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Datasheet-Freedom Line Condensing Units

NOTE: Revision E adds DDSFNX on page 4. Other changes marked by bar, underline or circle.

**Freedom Line
Condensing Units for
Reach-in Cases**

Case wiring must be on a separate circuit. See Freedom Case data sheet for case circuit requirements.

Condensing Unit	TCLA	TCLB	TCLC	TCLD	TCMA	TCMB	TCMC	TCMD
Application	Low Temperature				Medium Temperature			
	2 Door	3 Door	4 Door	5 Door	2 Door	3 Door	4 Door	5 Door
Voltage/ 60Hz / 1 Phase	208/230	208/230	208/230	208/230	120	120	208/230	208/230
Condensing Unit Only Minimum Circuit Ampacity (MCA)	12.8	17.2	16.6	26.7	10.7	8.4	6.7	9.7
Maximum Overcurrent Protection Device (MOPD)	20	25	25	35	15	15	15	15
Compressor LRA	46	59.2	59.2	87	34.6	29	24.8	33.7
Heat of Rejection (Btu/hr)	4300	6300	8280	10300	1810	2580	3230	4010
Dimensions (inches)								
Height	13.8	16.2	19.0	19.0	14.2	11.8	11.8	13.1
Length	24.0	24.1	25.9	25.8	10.5	16.2	16.1	24.0
Width	17.1	18.3	34.0	34.0	16.0	15.3	12.8	17.0
Shipping Weight (lbs)	120	145	201	226	36	49	50	60
Receiver Capacity (lbs R404A)	5.4	5.4	6.4	6.1	1.7	2.3	2.4	5.6
Oil Recharge (oz)	24	45	45	45	16	16	12	15
Refrigerant Connections (inches)								
Liquid Line	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
Suction Line	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$
Dimensions (inches)								
Height	16.1	17.2	19.0	19.0	16.1	17.2	11.8	13.1
Length	24.0	24.0	25.2	25.2	24.0	24.0	25.2	25.2
Width	18.3	18.3	34.0	34.0	18.3	18.3	34.0	34.0
Shipping Weight (lbs)	116	127	200	286	116	127	200	286

Freedom Line Condensing Units for Multi-Deck Cases

Condensing Unit Application	TCMXA	TCMXB	TCMXC	TCMXD	TCMXA	TCMXB	TCMXC	TCMXD
	CF5X Medium Temperature				DF5NX Medium Temperature			
	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
Voltage/ 60Hz / 1 Phase	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230
Circuit 1 (120V, 1 Phase) Fans, Lights								
Maximum Overcurrent Protection Device (MOPD)	20	20	20	20	20	20	20	20
Circuit 2 (230V, 1 Phase) Condensing Unit and Condensate Pan Heaters								
Maximum Overcurrent Protection Device (MOPD)	20	30	35	45	20	30	35	45
Minimum Circuit Ampacity (MCA)	13.6	25.1	30.0	40.3	13.6	25.1	30.0	40.3
RLA	7	12.4	15.7	20.7	7	12.4	15.7	20.7
LRA	34.2	56	61	100	34.2	56	61	100
R404A Charge (lbs)	4.0	6.0	8.0	12.0	4.0	6.0	8.0	12.0
Accumulator Capacity (lbs)	NA	NA	6.11	6.11	NA	NA	6.11	6.11
Oil Recharge (oz)	24	45	46	49	24	45	46	49
Heat of Rejection (Btu/hr)	11,557	22,948	22,948	34,304	11,805	16,402	23,248	34,704
Refrigerant Connections (inches)								
Liquid Line	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
Suction Line	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	1 $\frac{1}{8}$
Dimensions (inches)								
Height	16.1	17.2	19.0	19.0	16.1	17.2	11.8	13.1
Length	24.0	24.0	25.2	25.2	24.0	24.0	25.2	25.2
Width	18.3	18.3	34.0	34.0	18.3	18.3	34.0	34.0
Shipping Weight (lbs)	116	127	200	286	116	127	200	286
Condensate Pan Heater								
Volts	208	208	240	208	208	208	240	208
Amps	4.8	9.6	10.4	14.4	4.8	9.6	10.4	14.4
Wattage	1000	2000	2500	3000	1000	2000	2500	3000

Replacement Part Numbers:

Condensate Pan & Heater

1.5 kW — TP.4919651

1.0 kW — TP.4919662

Freedom Line Condensing Units for Reach-in Cases

Condensing Unit	TCMAA	TCMAB
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Application	DDF5NX	
	4 ft	6 ft

Voltage/ 60Hz / 1 Phase	208/230	208/230
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Circuit 1 (120V, 1 Phase) Fans, Lights

Maximum Overcurrent Protection Device (MOPD)	20	20
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Circuit 2 (230V, 1 Phase) Condensing Unit and Condensate Pan Heaters

Maximum Overcurrent Protection Device (MOPD)	15	15
Minimum Circuit Ampacity (MCA)	5.4	10.7
RLA	3.8	8.0
LRA	26.0	34.6

R404A Charge (lbs)	4.0	6.0
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Accumulator Capacity (lbs)	NA	NA
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Oil Recharge (oz)	12	16
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Heat of Rejection (Btu/hr)	4,098	7,952
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Refrigerant Connections (inches)		
Liquid Line	$\frac{1}{4}$	$\frac{1}{4}$
Suction Line	$\frac{3}{8}$	$\frac{3}{8}$

Dimensions (inches)		
Height	10.5	14.2
Length	19.9	10.5
Width	11.1	16.0

Shipping Weight (lbs)	44.0	36
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Condensate Pan Heater		
Volts	208	208
Amps	4.8	4.8
Wattage	1000	1000

Replacement Part Numbers:

Condensate Pan & Heater
 1.0 kW — 0536765