

POOL-EX

heat exchanger

*The Value
Solution for
Pools & Spas*



IN THE NTI TRADITION OF QUALITY...

POOL-EX Heat exchanger

The Superb Solution for Pools, Spas and Hot Tubs.

NTI's Pool-Ex Heat Exchanger meets every customer's "extra" heating needs using your home's NTI boiler!

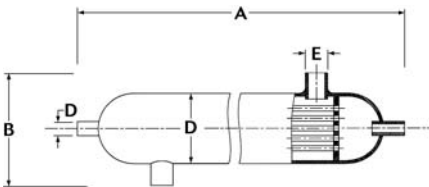
FLEXIBLE – Seven sizes are available with outputs from 35 to 500 MBH.

VERSATILE – Provides dependable, extremely economical heating for swimming pools, hot tubs and spas.

MADE TO LAST – All components constructed of top quality 316L stainless steel.

DIMENSIONS

TYPE	A	B	C	D	E
PX-45	11.89"	6.14"	3.15"	3/4" NPT	1.0"NPT
PX-70	15.83"	6.14"	3.15"	3/4" NPT	1.5"NPT
PX-130	25.67"	6.14"	3.15"	3/4" NPT	1.5"NPT
PX-180	15.19"	5.65"	4.00"	1"NPT	1.5"NPT
PX-250	20.15"	5.65"	4.00"	1"NPT	1.5"NPT
PX-300	25.43"	5.65"	4.00"	1"NPT	1.5"NPT
PX-500	43.54"	5.65"	4.00"	1"NPT	2.0"NPT



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POOL SIZING:

Step 1: Which type of heat up rate should you use?

The desired heat up rate for the summer months is 1°F/hr for extended use over the season. For periodic use, 2°F/hr is used.

Step 2: What is the capacity of your pool?

Rectangular pools $C = 7.5 \times (L) \times (W) \times (AD)$
Circular Pools $C = 5.9 \times (D)^2 \times (AD)$

Where: C = Capacity (gallons)
L = Length (feet)
W = Width (feet)
AD = Average Depth (feet)
(D)² = Diameter Squared (square feet)

Step 3: Select PX Heat Exchanger required. From the selection table, use the determined capacity and heat up rate to select the appropriate model.

Step 4: Check pool heat loss.

$$HL = 12.5 \times \text{surface area} \times [(\text{pool temp.}) - (\text{avg. air temp.})]$$

- The boiler output must be larger than the heat loss.
- Based on 80°F pool temperature.
- Taking into account a 15 mph wind.

STANDARD FEATURES

- Constructed of high quality 316L stainless steel for all components.
- All connections threaded NPT.
- Designed to ASME Sec.VIII, Div. I.
- Maximum allowable water pressure, 250 psig @ 406 √F.
- ISO 9002 registered, and CRN in some provinces.

THERMAL OUTPUT

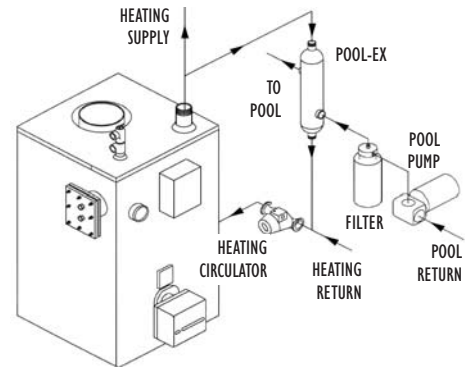
(Based on 140 degree Fahrenheit temperature differential.)

Model	Capacity MBH	HOT WATER		COLD WATER		Heat Transfer Surface Area sq.ft.
		Flow Gpm	ΔP psig	Flow Gpm	ΔP Psig	
PX-45	45	6.0	0.9	39.6	1.07	1.62
PX-70	70	6.6	1.09	45.0	1.33	2.64
PX-130	130	7.1	1.17	52.8	1.65	3.64
PX-180	180	7.9	0.4	55.5	1.1	4.7
PX-250	250	9.2	0.6	71.3	1.7	6.8
PX-300	300	10.5	0.9	79.2	2.5	9.0
PX-500	500	14.5	1.3	95.1	3.2	16.8

Pool Capacity (gal.)	1°F/hr		2°F/hr	
	Boiler output MBH	Model	Boiler output MBH	Model
2000	16.7	PX-45	33.4	PX-70
6000	50	PX-70	100	PX-180
10000	83	PX-130	167	PX-180
14000	117	PX-180	234	PX-250
18000	150	PX-180	300	PX-500
22000	184	PX-250	367	PX-500
26000	217	PX-250	434	PX-500
30000	250	PX-300	500	PX300*
34000	283	PX-300	567	PX300*
38000	317	PX-500	633	PX500*
40000	337	PX-500	667	PX500*
44000	367	PX-500	734	PX500*

*Two PX heat exchangers piped reverse return.

TYPICAL INSTALLATION



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