

SPECIFICATION SHEET

- **NFWX/NCWX SOLID FRONT WIDE ISLAND FF/IC/MED TEMP MERCHANDISERS** •
- **NFWGX GLASS FRONT WIDE ISLAND FF/MED TEMP MERCHANDISERS** •
- **NFWEX WIDE ISLAND FF/MED TEMP END MERCHANDISERS** •

Refrigeration Data:

MODEL	CASE LENGTH	CASE USAGE	CAPACITY (BTUH / FT)		EVAPORATOR (°F)	UNIT SIZING (°F)	DISCHARGE AIR		AVG. REF. CHARGE (LBS/FT)
			PARALLEL	CONVENTIONAL			TEMPERATURE (°F)	VELOCITY (FPM)	
NFWX	8', 12'	FROZEN	392*	405*	-25***	-28	-15	270****	0.32†
NCWX	8', 12'	ICE CREAM	466*	481*	-35***	-38	-25	270****	0.32†
NFWX	8', 12'	MED TEMP	393*	403*	+15***	+13	+22	270****	0.32†
NFWGX	8', 12'	FROZEN	426*	440*	-25***	-28	-15	270****	0.32†
NFWGX	8', 12'	MED TEMP	420*	431*	+15***	+13	+22	270****	0.32†
NFWEX	54 1/2"	FROZEN	1,751**	1,827**	-25***	-28	-15	N/A****	0.27†
NFWEX	54 1/2"	MED TEMP	1,491**	1,529**	+15***	+13	+22	N/A****	0.27†

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

** BTUH rating is for entire end case.

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

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

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

MODEL	CASE LENGTH	FANS / CASE	TOTAL FOR STANDARD FANS		TOTAL FOR ECM FANS		T-8 LIGHTING FOR OPT. SUPERSTRUCTURE (PER ROW)		OPT. SUPERSTRUCTURE ANTI-SWEAT HEATERS (120V)	
			AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS
NFW(G)X/NCWX	8'	2	0.68	60.4	0.44	22.0	1.20	144.0	0.60	72.0
NFW(G)X/NCWX	12'	3	1.02	90.6	0.66	33.0	1.80	216.0	0.60	72.0
NFWEX	54 1/2"	1	0.34	30.2	0.22	11.0	0.30	36.0	0.40	48.0

Heaters (120 and 208 Volt)

MODEL	CASE LENGTH	ANTI-SWEAT HEATERS (120 V)						HEATED GLASS (120 V)		DEFROST HEATERS (208 V)		DRAIN PAN HEATER (120 V)	
		DISCHARGE AIR		RETURN AIR		GLASS RETAINER							
		AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS
NFWX	8'	0.95	114.0	N/A	N/A	N/A	N/A	N/A	N/A	13.8	2,870	N/A	N/A
NCWX	8'	0.95	114.0	N/A	N/A	N/A	N/A	N/A	N/A	13.8	2,870	N/A	N/A
NFWGX	8'	0.95	114.0	N/A	N/A	0.94	113.0	0.66	79.2	13.8	2,870	N/A	N/A
NFWX	12'	1.26	152.0	N/A	N/A	N/A	N/A	N/A	N/A	20.6	4,285	N/A	N/A
NCWX	12'	1.26	152.0	N/A	N/A	N/A	N/A	N/A	N/A	20.6	4,285	N/A	N/A
NFWGX	12'	1.26	152.0	N/A	N/A	1.25	150.0	1.55	186.0	20.6	4,285	N/A	N/A
NFWEX	54 1/2"	0.25	30.0	0.37	45.0	N/A	N/A	N/A	N/A	6.9	1,435	0.3	36.0

CASE CIRCUITS: In addition to a 208V defrost circuit, there is the 120V case fan circuit plus the 120V case anti-sweat 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.

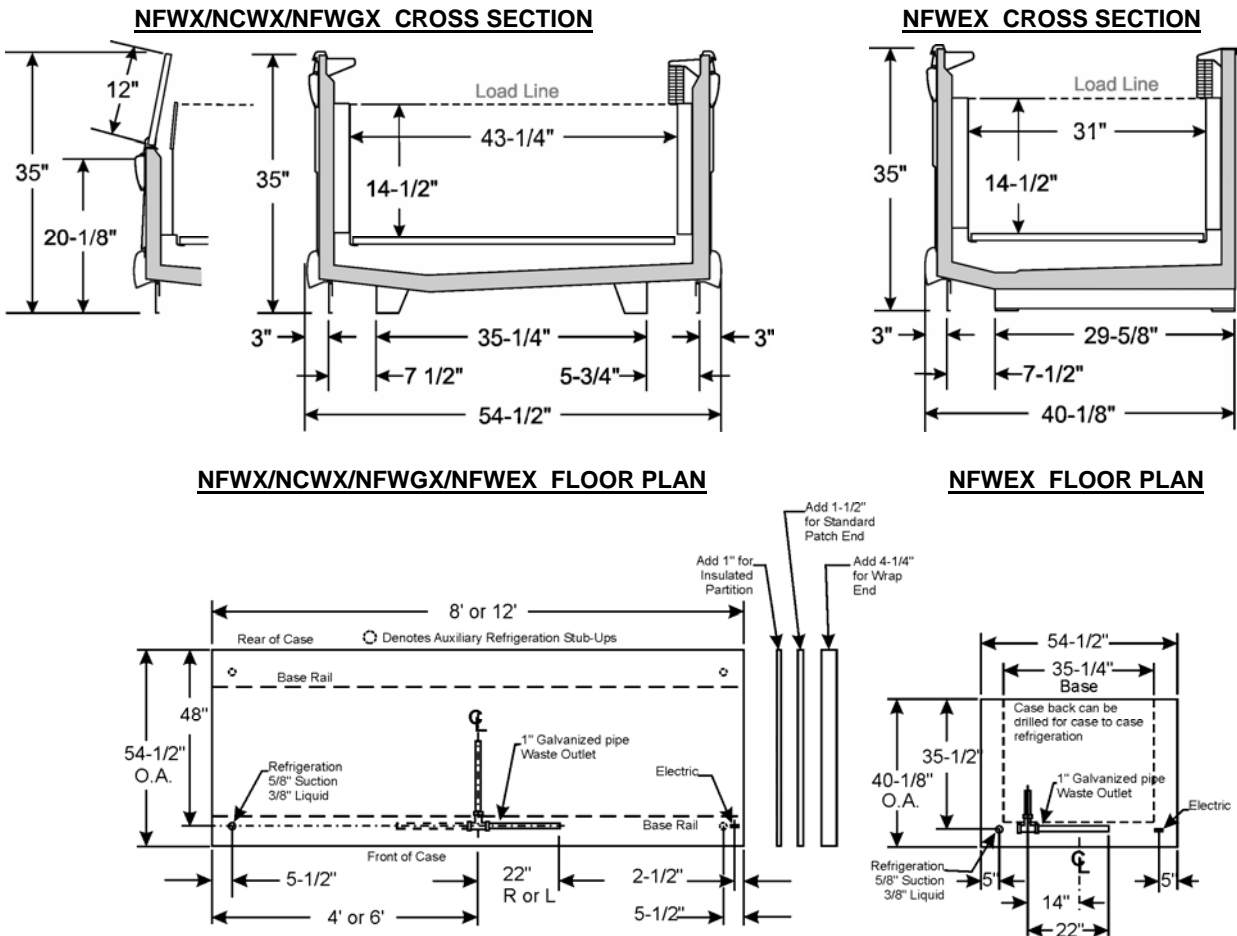
208 VOLT DEFROST (AMPS)														
FEET	8	12	16	20	24	28	32	36	40	44	48	52	56	60
1 PH	13.8 TG-30	20.6 TG-50	27.6 TG-40	34.4 TG-50	41.2 TG-50	(Separate circuit recommended due to high amp draw) N/A								
3 PH	N/A	N/A	24.0 TG-3-30	30.0 TG-3-40	36.0 TG-3-50	30.0 TG-3-40	36.0 TG-3-50	36.0 TG-3-50	43.0 TG-3-50	30/36 TG-3-50/50	36/36 TG-3-50/50	36/36 TG-3-50/50	36/36 TG-3-50/50	36/36 TG-3-50/50
CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH LINE SIZING														
R404A FF	5/8"	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 1/8"	1 3/8"	1 3/8"	1 3/8"
R404A IC	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"
R22 MED	5/8"	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"	1 3/8"	1 3/8"

Defrost Data:

DEFROST TYPE	DEFROSTS PER DAY	DURATION TIME (MIN)	TERMINATION TEMP. (°F)	EPR SETTINGS **		DEFROST WATER (LB / FT / DAY)
				R22 (PSIG)	R404A (PSIG)	
ELECTRIC / FF	1	46	50	7	14	N/A
ELECTRIC / IC	1	46	50	3	8	N/A
ELECTRIC / MED	1	36	50	38	50	N/A
HOT GAS / FF	2-3	20-25	55*	7	14	N/A
HOT GAS / IC	1	25-30	55*	3	8	N/A
HOT GAS / MED	2-3	16-20	55*	38	50	N/A

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

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



STUB-UP NOTE: One floor drain can serve up to two cases per drain. One electrical stub-up can serve a number of cases depending on the circuits required – utilizing the continuous wire raceway(s) on the front of the cases. One refrigeration stub-up can serve several or all cases on a line-up with case-to-case piping. Maximum 1 5/8" for case-to-case piping.