

- LEGEND:**
- CUSTOMER PROCESS PIPING
 - CUSTOMER AIR PIPING
 - N.O. NORMALLY OPEN
 - N.C. NORMALLY CLOSED
 - FLANGED CONNECTION
 - ▷ REDUCER
 - ⊗ AIR FILTER
 - ⊗ GATE VALVE- FLANGED
 - ⊗ BALL VALVE- SCREWED
 - ⊗ CHECK VALVE- SCREWED
 - ⊗ FLEXIBLE CONNECTION
 - ⊗ CUSTOMER SUPPLIED VALVE

NOTE: DRAWING DEPICTS SYSTEM IN NORMAL RUN POSITION.


MANUAL VALVE POSITION CHART				
VALVE NO.	VALVE FUNCTION	OPERATING POSITION		
		RUN	SCOUR	DRAIN
V1	PRIMARY AIR SCOUR	CLOSED	OPEN	OPEN
V2	SECONDARY AIR SCOUR	CLOSED	OPEN	OPEN
V3	WATER SAMPLE	CLOSED		

BLOWER & PUMP OPERATION CHART				
MOTOR CALLOUT	HP	OPERATING POSITION		
		RUN	SCOUR	DRAIN
BLOWER	1/2	ON	OFF	OFF
PUMP	1/3	ON	OFF	ON

NOTES:

- CRITICAL HEIGHTS:**
- CENTERLINE OF SOIL LINE TRAP INLET TO BE NOT LESS THAN 12 INCHES HIGHER THAN CENTERLINE OF MEDIA TANK INLET FLANGE.
 - BASE OF WET WELL TO BE LEVEL OR LOWER THAN BASE OF MEDIA TANK.
 - CHLORINATOR INLET ANGLE SHOULD BE 1/4" HIGHER THAN THE OUTLET ANGLE TO ACHIEVE SLOPE ANGLE.
- FOUNDATIONS:**
- COMPONENTS MAY BE INSTALLED EITHER FORE AND AFT OR ATHWARTSHIPS.
 - SECURE TANKS' BASE STANDS ON A FLAT DECK OR BUILT UP FLAT SURFACE.
- GRAVITY FLOW PIPING:**
- COMPONENTS MAY BE INSTALLED EITHER FORE AND AFT OR ATHWARTSHIPS.
 - SECURE TANKS' BASE STANDS ON A FLAT DECK OR BUILT UP FLAT SURFACE.
- MEDIA TANK VENT PIPING**
- DO NOT COMBINE MEDIA TANK VENT WITH ANY OTHER VENT.
 - VENT TO TERMINATE NOT LESS THAN 10 FEET ABOVE WEATHER DECK, FROM ANY SOURCE OF IGNITION AND FROM ANY VENTILATION AIR INLET.
 - VENT TO TERMINATE HIGH RATHER THAN LOW, SINCE VENTED AIR IS WARMER THAN SURROUNDING AIR AND WILL RISE.
 - HORIZONTAL OFFSETS IN MEDIA TANK VENT MUST BE SLOPED NOT LESS THAN 1/2 INCH PER 12 INCHES SO THAT CONDENSATE WILL DRAIN TO MEDIA TANK.
 - FLAME SCREEN IS NOT RECOMMENDED. IT WILL PLUG WITH LINT AND REQUIRE FREQUENT CLEANING. IF A FLAME SCREEN MUST BE USED, SCREEN TO BE TWO PIPE SIZES LARGER THAN VENT PIPE.

- EMERGENCY BYPASS DISCHARGE:**
- AN EMERGENCY BYPASS DISCHARGE IS REQUIRED TO PROVIDE THE USE OF SANITARY FACILITIES IN CASE OF EQUIPMENT MALFUNCTION.
 - MONITOR SEWAGE INLET AND EMERGENCY BYPASS GATE VALVES WITH STEMS IN AN UPRIGHT VERTICAL POSITION.
- BLOWER DISCHARGE PIPING:**
- THE FIRST SIX FEET OF PIPE TO BE METAL. AT THE HIGHEST POINT, WELL ABOVE MEDIA TANKTOP, DRILL 3/64" ANTI-SIPHON HOLE.
- MAINTENANCE AND CLEARANCE REQUIREMENTS:**
- ALLOW AT LEAST 28 INCHES CLEARANCE ABOVE MEDIA TANK COVER TO VENT SPOOL FLANGED CONNECTION TO PERMIT REMOVAL OF COVER FOR INTERNAL REPAIR.
 - ALLOW AT LEAST 12 INCHES CLEARANCE ABOVE CHLORINE TABLET REFILL TUBES FOR TUBE REMOVAL.
- GENERAL PIPING REQUIREMENTS:**
- CONNECTING PIPING AND INSTALLATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY BODIES.
 - FLEX OR HOSE CONNECTIONS RECOMMENDED FOR HOOK UP TO MEDIA AND WET WELL TANKS TO RELIEVE STRESS ON TANKS.
 - RECOMMENDED PIPING MATERIAL IS SCHEDULE 80 PVC.

REV	DESCRIPTION	BY	DATE
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SYSTEM		FAST SEWAGE TREATMENT	
CUSTOMER			
TITLE			
SYSTEM PIPING DIAGRAM & INSTALLATION DATA			
SCALE	DRAWN	CHECKED	APPROVED
NONE	CEG		
SIZE	PREV. ASSY.	PLOT SCALE	DATE
D		1:1	8/08/05
CONTRACT NO.	MODEL NO.	DRAWING NO.	SHEET NO.
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