

SPECIFICATION SHEET

• NFJCX/NCJCX JUMBO ISLAND FF/IC/MED TEMP MERCHANDISERS • • NTJCX JUMBO ISLAND DUAL TEMP SPLIT COIL MERCHANDISERS • • NFJECX/NCJECX JUMBO ISLAND FF/IC/MED TEMP END MERCHANDISERS •

Refrigeration Data:

			CAPACITY	/ (BTUH / FT)*			DISCHAR	AVG. REF.				
MODEL	CASE LENGTH	CASE USAGE	PARALLEL	CONVENTIONAL	EVAPORATOR (°F)	UNIT SIZING (°F)	TEMPERATURE (°F)	VELOCITY (FPM)	CHARGE (LBS/FT)			
NFJCX	8', 12'	FROZEN	544	568	-25**	-28	-15	260***	0.85			
NCJCX	8', 12'	ICE CREAM	636	652	-35**	-38	-25	260***	0.85			
NFJCX	8', 12'	MED TEMP	437	448	+15**	+13	+22	260***	0.85			
NFJCX	8', 12'	FROZ / MED TEMP	272 / 218	284 / 224	-25** / +15**	-28 / +13	-15 / +22	260***	0.43 / 0.43			
NTJCX	8', 12'	FROZ / ICE CRM	272 / 318	284 / 326	-25** / -35**	-28 / -38	-15 / -25	260***	0.43 / 0.43			
NFJECX	77 1/2"	FROZEN	1,633****	1,704****	-25**	-28	-15	242***	0.35			
NCJECX	77 1/2"	ICE CREAM	1,907****	1,956****	-35**	-38	-25	242***	0.35			
NFJECX	77 1/2"	MED TEMP	1,310****	1,344****	+15**	+13	+22	242***	0.35			

* For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

** Evaporator temperature is based on the saturated pressure leaving the case.

*** Air velocity is measured 60 minutes after defrost at the Discharge Air Ducts.

**** BTUH rating is for entire end case. Stand alone end cases require higher capacity loads. ADD 38.7% to frozen NFJECX loads;

ADD 51.2% to ice cream NCJECX loads; ADD 70.1% to medium temp NFJECX loads.

FOR SPECIFIC COMPRESSOR SIZING INFORMATION, REFER TO TYLER APPLICATIONS FOR RACK SYSTEM COMPRESSORS AND/OR THE COMPRESSOR MANUFACTURERS FOR SINGLE COMPRESSORS. FOR LINE SIZING INFORMATION, REFER TO THE MISCELLANEOUS SECTION "BUFF" IN THE TYLER SPECIFICATION GUIDE.

Electrical Data:

Fans (120 Volt) and Optional T-8 Lighting with Electronic Ballasts (120 Volt)

	CASE	FANS/		L FOR RD FANS		L FOR Fans	T-8 LIGHTING FOR OPT. SUPERSTRUCTURE		
MODEL	LENGTH	CASE	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	
N(F/C/T)JCX	8'	4	1.36	120.8	0.48	13.6	2.00	240.0	
N(F/C/T)JCX	12'	6	2.04	181.2	0.72	20.4	3.00	360.0	
NFJEC/NCJECX	77 1/2"	2	0.68	60.4	0.24	6.8	0.30	36.0	

Heaters (120 and 208 Volt)

			ANT	I-SWEAT H	EATERS (12	20 V)		DEF	ROST HEA	TERS (20	8 V)	DRAIN PAN	
CASE		DISCHARGE AIR		RETURN AIR		OPT. SUPERSTRUCTURE		COILS		DRAIN PAN (208V) Elec		HEATER (120V) HG	
MODEL	LENGTH	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS
NFJCX	8'	1.92	230.4	0.60	72.0	3.80	456.0	13.80	2,860	2.24	466	5.00	600
NCJCX/NTJCX	8'	1.92	230.4	0.60	72.0	3.80	456.0	21.64	4,500	2.88	600	5.00	600
NFJCX	12'	2.54	304.8	0.90	108.0	5.20	324.0	20.60	4,290	3.36	700	7.50	900
NCJCX/NTJCX	12'	2.54	304.8	0.90	108.0	5.20	324.0	34.62	7,200	4.33	900	7.50	900
NFJECX/NCJECX	77 1/2"	0.40	48.0	0.60	72.0	1.30	156.0	7.81	1,624	N/A	N/A	N/A	N/A

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

	208 VOLT DEFROST (AMPS)												
FEET	8	12	16	20	24	28	32	36	40	44	48	52	
FF/MED	16.0	24.0	32.0	40.0	(Separate circuit recommended due to high amp draw)								
1 PH	TG-30	TG-30	TG-40	TG-50	N/A								
FF/MED	12.1	20.7	18.6	18.2	31.1	32.8	37.0	15.6/15.6	15.6/24.2	26.8/26.8	31.0/31.0	32.0/32.0	
3 PH	TG-3-30	TG-3-30	TG-3-30	TG-3-30	TG-3-40	TG-3-40	TG-3-50	TG-3-30-30	TG-3-30-30	TG-3-40-40	TG-3-40-40	TG-3-40-40	
IC	24.5	38.9		(Separate circuit recommended due to high amp draw)									
1 PH	TG-30	TG-50		N/A									
IC	21.0	34.0	32.0	38.0	34/34	28/28	34/34	34/34	38/38	34/34/34	34/34/34	38/38/38	
3 PH	TG-3-30	TG-3-40	TG-3-40	TG-3-50	TG-3-40-40	TG-3-40-40	TG-3-40-40	TG-3-40-40	TG-3-50-50	TG-3-40-40-40	TG-3-40-40-40	TG-3-50-50-50	

UL SANITATION approved in accordance with ANSI/NSF - 7.

CASE BTUH REQUIREMENTS are calculated to produce approximately the indicated entering-air temperature with absolute maximum operating ambient limits of 75°F & 55RH.

The information contained herein is based on technical analysis and/or tests performed in a controlled lab environment that are consistent with industry practices, and is intended as a reference for system sizing and configuration purposes only and for use by persons having technical skill at their own discretion and risk. Conditions of use are outside of Tyler's control and we do not assume and hereby disclaim any liability for results obtained or damages incurred through application of or reliance on the data presented, including but not limited to specific energy consumption with any particular model or installed application. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



	CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH LINE SIZING												
FEET	8	12	16	20	24	28	32	36	40	44	48	52	
R404A FF	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"	
R404A IC	7/8"	1 1/8"	1 1/8"	1 1/8"	1 31/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	1 5/8"	1 5/8"	
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"	

Defrost Data:

		EPR SET	TINGS **			
DEFROST TYPE	DEFROSTS PER DAY	Duration Time (Min)	Termination Temp. (°F)	R22 (PSIG)	R404A (PSIG)	DEFROST WATER (LB / FT / DAY)
ELECTRIC / FF	1	60	50	7	14	0.68
ELECTRIC / IC	1	36	50	3	8	0.58
ELECTRIC / MED	1	36	50	37	50	0.45
HOT GAS / FF	2-3	20-25	55*	7	14	0.68
HOT GAS / IC	1	25-30	55*	3	8	0.58
HOT GAS / MED	2-3	16-20	55*	37	50	0.45

* If an Electronic Sensor is used for termination, it should be set at 65°F termination temperature.

** Set EPR to give this pressure at the case.

NFJCX / NCJCX / NTJCX APPLICATIONS:

The NFJCX, NCJCX and NTJCX cases can be used in a wide variety of applications as described below:

- **NFJCX/NCJCX:** These models have front and rear coils piped together and both wells are run off one compressor system. Always pipe the compressor system that will supply the coldest application usage.
 - 1. Frozen food on both sides.
 - 2. Ice cream on both sides. (NCJCX only)
 - 3. Medium temp on both sides. No dual temp control is needed, but you must specify the proper expansion valve and size the compressor system accordingly.
 - 4. Frozen food on one side and ice cream on the other side. (NCJCX only)
 - 5. Frozen food on one side and medium temp on the other side.
 - 6. Frozen food on one side and dual temp on the other side. **NOTE:** Dual temp refers to frozen food or medium temp operation by use of a dual temp control. Dual temp also requires an expansion valve sized for the coldest dual temp operation.
 - 7. Dual temp on both sides. **NOTE:** This requires either one or two dual temp controls. Use one dual temp control when both wells are controlled together. Use two separate dual temp controls when you want to control the front and rear wells separately on one compressor.

NTJCX:

These models have the front and rear coils piped separately. This case is designed to run off separate compressor systems and operate in dual temp applications. In addition, this version has an insulated center partition to aid in maintaining the temperature differences between the two sides. Both sides must defrost at the same time.

TYPICAL USAGES:

- 1. Frozen food on one side and ice cream on the other side.
- 2. Frozen food on one side and medium temp on the other side.
- 3. Frozen food on one side and dual temp on the other side. **NOTE:** Dual temp refers to frozen food or medium temp operation by use of a dual temp control. Dual temp also requires an expansion valve sized for the coldest dual temp operation.
- 4. Dual temp on both sides. **NOTE:** This requires two dual temp controls to control both the front and rear wells on their respective compressor systems.

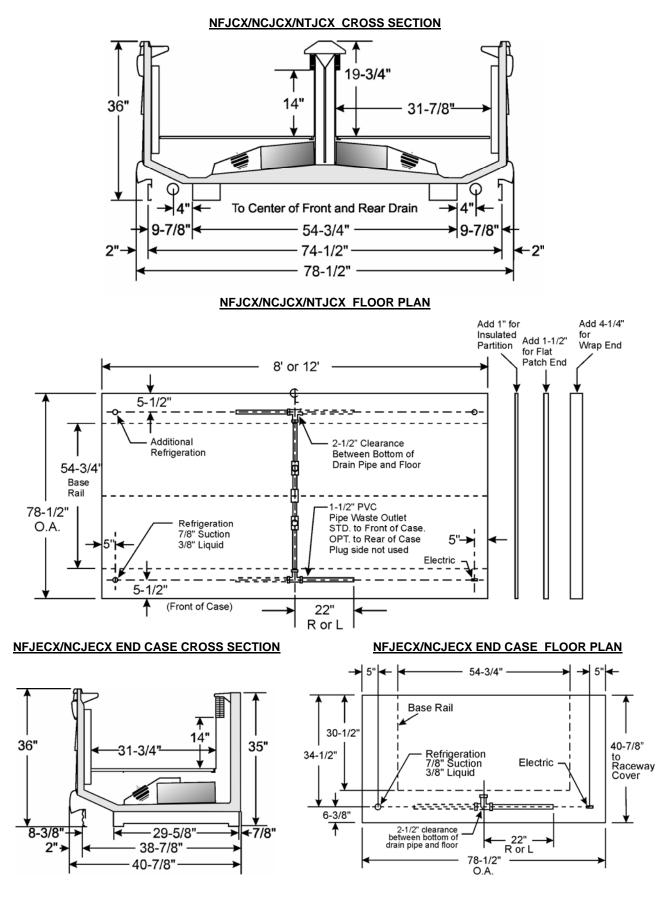
NON-TYPICAL USAGES:

- 5. Frozen food on both sides.
- 6. Ice cream on both sides.
- 7. Medium temp on both sides. No dual temp control is needed, but you must specify the proper expansion valve and size each compressor system accordingly.

DEFROST WIRING: There are two defrost 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. The 3-phase defrost information is based on dividing the heater loads as evenly as possible across the phases.

NOTE: Optional shelving superstructures with lights have the same electrical requirements per row of lights as the amps shown.





03-Jan-08 N(F/C/T)JCX/N(F/C)JECX