

PLANT COOLING WATER SUPPLY:

- 1. REQUIREMENTS FOR COOLING CABINET AND SUPPRESSION TUNNEL:
- 1.1. 4-5 GPM @ 85°F (15-19 LPM @ 29°C)
- 1.2. PIPE CONNECTIONS (SUPPLY AND RETURN) ARE 1-1/4" FEMALE NPT.
- 2. REQUIREMENTS FOR ONE TRANSMITTER:
- 2.1. NOTE WATER FLOW RATE AND COOLING LOAD MUST BE MULTIPLIED BY THE TOTAL NUMBER OF TRANSMITTERS TO GET THE TOTAL COOLING LOAD AND TOTAL REQUIRED WATER FLOW RATE.
- 2.2. STANDBY FLOW RATE IS 1/2 OF FLOW RATE LISTED IN THE TABLE
- 2.3. CUSTOMER TO SUPPLY CONTROL VALVE FOR COOLING WATER SUPPLY AND PENTA WILL SUPPLY A SIGNAL FROM THIS TEMPERING SYSTEM TO THE CONTROL VALVE TO INDICATE WHEN SYSTEM IS OPERATING OR IN STANDBY. SEE DRAWING xx-xxx.
- 2.4. PIPE CONNECTIONS PER TRANSMITTTER CABINET
- 2.4.1. SUPPLY 1-1/4" FEMALE NPT
- 2.4.2. RETURN 1-1/4" FEMALE NPT

WATER COOLING REQUIREMENTS FOR EACH TRANSMITTER								
INLET WATER TEMP °F (°C)	GPM (LPM) @ 75kW	COOLING LOAD @ 75kW BTU/HR (kCAL/HR)						
50 (10)	5 (19)	105,000 (26,500)						
60 (15)	6 (23)	105,000 (26,500)						
70 (20)	8 (30)	105,000 (26,500)						
80 (25)	14 (53)	105,000 (26,500)						

COMPRESSED AIR:

TOTAL SUPPLY - 2 SCFM @ 5 PSI

- CAVITY ARC DETECTORS (2)
- CAVITY BELT FULL SENSOR SENDER (1) CAVITY BELT FULL SENSOR RECEIVER (1)
- TRANSMITTER CABINET INTERNAL AIR:

TRANSMITTERS ARE WATER COOLED AND MUST BE STORED AND OPERATED AT OR ABOVE 50°F (10°C).
MAXIMUM AIR TEMPERATURES SHOULD NOT EXCEED 110°F (43°C).

REMOTE COMMUNICATION:

• (1) TELEPHONE COMMUNICATION LINE REQUIRED BY PLANT TO INTERFACE WITH MAIN CONTROL PANEL (MCP-1). THIS IS FOR REMOTE COMMUNICATION FOR PLC INTERFACE.

POWER/CONTROLS:

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CUSTOMER SUPPLIED POWER FEEDS:

- TRANSMITTER MT-1 415VAC, 3Ø, 50HZ, 200A
 TRANSMITTER MT-2 415VAC, 3Ø, 50HZ, 200A
- CONTROL PANEL MCP-1 415VAC, 3Ø, 50HZ, 15A.
- FACTORY SUPPLIED CUSTOMER CONNECTED CONTROL CABLES:
- TRANSMITER MT-1 TO CONTROL PANEL MCP-1
- TRANSMITTER MITT TO CONTROL PANEL MCPT
- TRANSMIITER MT-2 TO CONTROL PANEL MCP-1
 JUNCTION BOX JB-1 TO CONTROL PANEL MCP-1
- JUNCTION BOX JB-2 TO CONTROL PANEL MCP-1

FACTORY SUPPLIED CUSTOMER CONNECTED ETHERNET CABLES:

- TRANSMIITER MT-1 TO CONTROL PANEL MCP-1
- TRANSMIITER MT-2 TO CONTROL PANEL MCP-1

FACTORY SUPPLIED CUSTOMER CONNECTED POWER CABLES:

• CONVEYOR MOTOR TO CONTROL PANEL MCP-1



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MACFOODS
TEMPERING SYSTEM
GENERAL ARRANGEMENT
3D VIEW & NOTES

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