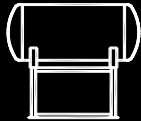


Standard  
Deaerating  
Units

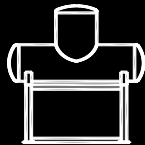


# KANSAS CITY DEAERATOR



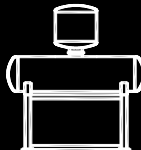
## HS Series

Up to 350,000 #/hr  
Low Headroom



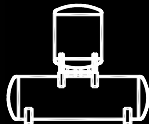
## TC Series

Up to 250,000 #/hr  
Tray Unit  
Meets HEI



## BDS Series

Up to 250,000 #/hr  
Tray Unit  
Meets HEI



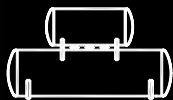
## DS Series

Up to 800,000 #/hr  
Tray Unit  
Meets HEI



## VS & VT Series

Up to 800,000 #/hr  
Tray Unit  
Minimal Plan Area  
Meets HEI



## HH Series

Up to 16,000,000 #/hr  
Tray Unit-Meets HEI

## PKG-Pump Package

### Principles of Operation

Kansas City Deaerator's Pump Package System can be provided with any model deaerator. Standard Pump Packages are available with optional special design packages and available in any configuration. Standard packages include vertical centrifugal pumps.

### FEATURES

- Standard flows up to 331 GPM, 165,000 #/HR per pump
- Standard pump discharge pressure up to 750 feet
- Continuous operation pumps with recirculation lines
- Control panel with pump start-stop station
- Optional:
  - a. Triplex Pumps
  - b. Pump Starters

### Pump Package



**Performance –**

Fill in and send to Kansas City Deaerator or request a detailed specification sheet.  
Add additional thermal cases as needed.

PROJECT	
DEAERATOR	
Quantity	
Capacity	
DESIGN	
ASME SEC. VIII, DIV.1	
Design Pressure	
Full Vacuum Design	
Design Temperature	
Corrosion Allowance	

OPERATING CONDITIONS	
Operating Pressure	
FEEDWATER INLET	
% Makeup	
MU Temperature	
%Condensate	
Cond. Temperature	
STORAGE CAPACITY	
Minutes at Overflow	
Gallon at Overflow	

SPECIAL REQUIREMENTS	
Post Weld Heat Treatment	
Minimum Radiography	
WFMP Testing	
HEI	
BF PUMPS	
Quantity	
Capacity	
TDH	

**Accessories –**

Select package or individual items

ITEM	DESCRIPTION	ACC PKG	PUMP PKG	√ SELECT
<b>A</b>	<b>WATER INLET</b>			
A1	Inlet Valve			
	Mechanical	STD	STD	
	Pneumatic	OPT	OPT	
A2	Level Controller	STD	STD	
	Level Transmitter	OPT	OPT	
A3	Inlet Valve Bypass Valves	OPT	STD	
A4	Inlet Valve Bypass Piping	OPT	STD	
A5	Inlet Valve Bypass Strainer	OPT	STD	
<b>B</b>	<b>STEAM CONTROL</b>			
B1	Steam PRV		OPT	
	Self Contained	OPT	OPT	
	Pneumatic	OPT	OPT	
B2	Steam PRV Controller	OPT	OPT	
B3	Steam PRV Bypass Valves	OPT	OPT	
B4	Steam PRV Bypass Piping	OPT	OPT	
B5	Steam PRV Bypass Strainer	OPT	OPT	
<b>C</b>	<b>RELIEF VALVE</b>			
C1	Relief Valve			
	Sentinel	STD	STD	
	Full	OPT	OPT	
C2	Relief Valve Exhaust Piping	OPT	OPT	
<b>D</b>	<b>THERMOMETER</b>			
D1	(2) 5" Thermometer w/ss wells	STD	STD	
<b>E</b>	<b>PRESSURE GUAGE</b>			
E1	(1) 4 1/2" Pressure Gauge	STD	STD	
E2	Siphon & Cock	STD	STD	
E3	Pressure Transmitter	OPT	OPT	
<b>F</b>	<b>VENT</b>			
F1	Vent Valve	STD	STD	
F2	Vent Orifice w/Flange	OPT	OPT	
F3	Vent Bypass Valves	OPT	OPT	
F4	Vent Bypass Piping	OPT	OPT	
<b>H</b>	<b>VACUUM BREAKER</b>			
H1	Vacuum Breaker	STD	STD	

ITEM	DESCRIPTION	ACC PKG	PUMP PKG	√ SELECT
<b>M</b>	<b>BFP RECIRC</b>			
M1	BFP Recirc Shutoff	NA	OPT	
M2	BFP Recirc Check	NA	OPT	
M3	BFP Recirc Orifice	NA	OPT	
	BFP Recirc ARC Valve	NA	OPT	
M4	BFP Recirc Piping	NA	OPT	
M5	BFP Recirc Pressure Gauge	NA	OPT	
<b>N</b>	<b>BFP SUCTION</b>			
N1	BF Pumps			
	(2) 100% Capacity	NA	STD	
	(3) 50% Capacity	NA	OPT	
	Motors			
	ODP	NA	STD	
	TEFC	NA	OPT	
N2	BFP Suction Isolation Valve	NA	STD	
N3	BFP Suction Strainer	NA	STD	
N4	BFP Suction Piping	NA	STD	
N5	BFP Suction Expansion Joint	NA	STD	
	BFP Discharge Pressure Gauge	NA	OPT	
N6	BFP Discharge Check Valve	NA	OPT	
N8	BFP Discharge Isolation Valve	NA	OPT	
<b>O</b>	<b>CHEMICAL FEED</b>			
O	Chemical Feed Quill	OPT	OPT	
<b>Q</b>	<b>OVERFLOW</b>			
Q1	Overflow Valve/Trap	STD	STD	
Q3	Overflow Piping	OPT	STD	
<b>R</b>	<b>LEVEL SWITCH</b>			
R1	Level Switches			
	High & Low (TWO)	STD	STD	
	High High (ADDITIONAL)	OPT	OPT	
R2	Level Switch Bridle Piping	OPT	STD	
<b>S</b>	<b>GAUGE GLASS</b>			
S1	Gauge Glass			
	Red Line Pyrex	STD	STD	
	Reflex	OPT	OPT	
	Magnetic	OPT	OPT	
S2	Gauge Glass Bridle	OPT	STD	



- Complete packaged, skid-mounted deaerator for a paperboard producer.



- High NPSH models can be fabricated in multiple stages for ease of shipping and quick assembly.



- Deaerator shipped separate from pump package to meet shipping clearance.

