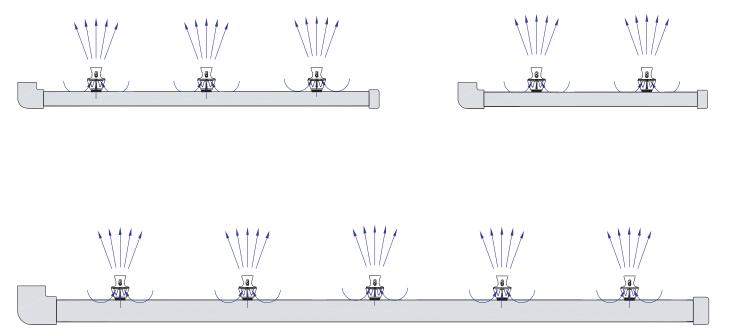
# **Series PES**





### Features:

- Available as systems with pumps, kits, or Penductors<sup>™</sup> sold separately
- · Deluxe model includes adjustable nozzles
- · Non-metallic contact with solution
- · Perfect for large tank usage
- Induces four extra gallons of flow for every gallon pumped through nozzle
- · Used to enhance circulation in a wide variety of recirculating process tanks.

Ideal for:

- Vigorous and constant agitation
- Dispersing and mixing chemicals more uniformly
- Eliminating hot spots/temperature stratification
- "Sweeping" debris or sludge toward a filter intake •
- · Keeping solids in suspension
- Mixing immiscible liquids ٠
- · Allowing for increased density causing faster plating rates
- · Eliminating aeration and gas pitting problems

- Creating more uniform plating distribution
- Permitting considerable improvements in plating throw and deposit in blind holes and recesses

### **Recommended Applications:**

- Eductors are currently installed in the following types of re-circulating process tanks:
  - Cleaners
  - · E-coat paints and paint strippers
  - · Chemicals, fertilizers, caustics, and permangenates
  - PCB plating sludge
  - Cooling towers
  - Slurries
  - · Plating tanks:
    - Chrominum
      - Phosphate

Etching

• Tin

- Gold
- Phosphate Bright Nickel

Anodizing

 Acid Copper Silver Alloys

Acid Zinc

Electroless Nickel/Copper



Innovative Fluid Management Systems 3/00

# **Series PES**

Speci	fication	IS	
Eductor System Model	Pipe Size & Connection	No. of Penductors™ per Manifold	Manifold Length (A)
PES-1 1/2-2	1 1/2"	2	19.5"
PES-1 1/2-3	1 1/2"	3	31.5"
PES-1 1/2-4	1 1/2"	4	43.5"
PES-1 1/2-5	1 1/2"	5	55.5"
PES-2-2	2"	2	19.5"
PES-2-3	2"	3	31.5"
PES-2-4	2"	4	43.5"
PES-2-5	2"	5	55.5"
PES-2-6	2"	6	68.5"

Config	gurations	•				
Possible C	Possible Configurations		lex	Duplex		
Eductor	Recommended	Manifold	Total	Manifold	Total	
System	Pump	Pressure	Flow	Pressure	Flow	
Model	Model	(PSI) • •	(GPM)	(PSI) • •	(GPM)	
PES-1 1/2-2	P-1/2	14	87	•	•	
PES-1 1/2-3	P-3/4	16	139	14	304	
PES-1 1/2-4	P-3/4	15	180	•	•	
PES-1 1/2-5	P-1	16	237	•	•	
PES-2-2	P-1 1/2	26	118	22	218	
PES-2-3	P-1 1/2	24	170	19	304	
PES-2-4	P-1 1/2	22	218	15	360	
PES-2-5	P-2	25	290	17	478	
PES-2-6	P-2	23	337	13	502	

Data based on ambient water, specific gravity 1.0 with 1" NPT Penductor™

Not recommended for duplex systems

• • More vigorous mixing occurs with higher manifold pressures

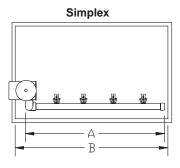
Manifold	Wid	ths		
Tank Width (D)	2'	3'	4'	5'
Manifold Width (C)	22"	34"	46"	58"

Nomenclature						
PES		1 1/2	-	4	х	4
Penductor™		Manifold		Tank		Tank Width
Systems		Size		Length		Duplex Sys
	1	1 1/2 = 1 1/2"		(B)		Only
		2 = 2"		2 = 2'		(D)
				3 = 3'		2 = 2'
				4 = 4'		3 = 3'
				5 = 5'		4 = 4'
				• 6 = 6'		5 = 5'
• = 2" Manifolds Only			6 = 6'			

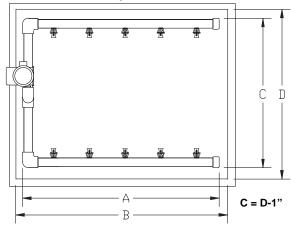
Your Stocking Distributor:

Chemical Distributors, Inc. - Buffalo, NY - 800.777.2436 - Fax 716.856.7115





Duplex



**Introduction:** Eductors utilize a unique venturi design which enables smaller pumps to circulate larger volumes of tank solution. The eductor can circulate four to five gallons of solution for each gallon pumped.

#### Kits consist of:

- Simplex: Penductors<sup>™</sup>, manifold, hose barb, hose clamp, and 10' of PVC hose.
- Duplex: Penductors<sup>™</sup>, 2 manifolds, 2 threaded nipples, threaded tee, hose barb, hose clamp, and 10' of PVC hose.
- NOTE: 1)For proper operation manifold pressure should be at least 10 psi, which produces 37 gpm per Penductor<sup>™</sup>.
  - 2)Manifold should be secured to bottom or side of tank to prevent shaking, rattling, or breaking of rigid plumbing accessories.

Consult factory for pricing and availablity of custom units.

