

BEDDING SYSTEM - SOILED STAGE

SYSTEM OPERATION:

THE SYSTEM BEGINS BY PICKING-UP THE SOILED ANIMAL BEDDING FROM THE CAGES WITH OUR PNEUMATIC ARM PICK-UP STATION WITH A 304 SS NOZZLE OR BY EMPTYING THE WASTE INTO OUR RECEIVING WASTE FUNNEL LOCATED IN THE AREA WHERE THE SOILED CAGES ARE WASHED. THE CENTRAL VACUUM UNIT PNEUMATICALLY DRAWS THE SOILED BEDDING MATERIALS FROM THE WASTE FUNNEL INTO THE WASTED CONTAINER UNIT VIA THE TRANSPORT PIPING SYSTEM. NONE CLOGGING IS ACHIEVED BY FLUIDIZING THE PIPING SYSTEM THROUGH OUR PNEUMATIC CONTROLLED VALVE SYSTEM WHICH KEEPS THE PRODUCT FROM SETTLING INTO THE CONVEYING PIPE.

1) PNEUMATIC FLUIDIZING VALVE WHICH HELPS PREVENT CLOGGING.

2) SWING ARM PICK-UP STATION: 304 STAINLESS STEEL WITH A FLEXIBLE VACUUM HOSE COUNTER BALANCED TO ALLOW OPERATORS TO EASILY PICK-UP SOILED BEDDING FROM THE CAGES USING OUR STAINLESS STEEL BULK PICK-UP NOZZLE.

ALTERNATE:

WASTE FUNNEL (32" DIA x 37" H): STAINLESS STEEL CONSTRUCTION WITH DRAIN TAP TO FACILITATE RINSING, EJECTOR AND AUTOMATIC SHUTTER VALVE. INCLUDES OPERATOR'S PANEL WITH ON/OFF SWITCH AND INDICATOR LIGHTS FOR "SYSTEM RUN", "CHECK DUMPSTER" AND "SYSTEM FAULT".

3) HOUSE KEEPING DROP: DROP CAN BE PROVIDED PRIOR TO THE ARM OR ATTACHED TO THE WASTE FUNNEL WHICH ALLOWS FOR CLEANING OF THE OPERATOR AREA. INCLUDED WITH THE DROP IS OUR INLET VALVE AND A SHOP CLEANING PACKAGE WHICH INCLUDES A 25' HOSE, WAND, FLOOR TOOL CREVICE TOOL.

4) PRE-SEPARATOR: 304 SS WHERE SOILED WASTE IS SEPARATED AND DISCHARGED THROUGH A ROTARY AIR LOCK INTO THE WASTE SACK OR DUMPSTER.

ALTERNATE:

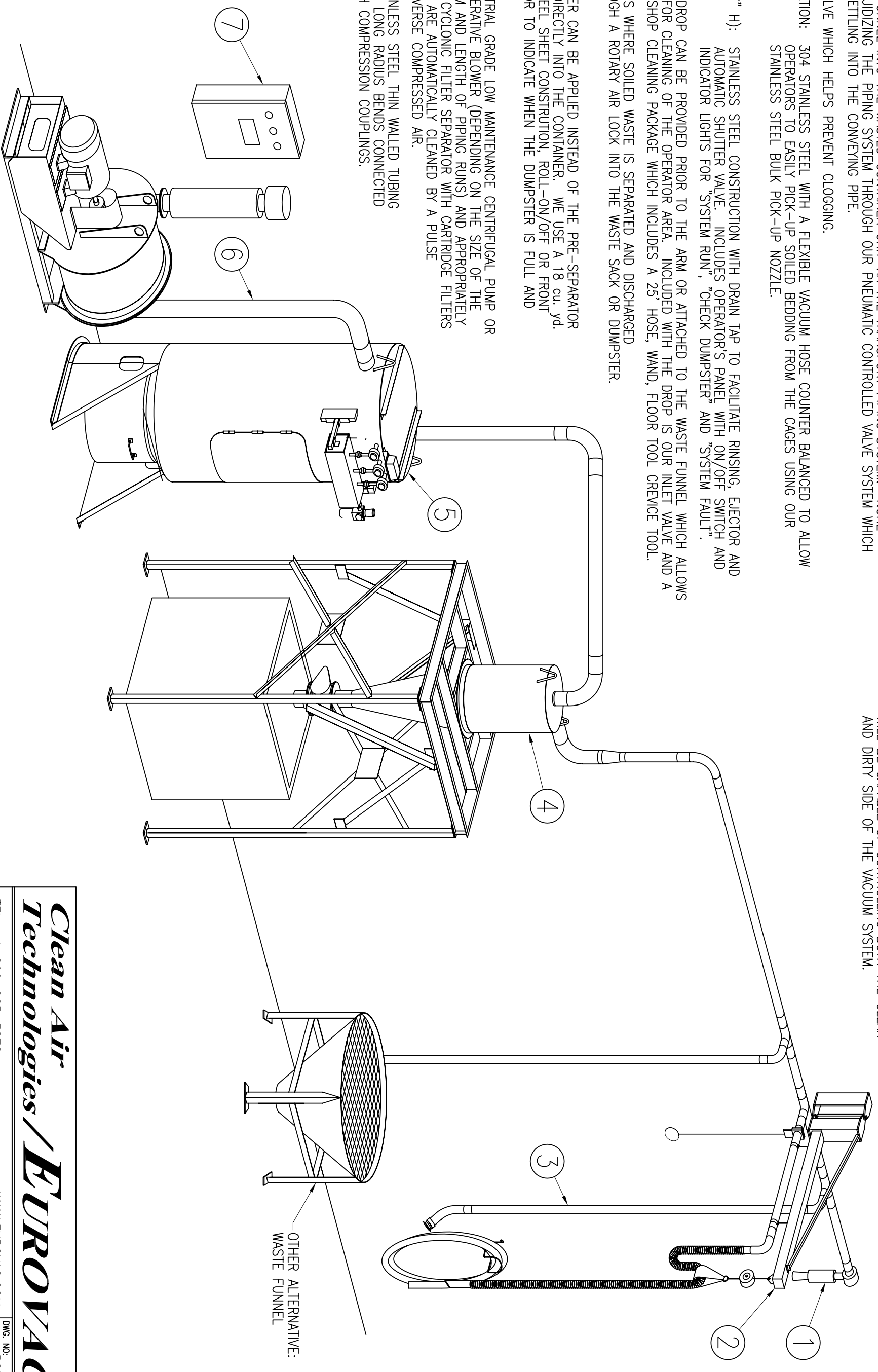
HIGH VOLUME WASTE CONTAINER CAN BE APPLIED INSTEAD OF THE PRE-SEPARATOR WHERE WASTE IS CONVEYED DIRECTLY INTO THE CONTAINER. WE USE A 18 cu. yd. CONTAINER FABRICATED OF STEEL SHEET CONSTRUCTION, ROLL-ON/OFF OR FRONT LOADING STYLE WITH A SENSOR TO INDICATE WHEN THE DUMPSTER IS FULL AND REQUIRES EMPTYING.

5) VACUUM SYSTEM: INDUSTRIAL GRADE LOW MAINTENANCE CENTRIFUGAL PUMP OR REGENERATIVE BLOWER (DEPENDING ON THE SIZE OF THE SYSTEM AND LENGTH OF PIPING RUNS) AND APPROPRIATELY SIZED CYCLONIC FILTER SEPARATOR WITH CARTRIDGE FILTERS WHICH ARE AUTOMATICALLY CLEANED BY A PULSE OF REVERSE COMPRESSED AIR.

6) TRANSPORT PIPING: STAINLESS STEEL THIN WALLED TUBING AND LONG RADIUS BENDS CONNECTED WITH COMPRESSION COUPLINGS.

7) CONTROLS:

DEPENDING ON THE BUDGET A FULL RANGE OF CONTROL OPTIONS IS AVAILABLE INCLUDING PLC CONTROL PANELS WHICH CONTROL ALL PROCESS OPERATIONS, FUNCTIONS AND INTERFACES. AS WELL THE PLC CONTROL PANELS CAN INCLUDE BUILT-IN DIAGNOSTIC AND MAINTENANCE FUNCTIONS. THE CONTROLLER WILL BE CAPABLE OF CONTROLLING BOTH THE CLEAN AND DIRTY SIDE OF THE VACUUM SYSTEM.



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