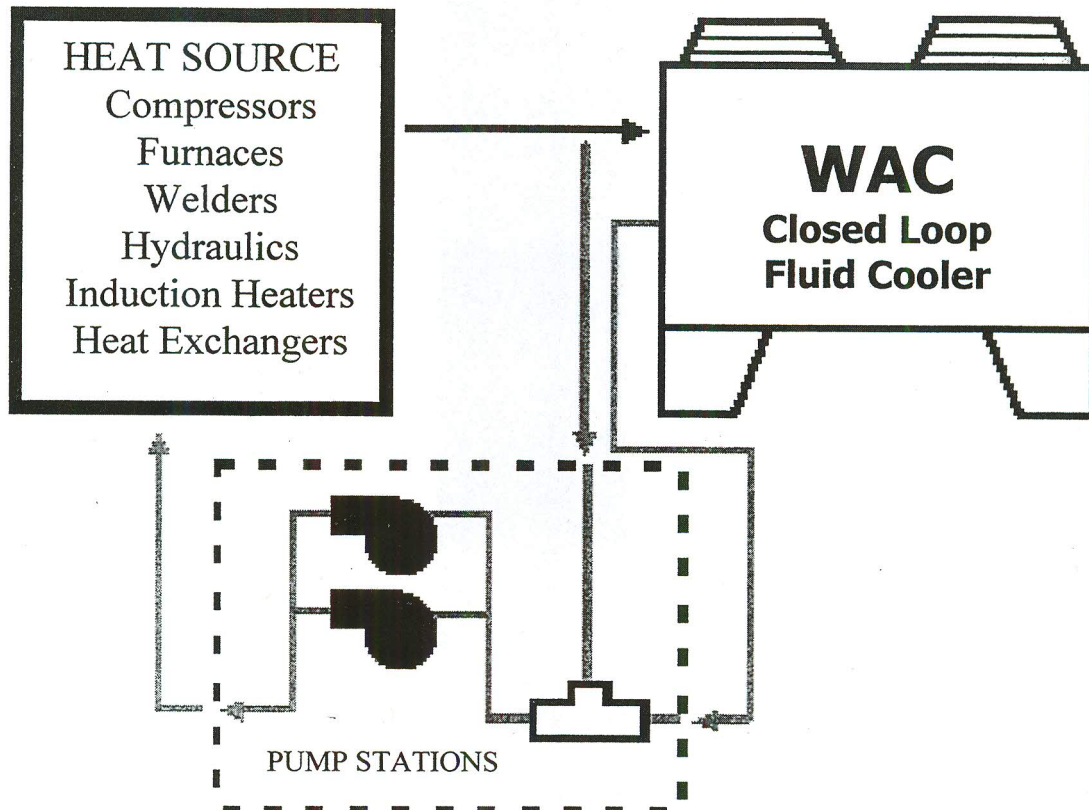
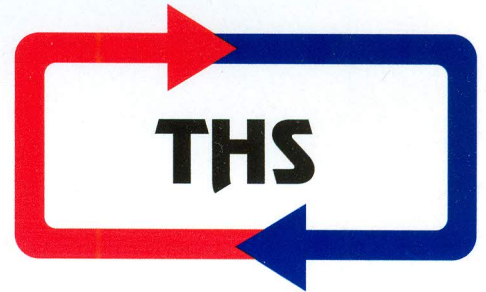


# "WAC"

Water - to - Air  
Closed Loop  
Cooling Systems



## Product Features:

### Casing:

- Heavy Gauge Galvanized Steel
- Sectionalized Fan Chambers
- 10 Gauge Structural Members

### Fans:

- Aluminum Fan Blade(30" Standard)
- Dynamically Balanced Vibration Free
- 3-3/4" Deep Spun Fan Venturi

### Coils:

- Mechanically Bonded Aluminum Fin Copper Tube
- Factory Leak Tested at 400 PSIG

### Fan Motors:

- 1 HP Standard. ODP w/Weather Shields.
- Automatic Reset with Internal Overload Protection.
- NEMA 3(Weather Resistant), Optional NEMA 4 & 7, Fan Fusing

**THS**  
Fluid Coolers

Technical Heat Transfer Services, Inc.  
P.O. Box 801  
Amherst, NY 14226  
Phone: 716-743-1855  
Fax: 716-743-0124

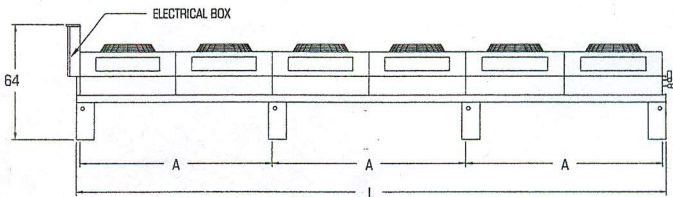
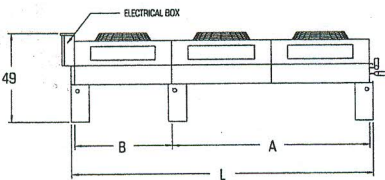
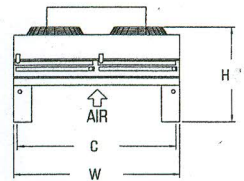
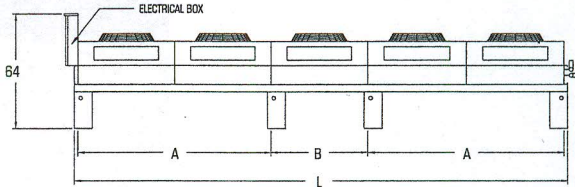
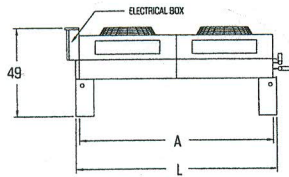
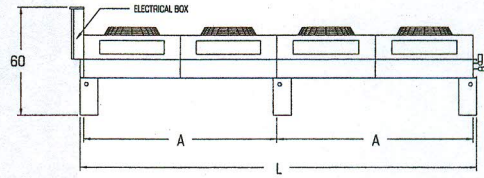
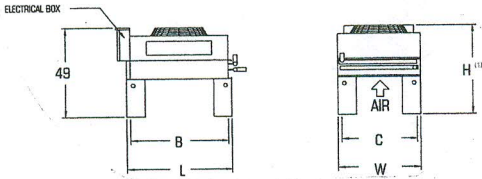
# WAC

Water to Air Fluid Coolers

# THIS

Dimensional Data								
	L	W	H	A	B	C	Inlet	Outlet
<b>ONE Fan Wide</b>								
WAC-11	58	45-1/4	49	-	54	41-1/4	1-3/8	1-3/8
WAC-12	112	45-1/4	49	108	-	41-1/4	1-5/8	1-5/8
WAC-13	166	45-1/4	49	108	54	41-1/4	2-1/8	2-1/8
WAC-14	220	45-1/4	49	108	-	41-1/4	2-1/8	2-1/8
WAC-15	274	45-1/4	53	108	54	41-1/4	2-1/8	2-1/8
WAC-16	328	45-1/4	53	108	-	41-1/4	2-5/8	2-5/8

Dimensional Data								
	L	W	H	A	B	C	Inlet	Outlet
<b>TWO Fans Wide</b>								
WAC-22	112	90-1/2	49	108	-	86-1/2	(2) 1-5/8	(2) 1-5/8
WAC-23	166	90-1/2	49	108	54	86-1/2	(2) 2-1/8	(2) 2-1/8
WAC-24	220	90-1/2	49	108	-	86-1/2	(2) 2-1/8	(2) 2-1/8
WAC-25	274	90-1/2	53	108	54	86-1/2	(2) 2-1/8	(2) 2-1/8
WAC-26	328	90-1/2	53	108	-	86-1/2	(2) 2-5/8	(2) 2-5/8



Fluid Cooler Nomenclature					
WAC	1	1	3	08	M
Fluid Cooler	Fans Wide	Fans in Line	Rows Deep	FINS/INCH	VOLTAGE
	1	1	2	08	A-230/1/60
	2	2	3	10	K-208/230/3/60
		3	4	12	M-460/3/60
		4	5	14	P-575/3/60
		5	6	16	U-380/3/60
		6			

# FLUID COOLER DATA SHEET

Technical Heat Transfer Services, Inc.

**Fluid:** \_\_\_\_\_  
**Flow Rate:** \_\_\_\_\_ **GPM**  
**Heat Load:** \_\_\_\_\_ **BTU/HR, HP, KW**  
**Outlet Temp. Required:** \_\_\_\_\_ **(F)**  
**Amb. Temp.:** \_\_\_\_\_ **(F)**

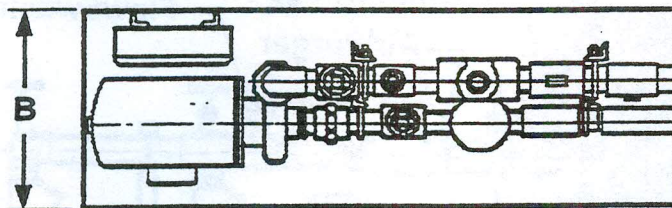
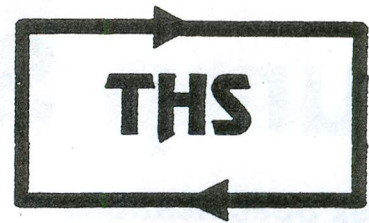
**OR**

**Fluid:** \_\_\_\_\_  
**Flow Rate:** \_\_\_\_\_ **GPM**  
**Inlet Temp.:** \_\_\_\_\_ **(F)**  
**Outlet Temp. Required:** \_\_\_\_\_ **(F)**  
**Ambient Temp.:** \_\_\_\_\_ **(F)**

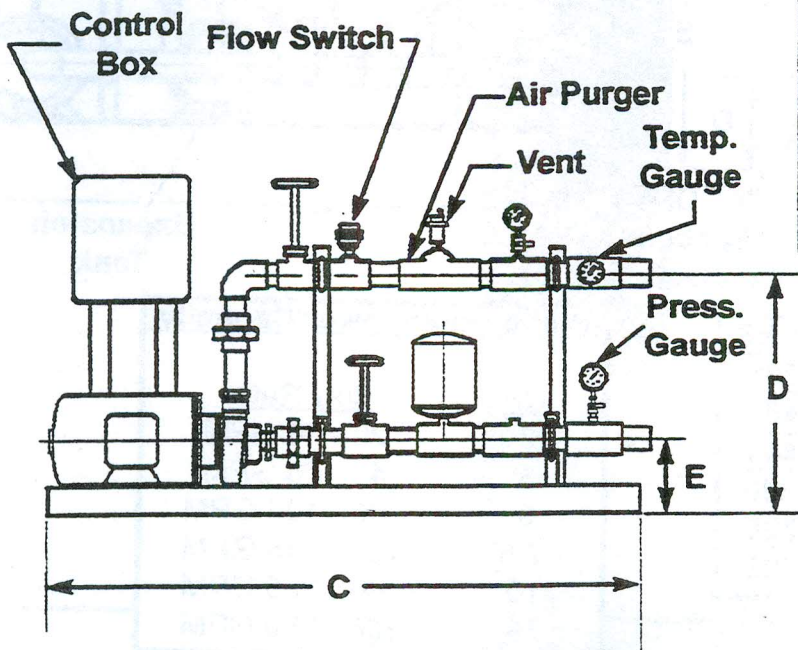


# Pump Station

Simplex Specifications



"A" ODS  
Discharge Connection  
"A" ODS  
Suction Connection



HP	A	B	C	D	E	LBS
2	2"	15"	52"	30"	30"	215
3	2"	15"	52"	30"	30"	295
5	2"	15"	52"	30"	30"	330
7-1/2	3"	18"	58"	30"	31"	455
10	3"	18"	58"	30"	31"	495
15	3"	18"	58"	30"	31"	525

## Pump HorsePower/Capacity

HP	Flow Rate
2	20 - 40 GPM
3	41 - 65 GPM
5	66 - 105 GPM
7.5	106 - 145 GPM
10	146 - 205 GPM
15	206 - 260 GPM

## GENERAL SPECIFICATION

### PUMPS:

Close coupled centrifugal pumps designed with back pull out configuration eliminating the need to break piping while servicing pumps.

### PIPING:

Copper sweat interconnecting piping used between components. Two and three inch diameter piping used dependent upon flow rate and friction losses.

### CONTROL PANEL:

Motor starter provided for pump fused. Control panel provided is weather resistant (NEMA 3) with optional NEMA 4 offered where required.

### ACCESSORIES:

Accessory kits provided either mounted directly on station, or shipped loose for field installation. Accessory kits include a three way thermostatic mix valve, expansion tank, air purger, and air vent.

### VALVING AND GAUGES:

Isolation valves are provided for each pump to provide ease of maintenance. Preventative backflow check valves are provided to prevent backflow in the system while one pump is in operation. Inlet and discharge pressure gauges are provided along with a discharge temperature gauge.

### BASE:

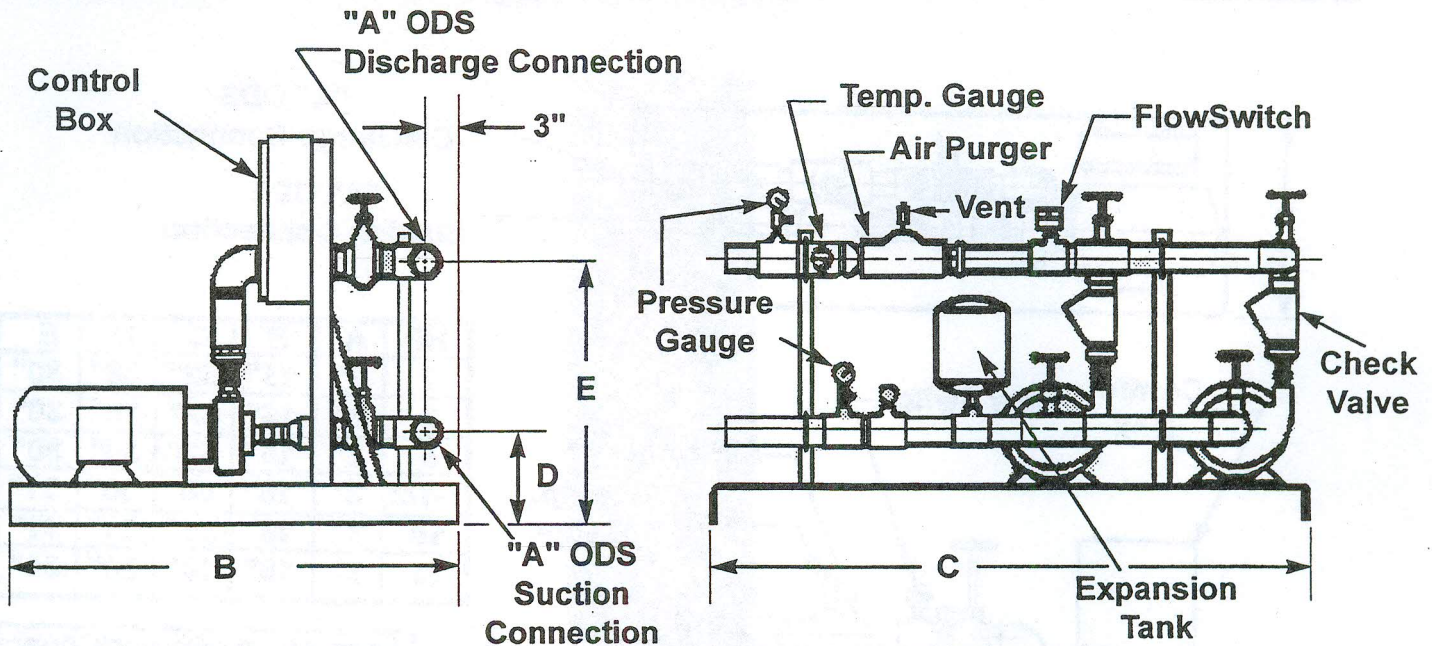
Common steel baseplate provided with heavy gauge plate for strength and rigidity.



# Pump Station

THS

## Duplex Specifications



HP	A	B	C	D	E	LBS
2	2"	37"	54"	9"	30"	395
3	2"	37"	54"	9"	30"	405
5	2"	37"	54"	9"	30"	445
7-1/2	2"	46"	64"	9"	31"	580
10	2"	46"	64"	9"	31"	725
15	2"	46"	64"	9"	31"	795

### Pump HorsePower/Capacity

HP	Flow Rate
2	20 - 40 GPM
3	41 - 65 GPM
5	66 - 105 GPM
7.5	106 - 145 GPM
10	146 - 205 GPM
15	206 - 260 GPM

## GENERAL SPECIFICATION

### PUMPS:

Close coupled centrifugal pumps designed with back pull out configuration eliminating the need to break piping while servicing pumps.

### PIPING:

Copper sweat interconnecting piping used between components. Two and three inch diameter piping used dependent upon flow rate and friction losses.

### CONTROL PANEL:

Motor starter provided for each pump fused. Automatic pump switchover is provided with the use of a flow switch detecting loss of flow, causing the pump in operation to change over to the standby unit. Control panel provided is weather resistant (NEMA 3) with optional NEMA 4 offered where required.

### ACCESSORIES:

Accessory kits provided either mounted directly on station, or shipped loose for field installation. Accessory kits include a three way thermostatic mix valve, expansion tank, air purger, and air vent.

### VALVING AND GAUGES:

Isolation valves are provided for each pump to provide ease of maintenance. Preventative backflow check valves are provided to prevent backflow in the system while one pump is in operation. Inlet and discharge pressure gauges are provided along with a discharge temperature gauge.

### BASE:

Common steel baseplate provided with heavy gauge plate for strength and rigidity.