

SPECIFICATION SHEET

**NVM / NVF FIXED VERTICAL GLASS GRAVITY SERVICE MERCHANDISERS
NVD FIXED VERTICAL GLASS BLOWER SERVICE 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)	
NVM	ALL	Meat / Fish	195*	293*	+13**	+11	N/A	N/A	0.83
NVF	ALL	Fish (Iced)	178*	266*	+20**	+18	N/A	N/A	0.39
NVD	ALL	Deli	368*	551*	+15**	+13	30	325***	0.52

* Capacity data listed for cases with 1 row of T-8 top lights. ADD 20 BTUH/FT for each lighted mezzanine shelf.

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 vertical part of the Rear Duct.

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)

MODEL	CASE LENGTH	FANS / CASE	TOTAL STANDARD FANS		TOTAL ECM FANS	
			AMPS	WATTS	AMPS	WATTS
NVM	4'	N/A	N/A	N/A	N/A	N/A
NVM / NVF	6'	N/A	N/A	N/A	N/A	N/A
NVM / NVF	8'	N/A	N/A	N/A	N/A	N/A
NVM / NVF	12'	N/A	N/A	N/A	N/A	N/A
NVD	6'	2	0.68	60.4	0.44	22.0
NVD	8'	2	0.68	60.4	0.44	22.0
NVD	12'	3	1.02	90.6	0.66	33.0

T8 Lighting with Electronic Ballasts (120 Volt)

MODEL	CASE LENGTH	CANOPY LIGHTS		SHELF LIGHTS - PER ROW				MAXIMUM LIGHTING *	
		AMPS	WATTS	AMPS		WATTS		AMPS (3 ROWS)	WATTS (3 ROWS)
				1 ROW	2 ROWS	1 ROW	2 ROWS		
NVM	4'	0.35	42.0	0.35	0.50	42.0	60.0	0.85	102.0
NV(M/F/D)	6'	0.40	48.0	0.40	0.80	48.0	96.0	1.20	144.0
NV(M/F/D)	8'	0.50	60.0	0.50	1.00	60.0	120.0	1.50	180.0
NV(M/F/D)	12'	0.70	84.0	0.70	1.40	84.0	168.0	2.10	252.0

* For cases with 1 rows of canopy lights and 2 rows of shelf lights.

Defrost Data:

DEFROST TYPE	DEFROSTS PER DAY	DURATION TIME (MIN)	TERMINATION TEMP. (°F)	BACKUP PRESSURE SETTINGS *		EPR SETTINGS **		DEFROST WATER (LB / FT / DAY)
				CUT IN	CUT OUT	R22 (PSIG)	R404A (PSIG)	
TIME OFF - NVM / NVF	1	110	N/A	34# @ R22	24# @ R22	36	47	N/A
TIME OFF - NVD	1	46	N/A	34# @ R22	24# @ R22	36	47	N/A

* Used with electronic thermostat and EPR control.

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

MODEL	CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH SIZING FOR CASE LINE-UPS (R-22 REFRIGERANT)											
	4'	6'	8'	12'	16'	20'	24'	28'	32'	36'	40'	44'
NVM	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"
NVF	N/A	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"
NVD	N/A	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"

CONVENIENCE OUTLET CIRCUIT: One single convenience outlet is on the back of the 4' and 6' cases and two single convenience outlets are on the back of the 8' and 12' cases. Plan suitable 15A circuits for these 120V outlets.

An evaporator Pressure Regulator should be installed on each system to aid in temperature control. Set the EPR for 36 PSIG (R22).

Shelves not recommended in gravity coil cases since they disrupt airflow and compromise performance. Blower style cases may use shelving.

Pressure control settings shown in the above table are for backup purposes only. The actual temperature control should be set by the thermostat.

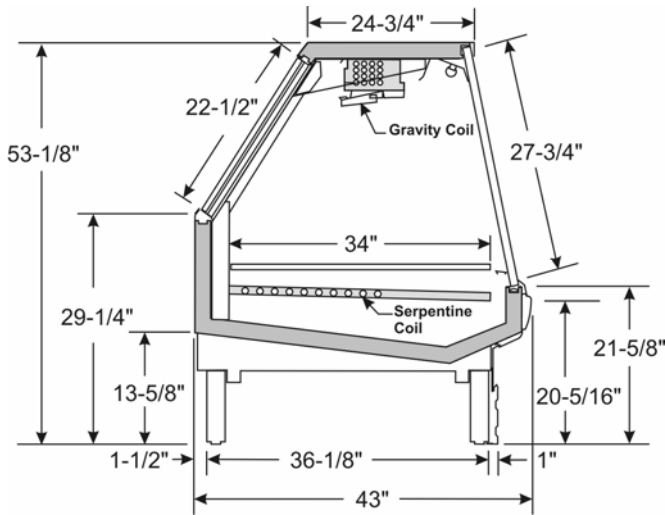
NVM setting for this case = CUT IN @ 32°F and CUT OUT @ 22°F. NVF setting for this case = CUT IN @ 34°F and CUT OUT @ 33°F. NVD setting for this case = CUT IN @ 31°F and CUT OUT @ 24°F.

NSF CERTIFIED to meet ANSI/NSF - 7.

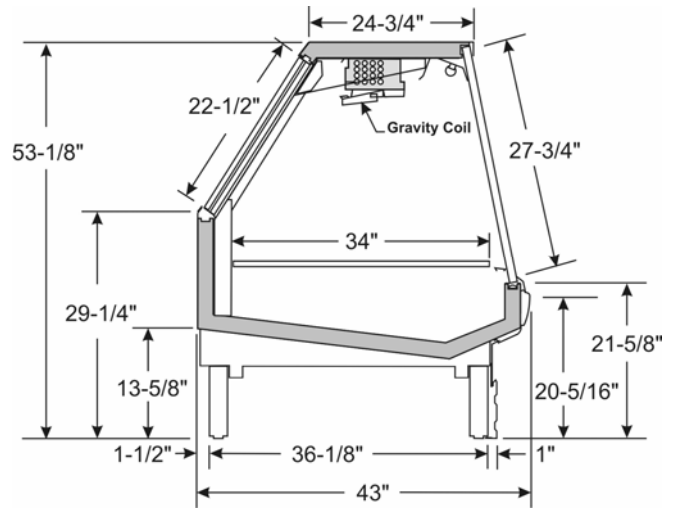
CASE BTUH REQUIREMENTS are calculated to produce approximately the indicated performance with absolute maximum operating ambient limits of 75°F & 55RH.

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.

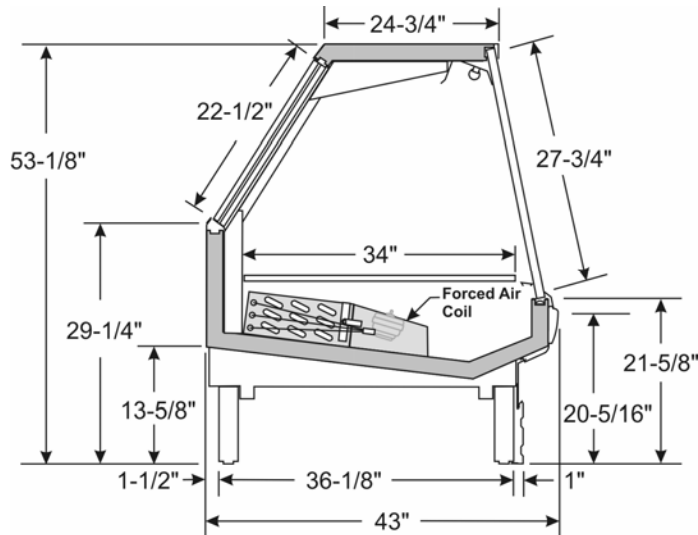
NVM CROSS SECTION



NVF CROSS SECTION



NVD CROSS SECTION



FLOOR PLAN

