

1. JOB INFORMATION

Model #: _____ Job Name: _____ Loop: Open / Closed
 Serial #: _____ Install. Date: _____ Desuperheater: Y / N

2. FLOW RATE IN GPM / L/s

	SOURCE COAX		LOAD COAX (WATER TO WATER)	
	COOLING	HEATING	COOLING	HEATING
WATER IN Pressure:	a. _____ PSI/kPa	a. _____ PSI/kPa	a. _____ PSI/kPa	a. _____ PSI/kPa
WATER OUT Pressure:	b. _____ PSI/kPa	b. _____ PSI/kPa	b. _____ PSI/kPa	b. _____ PSI/kPa
Pressure Drop = a - b	c. _____ PSI/kPa	c. _____ PSI/kPa	c. _____ PSI/kPa	c. _____ PSI/kPa
Look up flow rate in table:	d. _____ GPM / L/s	d. _____ GPM / L/s	d. _____ GPM / L/s	d. _____ GPM / L/s

3. TEMPERATURE RISE / DROP ACROSS COAXIAL HEAT EXCHANGER*

	COOLING	HEATING
WATER IN Temperature:	e. _____ °F/°C	e. _____ °F/°C
WATER OUT Temperature:	f. _____ °F/°C	f. _____ °F/°C
Temperature Difference:	g. _____ °F/°C	g. _____ °F/°C

* Steps 3 - 9 should be conducted with the desuperheater disconnected.

4. TEMPERATURE RISE / DROP ACROSS AIR COIL

	COOLING	HEATING
SUPPLY AIR Temperature:	h. _____ °F/°C	h. _____ °F/°C
RETURN AIR Temperature:	i. _____ °F/°C	i. _____ °F/°C
Temperature Difference:	j. _____ °F/°C	j. _____ °F/°C

LOAD COAX (WATER TO WATER)

	COOLING	HEATING
LWT:	h. _____ °F/°C	h. _____ °F/°C
EWT:	i. _____ °F/°C	i. _____ °F/°C
	j. _____ °F/°C	j. _____ °F/°C

5. HEAT OF REJECTION (HR) / HEAT OF EXTRACTION (HE)

Brine Factor*: k. _____

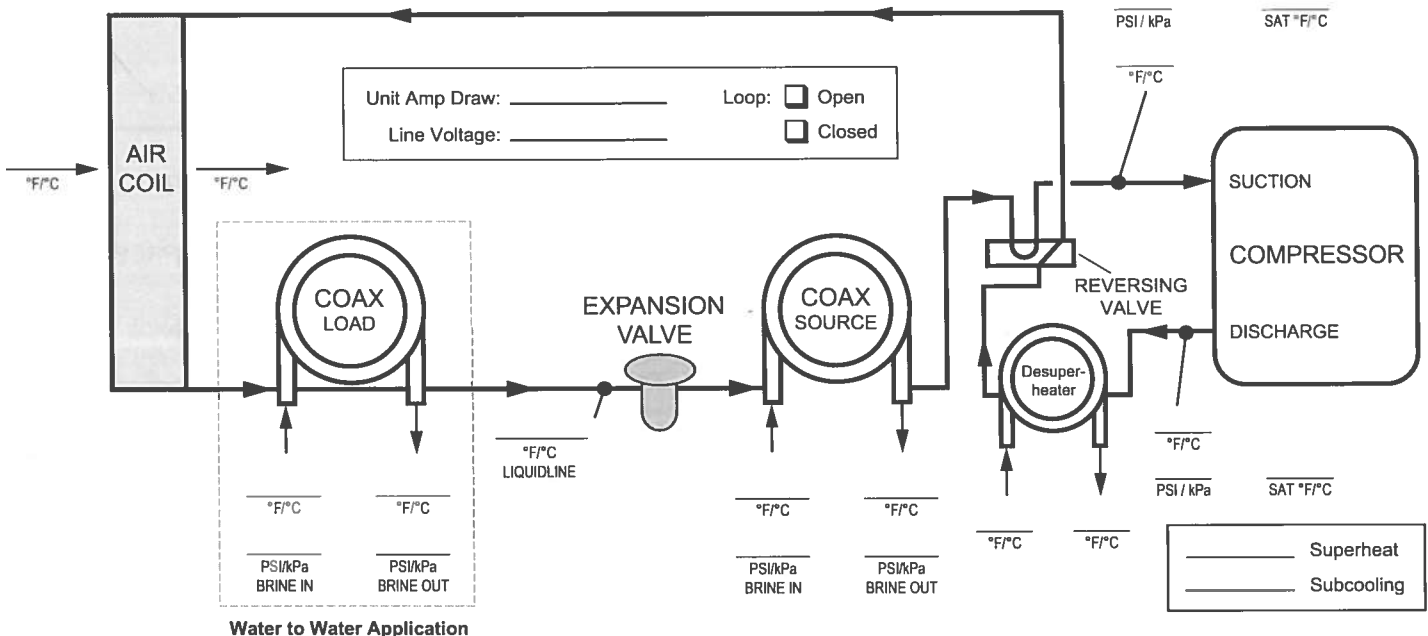
* Use 500 (4.2) for pure water, 485 (4.1) for methanol or Environol™. (This constant is derived by multiplying the weight of one gallon of water (8.34) times the minutes in one hour (60) times the specific heat of the fluid).

COOLING (HR) HEATING (HE)

HR / HE = d x g x k l. _____ (BTU / kW) / HR l. _____ (BTU / kW) / HR

Water has a specific heat of 1.0

HEATING CYCLE ANALYSIS



Heat of Extraction/Rejection: $BTUs = GPM \times 500 \text{ (485 for antifreeze)} \times \Delta T$
 $KWs = L/s \times 4.2 \text{ (4.1 for antifreeze)} \times \Delta T$

Note: DO NOT hook up pressure gauges unless there appears to be a performance problem.