

• N4PHP HIGH PERFORMANCE MULTI-SHELF BULK PRODUCE 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)	
N4PHP	8'/12'	BULK PRODUCE	937*	950*	+34**	+32	+39	177***	0.61

* Capacity data listed for 1 or 2 rows of T-8 canopy lights and 3 rows of unlighted shelves. ADD 23 BTUH/FT for each row of lighted shelves For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

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

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

Use the N4MHP cases for critical temp applications.

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
N4PHP	8'	2	1.60	142.0	1.06	44.0
N4PHP	12'	3	2.40	213.0	1.59	66.0

T-8 Lighting with Electronic Ballasts (120 Volt)

MODEL	CASE LENGTH	CANOPY LIGHTS - PER ROW*				SHELF LIGHTS - PER ROW						MAXIMUM LIGHTING (5 ROWS)	
		AMPS		WATTS		AMPS			WATTS			AMPS	WATTS
		1	2	1	2	1	2	3	1	2	3		
N4PHP	8'	0.50	0.95	60.0	114.0	0.70	1.10	1.40	84.0	132.0	168.0	2.35	282.0
N4PHP	12'	0.70	1.40	84.0	168.0	1.05	1.65	2.10	126.0	198.0	252.0	3.50	420.0

Defrost Data:

DEFROST TYPE	DEFROSTS PER DAY	DURATION TIME (MIN) *	ELEK. THERMOSTAT / AIR SENSOR SETTINGS			EPR SETTINGS **		CONVENTIONAL COMPRESSOR SETTINGS ***				DEFROST WATER (LB / FT / DAY)
			USAGE	CUT IN	CUT OUT	R22 (PSIG)	R404A (PSIG)	R22 (PSIG)		R404A (PSIG)		
TIME OFF	2	10	MED TEMP	40°F	38°	60	75	58	46	73	58	N/A

* **NOTE:** 10 minutes is for EPR with suction stop for defrost isolation. Defrost times increase by four minutes (14 min. total) when defrost isolation is by pump down. Set EPR to give this pressure at the case.

** If EPR is utilized, use the settings shown in the chart. **NOTE:** The customer will need to set the EPR on the parallel rack or single unit to the appropriate suction temperature and the N4PHP cases must be on a separate suction stub with a separate EPR. **ADD 0.5#** to EPR setting for each 1000 foot rise in elevation.

*** Required setup for a conventional unit uses an electronic thermostat to assure accurate temperature control.

CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH LINE SIZING																
MODEL	8'	12'	16'	20'	24'	28'	32'	36'	40'	44'	48'	52'	56'	60'	64'	68'
N4PHP R22	1/2"	5/8"	5/8"	7/8"	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"	1-1/8"

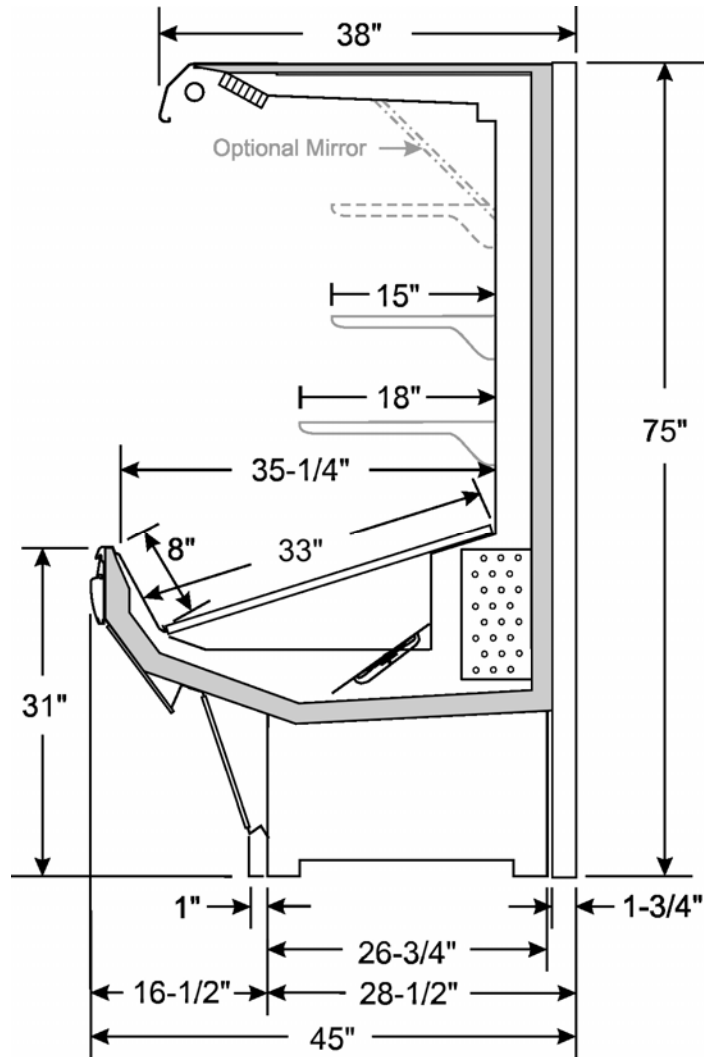
SHELVING AND MIRROR NOTES: 15" and 18" shelves are available for the N4PHP. When two sizes are used, the smaller must be used on top. Optional 16", 23" or 30" mirrors are available on the N4PHP. 1 or 2 rows of discharge holes must be left open between the top shelf and bottom of mirror on the N4PHP.

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.

N4PHP CROSS SECTION



FLOOR PLAN

Allow a 3" SPACE between the back of this case and the store wall, other cases, or coolers to minimize possible condensation problems. FORCED VENTILATION may be necessary in some situations.

Add 1-1/2" for Standard Patch End

