

NFJ/NCJ JUMBO ISLAND FF & IC MERCHANDISER
NFJE/NCJE JUMBO ISLAND FF & IC END MERCHANDISER
NTJ JUMBO ISLAND SPLIT TEMP MERCHANDISER

MODEL	NFJ	NCJ	NFJ	NTJ	NTJ
USAGE	FF	IC	MED TEMP	DUAL (FF/MT)	TWIN (FF/IC)
CAPACITY (BTUH/FT)	625	750	470	313 / 235	313 / 375
EVAPORATOR**	-25F	-35F	+15F	-25F / +15F	-25F / -35F
ENTER AIR°	-15F	-25F	+22F	-15F / +22F	-15F / -25F

* Evaporator temperature is defined as the saturated suction temperature leaving the case.

FOR ENERGY CALCULATION DATA REFER TO THE ENERGY SECTION. FOR COMPRESSOR SIZING INFORMATION REFER TO THE "GOLD" SECTION & FOR LINE SIZING INFORMATION REFER TO THE "BUFF" SECTION OF THE TYLER SPECIFICATION GUIDE.

208 VOLT DEFROST (AMPS)														
FT	8	12	16	20	24	28	32	36	40	44	48	52	56	
FF/MED 1 PH	13.8 TG-30	20.6 TG-30	27.6 TG-40	34.4 TG-50	41.2 TG-50	(Separate circuit recommended due to high amp draw)								N/A
FF/MED 3 PH	12.0 TG-3-30	18.0 TG-3-30	18.0 TG-3-30	21.0 TG-3-40	27.0 TG-3-50	30.0 TG-3-40	33.0 TG-3-50	36.0 TG-3-50	42.0 TG-3-50	24/24 TG-3-40-40	27/27 TG-3-40-40	30/30 TG-3-40-40	36/36 TG-3-50-50	
IC 1 PH	27.6 TG-40	41.2 TG-50	N/A	(Separate circuit recommended due to high amp draw)								N/A	N/A	
IC 3 PH	24.0 TG-3-30	36.0 TG-3-50	36.0 TG-3-50	42.0 TG-3-50	36/36 TG-3-50-50	30/30 TG-3-40-40	36/36 TG-3-50-50	36/36 TG-3-50-50	42/42 TG-3-50-50	36/36/36 TG-3-50-50	36/36/36 TG-3-50-50	N/A	N/A	
CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH LINE SIZING														
R404A FF R22 MED	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	
R404A IC	7/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	

DEFROST CONTROL				BACKUP PRESSURE SETTINGS**			EPR SETTINGS***	
PER DAY	MODE	TIME	TERM.		CUT IN	CUT OUT	R22	R404A
1	ELECT / FF	60 MIN.	50F	FF	12# @ R404A	2# @ R404A	7.4#	14#
1	ELECT / IC	36 MIN.	50F	IC	6# @ R404A	1# @ R404A	2.6#	8.1#
1	ELECT / MED	36 MIN.	50F	MED	34# @ R22	24# @ R22	37#	49.5#
2-3	HOT GAS / FF	20-25 MIN.	55F*	FF	12# @ R404A	2# @ R404A	7.4#	14#
1	HOT GAS / IC	25-30 MIN.	55F*	IC	6# @ R404A	1# @ R404A	2.6#	8.1#
2-3	HOT GAS / MED	16-20 MIN.	55F*	MED	34# @ R22	24# @ R22	37#	49.5#

* If an Electronic Sensor is used for termination, it should be set at 70°F termination temperature.

** Used with Electronic Thermostat and EPR Control. *** Set EPR to give this pressure at the case.

CASE CIRCUITS: In addition to the 208V defrost circuit, there is the 120V case fan circuit plus the 120V case anti-sweat heater circuit. Shelf or canopy lights require a separate 120V circuit which can be switched at the back room for convenience in controlling the lights.

CASE BTUH REQUIREMENTS are calculated to produce approximately the indicated performance with absolute maximum operating ambient limits of **75F & 55RH**.

The information contained herein is based on technical data and tests which we believe to be reliable and is intended for use by persons having technical skill, at their own discretion and risk. Since conditions of use are outside Tyler's control, we can assume no liability for results obtained or damages incurred through the applications of the data presented. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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120 VOLT ELECTRICAL DATA (AMPS)				
FT	STD. FANS	ECM FANS	ANTI-SWT	ANTI-SWT W/SUPER STRUCTR
8	2.0	.8	2.8	3.8
12	3.0	1.2	3.0	5.2

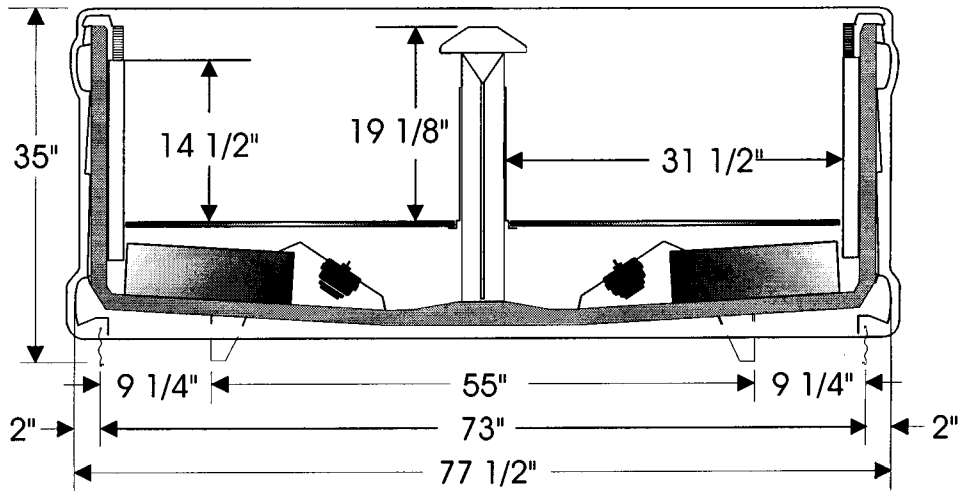
120 VOLT LIGHTING DATA	
FT	OPTIONAL SHELF LIGHTS PER ROW (AMPS)
8	2.0
12	3.0

NOTES FOR NTJ SPLIT TEMP OPERATIONS	
<p>FF/IC TEMP; (NTJ) 1 side frozen food/ 1 side ice cream (must use synchronized defrost) (Frozen food 313 BTUH/FT @ -25F Evap. & Ice cream 375 BTUH/FT @ -35F Evap.)</p> <p>FF/MED TEMP; (NTJ) 1 side frozen food/ 1 side medium temp. (must use synchronized defrost) (Frozen food 313 BTUH/FT @ -25F Evap. & Medium temp. 235 BTUH/FT @ +15F Evap.)</p> <p><i>These values are based on one foot of case, with each side of the case considered separately. Add the totals from both sides to calculate the load for the entire case.</i></p> <p>DEFROST WIRING: There are two heater circuits in each case. The heater wiring stubs out in the 208V raceway as two pairs of wires. Defrost circuits can therefore be wired as a single phase load or they can be wired as an unbalanced 3-phase load.</p> <p>NOTE: Optional shelving superstructures with lights have the same electrical requirements per row of lights as the amps shown. A separate electrical supply for the superstructure lights must be provided since there is no plug in from the superstructure to the case.</p>	<p>TWIN-TEMP NOTES: NTJ is the twin temp version of this case with ice cream on one side and frozen food on the other and is equipped with two electric defrost heaters on both sides. In addition, this version has an insulated center partition to aid in maintaining the temperature difference between the two sides. Both sides must defrost at the same time.</p>

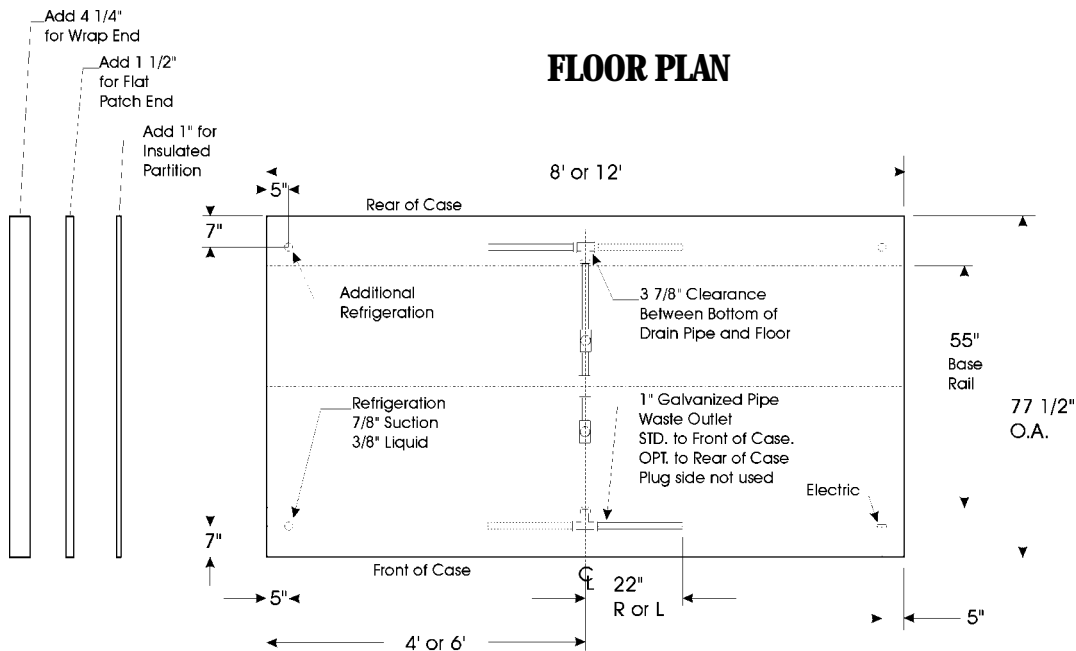
END CASE ELECTRICAL AND REFRIGERATION DATA						
MODEL	USE	BTUH REQUIRED	120V FANS (AMPS)		120V ANTI-SWEAT (AMPS)	208V DEFROST (AMPS)
			STD	ECM		
NFJE	FF	2600 @ -25F	1.0	.4	1.3	8.6
NCJE	IC	3400 @ -35F	1.0	.4	1.3	8.6
NFJE	MED	2400 @ +15F	1.0	.4	1.3	8.6

ADD 0.4 amps to the adjacent case for the End Case Superstructure Anti-Sweats. If the End Case Superstructure has lights, **ADD** an additional 0.3 amps per row to the adjacent case.

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FLOOR PLAN



END CASE FLOOR PLAN

