <p>X = 277-1-60</p>	<p>H = With Humidifier and Reheat</p> <p>0 = Cooling Only</p> <p>L = Lee-Temp (Condensing Unit Only)</p>	0 = Revision Level		No book available

**MINIMATE PLUS – MICROPROCESSOR CONTROLS**  
**Models MME, MMC, DMC**

<b>MME</b>	<b>018</b>	<b>E</b>	<b>-</b>	<b>A</b>	<b>0</b>	<b>1</b>	Book	Ref Name
<p>MME = Mini-Mate Ceiling Unit</p> <p>MMC = Mini-Mate Plus Condensing Section</p> <p>DMC = Outdoor Condensing Unit</p>	Nominal Capacity in Thousand BTU/H	<p>E = Evaporator Only</p> <p>A = Air Cooled</p> <p>WG = Water/Glycol Cooled Condenser</p> <p>C = Chilled Water</p> <p>W = Water Cooled</p> <p>G = Glycol Cooled</p> <p>AC = DMC with Coated Coil</p>		<p>A = 460-3-60</p> <p>B = 575-3-60</p> <p>P = 208/230-1-60</p> <p>X = 277-1-60</p> <p>Y = 208/230-3-60</p>	<p>H = With Humidifier</p> <p>O = No Humidifier</p> <p>C = Cooling Only</p> <p>L = Lee-Temp (Condensing Unit Only)</p> <p>Water or Glycol Cooled            O = 2-Way 150 PSI</p> <p>H = 2-Way 300PSI</p> <p>3 = 3-Way 150 PSI</p> <p>T = 3-Way 300 PSI</p>	1 = Revision Level	CD	MiniMate Plus Parts Manual Rev 3-91

# MINIMATE2

## Models 1,1-1/2, 2, 3 & 2 5-8Ton Models

Produced 1997 - Present

MM	D	12	A	-	P	H	E	D	O
MM	D = Disconnect  O = No Disconnect	Nominal Capacity in Thousand d BTU/H  (See Chart Below)	A = Air Cooled  W = Water Cooled  C = Chilled Water  E = Split Evaporat or  F = Air Cooled w/ Free Cooling  G = Water/Glycol w/ Free Cooling  K = Evaporat or w/Free Cooling	- = DX  2 = 2-Way Chilled Water Valve  3 = 3-Way Chilled Water Valve	P = 208/230-1-60  X = 277-1-60  S = 220/240-1-50  A = 460-3-60  Y = 208230-3-60  M = 380/400-3-50	H = Canister Humidifier  0 = No Humidifier  R = Remote Humidifier Contact  J = Canister Humidifier & Remote Humidifier Contact	0 = No Reheat  E = Electric Reheat  S = SCR Reheat  H = Hot Water Reheat	0 = No Hot Gas Bypass (1 & 1-1/2 Ton Models Only)  H = Hot Gas Bypass (1 & 1-1/2 Ton Models Only)  D = Direct Drive Blower (2 & 3 Ton Models Only)  B = Belt Drive Blower (2 & 3 Ton Models Only)  L = Low Speed Drive (5 & 8 Ton Only)  H = High Speed Drive (5 & 8 Ton Only)	Options: 0 = None A = Filter Clog  B = Smoke Detector  C = Firestat  D = Filter Clog & Smoke Detector  E = Filter Clog & Firestat  F = Smoke Detector & Firestat  G = Filter Clog, Smoke Detector, & Firestat

**Notes:**

Manuals are located on the web at [www.liebert.com/products/parts\\_manual.asp](http://www.liebert.com/products/parts_manual.asp) .

## MINIMATE2

### Models 2-3 & 5-8 Ton Condenser Models

Produced 1997 - Present

<b>M</b>	<b>C</b>	<b>D</b>	<b>24</b>	<b>A</b>	<b>-</b>	<b>P</b>	<b>H</b>	<b>3</b>
M = MiniMate2	C = Condensing Unit	D = Disconnect  0 = No Disconnect	Nominal Capacity in Thousand BTU/H  (See Chart Below)	A = Air Cooled  W = Water Cooled	- Standard  L = 95F Ambient Lee Temp  2 = 2-Way Std Press Valve  3 = 3-Way Std Press Valve  D = 2-Way High Pressure Valve  T = 3-way High Pressure Valve	P = 208/230-1-60  X = 277-1-60  S = 220/240-1-50  A = 460-3-60  Y = 208230-3-60  M = 380/400-3-50	H = Hot Gas Bypass	Revision Level

**Notes:**

Manuals are located on the web at [www.liebert.com/products/parts\\_manual.asp](http://www.liebert.com/products/parts_manual.asp) and are part of the MiniMate2 2-3 Ton Systems Manual.

### MiniMate2 System Tonnage Chart

<b>Tonnage</b>	<b>1</b>	<b>1-1/2</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>8</b>
Self Contained Air Cooled	12A	18A	24A	36A		
Split System Evaporator	12E	18E	24E	36E	60E	96E
Self Contained Water/Glycol Cooled	14W	20W	26W	38W		
Chilled Water		23C		40C	92C	8TC

# DATAMATE

## Models DME, DMC

Produced 1986-2000

Variations of models through the years

<b>DME</b>	<b>020</b>	<b>E -</b>	<b>P</b>	<b>H</b>	<b>0</b>	Book	Ref Name
<p>DME = DataMate Evaporator Section</p> <p>DMC = DataMate Condensing Section</p>	Nominal Capacity in Thousand BTU/H	<p>E - = Evaporator Only</p> <p>A - = Air Cooled</p> <p>W/G = Water/Glycol Cooled Condenser</p> <p>C - = Chilled Water</p> <p>W - = Water Cooled</p> <p>G - = Glycol Cooled</p>	<p>P = 208/230-1-60</p> <p>X = 277-1-60</p> <p>A = 460-3-60</p> <p>Y = 208230-3-60</p>	<p>H = With Humidifier</p> <p>O = No Humidifier</p> <p>C = Cooling Only</p> <p>L = Lee-Temp (Condensing Unit Only)</p> <p>Water or Glycol Cooled</p> <p>O = 2-Way 150 PSI</p> <p>H = 2-Way 300PSI</p> <p>3 = 3-Way 150 PSI</p> <p>T = 3-Way 300 PSI</p>	0 = Revision Level	CD	DataMate Parts Manual Rev 1992 (Covers Product built in Europe as well as generation 2 product).

**Note:**

Many of the DataMate European parts are not available. This product was built prior to 1988. Consult Factory.



## 4. TELECOMMUNICATION SYSTEMS

### INTELECOOL 1 Models ET

<b>ET</b>	<b>036</b>	<b>A</b>	<b>-</b>	<b>P</b>	<b>0</b>	<b>0</b>	Book	Ref Name
ET = External Telecomm	Nominal Capacity in Thousand BTU/H  2 Ton = 24 3 Ton = 36	A = Air Cooled	- = Standard	P = 208/230-1-60 S = 220/240-1-50 A = 460-3-60 Y = 208/230-3-60 N = 200/230-3-50 M = 380/420-3-50	0 = Standard  F = Fixed Outside Air Damper  E = Economizer	0 = No Heat  A = 5KW Heat B = 10KW Heat C = 15KW Heat	CD	Intelecool 1

### INTELECOOL 2 Models ET

Produced 1998 - Present

<b>ET</b>	<b>036</b>	<b>H</b>	<b>R</b>	<b>P</b>	<b>F</b>	<b>B</b>	<b>T</b>		Ref Name
ET = External Telecomm	Nominal Capacity in Thousand BTU/H	H = Hermetic Compressor  S = Scroll Compressor	R = Right Compressor  L = Left Compressor	P = 208/230-1-60  M = 380/420-3-50	0 = Standard  F = Fixed Air Damper  E = Economizer	0 = No Heat  A = 5KW Heat B = 10KW Heat C = 15KW Heat	T = Tan Painted Steel Panels  C = Custom Color A = Aluminum	CD	Intelecool 2

## 5. EXTREME DENSITY SYSTEMS

### EXTREME DENSITY

#### Models XDA

Produced 2003 - Present

<b>XD</b>	<b>A</b>	<b>5</b>	<b>B</b>	<b>K</b>	Book	Ref Name
XD = Liebert Extreme Density System	A = Air Flow Enhancer	5 = 5 Fans	B = Basic Unit	K = 120-1-60 T = 230-1-60	See Notes Below	

**Notes:**

Parts Manual for the XD Products are not available. Please contact the factory.

### EXTREME DENSITY

#### Models XDO

Produced 2003 - Present

<b>XD</b>	<b>O</b>	<b>32</b>	<b>B</b>	<b>C</b>	Book	Ref Name
XD = Liebert Extreme Density System	O = Overhead Cooling Module	32 = Nominal Capacity	B = Basic Unit D = Condensate Detection	C = 208-3-60 D = 230-3-60	See Notes Below	

**Notes:**

Parts Manual for the XD Products are not available. Please contact the factory.

### EXTREME DENSITY

#### Models XDV

Produced 2003 - Present

<b>XD</b>	<b>V</b>	<b>8</b>	<b>B</b>	<b>T</b>	Book	Ref Name
XD = Liebert Extreme Density System	V = Vertical Top Cooler	8 = 8KW Nominal Capacity	B = Basic Unit D = Condensate Detection	K = 120-1-60 T = 230-1-60	See Notes Below	

**Notes:**

Parts Manual for the XD Products are not available. Please contact the factory.

**EXTREME DENSITY****Models XDP**

Produced 2003 - Present

<b>XD</b>	<b>P</b>	<b>160</b>	<b>B</b>	<b>A</b>	<b>Book</b>	<b>Ref Name</b>
XD = Liebert Extreme Density System	P = Pumping Unit	160 = 160 KW	B = Basic Unit R = Pump Redundancy	C = 208-3-60 A = 460-3-60	See Notes Below	

**Notes:**

Parts Manual for the XD Products are not available. Please contact the factory.

**EXTREME DENSITY****Models XDR**

Produced 2003 - Present

<b>RC</b>	<b>08</b>	<b>C</b>	<b>-</b>	<b>K</b>	<b>0</b>	<b>Book</b>	<b>Ref Name</b>
RC = RackCooler	08 = 8KW Nominal Capacity	C = Chilled Water	- = Standard	K = 120-1-60 S = 230-160	0 = Revision Level	See Notes Below	

**Notes:**

Parts Manual for the XD Products are not available. Please contact the factory.