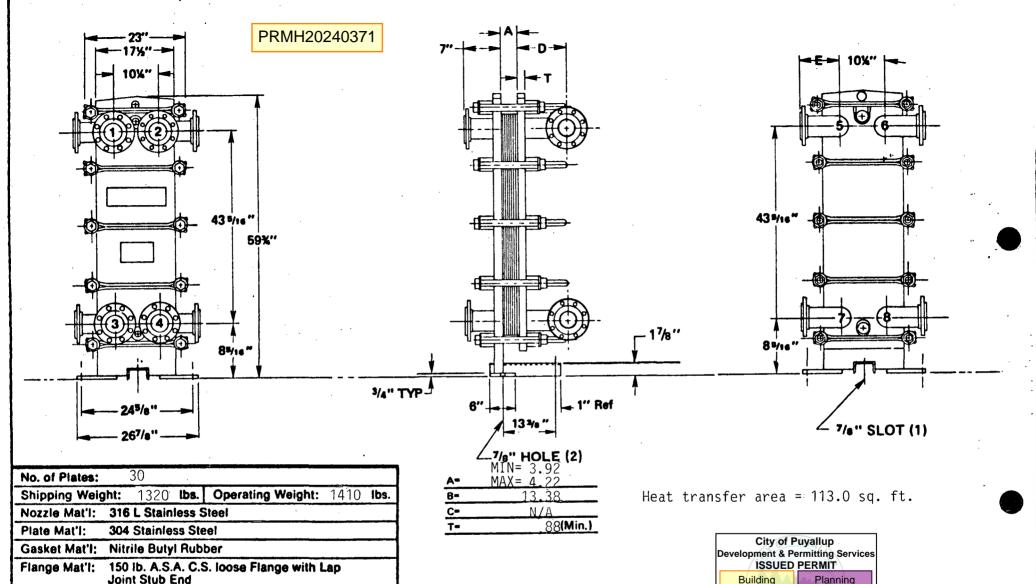




PRMH20240371



(	DJECT Puya	Box 44100 ington 98444 r. Darrin Pease  Ilup High Schoo	ol - Puyallup, Wás	hington	DATE P.O. NO. B.A.C. NO. MODEL NO. Rep Order	September 19, 1988 2234 89200937 (1) EC5-030-1M
ı	C.REP: Tres	West Engineeri . Campbell & As	ing - Tacoma, WA ssociates, Inc	Seattle, Wa	ashington	
$\overline{}$			ENERCHANGER™ HE	AT EXCHANGE	ER	
	ERTIFIED CAPACI	Cold Side:	drop. 180 GPM of water drop.		to 87°F at 9	75°F psi fluid pressure  .3°F psi fluid pressure  City of Puyallup evelopment & Permitting Services ISSUED PERMIT  Building Planning
EVAPORATIVE EQUIPMENT SERIAL NUMBER:						Engineering Public Works
NO	TE: Two speed fan m	otors require a starter	r that incorporates a 15 sec	ond time delay	when switching fr	om high to low speed.
	omittal Data: 4	copies	X	For Approva		For Record
		ITEM	\			ITEM
	nit dimensions		VE5100H			
	echanical speci	fications				
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FOR FACTORY DOM OZLY		,				



LOCATION*	SIZE
1	2"
3	2"
4	2"
2	2"
	1 3 4 2

psig

٠F

Max. Allowable Pressure:

Max. Allowable Temperature:

ALL DIMENSIONS APPROXIM	ATE
NOT TO BE USED FOR	
CONSTRUCTION PURPOSES	

6"

DIMENSIONS

9%"

NOZZLE

SIZE

Development & Permitting Services ISSUED PERMIT			
Building	Planning		
Engineering	Public Works		
Fire OF W	SHITraffic		

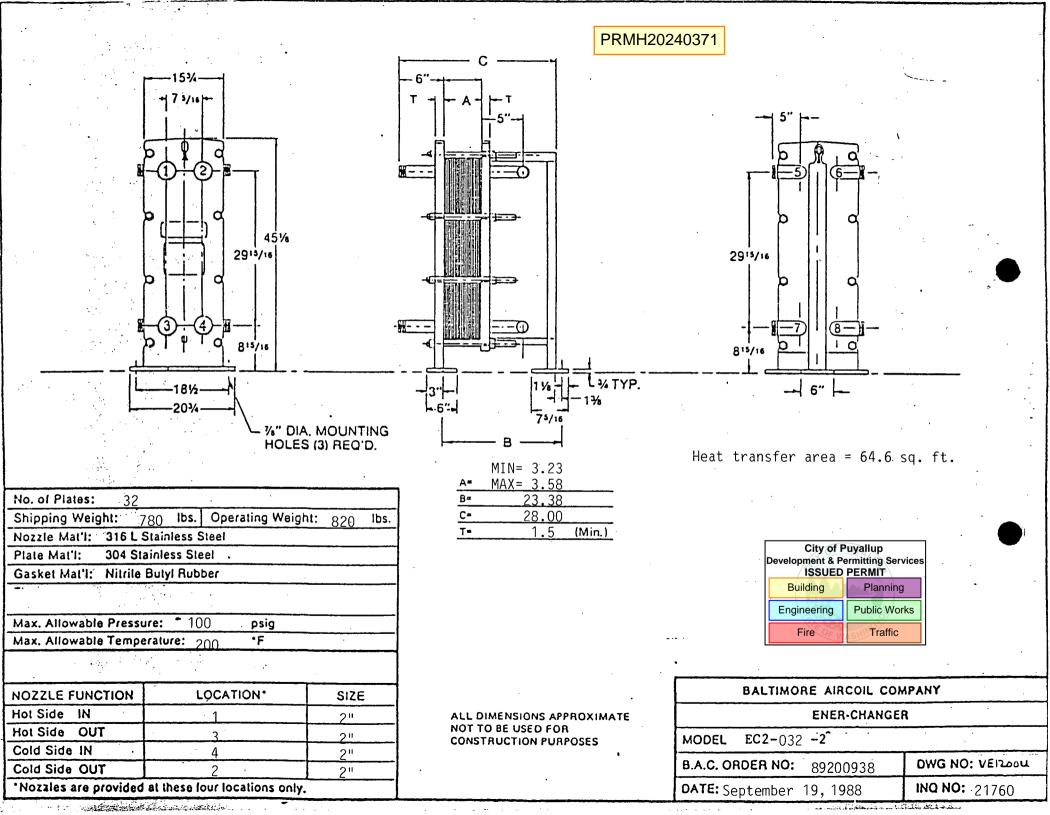
BALTIMORE AIRCOIL COMPANY				
ENER-CHANG	ER			
MODEL EC5-030 -1 M				
<b>B.A.C. ORDER NO:</b> 89200937	DWG NO: YE 5100H			
DATE: Sentember 19, 1988	INQ NO: 21760			



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	O M E R	Tacoma,	ice E Washi	Inc. Box 44100 ngton 984				DATE P.O. NO. B.A.C. NO. MODEL NO. Rep Order	September 19, 1988 2234 89200938 (1) EC2-032-2	
EN	IGIN	ECT	Tres	West Engi	School - Puy neering - Ta & Associate	acoma, Wäs	hington	Wäshington		
				· · · · · · · · · · · · · · · · · · ·	ENERO	CHANGER™ H	EAT EXCHANG	ER		
	CER	RTIFIED CA	\PACI]	ΓY: Hot Si	de: 130 GPM drop.	of water	from 80°F t	o 70°F at 9.	64°F psi fluid pressure	
				Cold S		1 of water	from 60°F	to $70^{\circ}$ F at $\frac{-}{8}$	.88°F psi fluid pressur	е
-	EV <i>F</i>	\PORATIVE	EQUIF	PMENT MODE	·				City of Puyallup Development & Permitting Services ISSUED PERMIT Building Planning	
	EVA	APORATIVE	EQUIF	PMENT SERI	AL NUMBER:				Engineering Public Works  Fire Traffic	
N	ОТ	E: Two speed	fan mo	otors require a	starter that incorp	oorates a 15 sec	cond time delay	when switching fr	om high to low speed.	
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DATE September 19, 1988

## MECHANICAL SPECIFICATIONS

## BALTIMORE AIRCOIL ENERCHANGER™ Plate and Frame Heat Exchanger

PROJECT Puya	llup High School -Puyallup, WA
customer Peas	e & Sons, Inc Tacoma, WA P.O. 2234
B.A.C. SERIAL NO.	89200937/8 ENGINEER Tres West Engineering - Tacoma, WA
UNIT TYPE	Factory-assembled, plate and frame type heat exchanger of counterflow design. Plate and frame heat exchanger is free-standing, unitized frame and multi-plate. It is complete, pre-assembled, pressure tested at the factory and flushed clean, ready for connection to customer's piping. All materials and manufacturing are of U.S. origin.
CODES AND STANDARDS	The ENERCHANGER <sup>™</sup> is designed, fabricated and tested for operation in accordance with the ASME Unfired Pressure Vessel Code, Section VIII, Division 1, including latest addenda, and code stamped where required.
FRAME	Frame is adequately sized to allow for opening and cleaning the plates. Frame is provided with top and bottom guide bars for support and alignment of plates. Top guide bar is smooth finished stainless steel surface for roller bearing support of movable end frame and ease of transport for plate suspension. Bottom guide bar is also smooth finished stainless steel. Fixed and movable end frames are reinforced, flat plate SA-516-70 carbon steel design. Movable frame is supported from the top guide bar by a roller bearing and guided by the bottom guide bar. End frames are provided with holes to facilitate lifting. Three heavy steel floor base plates for anchor bolts are provided.
PLATES	Plates are fabricated of 304 stainless steel. All plates are provided for attaching to the upper guide bar. Plate designs are herringbone or washboard with alternate plates rotated 180 degrees. All plates have internal metal to metal contact points (a minimum of 150/square foot). Perforated flat plates between corrugated plates are not used. Plate thickness is selected to withstand full operating pressure in one channel with zero pressure in the adjoining channel. Plate thickness is not less than .024 inches (.6mm). Plate design includes an enclosing groove for the entire gasket. The gasket groove has tapered sides to assure positive seating of the compressed qasket. The gasket groove is configured to assure that the compressed gasket does not extend above the top of the groove to preclude blow-out of the gasket. End plates are provided at the fixed and movable frames.
GASKETS	Gaskets are molded, one piece NBR securely cemented into the continuous gasket groove in each plate. Inactive port gasket areas are vented to the exterior in such a manner that no mixing can occur between fluids. Gaskets are designed to be sealed by compression until metal to metal contact between plates is secured after tightening of the pack. All gaskets are similar except special end gaskets between end plates and frames.
NOZZLES	Each nozzle consists of a lap joint flanged connection in 150 or 300 psig rating, as required (except EC4 unit which has MPT connections as standard, with flanged connections as option).
BOLTS	Tightening bolts are SA-193-B7 zinc-plated carbon steel with fixed SA-194-2H carbon steel nut. Free nuts are heavy SA-194-2H carbon steel with heavy-duty carbon steel washer.
SHROUD (Models EC1 – EC8 only)	The plate pack is completely enclosed in a removable, painted, rust-protected carbon steel metal shroud designed to protect the plate pack from debris and damage.
FINISH	All exterior steel surfaces are sharp steel shot-blasted to SSPC-6-63, followed by one coat of two-part epoxy spray enamel baked at 250°F.

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Building	Planning				
Engineering	Public Works				
Fire Five	Traffic				