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REV	DATE	REVISION DESCRIPTION	DWG	APR
A	8/8/00	ADDED NOTE ABOUT WIRES SIZE	MJS	JES
B	2/21/01	ADD TEXT PER DCR CAD179-01	BAP	JES
C	6/24/04	ADDED COLUMN FOR 2 WIRE BUNDLES,CAD426-04	DRR	MFG
D	6/30/04	REMOVE BREAKER SIZES 5,15 & 30,CAD442-04	DRR	mfg

CIRCUIT BREAKER SIZE	INTERNAL POWER WIRES, MORE THAN 3 WIRES PER BUNDLE MINIMUM WIRE SIZE, AWG	MAIN POWER WIRES, 3 WIRES PER BUNDLE, MINIMUM WIRE SIZE, AWG	MAIN POWER WIRES, 2 WIRES PER BUNDLE, MINIMUM WIRE SIZE, AWG
6	16	---	---
10	14	---	---
13	14	---	---
16	12	---	---
20	10	14	16
25	10	12	14
32	8	10	12
40	6	8	10
50	6	6	10
63	6	6	8

ELECTRIC BOX FAN WIRES ARE 18 GAUGE

NOTES:

- 1) POWER AND GROUND WIRES FOR COMPRESSORS, HEATERS, AND PUMPS ARE NOT SMALLER THEN 12GA.
- 2) NOTE THAT HEATER WIRES ARE TYPICALLY RUN IN ONE HARNESS WIRES PER BUNDLE MEANING USE THE LEFT-HAND SIDE OF THE CHART.
- 3) WHEN USING FREQ DRIVE TO CONVERT 1 PHASE TO 3 PHASE, WIRES FROM CIRC BRKR TO DRIVE ARE SIZED PER CIRC BRKR. WIRES FROM FREQ DRIVE TO COMPRESSOR ARE SIZED PER CIRC BRKR DIVIDED BY 1.732 ROUNDED UP TO NEXT SIZE CIRC BRKR.

FOR EXAMPLE, A 50 AMP 1 PH BREAKER SUPPLIES A FREQ DRIVE.
WIRES FROM BRKR TO DRIVE WOULD BE 10GA(2 WIRES). WIRES FROM DRIVE TO COMP WOULD ALSO BE 10GA(3 WIRES). (50/1.732=28.9, WHICH ROUNDS UP TO 32.)

Dometic Corporation		Marine Air	
WIRE SIZING CHART			
POWER WIRES FOR 105° C RATED WIRE ONLY			
DATE: 07/25/00	DWG BY: RMW	PART NUMBER:	WS012
SCALE: NTS	APR BY: JES	N/A	
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