

SPECIFICATION SHEET

• NFX/NFSX/NCSX SOLID FRONT OPEN WELL FF/IC/MED TEMP MERCHANDISERS • • NFSGX/NCSGX GLASS FRONT OPEN WELL FF/IC/MED TEMP MERCHANDISERS •

Refrigerati	on 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)
NFX/NFSX	8'/12'	FROZEN FOOD	313*	327*	-25**	-28	-15	200***	0.28****
NCSX	8'/12'	ICE CREAM	390*	400*	-35**	-38	-25	200***	0.28****
NFX/NFSX	8'/12'	MED TEMP	314*	322*	+15**	+13	+22	200***	0.28****
NFSGX	8'/12'	FROZEN FOOD	366*	382*	-25**	-28	-15	200***	0.28****
NCSGX	8'/12'	ICE CREAM	458*	470*	-35**	-38	-25	200***	0.28****
NFSGX	8'/12'	MED TEMP	367*	376*	+15**	+13	+22	200***	0.28****

* 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 measured 1 hour after defrost at the discharge air duct using an ALNOR JR. velometer with a scoop.

**** This is an average refrigeration charge per foot based on R22 and R404A refrigerant usage.

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

			TOTAL S	TD FANS	TOTAL E	CM FANS	TOTAL T-8 LIGHTING (PER ROW)					
MODEL	CASE LENGTH	FANS / CASE	AMPS	WATTS	AMPS	WATTS	REAR SHELF LIGHT AMPS WATTS		OPT. SUPRSTR. LIGH AMPS WATTS			
NFX	8'	2	0.68	60.4	0.44	22.0	N/A	N/A	0.50	60.0		
NFSX/NCSX/ NFSGX/ NCSGX	8'	2	0.68	60.4	0.44	22.0	0.50	60.0	0.50	60.0		
NFX	12'	3	1.02	90.6	0.66	33.0	N/A	N/A	0.70	84.0		
NFSX/NCSX/ NFSGX/ NCSGX	12'	3	1.02	60.6	0.66	33.0	0.70	84.0	0.70	84.0		

NOTE: Optional shelving superstructures with lights have same electrical requirements per row of lights as shown in this chart. A separate electrical supply for superstructure lights must be provided since there is no plug in from the superstructure to the case.

Heaters (120 and 208 Volt)

			TC)TAL ANTI-S (1	SWEAT HEA 20 V)	TERS				D GLASS 0 V)		FHEATER 8 V)	
MODEL	CASE LENGTH	DISCHA AMPS	RGE AIR WATTS	REAR SHELF (W/ LIGHT) AMPS WATTS		REAR SHELF (W/O LIGHT) AMPS WATTS		GLASS RETAINER AMPS WATTS		AMPS	WATTS	AMPS	WATTS
NFX	8'	0.95	114.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.9	1,435
NFSX	8'	N/A	N/A	1.25	150.0	2.20	264.0	N/A	N/A	N/A	N/A	6.9	1,435
NCSX	8'	N/A	N/A	1.25	150.0	2.20	264.0	N/A	N/A	N/A	N/A	13.8	2,870
NFSGX	8'	N/A	N/A	1.25	150.0	2.20	264.0	0.94	113.0	0.66	79.0	6.9	1,435
NCSGX	8'	N/A	N/A	1.25	150.0	2.20	264.0	0.94	113.0	0.66	79.0	13.8	2,870
NFX	12'	1.26	152.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.3	2,142
NFSX	12'	N/A	N/A	1.70	206.0	2.95	358.0	N/A	N/A	N/A	N/A	10.3	2,142
NCSX	12'	N/A	N/A	1.70	206.0	2.95	358.0	N/A	N/A	N/A	N/A	20.6	4,285
NFSGX	12'	N/A	N/A	1.70	206.0	2.95	358.0	1.25	150.0	1.55	186.0	10.3	2,142
NCSGX	12'	N/A	N/A	1.70	206.0	2.95	358.0	1.25	150.0	1.55	186.0	20.6	4,285

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.

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.

20-Mar-08



	208 VOLT DEFROST (AMPS)													
FT	8	12	16	20	24	28	32	36	40	44	48	52	56	60
FF/MED 1 PH	6.9 TG-30	10.3 TG-30	13.8 TG-30	17.2 TG-30	20.6 TG-30	24.1 TG-40	27.5 TG-40	30.9 TG-40	34.3 TG-50	37.8 TG-50	41.2 TG-50	44.6 TG-50	N/A	N/A
FF/MED 3 PH	N/A	N/A	12.0 TG-3-30	15.0 TG-3-30	18.0 TG-3-30	15.0 TG-3-30	18.0 TG-3-30	18.0 TG-3-30	21.0 TG-3-30	25.0 TG-3-40	28.0 TG-3-40	30.0 TG-3-40	33.0 TG-3-50	36.0 TG-3-50
IC 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								
IC 3 PH	N/A	N/A	42.0 TG-3-30	30.0 TG-3-40	36.0 TG-3-50	30.0 TG-3-40	36.0 TG-3-50	36.0 TG-3-50	43.0 TG-3-50	30/36 TG-3-50-50	36/36 TG-3-50-50	36/30 TG-3-50-50	36/36 TG-3-50-50	36/36 TG-3-50-50
				C	ASE-TO-CA	SE SUCTI	on line s	UB-FEED E	BRANCH LI	NE SIZING				
R404A FF	5/8"	7/8"	7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"
R22 MED	5/8"	7/8"	7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"
R404A IC	7/8"	7/8"	7/8"	1 1/8"	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 3/8"

Defrost Data:

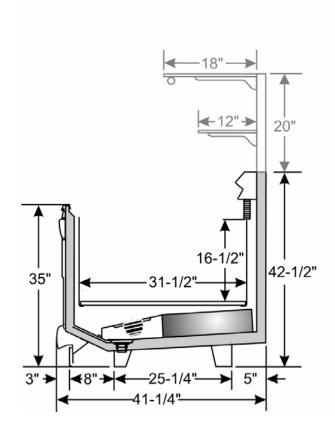
				EPR SETTINGS **		
DEFROST TYPE*	DEFROSTS PER DAY	DURATION TIME (MIN)	TERMINATION (°F)	R22 (PSIG)	R404A (PSIG)	DEFROST WATER (LB / FT / DAY)
ELECTRIC / FF	1	60	50	7.4	14	N/A
ELECTRIC / IC	1	36	50	2.6	8.1	N/A
ELECTRIC / MED	1	36	50	37	49.5	N/A
HOT GAS / FF	2-3	20-25	55*	7.4	14	N/A
HOT GAS / IC	1	25-30	55*	2.6	8.1	N/A
HOT GAS / MED	2-3	16-20	55*	37	49.5	N/A

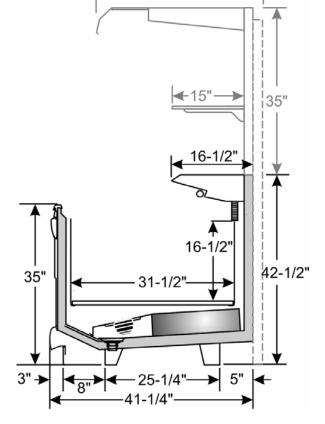
* If an Electronic Sensor is used for termination, it should be set at 70°F termination temperature. The sensor must be located in the same location as the defrost termination klixon for that defrost type. ** Set EPR to give this pressure at the case.

NFX CROSS SECTION With Optional DSAL Superstructure

NFSX/NCSX CROSS SECTION With Optional DNS Superstructure

35"





03-Jan-08

TYLER SPEC SHEET

NFX/NFS(G)X/NCS(G)X



NFSGX/NCSGX CROSS SECTION

